VERIFICATION

STATE OF NORTH CAROLINA)
)
COUNTY OF MECKLENBURG)

SS:

The undersigned, Chris Bauer, Director, Corporate Finance-Asst. Treasurer, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of his knowledge, information and belief.

Chris Bauer Affiant

Subscribed and sworn to before me by Chris Bauer on this 9th day of September, 2021.

Virginia M. Adams
NOTARY PUBLIC

VIRGINIA M. ADAMS NOTARY PUBLIC MECKLENBURG COUNTY, NC Exp. 10/02/2021

My Commission Expires:

10/2/21

VERIFICATION

STATE OF New Jersey)
) **SS:**
COUNTY OF Burlington)

The undersigned, Dylan D'Ascendis, Partner, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of his knowledge, information and belief.

Dylan D'Ascendis Affiant

Subscribed and sworn to before me by Dylan D'Ascendis on this 7th day of September, 2021.

NOTARY PUBLIC

My Commission Expires:

HEATHER N. FULMER
NOTARY PUBLIC OF NEW JERSEY
Commission # 50115526
My Commission Expires 10/25/2024

VERIFICATION

STATE OF KENTUCKY)
) **SS:**
COUNTY OF KENTON)

The undersigned, Jeff Kern, Rates & Regulatory Strategy Manager, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of his knowledge, information and belief.

Jeff Kern Affiant

Subscribed and sworn to before me by Jeff Kern on this 3 day of September 2021.

NOTARY PUBLIC

STEPHANIE J. QUIRK
NOTARY PUBLIC
STATE AT LARGE
KENTUCKY
ID # KYNP704
MY COMMISSION EXPIRES JANUARY 13, 2024

My Commission Expires: 1/13/2024

VERIFICATION

STATE OF NORTH CAROLINA)
)
COUNTY OF MECKLENBURG)

SS:

The undersigned, Abby Motsinger, Director Jurisdictional Forecasting, being duly sworn, deposes and says that she has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of her knowledge, information and belief.

Abby Motsinger

Abby Motsinger Affiant

Subscribed and sworn to before me by Abby Motsinger on this 10th day of September, 2021.

Amy E. Suggs

NOTARY PUBLIC

My Commission Expires: 11/16/22

VERIFICATION

STATE OF NORTH CAROLINA)
) **SS:**
COUNTY OF MECKLENBURG)

The undersigned, Jake Stewart, Director Compensation, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained therein are true and correct to the best of his knowledge, information and belief.

Jake Stewart Affiant

Subscribed and sworn to before me by Jake Stewart on this 3 day of September 2021.

NOTARY PUBLIC

My Commission Expires: 09-04-2025

Nathan G Neville
Notary Public
Mecklenburg County
North Carolina
My Commission Expires 9/9/2025

VERIFICATION

STATE OF NORTH CAROLINA)
) **SS:**
COUNTY OF MECKLENBURG)

The undersigned, Brian Weisker, SVP, Chief Op Off Natural Gas, being duly sworn, deposes and says that he has personal knowledge of the matters set forth in the foregoing data requests, and that the answers contained are true and correct to the best of his knowledge, information and belief.

Brian Weisker Affiant

Subscribed and sworn to before me by Brian Weisker on this 7th day of September 2021.

SHANNON L. WALL
Notary Public, North Carolina
Mecklenburg County
My Commission Expires
June 28, 2022

NOTARY PUBLIC

My Commission Expires: 6/28/2022

KyPSC Case No. 2021-00190
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Duke Energy Kentucky
Case No. 2021-00190
STAFF Fourth Set Data Requests
Date Received: August 31, 2021

STAFF-DR-04-001

REQUEST:

Refer to Duke Kentucky's response to Commission Staff's Third Request for Information (Staff's Third Request), Item 17.

a. The response provided does not answer the request for information. Provide a full response to the previous request of Staff's Third Request, Item 17, by providing detailed cost support for Duke Kentucky's residential late payment fee or confirm that the residential late payment fee is not cost supported.

b. Explain what relevance KRS 131.440 has to public utilities.

RESPONSE:

a. 807 KAR 5:006, Section 9(2) provides:

> A nonrecurring charge shall be included in a utility's tariff and applied uniformly throughout the area served by the utility. A charge shall relate directly to the service performed or action taken and shall yield only enough revenue to pay the expenses incurred in rendering the service.

While the second sentence of this regulation draws a nexus between a "charge" and a "service performed or action taken" the imposition of a late payment charge does not result in a service being performed or an action taken. A late payment charge is, by definition, an incentive mechanism that encourages customers to fulfill their payment obligations under a utility's approved tariffs. When customers fail to pay their bills on time, it has a negative financial impact upon Duke Energy Kentucky, which ultimately disaffects other customers.

While a late payment charge may therefore seem incongruent with the regulation, the Commission has specifically recognized that a "late payment charge is a collection mechanism which encourages prompt, timely payment by customers."[1] The company's existing 5% lay payment fee was first approved in 1977 and reaffirmed in 1991, where the Commission expressly held:

> As a collection mechanism, the late payment charge should be large enough to encourage customers to promptly pay their bills. As such, a 5 percent level is reasonable. The incurrence of a late payment charge is dependent upon each customer's individual payment practices. As an incentive, and given its customer specific nature, the amount of the charge is driven by more than merely costs. Again, as in 1977, the Commission finds ULH&P's percent penalty to be reasonable.[2]

Moreover, 807 KAR 5:006, Section 9(2) must be read in the context of Section 9(3)(h), which expressly authorizes a utility to impose a late payment fee. The latter portion of the regulation reads:

> Late payment charge. A late payment charge may be assessed if a customer fails to pay a bill for services by the due date shown on the customer's bill.
>
> 1. The late payment charge may be assessed only once on a bill for rendered services.
> 2. A payment received shall first be applied to the bill for service rendered.
> 3. Additional late payment charges shall not be assessed on unpaid late payment charges.

As a more specific enabling authority, Section 9(h) will control to the extent that there is a conflict between it and Section 9(a). This provision of the regulation does not require specific cost support, which is consistent with Commission precedent that indicates that late payment charges are simply reviewed for reasonableness. As set forth in prior

[1] *In the Matter of an Adjustment of Gas and Electric Rates of the Union Light, Heat & Power Company*, Order, Case No. 1990-00041, pp. 72-73 (Ky. P.S.C. Oct. 2, 1990).
[2] *Id*.

responses, Duke Energy Kentucky does not propose to change the late payment fee in this case.

b. KRS 131.440 was provided as an indicative authority that the Commonwealth of Kentucky as a whole recognizes the importance of imposing an incremental fee for late payment of monies owed. In the context of taxation, the incremental cost for a late payment is up to five times greater than what Duke Energy Kentucky has previously been authorized to charge delinquent paying customers. It would be inequitable and unfair for the Commonwealth of Kentucky to charge a taxpayer – such as Duke Energy Kentucky – a 25% charge for paying a tax bill on an untimely basis while denying the Company the ability to charge a 5% late payment fee for untimely payments by customers, particularly in light of the fact that Duke Energy Kentucky's late payment fee has been in existence for forty-four years.

PERSON RESPONSIBLE: Lesley G. Quick

Duke Energy Kentucky
Case No. 2021-00190
STAFF Fourth Set Data Requests
Date Received: August 31, 2021

CONFIDENTIAL STAFF-DR-04-002
(As to Attachments only)

REQUEST:

Refer to Duke Kentucky's response to Staff's Third Request, Items 21 and 22. The responses provided do not answer the requests, or the subparts. Specifically, the responses do not explain in enough detail the criteria used to determine whether a weighted portion of the STI is awarded or not.

a. Provide all formal documentation management relies upon to determine whether each metric on the scorecard is met.

b. Provide all documentation or correspondence between Duke Kentucky employees, directors, or external parties that explains how the percentage weights on the scorecard were selected.

RESPONSE:

CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachments only)

a. Performance levels that correspond to the minimum, target and maximum payout levels are established at the beginning of each year. The metric owners use the following general guidelines when establishing the performance that corresponds to each payout level for the non-EPS components:

Payout Level	Likelihood of Attaining Payout Level
Minimum (25%)	90%
Target (100%)	50%
Maximum (175%)	15%

The results of each metric are tracked over the course of the year. The year-end results are approved by the metric owners. Based on the final results, the payout level for each scorecard component is determined based on the preestablished performance levels. The final results and payout are certified by The Compensation and People Development Committee. Specific detail on the performance levels and how the corresponding payout for each metric is determined can be found in Exhibit A of the 2021 STI Plan (JJS-4(a) Confidential Attachment of Jake J. Stewart's testimony).

b. See STAFF-DR-04-002(b) Confidential Attachments 1 through 3, which are redacted meeting minutes for the Duke Energy Compensation and People Development Committee (Committee). The meeting minutes reflect the Committee's approval the 2021 Short-Term Incentive Plan.

PERSON RESPONSIBLE: Jake J. Stewart

CONFIDENTIAL PROPRIETARY TRADE SECRET

STAFF-DR-04-002(b) CONFIDENTIAL ATTACHMENT 1

FILED UNDER SEAL

CONFIDENTIAL PROPRIETARY TRADE SECRET

STAFF-DR-04-002(b) CONFIDENTIAL ATTACHMENT 2

FILED UNDER SEAL

CONFIDENTIAL PROPRIETARY TRADE SECRET

STAFF-DR-04-002(b) CONFIDENTIAL ATTACHMENT 3

FILED UNDER SEAL

Duke Energy Kentucky
Case No. 2021-00190
STAFF Fourth Set Data Requests
Date Received: August 31, 2021

STAFF-DR-04-003

REQUEST:

Refer to the Direct Testimony of Dylan W. D'Ascendis (D'Ascendis Testimony), Attachment DWD-3, page 9, notes (5) and (6). Explain the why the differences between the Value Line and Bloomberg data on the S&P 500 produce equity risk premiums that are approximately 140 basis points apart.

RESPONSE:

Please see the Company's response to STAFF-DR-02-027(a) and Attachment to STAFF-DR-02-016, WP MRE 2 and 3. The market returns and hence market risk premiums use different sets of data, one from Bloomberg, and one from Value Line. While Mr. D'Ascendis was not involved in the creation of these data sets by either data source, the likely difference is due to differences in projections in EPS growth rates between the two agencies. The dividend yields should be similar, as the data was compiled using the same spot date (3/31/2021).

PERSON RESPONSIBLE: Dylan W. D'Ascendis

Duke Energy Kentucky
Case No. 2021-00190
STAFF Fourth Set Data Requests
Date Received: August 31, 2021

STAFF-DR-04-004

REQUEST:

Refer to the D'Ascendis Testimony, page 7, lines 7–21. Explain the process for investment capital allocation to the respective subsidiaries of Duke Energy Corp. Include in the response the following: (i) the allocation process, (ii) the criteria governing investment capital allocation decisions, and (iii) how Duke Kentucky specifically must compete for equity capital within the larger corporate entity.

RESPONSE:

Capital investment planning enables Duke Energy to make investment decisions that maximize customer benefits while balancing financial considerations.

At the foundation of our capital allocation process is our commitment to safe and reliable operations for customers. Each subsidiary is allocated a base level of capital investment to meet regulatory and compliance requirements, customer growth projections, and to ensure safe and reliable service as advised by operational leaders. Any incremental capital funded by Duke Energy Corp. is influenced by a number of factors, including:

1. The ability to earn a fair and reasonable return recovered in a timely and efficient manner;
2. The long-term benefits to customers; and,
3. Whether an investment advances the company's strategic objectives.

Duke Energy Kentucky and all subsidiaries compete for capital on the same criteria. Our ability to fund capital needs at a subsidiary is dependent on the capital markets where

those funds are raised. It is essential that our investors remain convinced that Duke Energy Kentucky and all other subsidiaries provide a fair environment to earn a return on that investment.

PERSON RESPONSIBLE: Abby L. Motsinger

Duke Energy Kentucky
Case No. 2021-00190
STAFF Fourth Set Data Requests
Date Received: August 31, 2021

STAFF-DR-04-005

REQUEST:

Refer to the D'Ascendis Testimony, pages 7–8, lines 7–21 and 1–7, respectively. Explain why it is reasonable to establish a fair return on equity for Duke Kentucky on a standalone basis if the equity is issued by Duke Energy Corporation.

RESPONSE:

The return on equity set through the regulatory process is established on a standalone basis, i.e., at the business unit level (Duke Kentucky's jurisdictional natural gas distribution operations at issue in this proceeding) as the return must be sufficient to provide an incentive to allocate equity capital to the subsidiary or business unit regardless of the source of funding. Additionally, the fair return on equity set for Duke Energy Kentucky must reflect the risks facing the assets and distribution service provided by Duke Energy Kentucky's natural gas operations, and not Duke Energy as a whole.

In addition, the stand alone credit profile of Duke Energy Kentucky is what is evaluated by potential lenders (purchasers of debt securities) / investors. The ability to recover prudently incurred costs and earn a fair return is a key component of credit quality of a utility. A fair rate of return is evaluated at the utility level by investors in order to provide reasonable assurance that the utility can generate adequate cash flows to service all fixed obligations at the utility and provide a fair return on equity for equity investors.

Finally, Duke Energy Corporation is a holding company, not a regulated utility with a regulated capital structure and has a remarkably different risk profile than a regulated utility. One could probably argue that the required ROE at Duke Energy Corp could be much higher than that of Duke Energy Kentucky on a standalone basis given the financial and risk profile differences.

PERSON RESPONSIBLE: Dylan W. D'Ascendis
Chris R. Bauer

Duke Energy Kentucky
Case No. 2021-00190
STAFF Fourth Set Data Requests
Date Received: August 31, 2021

STAFF-DR-04-006

REQUEST:

Refer to Duke Kentucky's response to Staff's Second Request Item 20. Provide an updated ROE analysis including combination gas and electric utilities to the proxy group for DCF and Risk Premium Model and CAPM analyses with supporting schedules.

RESPONSE:

The Company objects to the question to the extent that it suggests that the Company's original proxy group was not appropriate. Without waiving said objection, as discussed in response to STAFF-DR-02-020, Mr. D'Ascendis does not believe that combination electric and gas utilities are of comparable risk to Duke Kentucky's gas operations. This point is reinforced by Attorney General Witness Baudino's selection of a proxy group which contained exclusively natural gas distribution companies. While using a combination gas and electric utility group is inappropriate for setting the cost of capital for the natural gas distribution operations of a utility, please see STAFF-DR-04-006 Attachment 1, Schedules 1 through 8 for the requested analyses. STAFF-DR-04-006 Attachments 2 through 9 contain the supporting documents for STAFF-DR-04-006 Attachment 1.

PERSON RESPONSIBLE: As to objection, Legal
As to response, Dylan W. D'Ascendis

Duke Energy Kentucky, Inc.
Recommended Capital Structure and Cost Rates
for Ratemaking Purposes

Type Of Capital	Ratios (1)	Cost Rate		Weighted Cost Rate
Long-Term Debt	46.72%	3.84%	(1)	1.80%
Short-Term Debt	2.58%	1.67%	(1)	0.04%
Common Equity	50.70%	10.30%	(2)	5.22%
Total	100.00%			7.06%

Notes:

(1) Company-provided
(2) From page 2 of this Schedule.

Duke Energy Kentucky, Inc.
Brief Summary of Common Equity Cost Rate

Line No.	Principal Methods	Proxy Group of Thirteen Combination Electric and Gas Utilities
1.	Discounted Cash Flow Model (DCF) (1)	8.89%
2.	Risk Premium Model (RPM) (2)	10.80%
3.	Capital Asset Pricing Model (CAPM) (3)	12.12%
4.	Market Models Applied to Comparable Risk, Non-Price Regulated Companies (4)	12.37%
5.	Range of Common Equity Model Results	8.89% - 12.37%
6.	Size Risk Adjustment (5)	0.25%
7.	Credit Risk Adjustment (6)	0.08%
8.	Flotation Cost Adjustment (7)	0.11%
9.	Indicated Range of Common Equity Cost Rates after Adjustment	9.33% - 12.81%
10.	Recommended Common Equity Cost Rate	10.30%

Notes:
(1) From page 1 of Schedule DWD-2.
(2) From page 1 of Schedule DWD-3.
(3) From page 1 of Schedule DWD-4.
(4) From page 1 of Schedule DWD-6.
(5) Adjustment to reflect the Company's greater business risk due to its smaller size relative to the Utility Proxy Group as detailed in Mr. D'Ascendis' direct testimony.
(6) Company-specific risk adjustment to reflect Duke Energy Kentucky' greater risk due to its Baa1 long-term issuer rating relative to the average A3 long-term issuer rating of the Utility Proxy Group as detailed in Mr. D'Ascendis' Direct Testimony.
(7) From page 1 of Schedule DWD-8.

Duke Energy Kentucky, Inc
Indicated Common Equity Cost Rate Using the Discounted Cash Flow Model for t
Proxy Group of Thirteen Combination Electric and Gas Utilitie

Proxy Group of Thirteen Combination Electric and Gas Utilities	[1] Average Dividend Yield (1)	[2] Value Line Projected Five Year Growth in EPS (2)	[3] Zack's Five Year Projected Growth Rate in EPS	[4] Bloomberg's Five Year Projected Growth Rate in EPS	[5] Yahoo! Finance Projected Five Year Growth in EPS	[6] Average Projected Five Year Growth in EPS (3)	[7] Adjusted Dividend Yield (4)	[8] Indicated Common Equity Cost Rate (5)
Ameren Corporatio	2.59 %	6.50 %	7.30 %	7.60 %	7.70 %	7.27 %	2.68 %	9.95 %
Avista Corporatior	3.93	3.00	5.10	5.62	6.20	4.98	4.03	9.01
Black Hills Corporatior	3.28	5.00	5.10	5.59	4.67	5.09	3.36	8.45
CMS Energy Corporatior	2.82	7.50	6.90	5.87	6.18	6.61	2.91	9.52
Duke Energy Corporatior	3.81	7.00	5.30	4.16	5.45	5.48	3.91	9.39
Consolidated Edison, Inc	4.14	4.00	2.00	3.30	2.00	2.83	4.20	7.03
Eversource Energy	2.82	6.50	6.40	7.77	6.68	6.84	2.92	9.76
MGE Energy, Inc.	2.00	4.50	5.60	5.57	5.60	5.32	2.05	7.37
NorthWestern Corporatio	3.97	3.00	4.80	5.16	4.50	4.37	4.06	8.43
Public Service Enterprise Group Incorporate	3.29	3.50	3.50	4.67	2.35	3.50	3.35	6.85
Southern Company	4.15	6.00	4.90	4.60	6.50	5.50	4.26	9.76
WEC Energy Group, Inc.	2.90	6.50	6.30	6.78	6.50	6.52	2.99	9.51
Xcel Energy Inc.	2.68	6.00	6.10	6.59	6.30	6.25	2.76	9.01
							Average	8.77 %
							Median	9.01 %
							Average of Mean and Media	8.89 %

NA= Not Available
NMF= Not Meaningful Figur

Notes:

(1) Indicated dividend at 08/31/2021 divided by the average closing price of the last 60 trading days ending 08/31/2021 for each company.

(2) From pages 2 through 14 of this Schedul

(3) Average of columns 2 through 5 excluding negative growth rate

(4) This reflects a growth rate component equal to one-half the conclusion of growth rate (from column 6) x column 1 to reflect the periodic payment of dividends (Gordon Model) as opposed to the continuous payment. Thus, for Ameren Corporation, 2.59% x (1+(1/2 x 7.27%)) = 2.68%.

(5) Column 6 + column 7

Source of Information:

Value Line Investment Survey
www.zacks.com Downloaded on 08/31/202
www.yahoo.com Downloaded on 08/31/202
Bloomberg Professional Service

KyPSC Case No. 2021-00190
STAFF-DR-04-006 Attachment 1
Schedule 2
Page 1 of 14

AMEREN NYSE-AEE

RECENT PRICE 84.20 | P/E RATIO 22.2 (Trailing: 22.0 Median: 18.0) | RELATIVE P/E RATIO 1.04 | DIV'D YLD 2.7% | VALUE LINE

TIMELINESS 2 Raised 5/28/21
SAFETY 2 Raised 6/20/14
TECHNICAL 3 Raised 5/7/21
BETA .80 (1.00 = Market)

18-Month Target Price Range

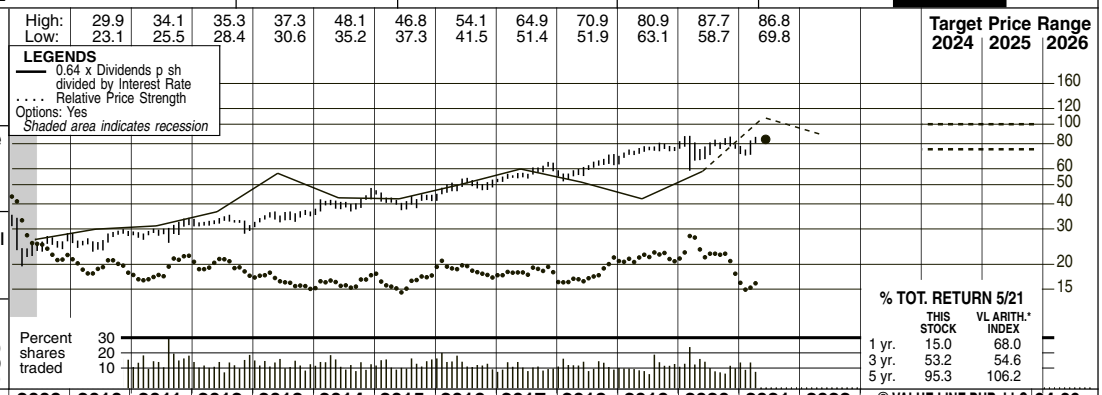
Low-High	Midpoint (% to Mid)
$63-$129	$96 (15%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	100	(+20%)	7%
Low	75	(-10%)	1%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	242	266	249
to Sell	255	250	269
Hld's(000)	188020	196751	194499



% TOT. RETURN 5/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	15.0	68.0
3 yr.	53.2	54.6
5 yr.	95.3	106.2

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
33.12	33.30	36.23	36.92	29.87	31.77	31.04	28.14	24.06	24.95	25.13	25.04	25.46	25.73	24.00	22.87	*23.55*	*23.95*	Revenues per sh	*25.75*
6.10	6.02	6.76	6.44	6.06	6.33	5.87	5.87	5.25	5.77	6.08	6.59	6.80	7.64	7.83	8.08	*8.65*	*9.10*	"Cash Flow" per sh	*10.75*
3.13	2.66	2.98	2.88	2.78	2.77	2.47	2.41	2.10	2.40	2.38	2.68	2.77	3.32	3.35	3.50	*3.80*	*4.05*	Earnings per sh A	*5.00*
2.54	2.54	2.54	2.54	1.54	1.54	1.56	1.60	1.60	1.61	1.66	1.72	1.78	1.85	1.92	2.00	*2.20*	*2.34*	Div'd Decl'd per sh B ■	*2.90*
4.63	4.99	6.96	9.75	7.51	4.66	4.50	5.49	5.87	7.66	8.12	8.78	9.05	9.56	9.92	13.02	*14.40*	*11.70*	Cap'l Spending per sh	*12.75*
31.09	31.86	32.41	32.80	33.08	32.15	32.64	27.27	26.97	27.67	28.63	29.27	29.61	31.21	32.73	35.29	*37.55*	*39.95*	Book Value per sh C	*47.75*
204.70	206.60	208.30	212.30	237.40	240.40	242.60	242.63	242.63	242.63	242.63	242.63	242.63	244.50	246.20	253.30	*259.00*	*265.00*	Common Shs Outst'g D	*280.00*
16.7	19.4	17.4	14.2	9.3	9.7	11.9	13.4	16.5	16.7	17.5	18.3	20.6	18.3	22.1	22.2	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*17.0*
.89	1.05	.92	.85	.62	.62	.75	.85	.93	.88	.88	.96	1.04	.99	1.18	1.15			Relative P/E Ratio	*.90*
4.9%	4.9%	4.9%	6.2%	6.0%	5.8%	5.3%	5.0%	4.6%	4.0%	4.0%	3.5%	3.1%	3.0%	2.6%	2.6%			Avg Ann'l Div'd Yield	*3.4%*
7531.0	6828.0	5838.0	6053.0	6098.0	6076.0	6177.0	6291.0	5910.0	5794.0	*6100*	*6350*	Revenues ($mill)	*7200*
602.0	589.0	518.0	593.0	585.0	659.0	683.0	821.0	834.0	877.0	*990*	*1075*	Net Profit ($mill)	*1390*
37.3%	36.9%	37.5%	38.9%	38.3%	36.7%	38.2%	22.4%	17.9%	15.0%	*10.0%*	*10.0%*	Income Tax Rate	*10.0%*
5.6%	6.1%	7.1%	5.7%	5.1%	4.1%	5.6%	6.9%	5.8%	5.5%	*5.0%*	*5.0%*	AFUDC % to Net Profit	*4.0%*
45.3%	49.5%	45.2%	47.2%	49.3%	47.7%	49.2%	50.3%	52.1%	55.0%	*54.0%*	*53.5%*	Long-Term Debt Ratio	*50.5%*
53.7%	49.4%	53.7%	51.7%	49.7%	51.3%	49.8%	48.8%	47.1%	44.3%	*45.5%*	*46.0%*	Common Equity Ratio	*49.0%*
14738	13384	12190	12975	13968	13840	14420	15632	17116	20158	*21450*	*23050*	Total Capital ($mill)	*27200*
18127	16096	16205	17424	18799	20113	21466	22810	24376	26807	*29275*	*31050*	Net Plant ($mill)	*36700*
5.6%	6.0%	5.6%	5.8%	5.3%	6.0%	6.0%	6.4%	6.0%	5.3%	*5.5%*	*5.5%*	Return on Total Cap'l	*6.0%*
7.5%	8.7%	7.7%	8.7%	8.3%	9.1%	9.3%	10.6%	10.2%	9.7%	*10.0%*	*10.0%*	Return on Shr. Equity	*10.5%*
7.5%	8.8%	7.8%	8.7%	8.3%	9.2%	9.4%	10.7%	10.3%	9.7%	*10.0%*	*10.0%*	Return on Com Equity E	*10.5%*
2.8%	3.0%	1.9%	2.9%	2.5%	3.3%	3.4%	4.8%	4.4%	4.2%	*4.5%*	*4.5%*	Retained to Com Eq	*4.5%*
63%	66%	76%	67%	70%	64%	64%	56%	57%	57%	*57%*	*58%*	All Div'ds to Net Prof	*58%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $12424 mill. **Due in 5 Yrs** $2792 mill.
LT Debt $11527 mill. **LT Interest** $439 mill.
(LT interest earned: 3.7x)
Leases, Uncapitalized Annual rentals $9 mill.
Pension Assets-12/20 $5510 mill.
Oblig $5510 mill.
Pfd Stock $142 mill. **Pfd Div'd** $6 mill.
807,595 sh. $3.50 to $5.50 cum. (no par), $100 stated val., redeem. $102.176-$110/sh.; 616,323 sh. 4.00% to 6.625%, $100 par, redeem. $100-$104.30/sh.
Common Stock 255,552,619 shs. **as of 4/30/21**
MARKET CAP: $22 billion (Large Cap)

ELECTRIC OPERATING STATISTICS

	2018	2019	2020
% Change Retail Sales (KWH)	+5.6	-3.5	-5.6
Avg. Indust. Use (MWH)	NA	NA	NA
Avg. Indust. Revs. per KWH (¢)	NA	NA	NA
Capacity at Peak (Mw)	NA	NA	NA
Peak Load, Summer (Mw)	NA	NA	NA
Annual Load Factor (%)	NA	NA	NA
% Change Customers (yr-end)	NA	NA	NA
Fixed Charge Cov. (%)	313	307	291

ANNUAL RATES

of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	-3.0%	-.5%	*1.0%*
"Cash Flow"	2.5%	6.5%	*5.5%*
Earnings	2.0%	8.0%	*6.5%*
Dividends	.5%	3.5%	*7.0%*
Book Value	- -	3.5%	*6.5%*

QUARTERLY REVENUES ($ mill.)

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1585	1563	1724	1419	6291.0
2019	1556	1379	1659	1316	5910.0
2020	1440	1398	1628	1328	5794.0
2021	1566	*1450*	*1700*	*1384*	*6100*
2022	*1650*	*1500*	*1750*	*1450*	*6350*

EARNINGS PER SHARE A

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.62	.97	1.45	.28	3.32
2019	.78	.72	1.47	.38	3.35
2020	.59	.98	1.47	.46	3.50
2021	.91	*.75*	*1.70*	*.44*	*3.80*
2022	*.85*	*.85*	*1.85*	*.50*	*4.05*

QUARTERLY DIVIDENDS PAID B ■

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.44	.44	.44	.4575	1.78
2018	.4575	.4575	.4575	.475	1.85
2019	.475	.475	.475	.495	1.92
2020	.495	.495	.495	.515	2.00
2021	.55				

BUSINESS: Ameren Corporation is a holding company formed through the merger of Union Electric and CIPSCO. Has 1.2 million electric and 127,000 gas customers in Missouri; 1.2 million electric and 813,000 gas customers in Illinois. Discontinued nonregulated power-generation operation in '13. Electric revenue breakdown: residential, 43%; commercial, 32%; industrial, 8%; other, 17%. Generating sources: coal, 67%; nuclear, 19%; hydro & other, 6%; purchased, 8%. Fuel costs: 22% of revenues. '20 reported deprec. rates: 3%-4%. Has 9,200 employees. Chairman, President & CEO: Warner L. Baxter. Inc.: Missouri. Address: One Ameren Plaza, 1901 Chouteau Ave., P.O. Box 66149, St. Louis, Missouri 63166-6149. Tel.: 314-621-3222. Internet: www.ameren.com.

Ameren filed electric and gas rate cases in Missouri. The utility is seeking an electric increase of $299 million, based on a 9.9% return on equity and a 51.9% common-equity ratio. The gas request is $9 million, based on a 9.8% ROE and the same common-equity ratio. Among other things, Ameren is seeking to place wind capacity in the rate base. Decisions are expected by February, with new tariffs taking effect in March.

Earnings will likely advance solidly in 2021. First-quarter profits soared, thanks in part to an electric rate hike in Missouri that took effect in April of 2020 and a gas tariff increase that took effect in Illinois in January of 2021. Ameren's electric operations in Illinois are benefiting from a higher allowed ROE. We have raised our share-earnings estimate by a dime, to $3.80. This is within the company's targeted range of $3.65-$3.85 a share.

Further profit growth is likely in 2022. Ameren should benefit from rate relief in Missouri. Ongoing investment in the utility's electric transmission system is another source of income. Our estimate of $4.05 a share, which we boosted by $0.10, would produce a 7% increase. This is within management's goal of 6%-8% annually. However . . .

We assume in our estimates no change in the allowed ROE for electric transmission. The Federal Energy Regulatory Commission is considering eliminating a half percentage point "adder" that is now reflected in the company's transmission rates. This would lower Ameren's annual earning power by $0.04 a share.

Ameren expects the Callaway nuclear plant to return to service in July. The unit has been out of service due to a non-nuclear problem with the generator. The repair and replacement power costs are covered by insurance, so management expects no significant effect on the company's financial results. Still, any extended and unplanned outage at a nuclear facility bears watching.

Ameren stock is timely, but expensively priced. The dividend yield is below the utility mean. The recent quotation is within our 2024-2026 Target Price Range, so total return prospects over that time frame are unspectacular.

Paul E. Debbas, CFA *June 11, 2021*

(A) Diluted EPS. Excl. nonrec. gain (losses): '05, (11¢); '10, ($2.19); '11, (32¢); '12, ($6.42); '17, (63¢); gain (loss) from disc. ops.: '13, (92¢); '15, 21¢. Next earnings report due mid-Aug. **(B)** Div'ds paid late Mar., June, Sept., & Dec. ■ Div'd reinvest. plan avail. **(C)** Incl. intang. In '20: $5.97/sh. **(D)** In mill. **(E)** Rate base: Orig. cost depr. Rate allowed on com. eq. in MO in '20: elec., none; in '11: gas, none; in IL: electric, varies; in '21: gas, 9.67%; earned on avg. com. eq., '20: 10.2%. Regulatory Climate: MO, Average; IL, Below Average.

Company's Financial Strength	A
Stock's Price Stability	95
Price Growth Persistence	80
Earnings Predictability	95

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AVISTA CORP. NYSE-AVA

RECENT PRICE 42.56 | P/E RATIO 19.8 (Trailing: 19.7 Median: 18.0) | RELATIVE P/E RATIO 1.00 | DIV'D YLD 4.1% | VALUE LINE

TIMELINESS 3 Raised 3/5/21
SAFETY 2 Raised 5/7/10
TECHNICAL 2 Lowered 6/11/21
BETA .95 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$18-$62	$40 (-5%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	60	(+40%)	*12%*
Low	45	(+5%)	*5%*

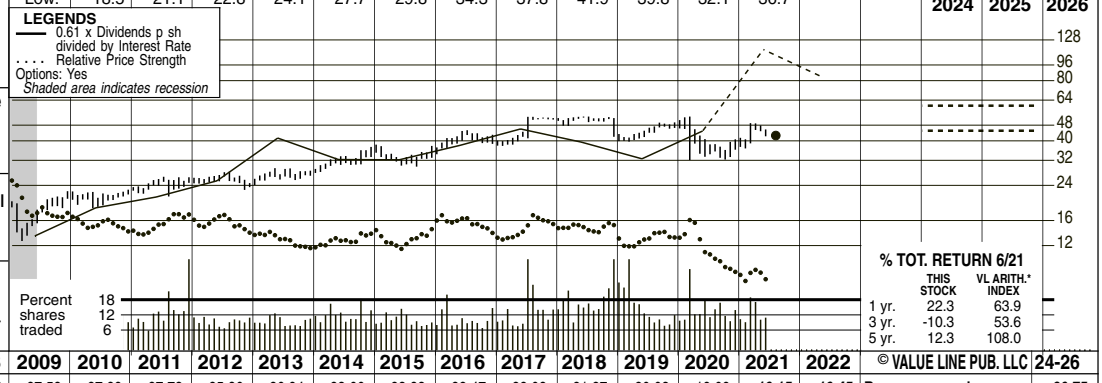
Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	105	102	111
to Sell	119	113	107
Hld's(000)	57100	57728	58026

	22.8	26.5	28.0	29.3	37.4	38.3	45.2	52.8	52.9	49.5	53.0	49.1
High:	18.5	21.1	22.8	24.1	27.7	29.8	34.3	37.8	41.9	39.8	32.1	36.7
Low:												

LEGENDS
0.61 x Dividends p sh divided by Interest Rate
Relative Price Strength
Options: Yes
Shaded area indicates recession

Target Price Range 2024 | 2025 | 2026



% TOT. RETURN 6/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	22.3	63.9
3 yr.	-10.3	53.6
5 yr.	12.3	108.0

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
27.98	28.68	26.80	30.77	27.58	27.29	27.73	25.86	26.94	23.66	23.83	22.47	22.08	21.27	20.03	19.09	*19.15*	*19.45*	Revenues per sh	*20.75*
2.72	4.27	2.93	3.98	4.45	3.62	3.78	3.70	4.36	4.36	4.92	5.30	4.87	5.01	6.06	5.16	*5.40*	*5.70*	"Cash Flow" per sh	*6.50*
.92	1.47	.72	1.36	1.58	1.65	1.72	1.32	1.85	1.84	1.89	2.15	1.95	2.07	2.97	1.90	*2.15*	*2.30*	Earnings per sh [A]	*2.75*
.55	.57	.60	.69	.81	1.00	1.10	1.16	1.22	1.27	1.32	1.37	1.43	1.49	1.55	1.62	*1.69*	*1.76*	Div'd Decl'd per sh [B] ■	*2.00*
3.23	3.14	4.04	4.09	3.86	3.64	4.20	4.61	5.05	5.47	6.46	6.34	6.30	6.46	6.59	5.84	*6.15*	*6.05*	Cap'l Spending per sh	*5.75*
15.87	17.46	17.27	18.30	19.17	19.71	20.30	21.06	21.61	23.84	24.53	25.69	26.41	26.99	28.87	29.31	*30.10*	*30.85*	Book Value per sh [C]	*33.50*
48.59	52.51	52.91	54.49	54.84	57.12	58.42	59.81	60.08	62.24	62.31	64.19	65.49	65.69	67.18	69.24	*71.00*	*72.00*	Common Shs Outst'g [D]	*75.00*
19.4	15.4	30.9	15.0	11.4	12.7	14.1	19.3	14.6	17.3	17.6	18.8	23.4	24.5	15.0	21.2	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*19.5*
1.03	.83	1.64	.90	.76	.81	.88	1.23	.82	.91	.89	.99	1.18	1.32	.80	1.09			Relative P/E Ratio	*1.10*
3.0%	2.5%	2.7%	3.4%	4.5%	4.8%	4.5%	4.6%	4.5%	4.0%	4.0%	3.4%	3.1%	2.9%	3.5%	4.0%			Avg Ann'l Div'd Yield	*3.7%*
1619.8	1547.0	1618.5	1472.6	1484.8	1442.5	1445.9	1396.9	1345.6	1321.9	*1360*	*1400*	Revenues ($mill)	*1550*
100.2	78.2	111.1	114.2	118.1	137.2	126.1	136.4	197.0	129.5	*150*	*165*	Net Profit ($mill)	*210*
35.4%	34.4%	36.0%	37.6%	36.3%	36.3%	36.5%	16.0%	13.8%	5.2%	*14.0%*	*14.0%*	Income Tax Rate	*14.0%*
5.2%	8.3%	8.8%	11.1%	10.1%	8.1%	7.9%	7.7%	5.5%	8.5%	*7.0%*	*7.0%*	AFUDC % to Net Profit	*5.0%*
51.4%	50.8%	51.4%	51.0%	50.0%	51.2%	47.2%	50.5%	49.4%	50.4%	*47.5%*	*50.5%*	Long-Term Debt Ratio	*49.5%*
48.6%	49.2%	48.6%	49.0%	50.0%	48.8%	52.8%	49.5%	50.6%	49.6%	*52.5%*	*49.5%*	Common Equity Ratio	*50.5%*
2439.9	2561.2	2669.7	3027.3	3060.3	3379.0	3273.2	3580.3	3834.6	4089.8	*4065*	*4485*	Total Capital ($mill)	*4975*
2860.8	3023.7	3202.4	3620.0	3898.6	4147.5	4398.8	4648.9	4797.0	4991.6	*5195*	*5390*	Net Plant ($mill)	*5875*
5.5%	4.3%	5.4%	4.9%	5.1%	5.3%	5.0%	4.8%	6.2%	4.2%	*5.0%*	*5.0%*	Return on Total Cap'l	*5.5%*
8.5%	6.2%	8.6%	7.7%	7.7%	8.3%	7.3%	7.7%	10.2%	6.4%	*7.0%*	*7.5%*	Return on Shr. Equity	*8.5%*
8.5%	6.2%	8.6%	7.7%	7.7%	8.3%	7.3%	7.7%	10.2%	6.4%	*7.0%*	*7.5%*	Return on Com Equity [E]	*8.5%*
3.1%	.8%	2.9%	2.4%	2.3%	3.0%	1.9%	2.2%	4.9%	.9%	*1.5%*	*2.0%*	Retained to Com Eq	*2.5%*
64%	88%	66%	69%	70%	64%	73%	72%	52%	85%	*79%*	*76%*	All Div'ds to Net Prof	*71%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $2253.3 mill. **Due in 5 Yrs** $471.5 mill.
LT Debt $2060.3 mill. **LT Interest** $92.3 mill.
Incl. $51.5 mill. debt to affiliated trusts; $51.8 mill. finance leases.
(LT interest earned: 2.6x)
Leases, Uncapitalized Annual rentals $4.8 mill.
Pension Assets-12/20 $722.0 mill.
Oblig $826.9 mill.
Pfd Stock None

Common Stock 69,314,368 shs.
as of 4/30/21
MARKET CAP: $2.9 billion (Mid Cap)

ELECTRIC OPERATING STATISTICS

	2018	2019	2020
% Change Retail Sales (KWH)	-3.4	+.8	-2.4
Avg. Indust. Use (MWH)	1344	1296	1265
Avg. Indust. Revs. per KWH (¢)	6.20	6.26	6.38
Capacity at Peak (Mw)	NA	NA	NA
Peak Load, Summer (Mw)	1716	1656	1721
Annual Load Factor (%)	NA	NA	NA
% Change Customers (yr-end)	+1.4	+1.3	+1.8
Fixed Charge Cov. (%)	259	202	221

ANNUAL RATES of change (per sh)

	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	-3.5%	-4.0%	*.5%*
"Cash Flow"	3.0%	3.5%	*3.0%*
Earnings	4.0%	4.5%	*3.0%*
Dividends	6.5%	4.0%	*4.5%*
Book Value	4.0%	4.0%	*3.0%*

QUARTERLY REVENUES ($ mill.)

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	409.4	319.3	296.0	372.2	1396.9
2019	396.5	300.8	283.8	364.5	1345.6
2020	390.2	278.6	272.6	380.5	1321.9
2021	412.9	*290*	*272.1*	*380*	*1360*
2022	*415*	*300*	*290*	*395*	*1400*

EARNINGS PER SHARE [A]

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.83	.39	.15	.70	2.07
2019	1.76	.38	.08	.76	2.97
2020	.72	.26	.07	.85	1.90
2021	.98	*.30*	*.07*	*.80*	*2.15*
2022	*.90*	*.45*	*.10*	*.85*	*2.30*

QUARTERLY DIVIDENDS PAID [B] ■

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.3575	.3575	.3575	.3575	1.43
2018	.3725	.3725	.3725	.3725	1.49
2019	.3875	.3875	.3875	.3875	1.55
2020	.405	.405	.405	.405	1.62
2021	.4225	.4225			

BUSINESS: Avista Corporation (formerly The Washington Water Power Company) supplies electricity & gas in eastern Washington & northern Idaho. Supplies electricity to part of Alaska & gas to part of Oregon. Customers: 410,000 electric, 361,000 gas. Acq'd Alaska Electric Light and Power 7/14. Sold Ecova energy-management sub. 6/14. Electric rev. breakdown: residential, 41%; commercial, 33%; industrial, 11%; wholesale, 8%; other, 7%. Generating sources: gas & coal, 34%; hydro, 30%; purch., 36%. Fuel costs: 33% of revs. '19 reported depr. rate (Avista Utilities): 3.3%. Has 1,900 employees. Chairman: Scott L. Morris. Pres. & CEO: Dennis Vermillion. Inc.: WA. Address: 1411 E. Mission Ave., Spokane, WA 99202-2600. Tel.: 509-489-0500. Internet: www.avistacorp.com.

Avista has reached a settlement of its general rate case in Idaho. This included the utility, the staff of the state commission, and intervenor groups. If the agreement is approved by the regulators, Avista's electric rates will be raised by $10.6 million (4.3%) on September 1, 2021, and $8.0 million (3.1%) on September 1, 2022. Changes in gas tariffs will be modest, with a $1.6 million (3.7%) cut this year and a $0.9 million (2.2%) raise next year. The allowed return on equity will be 9.4%, down slightly from the currently allowed ROE of 9.5%, and the common-equity ratio will remain 50%. The pass-through of tax credits to customers will limit the effects of new rates on their bills.

A rate case in Washington is pending. Avista is seeking electric and gas increases of $44.2 million (8.3%) and $12.8 million (7.9%), respectively, based on an ROE of 9.9% and a common-equity ratio of 50%. The staff of the Washington commission recommended electric and gas hikes of $7.2 million and $5.6 million, respectively, based on an ROE of 9.3% (down from the current 9.4%) and a common-equity ratio of 48.5% (identical with the current figure). Unlike in Idaho, a settlement does not appear to be in the offing. The company expects resolution of its rate application by October 1st.

Additional rate cases are upcoming. Avista plans to request higher gas rates in Oregon in the second half of 2021, and is required to file an application in Alaska by August 30, 2022.

The utilities have not been earning their allowed ROE in recent years. This can be seen in Avista's mediocre earned ROEs (except for 2019, which benefited from a breakup fee after a merger attempt failed). If the company obtains reasonable regulatory treatment in Washington—which is by no means assured—it ought to earn its allowed ROE by 2023. Management's share-profit guidance is $1.96-$2.16 for 2021, $2.18-$2.38 for 2022, and $2.42-$2.62 for 2023. Our estimates are within Avista's targeted ranges.

This stock has a dividend yield that is slightly above the utility average. Total return potential is negative for the next 18 months, but about average for the 3- to 5-year period.

Paul E. Debbas, CFA *July 23, 2021*

(A) Diluted EPS. Excl. nonrec. gain (loss): '14, 9¢; '17, (16¢); gains on discont. ops.: '14, $1.17; '15, 8¢. '19 EPS don't sum due to rounding. Next earnings report due early Aug. **(B)** Div'ds paid in mid-Mar., June, Sept. & Dec. ■ Div'd reinvestment plan avail. **(C)** Incl. deferred chgs. In '20: $802.9 mill., $11.60/sh. **(D)** In mill. **(E)** Rate base: Net orig. cost. Rate allowed on com. eq. in WA in '20: 9.4%; in ID in '17: 9.5%; in OR in '21: 9.4%; earned on avg. com. eq., '20: 7.1%. Regulatory Climate: WA, Below Average; ID, Above Average.

Company's Financial Strength	B++
Stock's Price Stability	65
Price Growth Persistence	50
Earnings Predictability	60

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BLACK HILLS CORP. NYSE-BKH

RECENT PRICE **66.81** | P/E RATIO **17.1** (Trailing: 18.2 Median: 18.0) | RELATIVE P/E RATIO **0.86** | DIV'D YLD **3.5%** | **VALUE LINE**

TIMELINESS 4 Lowered 4/16/21
SAFETY 2 Raised 5/1/15
TECHNICAL 3 Lowered 6/18/21
BETA 1.00 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$46-$101	$74 (10%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	95	(+40%)	*12%*
Low	70	(+5%)	*5%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	130	130	132
to Sell	136	142	141
Hld's(000)	53467	53730	54420

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
High:	34.5	34.8	37.0	55.1	62.1	53.4	64.6	72.0	68.2	82.0	87.1	71.3						
Low:	25.7	25.8	30.3	36.9	47.1	36.8	44.7	57.0	50.5	60.8	48.1	58.2						

Target Price Range 2024 2025 2026

% TOT. RETURN 6/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	20.0	63.9
3 yr.	17.1	53.6
5 yr.	20.7	108.0

41.97	19.69	18.41	26.03	32.58	33.29	28.96	26.55	28.67	31.20	25.48	29.47	31.38	29.24	28.22	27.02	***29.05***	***27.50***
4.81	5.04	5.29	2.95	5.41	4.88	4.01	5.59	5.93	6.25	5.67	6.28	7.15	6.61	7.02	7.41	***7.65***	***7.90***
2.11	2.21	2.68	.18	2.32	1.66	1.01	1.97	2.61	2.89	2.83	2.63	3.38	3.47	3.53	3.73	***3.90***	***4.00***
1.28	1.32	1.37	1.40	1.42	1.44	1.46	1.48	1.52	1.56	1.62	1.68	1.81	1.93	2.05	2.17	***2.29***	***2.41***
4.18	9.24	6.92	8.51	8.90	12.04	10.03	7.90	7.97	8.92	8.90	8.89	6.09	7.62	13.31	12.22	***10.05***	***9.15***
22.29	23.68	25.66	27.19	27.84	28.02	27.53	27.88	29.39	30.80	28.63	30.25	31.92	36.36	38.42	40.79	***42.85***	***44.85***
33.16	33.37	37.80	38.64	38.97	39.27	43.92	44.21	44.50	44.67	51.19	53.38	53.54	60.00	61.48	62.79	***64.50***	***65.50***
17.3	15.8	15.0	NMF	9.9	18.1	31.1	17.1	18.2	19.0	16.1	22.3	19.5	16.8	21.2	17.0	***Bold figures are Value Line estimates***	
.92	.85	.80	NMF	.66	1.15	1.95	1.09	1.02	1.00	.81	1.17	.98	.91	1.13	.87		
3.5%	3.8%	3.4%	4.2%	6.2%	4.8%	4.6%	4.4%	3.2%	2.8%	3.5%	2.9%	2.7%	3.3%	2.7%	3.4%		
1272.2	1173.9	1275.9	1393.6	1304.6	1573.0	1680.3	1754.3	1734.9	1696.9	***1875***	***1800***
40.4	86.9	115.8	128.8	128.3	140.3	186.5	192.5	214.5	232.9	***250***	***260***
31.1%	35.5%	34.7%	33.7%	35.8%	25.1%	28.7%	19.2%	13.0%	12.2%	***8.5%***	***8.5%***
65.0%	5.4%	2.4%	2.4%	2.7%	5.3%	2.7%	1.4%	3.3%	2.5%	***2.0%***	***2.0%***
51.4%	43.2%	51.6%	47.9%	56.0%	66.5%	64.5%	57.5%	57.1%	57.9%	***57.0%***	***51.5%***
48.6%	56.8%	48.4%	52.1%	44.0%	33.5%	35.5%	42.5%	42.9%	42.1%	***43.0%***	***48.5%***
2489.7	2171.4	2704.7	2643.6	3332.7	4825.8	4818.4	5132.4	5502.2	6089.5	***6395***	***6040***
2789.6	2742.7	2990.3	3239.4	3259.1	4469.0	4541.4	4854.9	5503.2	6019.7	***6425***	***6765***
3.3%	5.5%	5.5%	6.1%	4.9%	4.0%	5.2%	5.0%	4.9%	5.0%	***5.0%***	***5.5%***
3.3%	7.1%	8.9%	9.4%	8.8%	8.7%	10.9%	8.8%	9.1%	9.1%	***9.0%***	***9.0%***
3.3%	7.1%	8.9%	9.4%	8.8%	8.7%	10.9%	8.8%	9.1%	9.1%	***9.0%***	***9.0%***
NMF	1.8%	3.7%	4.3%	3.8%	3.3%	5.3%	3.9%	3.8%	3.8%	***3.5%***	***3.5%***
NMF	75%	58%	54%	57%	62%	52%	55%	58%	58%	***58%***	***60%***

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Revenues per sh	***28.50***
"Cash Flow" per sh	***9.25***
Earnings per sh [A]	***4.75***
Div'd Decl'd per sh [B] ■	***2.80***
Cap'l Spending per sh	***9.00***
Book Value per sh [C]	***51.75***
Common Shs Outst'g [D]	***68.50***
Avg Ann'l P/E Ratio	***17.5***
Relative P/E Ratio	***.95***
Avg Ann'l Div'd Yield	***3.4%***
Revenues ($mill)	***1950***
Net Profit ($mill)	***325***
Income Tax Rate	***8.5%***
AFUDC % to Net Profit	***1.0%***
Long-Term Debt Ratio	***49.0%***
Common Equity Ratio	***51.0%***
Total Capital ($mill)	***6975***
Net Plant ($mill)	***7725***
Return on Total Cap'l	***5.5%***
Return on Shr. Equity	***9.0%***
Return on Com Equity [E]	***9.0%***
Retained to Com Eq	***4.0%***
All Div'ds to Net Prof	***59%***

CAPITAL STRUCTURE as of 3/31/21
Total Debt $4352.0 mill. **Due in 5 Yrs** $1349.3 mill.
LT Debt $3529.2 mill. **LT Interest** $141.6 mill.
(LT interest earned: 2.8x)
Leases, Uncapitalized Annual rentals $.9 mill.

Pension Assets-12/20 $473.7 mill.
Oblig $514.0 mill.

Pfd Stock None

Common Stock 62,871,727 shs.
as of 4/30/21

MARKET CAP: $4.2 billion (Mid Cap)

ELECTRIC OPERATING STATISTICS

	2018	2019	2020
% Change Retail Sales (KWH)	+2.7	+2.1	-.7
Avg. Indust. Use (MWH)	19789	21406	21624
Avg. Indust. Revs. per KWH (¢)	7.41	7.38	7.31
Capacity at Yearend (Mw)	NA	NA	NA
Peak Load, Summer (Mw)	1104	1022	1050
Annual Load Factor (%)	NA	NA	NA
% Change Customers (yr-end)	+.8	+1.1	+.9
Fixed Charge Cov. (%)	276	278	285

ANNUAL RATES of change (per sh)

	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	-1.0%	- -	*Nil*
"Cash Flow"	4.5%	3.5%	*4.5%*
Earnings	10.0%	5.0%	*5.0%*
Dividends	3.5%	5.5%	*5.5%*
Book Value	3.5%	5.5%	*5.0%*

QUARTERLY REVENUES ($ mill.)

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	575.4	355.7	322.0	501.2	1754.3
2019	597.8	333.9	325.5	477.7	1734.9
2020	537.0	326.9	346.6	486.4	1696.9
2021	633.4	***380***	***340***	***506.6***	***1875***
2022	***580***	***365***	***350***	***505***	***1800***

EARNINGS PER SHARE [A]

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1.59	.45	.32	1.11	3.47
2019	1.73	.24	.44	1.13	3.53
2020	1.59	.33	.58	1.23	3.73
2021	1.54	***.50***	***.50***	***1.26***	***3.90***
2022	***1.65***	***.45***	***.60***	***1.30***	***4.00***

QUARTERLY DIVIDENDS PAID [B] ■

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.445	.445	.445	.475	1.81
2018	.475	.475	.475	.505	1.93
2019	.505	.505	.505	.535	2.05
2020	.535	.535	.535	.565	2.17
2021	.565	.565			

BUSINESS: Black Hills Corporation is a holding company for Black Hills Energy, which serves 214,000 electric customers in CO, SD, WY and MT, and 1.1 million gas customers in NE, IA, KS, CO, WY, and AR. Has coal mining sub. Acq'd Cheyenne Light 1/05; utility ops. from Aquila 7/08; SourceGas 2/16. Discont. telecom in '05; oil marketing in '06; gas marketing in '11; gas & oil E&P in '17. Electric rev. breakdown: res'l, 31%; comm'l, 34%; ind'l, 18%; other, 17%. Generating sources: coal, 33%; other, 12%; purch., 55%. Fuel costs: 29% of revs. '20 deprec. rate: 3.2%. Has 3,000 employees. Chairman: David R. Emery. Pres. & CEO: Linn Evans. Inc.: SD. Address: 7001 Mount Rushmore Rd., P.O. Box 1400, Rapid City, SD 57709-1400. Tel.: 605-721-1700. Internet: www.blackhillscorp.com.

Black Hills has some gas rate cases pending. In Colorado, the utility is seeking an increase of $14.6 million, based on a 9.95% return on equity and a 50.3% common-equity ratio. Black Hills is also asking for a five-year regulatory mechanism to recover safety-related expenditures, retroactive to the start of 2021. In Iowa, the company filed for a hike of $8.3 million, based on a 10.15% ROE and a 50% common-equity ratio. An interim rate hike took effect in June. As in Colorado, Black Hills asked for a safety-related regulatory mechanism. In Kansas, the utility requested an increase of $5.3 million, based on a 10.15% ROE and a 50.3% common-equity ratio. Black Hills also wants a five-year renewal of the safety-focused rider. In each state, new tariffs are expected to go into effect in the first quarter of 2022.

Separately, the company is seeking recovery of extraordinary gas costs it incurred as a result of a cold spell in February. As of March 31st, this amounted to $559 million. The commissions in South Dakota and Nebraska have already approved a plan, including financing costs and without disallowing recovery of any gas costs. Plans have been filed in five other states.

We expect earnings improvement in 2021. This is despite some unrecoverable costs associated with the cold spell, which were a $0.15-a-share drag on the bottom line in the first quarter. (A few cents of this will be reversed in the second period.) Black Hills will likely incur no significant coronavirus-related expenses this year. Our estimate is at the midpoint of the company's guidance of $3.80-$4.00 a share.

Further profit growth is likely in 2022. We assume normal weather conditions in the first quarter. Rate relief from the aforementioned rate cases should help, too. Our estimate is within Black Hills' guidance of $3.95-$4.15 a share.

Black Hills is adding common equity. Its financing plans include the issuance of $100 million-$120 million this year and $60 million-$80 million in 2022.

This untimely stock has a dividend yield that is about average for a utility. Total return potential is also about average, both for the 18-month and the 3- to 5-year periods.

Paul E. Debbas, CFA *July 23, 2021*

Company's Financial Strength	A
Stock's Price Stability	85
Price Growth Persistence	55
Earnings Predictability	85

(A) Dil. EPS. Excl. nonrec. gains (losses): '08, ($1.55); '09, (28¢); '10, 10¢; '15, ($3.54); '16, ($1.26); '17, 14¢; '18, $1.31; '19, (25¢); '20, (8¢); discontinued ops.: '08, $4.12; '09, 7¢; '11, 23¢; '12, (16¢); '17, (31¢); '18, (12¢). '19 EPS don't sum due to rounding. Next egs. due early Aug. **(B)** Div'ds pd. early Mar., Jun., Sept., & Dec. ■ Div'd reinv. plan avail. **(C)** Incl. def'd chgs. In '20: $24.49/sh. **(D)** In mill. **(E)** Rate base: Net orig. cost. Rate all'd on com. eq. in SD in '15: none; in CO in '17: 9.37%; earn. on avg. com. eq., '20: 9.5%. Regul. Climate: Avg.

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CMS ENERGY CORP. NYSE-CMS

RECENT PRICE **62.74** | P/E RATIO **22.0** (Trailing: 20.9 Median: 19.0) | RELATIVE P/E RATIO **1.03** | DIV'D YLD **2.9%** | **VALUE LINE**

TIMELINESS 3 Raised 4/30/21
SAFETY 2 Raised 3/21/14
TECHNICAL 2 Raised 6/11/21
BETA .80 (1.00 = Market)

18-Month Target Price Range

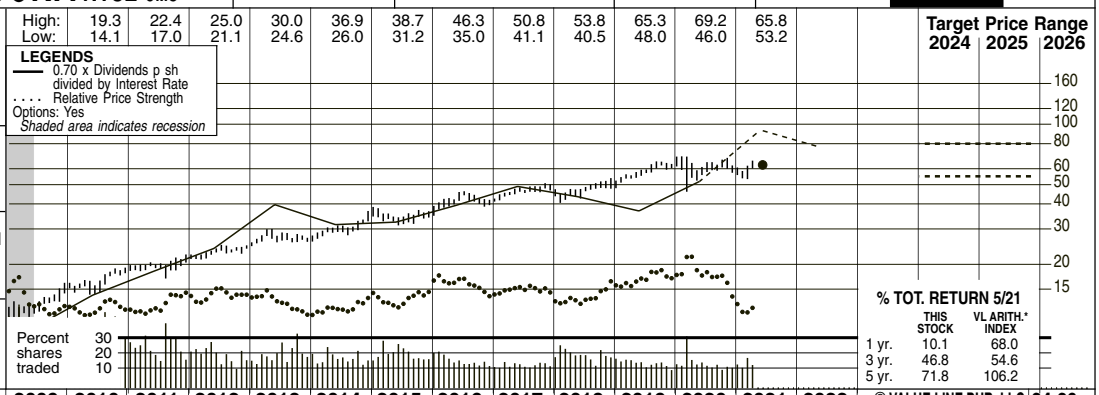
Low-High	Midpoint (% to Mid)
$47-$101	$74 (20%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	80	(+30%)	*9%*
Low	55	(-10%)	*Nil*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	248	242	268
to Sell	251	274	262
Hld's(000)	260875	262184	259761



2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
28.52	30.57	28.95	30.13	27.23	25.77	25.59	23.90	24.68	26.09	23.29	22.92	23.37	24.25	24.11	23.12	*24.05*	*24.05*	Revenues per sh	*25.75*
3.43	3.22	3.08	3.88	3.47	3.70	3.65	3.82	4.06	4.22	4.59	4.88	5.29	5.61	5.89	6.24	*6.60*	*7.00*	"Cash Flow" per sh	*8.25*
1.10	.64	.64	1.23	.93	1.33	1.45	1.53	1.66	1.74	1.89	1.98	2.17	2.32	2.39	2.64	*2.85*	*3.05*	Earnings per sh [A]	*3.75*
- -	- -	.20	.36	.50	.66	.84	.96	1.02	1.08	1.16	1.24	1.33	1.43	1.53	1.63	*1.74*	*1.86*	Div'd Decl'd per sh [B] ■	*2.30*
2.69	3.01	5.61	3.50	3.59	3.29	3.47	4.65	4.98	5.73	5.64	5.99	5.91	7.32	7.41	8.02	*8.55*	*10.10*	Cap'l Spending per sh	*8.25*
10.53	10.03	9.46	10.88	11.42	11.19	11.92	12.09	12.98	13.34	14.21	15.23	15.77	16.78	17.68	19.02	*20.75*	*22.50*	Book Value per sh [C]	*27.75*
220.50	222.78	225.15	226.41	227.89	249.60	254.10	264.10	266.10	275.20	277.16	279.21	281.65	283.37	283.86	288.94	*293.00*	*297.00*	Common Shs Outst'g [D]	*306.00*
12.6	22.2	26.8	10.9	13.6	12.5	13.6	15.1	16.3	17.3	18.3	20.9	21.3	20.3	24.3	23.3	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*18.0*
.67	1.20	1.42	.66	.91	.80	.85	.96	.92	.91	.92	1.10	1.07	1.10	1.29	1.21			Relative P/E Ratio	*1.00*
- -	- -	1.2%	2.7%	4.0%	4.0%	4.3%	4.2%	3.8%	3.6%	3.4%	3.0%	2.9%	3.0%	2.6%	2.6%			Avg Ann'l Div'd Yield	*3.4%*
6503.0	6312.0	6566.0	7179.0	6456.0	6399.0	6583.0	6873.0	6845.0	6680.0	*7050*	*7150*	Revenues ($mill)	*7900*
384.0	413.0	454.0	479.0	525.0	553.0	610.0	659.0	682.0	757.0	*835*	*910*	Net Profit ($mill)	*1145*
36.8%	39.4%	39.9%	34.3%	34.0%	33.1%	31.2%	14.9%	17.7%	15.0%	*13.0%*	*13.0%*	Income Tax Rate	*13.0%*
2.6%	2.9%	2.0%	2.3%	2.7%	3.1%	1.1%	1.4%	2.1%	1.1%	*1.0%*	*2.0%*	AFUDC % to Net Profit	*1.0%*
66.9%	67.9%	67.5%	68.7%	68.3%	67.1%	67.3%	69.0%	70.4%	71.2%	*69.5%*	*68.0%*	Long-Term Debt Ratio	*66.5%*
32.6%	31.6%	32.2%	31.0%	31.4%	32.6%	32.4%	30.7%	29.4%	28.6%	*30.5%*	*32.0%*	Common Equity Ratio	*33.0%*
9279.0	10101	10730	11846	12534	13040	13692	15476	17082	19223	*20075*	*21025*	Total Capital ($mill)	*25600*
10633	11551	12246	13412	14705	15715	16761	18126	18926	21039	*22450*	*24275*	Net Plant ($mill)	*28000*
6.3%	5.9%	6.0%	5.7%	5.7%	5.8%	5.9%	5.6%	5.3%	5.2%	*5.5%*	*5.5%*	Return on Total Cap'l	*5.5%*
12.5%	12.8%	13.0%	12.9%	13.2%	12.9%	13.6%	13.8%	13.5%	13.7%	*13.5%*	*13.5%*	Return on Shr. Equity	*13.5%*
12.6%	12.9%	13.1%	13.0%	13.3%	13.0%	13.7%	13.8%	13.6%	13.7%	*13.5%*	*13.5%*	Return on Com Equity [E]	*13.5%*
5.6%	5.0%	5.2%	5.0%	5.2%	4.8%	5.2%	5.3%	4.9%	5.3%	*5.5%*	*5.5%*	Retained to Com Eq	*5.0%*
55%	61%	60%	62%	61%	63%	62%	62%	64%	62%	*61%*	*61%*	All Div'ds to Net Prof	*61%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $15118 mill. **Due in 5 Yrs** $4794 mill.
LT Debt $13612 mill. **LT Interest** $475 mill.
Incl. $51 mill. finance leases.
(LT interest earned: 2.8x)
Leases, Uncapitalized Annual rentals $10 mill.
Pension Assets-12/20 $3402 mill.
Oblig $3266 mill.
Pfd Stock $37 mill. **Pfd Div'd** $2 mill.
Incl. 373,148 shs. $4.50 $100 par, cum., callable at $110.00.
Common Stock 289,459,560 shs.
as of 4/12/21
MARKET CAP: $18 billion (Large Cap)

ELECTRIC OPERATING STATISTICS

	2018	2019	2020
% Change Retail Sales (KWH)	+2.2	-3.7	-3.1
Avg. Indust. Use (MWH)	NA	NA	NA
Avg. Indust. Revs. per KWH (¢)	7.63	7.94	8.14
Capacity at Peak (Mw)	NA	NA	NA
Peak Load, Summer (Mw)	8084	8039	8215
Annual Load Factor (%)	NA	NA	NA
% Change Customers (yr-end)	+.3	+.9	+1.0
Fixed Charge Cov. (%)	250	235	240

ANNUAL RATES of change (per sh)

	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	-1.5%	-.5%	*1.5%*
"Cash Flow"	5.0%	6.5%	*5.5%*
Earnings	7.5%	7.0%	*7.5%*
Dividends	11.5%	7.0%	*7.0%*
Book Value	5.0%	5.5%	*7.5%*

QUARTERLY REVENUES ($ mill.)

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1953	1492	1599	1829	6873.0
2019	2059	1445	1546	1795	6845.0
2020	1864	1443	1575	1798	6680.0
2021	2083	*1550*	*1600*	*1817*	*7050*
2022	*2050*	*1600*	*1650*	*1850*	*7150*

EARNINGS PER SHARE [A]

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.86	.49	.59	.38	2.32
2019	.75	.33	.73	.58	2.39
2020	.85	.48	.76	.55	2.64
2021	1.21	*.39*	*.70*	*.55*	*2.85*
2022	*.95*	*.60*	*.85*	*.65*	*3.05*

QUARTERLY DIVIDENDS PAID [B] ■

Calendar	Mar.31	Jun.30	Sep.30	Dec. 31	Full Year
2017	.3325	.3325	.3325	.3325	1.33
2018	.3575	.3575	.3575	.3575	1.43
2019	.3825	.3825	.3825	.3825	1.53
2020	.4075	.4075	.4075	.4075	1.63
2021	.435	.435			

BUSINESS: CMS Energy Corporation is a holding company for Consumers Energy, which supplies electricity and gas to lower Michigan (excluding Detroit). Has 1.8 million electric, 1.8 million gas customers. Has 1,234 megawatts of nonregulated generating capacity. Owns EnerBank. Sold Palisades nuclear plant in '07. Electric revenue breakdown: residential, 48%; commercial, 33%; industrial, 13%; other, 6%. Generating sources: coal, 23%; gas, 17%; renewables, 4%; purchased, 56%. Fuel costs: 38% of revenues. '20 reported deprec. rates: 3.9% electric, 2.9% gas, 9.8% other. Has 8,100 full-time employees. Chairman: John G. Russell. President & CEO: Garrick Rochow. Inc.: MI. Address: One Energy Plaza, Jackson, MI 49201. Tel.: 517-788-0550. Internet: www.cmsenergy.com.

CMS Energy's utility subsidiary has filed a general rate case. Consumers Energy filed for a hike of $225 million, based on a return on equity of 10.5% and a common-equity ratio of 52%. These figures are above the currently allowed 9.9% and 51.1%, respectively. In fact, declines in the allowed ROE and common-equity ratio (along with leverage at the parent level) were cited by Moody's last month when the credit-rating agency lowered the ratings of the parent and the utility. (Moody's ratings were slightly above those of the other agencies.) An order from the Michigan Public Service Commission (MPSC) is due by yearend. The MPSC's staff is expected to make its recommendation later this month.

A gas rate application is expected in December. Consumers Energy has a stayout provision for gas tariffs until then. In accordance with Michigan regulatory law, a ruling from the MPSC is due 10 months after the utility's filing. Note that the utility frequently needs rate relief because it has a large system with a lot of aged equipment that needs replacing.

Earnings are likely to advance solidly in 2021. Consumers Energy is benefiting from a $126 million electric rate increase that went into place at the start of 2021 and a full year's worth of a gas hike that took effect in October of 2020. Our earnings estimate is at the midpoint of CMS Energy's typically narrow range of $2.83-$2.87 a share. Management didn't raise its guidance upon reporting March-quarter results, despite the strong start to the year. That's because the company will use headroom provided by this tally to increase spending on things such as tree trimming.

We expect another healthy bottom-line increase in 2022. CMS Energy will benefit from a full year of rate relief on the electric side and a partial year of new tariffs on the gas side. Our estimate of $3.05 a share would produce profit growth of 7%. This is within CMS Energy's goal of 6%-8% for annual earnings growth.

This stock's dividend yield is on the low side for a utility. Total return potential is attractive for the next 18 months, but not as appealing for the 3- to 5-year period.

Paul E. Debbas, CFA *June 11, 2021*

(A) Diluted EPS. Excl. nonrec. gains (losses): '05, ($1.61); '06, ($1.08); '07, ($1.26); '09, (7¢); '10, 3¢; '11, 12¢; '12, (14¢); '17, (53¢); gains (losses) on discont. ops.: '05, 7¢; '06, 3¢; '07, (40¢); '09, 8¢; '10, (8¢); '11, 1¢; '12, 3¢. Next earnings report due late July. **(B)** Div'ds historically paid late Feb., May, Aug., & Nov. ■ Div'd reinvestment plan avail. **(C)** Incl. intang. In '20: $9.18/sh. **(D)** In mill. **(E)** Rate base: Net orig. cost. Rate allowed on com. eq. in '21: 9.9% elec.; in '19: 9.9% gas; earned on avg. com. eq., '20: 14.4%. Regulat. Climate: Above Avg.

Company's Financial Strength	B++
Stock's Price Stability	95
Price Growth Persistence	70
Earnings Predictability	90

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DUKE ENERGY NYSE-DUK

RECENT PRICE 106.19 | P/E RATIO 20.2 (Trailing: 27.0 Median: 18.0) | RELATIVE P/E RATIO 1.05 | DIV'D YLD 3.7% | VALUE LINE

TIMELINESS 3 Raised 5/7/21
SAFETY 2 New 6/1/07
TECHNICAL 4 Lowered 7/30/21
BETA .90 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$52-$130	$91 (-15%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	125	(+20%)	*8%*
Low	95	(-10%)	*2%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	686	763	796
to Sell	702	683	681
Hld's(000)	464090	472627	483371

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
	- -	25.32	30.24	31.15	29.18	32.22	32.63	27.88	34.84	33.84	34.10	32.49	33.66	33.73	34.21	31.04	*32.15*	*33.05*	Revenues per sh	*36.00*
	- -	7.86	8.11	7.34	7.58	8.49	8.68	6.80	8.56	9.11	9.40	9.20	10.01	10.49	12.13	10.89	*12.60*	*13.30*	"Cash Flow" per sh	*15.50*
	- -	2.76	3.60	3.03	3.39	4.02	4.14	3.71	3.98	4.13	4.10	3.71	4.22	4.13	5.07	3.92	*5.15*	*5.45*	Earnings per sh [A]	*6.50*
	- -	- -	2.58	2.70	2.82	2.91	2.97	3.03	3.09	3.15	3.24	3.36	3.49	3.64	3.75	3.82	*3.90*	*3.98*	Div'd Decl'd per sh [B] ■	*4.25*
	- -	8.07	7.43	10.35	9.85	10.84	9.80	7.81	7.83	7.62	9.83	11.29	11.50	12.91	15.17	12.88	*13.60*	*16.60*	Cap'l Spending per sh	*15.50*
	- -	62.30	50.40	49.51	49.85	50.84	51.14	58.04	58.54	57.81	57.74	58.62	59.63	60.27	61.20	59.82	*61.15*	*62.60*	Book Value per sh [C]	*68.50*
	- -	418.96	420.62	423.96	436.29	442.96	445.29	704.00	706.00	707.00	688.00	700.00	700.00	727.00	733.00	769.00	*770.00*	*770.00*	Common Shs Outst'g [D]	*770.00*
	- -	- -	16.1	17.3	13.3	12.7	13.8	17.5	17.4	17.9	18.2	21.3	19.9	19.4	17.7	22.4	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*17.0*
	- -	- -	.85	1.04	.89	.81	.87	1.11	.98	.94	.92	1.12	1.00	1.05	.94	1.16			Relative P/E Ratio	*.95*
	- -	- -	4.4%	5.2%	6.2%	5.7%	5.2%	4.7%	4.4%	4.3%	4.3%	4.3%	4.2%	4.5%	4.2%	4.4%			Avg Ann'l Div'd Yield	*3.9%*
							14529	19624	24598	23925	23459	22743	23565	24521	25079	23868	*24750*	*25450*	Revenues ($mill)	*27800*
							1839.0	2136.0	2813.0	2934.0	2854.0	2560.0	2963.0	2928.0	3755.0	2996.0	*4080*	*4315*	Net Profit ($mill)	*5100*
							31.3%	30.2%	32.6%	30.6%	32.2%	31.0%	30.4%	14.2%	12.7%	4.9%	*7.0%*	*7.0%*	Income Tax Rate	*7.0%*
							23.2%	22.3%	8.8%	7.2%	9.2%	11.7%	12.3%	13.0%	7.9%	8.9%	*7.0%*	*7.0%*	AFUDC % to Net Profit	*7.0%*
							45.1%	47.0%	48.0%	47.7%	48.6%	52.6%	54.0%	53.8%	54.0%	53.7%	*54.0%*	*54.5%*	Long-Term Debt Ratio	*54.5%*
							54.9%	52.9%	52.0%	52.3%	51.4%	47.4%	46.0%	46.2%	44.1%	44.4%	*44.0%*	*44.0%*	Common Equity Ratio	*43.5%*
							41451	77307	79482	78088	77222	86609	90774	94940	101807	103589	*106550*	*109700*	Total Capital ($mill)	*120900*
							42661	68558	69490	70046	75709	82520	86391	91694	102127	106782	*111500*	*118275*	Net Plant ($mill)	*134100*
							5.6%	3.6%	4.6%	4.8%	4.8%	4.0%	4.3%	4.2%	4.8%	3.9%	*5.0%*	*5.0%*	Return on Total Cap'l	*5.5%*
							8.1%	5.2%	6.8%	7.2%	7.2%	6.2%	7.1%	6.7%	8.0%	6.2%	*8.5%*	*8.5%*	Return on Shr. Equity	*9.5%*
							8.1%	5.2%	6.8%	7.2%	7.2%	6.2%	7.1%	6.7%	8.3%	6.3%	*8.5%*	*8.5%*	Return on Com Equity [E]	*9.5%*
							2.2%	.9%	1.5%	1.7%	1.5%	.6%	1.2%	1.0%	2.4%	.4%	*2.0%*	*2.5%*	Retained to Com Eq	*3.5%*
							72%	82%	78%	76%	79%	91%	83%	84%	71%	94%	*76%*	*74%*	All Div'ds to Net Prof	*66%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $64418 mill. **Due in 5 Yrs** $21060 mill.
LT Debt $54768 mill. **LT Interest** $2178 mill.
Incl. $845 mill. finance leases.
(LT interest earned: 2.2x)
Leases, Uncapitalized Annual rentals $229 mill.
Pension Assets-12/20 $9337 mill.
Oblig $8634 mill.
Pfd Stock $1962 mill. **Pfd Div'd** $107 mill.
40 mill. shs. 5.75%, cum., $25 liq. value, redeemable at $25.50 prior to 6/15/24; 1 mill. shs. 4.875%, cum., $1000 liq. value.
Common Stock 769,218,956 shs. **as of 4/30/21**
MARKET CAP: $82 billion (Large Cap)

ELECTRIC OPERATING STATISTICS

	2018	2019	2020
% Change Retail Sales (KWH)	+3.9	-.9	-2.3
Avg. Indust. Use (MWH)	2953	2934	NA
Avg. Indust. Revs. per KWH (¢)	NA	NA	NA
Capacity at Peak (Mw)	NA	NA	NA
Peak Load, Summer (Mw)	NA	NA	NA
Annual Load Factor (%)	NA	NA	NA
% Change Customers (avg.)	+1.4	+1.5	NA
Fixed Charge Cov. (%)	218	233	183

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	.5%	-1.0%	*1.5%*
"Cash Flow"	3.5%	4.5%	*5.5%*
Earnings	2.5%	1.5%	*7.0%*
Dividends	3.0%	3.5%	*2.0%*
Book Value	2.0%	1.0%	*2.0%*

Calendar	QUARTERLY REVENUES ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	6135	5643	6628	6115	24521
2019	6163	5873	6940	6103	25079
2020	5949	5421	6721	5777	23868
2021	6150	*5650*	*6900*	*6050*	*24750*
2022	*6350*	*5800*	*7100*	*6200*	*25450*

Calendar	EARNINGS PER SHARE [A] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1.17	.71	1.63	.61	4.13
2019	1.24	1.12	1.82	.89	5.07
2020	1.24	1.08	1.74	d.13	3.92
2021	1.25	*1.10*	*1.80*	*1.00*	*5.15*
2022	*1.35*	*1.15*	*1.90*	*1.05*	*5.45*

Calendar	QUARTERLY DIVIDENDS PAID [B] ■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.855	.855	.89	.89	3.49
2018	.89	.89	.9275	.9275	3.64
2019	.9275	.9275	.945	.945	3.75
2020	.945	.945	.965	.965	3.82
2021	.965	.965	.985		

BUSINESS: Duke Energy Corporation is a holding company for utilities with 7.6 mill. elec. customers in NC, FL, IN, SC, OH, & KY, and 1.6 mill. gas customers in OH, KY, NC, SC, and TN. Owns independent power plants & has 25% stake in National Methanol in Saudi Arabia. Acq'd Progress Energy 7/12; Piedmont Natural Gas 10/16; discontinued most int'l ops. in '16. Elec. rev. breakdown: residential, 45%; commercial, 28%; industrial, 13%; other, 14%. Generating sources: gas, 31%; nuclear, 30%; coal, 18%; other, 2%; purchased, 19%. Fuel costs: 27% of revs. '20 reported deprec. rate: 3.0%. Has 27,500 employees. Chairman, President & CEO: Lynn J. Good. Inc.: DE. Address: 550 South Tryon St., Charlotte, NC 28202-1803. Tel.: 704-382-3853. Internet: www.duke-energy.com.

Duke Energy has come under criticism from an investor group. Elliott Management, with an undisclosed stake in Duke, is proposing the separation of Duke into three utilities, believing that the performance of those in Florida and the Midwest need improvement. Duke responded by stating its belief that the company's scale is an asset. So far, this does not appear to have had a large effect on the share price, but this bears attention from investors.

Earnings will likely be much improved in 2021. The bottom line fell into the red in the fourth quarter of 2020 due to coal-ash remediation costs that the company was unable to recover from customers. Duke is also benefiting from rate relief. Our estimate is at the midpoint of management's targeted range of $5.00-$5.30 a share.

Rate relief should help lift the bottom line in 2022. In Florida, the state commission approved a settlement calling for electric tariff hikes of $67 million in 2022, $49 million in 2023, and $79 million in 2024. The allowed return on equity is 8.85%-10.85% and the common-equity ratio is 53%. In North Carolina, Piedmont Gas is seeking an increase of $109 million (10.4%), based on an ROE of 10.25% and a common-equity ratio of 53%. New rates will be in place as early as November of 2021. Note that earlier this year, Duke's electric utilities in North Carolina received rate hikes, so a full year's effect of these increases will boost earnings in 2022.

Duke is awaiting regulatory approval of an asset sale. The company intends to raise over $2 billion through the sale of its Indiana electric utility in two phases. This would take care of its equity needs through 2025. The proposed sale has come under some criticism, however.

The board raised the dividend, effective with the September payment. The 2.1% increase was $0.02 a share. This growth rate is well below the industry average because the payout ratio is high.

The dividend yield is slightly above the utility mean. There is some speculative appeal if anything happens from the conflict with Elliott Management. Note, too, that in 2020 NextEra Energy reportedly expressed interest in buying Duke.

Paul E. Debbas, CFA *August 13, 2021*

(A) Dil. EPS. Excl. nonrec. losses: '12, 70¢; '13, 24¢; '14, 67¢; '17, 15¢; '18, 41¢; '20, $2.21; losses on disc. ops.: '14, 80¢; '16, 60¢; '18, '20 EPS don't sum due to rounding. Next egs. due early Nov. **(B)** Div'ds paid mid-Mar., June, Sept., & Dec. ■ Div'd reinv. plan avail. **(C)** Incl. intang. In '20: $41.25/sh. **(D)** In mill., adj. for rev. split. **(E)** Rate base: Net orig. cost. Rate all'd on com. eq. in '21 in NC: 9.6%; in '19 in SC: 9.5%; in '20 in FL: 9.5%-11.5%; in '20 in IN: 9.7%; earn. on avg. com. eq., '20: 9.9%. Reg. Clim.: NC, SC Avg.; OH, IN Above Avg.

Company's Financial Strength	A
Stock's Price Stability	95
Price Growth Persistence	40
Earnings Predictability	90

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CON. EDISON NYSE-ED

RECENT PRICE **74.50** | P/E RATIO **16.7** (Trailing: 16.9 Median: 17.0) | RELATIVE P/E RATIO **0.87** | DIV'D YLD **4.2%** | **VALUE LINE**

TIMELINESS 5 Lowered 7/16/21
SAFETY 1 New 7/27/90
TECHNICAL 5 Lowered 8/13/21
BETA .75 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$41-$101	$71 (-5%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	105	(+40%)	*12%*
Low	85	(+15%)	*7%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	398	456	403
to Sell	380	368	425
Hld's(000)	209716	206575	208737

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
High:	51.0	62.7	66.0	64.0	68.9	72.3	81.9	89.7	84.9	95.0	95.1	80.4								
Low:	41.5	48.6	53.6	54.2	52.2	56.9	63.5	72.1	71.1	73.3	62.0	65.6								
	47.66	47.14	48.23	49.62	46.36	45.69	44.17	41.62	42.27	44.11	42.85	39.59	38.82	38.44	37.80	35.78	*36.15*	*36.10*	Revenues per sh	*38.50*
	5.27	5.28	5.77	5.99	5.86	6.24	6.61	7.15	7.45	7.30	7.93	7.89	8.41	8.92	9.10	9.48	*10.20*	*10.45*	"Cash Flow" per sh	*12.00*
	2.99	2.95	3.48	3.36	3.14	3.47	3.57	3.86	3.93	3.62	4.05	3.94	4.10	4.55	4.08	3.94	*4.60*	*4.60*	Earnings per sh [A]	*5.25*
	2.28	2.30	2.32	2.34	2.36	2.38	2.40	2.42	2.46	2.52	2.60	2.68	2.76	2.86	2.96	3.06	*3.10*	*3.20*	Div'd Decl'd per sh [B] ■	*3.50*
	6.59	7.17	7.09	8.50	7.80	6.96	6.72	7.06	8.67	8.26	10.42	12.07	11.11	10.90	10.48	11.42	*11.45*	*11.70*	Cap'l Spending per sh	*12.00*
	29.80	31.09	32.58	35.43	36.46	37.93	39.05	40.53	41.81	42.94	44.55	46.88	49.74	52.11	54.18	55.06	*57.20*	*58.85*	Book Value per sh [C]	*64.75*
	245.29	257.46	272.02	273.72	281.12	291.62	292.89	292.87	292.87	292.88	293.00	305.00	310.00	320.96	332.63	342.30	*354.00*	*360.00*	Common Shs Outst'g [D]	*370.00*
	15.1	15.5	13.8	12.3	12.5	13.3	15.1	15.4	14.7	15.9	15.6	18.8	19.8	17.1	21.1	20.1	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*18.0*
	.80	.84	.73	.74	.83	.85	.95	.98	.83	.84	.79	.99	1.00	.92	1.12	1.03			Relative P/E Ratio	*1.00*
	5.0%	5.0%	4.8%	5.7%	6.0%	5.2%	4.5%	4.1%	4.3%	4.4%	4.1%	3.6%	3.4%	3.7%	3.4%	3.9%			Avg Ann'l Div'd Yield	*3.7%*
							12938	12188	12381	12919	12554	12075	12033	12337	12574	12246	*12800*	*13000*	Revenues ($mill)	*14250*
							1062.0	1141.0	1157.0	1066.0	1193.0	1189.0	1266.0	1424.0	1343.0	1324.0	*1600*	*1655*	Net Profit ($mill)	*1985*
							36.1%	34.5%	31.8%	34.0%	33.6%	35.3%	36.6%	20.1%	17.1%	12.0%	*17.0%*	*17.0%*	Income Tax Rate	*17.0%*
							1.6%	.5%	.5%	.3%	.7%	1.3%	1.5%	1.5%	2.0%	2.3%	*2.0%*	*2.0%*	AFUDC % to Net Profit	*2.0%*
							46.5%	45.9%	46.1%	48.0%	47.9%	50.8%	48.9%	51.1%	50.7%	52.0%	*52.5%*	*51.5%*	Long-Term Debt Ratio	*51.0%*
							52.5%	54.1%	53.9%	52.0%	52.1%	49.2%	51.1%	48.9%	49.3%	48.0%	*47.5%*	*48.5%*	Common Equity Ratio	*49.0%*
							21794	21933	22735	24207	25058	29033	30149	34221	36549	39229	*42675*	*43600*	Total Capital ($mill)	*48800*
							25093	26939	28436	29827	32209	35216	37600	41749	43889	46555	*48600*	*50675*	Net Plant ($mill)	*56900*
							6.2%	6.5%	6.4%	5.6%	6.0%	5.3%	5.4%	5.3%	4.9%	4.5%	*5.0%*	*5.0%*	Return on Total Cap'l	*5.0%*
							9.1%	9.6%	9.4%	8.5%	9.1%	8.3%	8.2%	8.5%	7.5%	7.0%	*8.0%*	*8.0%*	Return on Shr. Equity	*8.5%*
							9.2%	9.6%	9.4%	8.5%	9.1%	8.3%	8.2%	8.5%	7.5%	7.0%	*8.0%*	*8.0%*	Return on Com Equity [E]	*8.5%*
							3.1%	3.6%	3.6%	2.6%	3.5%	3.0%	3.0%	3.5%	2.3%	1.9%	*2.5%*	*2.5%*	Retained to Com Eq	*3.0%*
							66%	62%	62%	69%	61%	64%	63%	59%	69%	74%	*66%*	*67%*	All Div'ds to Net Prof	*64%*

% TOT. RETURN 7/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	0.0	55.5
3 yr.	3.8	48.6
5 yr.	9.8	95.5

CAPITAL STRUCTURE as of 3/31/21
Total Debt $23963 mill. **Due in 5 Yrs** $6117 mill.
LT Debt $20614 mill. **LT Interest** $844 mill.
(LT interest earned: 2.7x)

Leases, Uncapitalized Annual rentals $79 mill.

Pension Assets-12/20 $17022 mill.
Oblig $18965 mill.

Pfd Stock None

Common Stock 342,813,258 shs.
as of 4/30/21
MARKET CAP: $26 billion (Large Cap)

ELECTRIC OPERATING STATISTICS

	2018	2019	2020
% Change Retail Sales (KWH)	+2.8	-2.9	-6.2
Avg. Indust. Use (MWH)	NA	NA	NA
Avg. Indust. Revs. per KWH (¢)	NA	NA	NA
Capacity at Peak (Mw)	NA	NA	NA
Peak Load, Summer (Mw)	14156	13835	13170
Annual Load Factor (%)	NMF	NMF	NMF
% Change Customers (yr-end)	NA	NA	NA
Fixed Charge Cov. (%)	306	267	257

ANNUAL RATES

of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	-2.5%	-3.0%	*.5%*
"Cash Flow"	4.5%	4.0%	*4.5%*
Earnings	2.5%	1.5%	*4.0%*
Dividends	2.5%	3.0%	*3.0%*
Book Value	4.0%	4.5%	*3.0%*

QUARTERLY REVENUES ($ mill.)

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	3364	2696	3328	2949	12337
2019	3514	2744	3365	2951	12574
2020	3234	2719	3333	2960	12246
2021	3677	*2750*	*3373*	*3000*	*12800*
2022	*3550*	*2850*	*3500*	*3100*	*13000*

EARNINGS PER SHARE [A]

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1.37	.60	1.52	1.06	4.55
2019	1.31	.46	1.42	.88	4.08
2020	1.12	.57	1.47	.78	3.94
2021	1.58	*.57*	*1.60*	*.85*	*4.60*
2022	*1.45*	*.60*	*1.65*	*.90*	*4.60*

QUARTERLY DIVIDENDS PAID [B] ■

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.69	.69	.69	.69	2.76
2018	.715	.715	.715	.715	2.86
2019	.74	.74	.74	.74	2.96
2020	.765	.765	.765	.765	3.06
2021	.775	.775			

BUSINESS: Consolidated Edison, Inc. is a holding company for Consolidated Edison Company of New York, Inc. (CECONY), which sells electricity, gas, and steam in most of New York City and Westchester County. Also owns Orange and Rockland Utilities (O&R), which operates in New York and New Jersey. Has 3.7 mill. electric, 1.2 mill. gas customers. Pursues competitive energy opportunities through three wholly owned subsidiaries. Entered into midstream gas joint venture 6/16; sold it 7/21. Purchases most of its power. Fuel costs: 19% of revenues. '20 reported deprec. rates: 3.2%-3.5%. Has 14,100 empls. Chairman: John McAvoy. President & CEO: Timothy Cawley. Inc.: NY. Address: 4 Irving Place, New York, NY 10003. Tel.: 212-460-4600. Internet: www.conedison.com.

We estimate a substantial increase in Consolidated Edison's earnings in 2021. To start, the comparison is easy. Last year, mark-to-market accounting charges and an accounting item related to renewable energy reduced profits by $0.13 and $0.10 a share, respectively. The renewable-energy accounting item is expected to add $0.23 a share to the bottom line this year. Also, ConEd booked a $0.14-a-share mark-to-market gain in the March quarter. We *include* these items in our earnings presentation, even though the company excludes these from its earnings guidance of $4.15-$4.35 a share. Additionally, the company's largest subsidiary, Consolidated Edison Company of New York, received the second phase of a three-year electric and gas rate hike at the start of 2021. The company is also benefiting from growth at its renewable-energy subsidiary as projects are added. (Note that ConEd reported second-quarter results shortly after our report went to press.)

We estimate flat earnings in 2022 only because we assume no accounting income. Otherwise, ConEd will benefit from the last phase of its three-year rate increase. Orange & Rockland should obtain rate relief, as well. Finally, we expect further growth in nonutility income.

O&R has a rate case pending. The utility is seeking an electric rate hike of $27.8 million and a gas tariff increase of $8.6 million, based on a 9.5% return on equity and a 50% common-equity ratio. New rates will take effect at the start of 2022.

This is an active year for financing. ConEd sold 10.1 million common shares (raising over $750 million) in June. The company also plans to issue $1.9 billion-$2.6 billion of long-term debt in 2021.

ConEd completed the sale of its 50% stake in Stagecoach Gas Services in July. Gas pipelines are no longer an area of strategic interest. The sale raised $600 million. However, ConEd took a writedown of $0.35 a share against first-quarter results. We *excluded* this nonrecurring charge from our earnings presentation.

This high-quality stock is untimely, but offers a dividend yield that is above the utility mean. Total return potential is poor for the next 18 months, but decent for the 2024-2026 period.

Paul E. Debbas, CFA *August 13, 2021*

Company's Financial Strength	A+
Stock's Price Stability	85
Price Growth Persistence	40
Earnings Predictability	100

(A) Diluted EPS. Excl. nonrec. gains (losses): '13, (32¢); '14, 9¢; '16, 15¢; '17, 84¢; '18, (13¢); '20, (66¢); '21, (35¢); gain on disc. operations: '08, $1.01. '19 EPS don't sum due to rounding. Next earnings report due early Nov. **(B)** Div'ds historically paid in mid-Mar., June, Sept., and Dec. ■ Div'd reinvestment plan avail. **(C)** Incl. intangibles. In '20: $24.50/sh. **(D)** In mill. **(E)** Rate base: net orig. cost. Rate allowed on com. eq. for CECONY in '20: 8.8%; O&R in '19: 9.0%; earned on avg. com. eq., '20: 7.1%. Regulatory Climate: Below Average.

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EVERSOURCE ENERGY NYSE-ES

RECENT PRICE 87.30 | P/E RATIO 22.6 (Trailing: 24.0 Median: 19.0) | RELATIVE P/E RATIO 1.18 | DIV'D YLD 2.9% | VALUE LINE

TIMELINESS 3 Raised 8/13/21
SAFETY 1 Raised 5/22/15
TECHNICAL 5 Lowered 7/16/21
BETA .90 (1.00 = Market)

18-Month Target Price Range

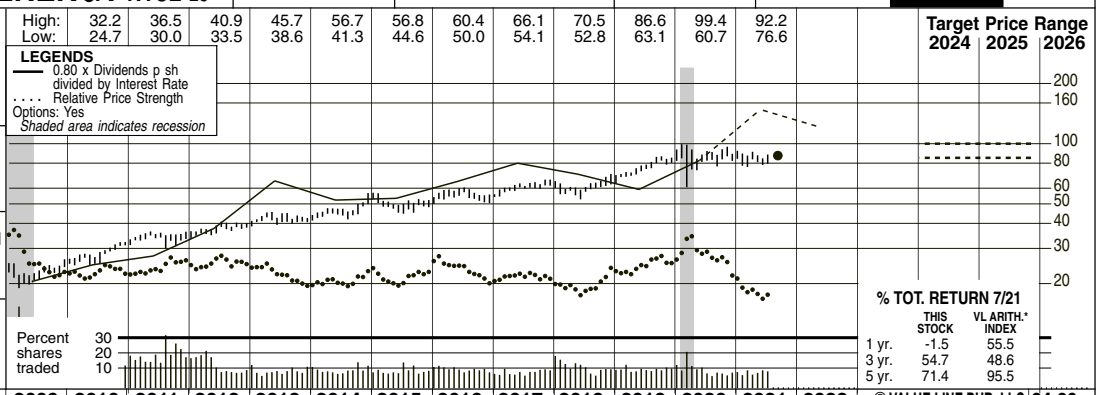
Low-High	Midpoint (% to Mid)
$59-$144	$102 (15%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	100	(+15%)	7%
Low	85	(-5%)	3%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	347	387	331
to Sell	304	293	369
Hld's(000)	263560	263115	266387



2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
41.85	44.64	37.27	37.22	30.97	27.76	25.21	19.98	23.16	24.42	25.08	24.11	24.46	26.66	25.85	25.96	*27.90*	*28.25*	Revenues per sh	*30.75*
5.46	3.69	4.82	6.16	4.96	5.68	4.88	4.03	5.22	4.56	4.94	5.46	5.84	6.64	6.65	6.89	*7.45*	*7.90*	"Cash Flow" per sh	*9.00*
.98	.82	1.59	1.86	1.91	2.10	2.22	1.89	2.49	2.58	2.76	2.96	3.11	3.25	3.45	3.55	*3.75*	*4.05*	Earnings per sh [A]	*5.00*
.68	.73	.78	.83	.95	1.03	1.10	1.32	1.47	1.57	1.67	1.78	1.90	2.02	2.14	2.27	*2.41*	*2.56*	Div'd Decl'd per sh [B] ■	*3.05*
5.89	5.49	7.14	8.06	5.17	5.41	6.08	4.69	4.62	5.06	5.44	6.24	7.41	7.96	8.83	8.58	*10.25*	*10.20*	Cap'l Spending per sh	*8.50*
18.46	18.14	18.65	19.38	20.37	21.60	22.65	29.41	30.49	31.47	32.64	33.80	34.99	36.25	38.29	41.01	*42.50*	*44.40*	Book Value per sh [C]	*50.50*
131.59	154.23	156.22	155.83	175.62	176.45	177.16	314.05	315.27	316.98	317.19	316.89	316.89	316.89	329.88	342.95	*344.00*	*347.00*	Common Shs Outst'g [D]	*357.00*
19.8	27.1	18.7	13.7	12.0	13.4	15.4	19.9	16.9	17.9	18.1	18.7	19.5	18.7	22.1	24.3	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*18.5*
1.05	1.46	.99	.82	.80	.85	.97	1.27	.95	.94	.91	.98	.98	1.01	1.18	1.24			Relative P/E Ratio	*1.05*
3.5%	3.3%	2.6%	3.2%	4.2%	3.6%	3.2%	3.5%	3.5%	3.4%	3.3%	3.2%	3.1%	3.3%	2.8%	2.6%			Avg Ann'l Div'd Yield	*3.3%*
4465.7	6273.8	7301.2	7741.9	7954.8	7639.1	7752.0	8448.2	8526.5	8904.4	*9600*	*9600*	Revenues ($mill)	*10750*
400.3	533.0	793.7	827.7	886.0	949.8	995.5	1040.5	1121.0	1212.7	*1300*	*1395*	Net Profit ($mill)	*1725*
29.9%	34.0%	35.0%	36.2%	37.9%	36.9%	36.8%	21.7%	19.7%	22.2%	*20.0%*	*20.0%*	Income Tax Rate	*20.0%*
8.6%	2.3%	1.4%	2.4%	2.9%	3.9%	4.7%	6.1%	6.3%	5.4%	*5.0%*	*5.0%*	AFUDC % to Net Profit	*4.0%*
53.4%	43.7%	44.3%	45.9%	45.6%	44.8%	51.2%	52.4%	52.8%	52.4%	*53.0%*	*53.5%*	Long-Term Debt Ratio	*55.0%*
45.3%	55.4%	54.8%	53.2%	53.6%	54.4%	48.2%	46.9%	46.6%	47.1%	*46.5%*	*46.0%*	Common Equity Ratio	*44.5%*
8856.0	16675	17544	18738	19313	19697	23018	24474	27097	29842	*31500*	*33475*	Total Capital ($mill)	*40300*
10403	16605	17576	18647	19892	21351	23617	25610	27585	30883	*33275*	*35650*	Net Plant ($mill)	*41600*
5.9%	4.2%	5.5%	5.3%	5.5%	5.8%	5.2%	5.2%	5.1%	5.0%	*5.0%*	*5.0%*	Return on Total Cap'l	*5.5%*
9.7%	5.7%	8.1%	8.2%	8.4%	8.7%	8.9%	8.9%	8.8%	8.5%	*9.0%*	*9.0%*	Return on Shr. Equity	*9.5%*
9.8%	5.7%	8.2%	8.2%	8.5%	8.8%	8.9%	9.0%	8.8%	8.6%	*9.0%*	*9.0%*	Return on Com Equity [E]	*9.5%*
5.0%	1.6%	3.4%	3.5%	3.4%	3.5%	3.5%	3.4%	3.6%	3.3%	*3.0%*	*3.5%*	Retained to Com Eq	*3.5%*
50%	72%	59%	58%	61%	60%	61%	62%	60%	62%	*64%*	*63%*	All Div'ds to Net Prof	*62%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $18385 mill. **Due in 5 Yrs** $8252.1 mill.
LT Debt $15258 mill. **LT Interest** $568.0 mill.
(LT interest earned: 3.9x)
Leases, Uncapitalized Annual rentals $11.4 mill.
Pension Assets-12/20 $5409.2 mill.
Oblig $7045.3 mill.
Pfd Stock $155.6 mill. **Pfd Div'd** $7.6 mill.
Incl. 2,324,000 shs $1.90-$3.28 rates ($50 par) not subject to mandatory redemption, call. at $50.50-$54.00; 430,000 shs 4.25%-4.78% not subject to mandatory redemption, call. at $102.80-$103.63.
Common Stock 343,466,162 shs. **as of 4/30/21**
MARKET CAP: $30 billion (Large Cap)

ELECTRIC OPERATING STATISTICS

	2018	2019	2020
% Change Retail Sales (KWH)	+2.2	-3.3	-2.7
Avg. Indust. Use (MWH)	NA	NA	NA
Avg. Indust. Revs. per KWH (¢)	NA	NA	NA
Capacity at Peak (Mw)	NA	NA	NA
Peak Load, Winter (Mw)	NA	NA	NA
Annual Load Factor (%)	NA	NA	NA
% Change Customers (yr-end)	+.5	+.7	+.8
Fixed Charge Cov. (%)	319	319	345

ANNUAL RATES of change (per sh)

	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	-2.0%	1.5%	*2.5%*
"Cash Flow"	2.0%	6.5%	*5.0%*
Earnings	5.5%	5.5%	*6.5%*
Dividends	8.5%	6.5%	*6.0%*
Book Value	6.5%	4.0%	*4.5%*

QUARTERLY REVENUES ($ mill.)

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	2288	1854	2271	2035	8448.1
2019	2416	1884	2176	2050	8526.5
2020	2373	1953	2344	2234	8904.4
2021	2826	2122	*2400*	*2252*	*9600*
2022	*2850*	*2200*	*2450*	*2300*	*9800*

EARNINGS PER SHARE [A]

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.85	.76	.91	.73	3.25
2019	.97	.74	.98	.76	3.45
2020	1.01	.75	1.01	.78	3.55
2021	1.06	.77	*1.03*	*.89*	*3.75*
2022	*1.17*	*.87*	*1.08*	*.93*	*4.05*

QUARTERLY DIVIDENDS PAID [B] ■

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.475	.475	.475	.475	1.90
2018	.505	.505	.505	.505	2.02
2019	.535	.535	.535	.535	2.14
2020	.5675	.5675	.5675	.5675	2.27
2021	.6025	.6025			

BUSINESS: Eversource Energy (formerly Northeast Utilities) is the parent of utilities with 3.2 mill. electric, 881,000 gas, 216,000 water customers. Supplies power to most of Connecticut and gas to part of Connecticut; supplies power to 3/4 of New Hampshire's population; supplies power to western Massachusetts and parts of eastern MA & gas to central & eastern MA; supplies water to CT, MA, & NH. Acq'd NSTAR 4/12; Aquarion 12/17; Columbia Gas 10/20. Electric rev. breakdown: residential, 56%; commercial, 33%; industrial, 5%; other, 6%. Fuel costs: 34% of revs. '20 reported deprec. rate: 3.0%. Has 9,300 employees. Chairman: James J. Judge. President & CEO: Joe Nolan. Inc.: MA. Address: 300 Cadwell Drive, Springfield, MA 01104. Tel.: 413-785-5871. Internet: www.eversource.com.

We have cut our 2021 earnings estimate for Eversource Energy by $0.10 a share, to $3.75. Management is guiding Wall Street toward the low end of the company's targeted range of $3.81-$3.93 a share. However, this excludes transition costs associated with a large gas utility acquisition last fall ($0.04 a share in the first six months of 2021). We *include* these in our earnings presentation. Even so, share net should end up ahead of the 2020 tally, which was affected by acquisition-related expenses and higher-than-usual storm-related costs. The bottom line is benefiting from income from the newly acquired gas utility; a full year's effect of rate relief obtained in 2020; and capital spending on electric transmission.

Connecticut Light & Power has appealed a regulatory order to the state Superior Court. The Connecticut regulators penalized the utility $28.6 million and ordered a reduction in its allowed return on equity by 0.9 percentage point because of what they said was CL&P's unsatisfactory performance following a tropical storm in August of 2020. The penalty reduced first-quarter earnings by $0.07 a share. The state commission was scheduled to hold hearings on this matter shortly after our report went to press.

We expect earnings will advance sharply in 2022. Earnings won't be affected by the $0.07-a-share penalty and the aforementioned transition costs. If CL&P's allowed ROE is reduced, however, this would lower Eversource's annual earning power by $0.06-$0.07 a share.

Three offshore wind projects are in various stages of development. These would add 1,760 megawatts of capacity from 2023 through 2025. This would enhance Eversource's long-term earnings growth, but also has construction risk.

The company is asking the Massachusetts regulators to approval two capital plans. The utility would spend nearly $200 million for grid modernization from 2022 through 2025. It would spend $500 million-$600 million for advanced meters, primarily from 2024 through 2027.

This stock has a high valuation. It doesn't stand out among utilities for its dividend yield or 3- to 5-year total return potential.

Paul E. Debbas, CFA *August 13, 2021*

(A) Diluted EPS. Excl. nonrecurring gains (losses): '05, ($1.36); '08, (19¢); '10, 9¢; '19, (64¢). Next earnings report due early Nov. **(B)** Div'ds historically paid late Mar., June, Sept., & Dec. ■ Div'd reinvestment plan avail. **(C)** Incl. deferred charges. In '20: $9939.3 mill., $28.98/sh. **(D)** In mill. **(E)** Rate allowed on com. eq. in MA: (elec.) '18, 10.0%; (gas) '20, 9.7%-9.9%; in CT: (elec.) '18, 9.25%; (gas) '18, 9.3%; in NH: '21, 9.3%; earned on avg. com. eq., '20: 9.0%. Regulatory Climate: CT, Below Average; NH, Average; MA, Above Average.

Company's Financial Strength	A
Stock's Price Stability	85
Price Growth Persistence	70
Earnings Predictability	100

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MGE ENERGY INC. NDQ-MGEE

RECENT PRICE 75.02 | P/E RATIO 27.3 (Trailing: 26.6 Median: 22.0) | RELATIVE P/E RATIO 1.28 | DIV'D YLD 2.1% | VALUE LINE

TIMELINESS 3 Raised 5/21/21
SAFETY 1 New 1/3/03
TECHNICAL 3 Raised 5/14/21
BETA .75 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$59-$109	$84 (10%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	85	(+15%)	5%
Low	70	(-5%)	1%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	65	72	72
to Sell	62	61	65
Hld's(000)	17100	17483	17787

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
High:	29.1	31.9	37.4	40.5	48.0	48.0	66.9	68.7	68.9	80.8	83.3	76.1						
Low:	21.4	24.7	28.7	33.4	35.7	36.5	44.8	60.3	51.1	56.7	47.2	63.0						
Revenues per sh	16.73	16.13	16.33	17.35	15.40	15.36	15.76	15.61	17.04	17.88	16.27	15.71	16.24	16.15	16.41	15.32	*15.75*	*16.20*
"Cash Flow" per sh	2.00	2.34	2.46	2.68	2.66	2.76	2.94	2.98	3.28	3.49	3.33	3.47	3.73	4.06	4.57	4.74	*4.85*	*5.05*
Earnings per sh A	1.05	1.37	1.51	1.59	1.47	1.67	1.76	1.86	2.16	2.32	2.06	2.18	2.20	2.43	2.51	2.60	*2.75*	*2.90*
Div'd Decl'd per sh B ■ †	.92	.93	.94	.96	.97	.99	1.01	1.04	1.07	1.11	1.16	1.21	1.26	1.32	1.38	1.45	*1.52*	*1.60*
Cap'l Spending per sh	2.80	2.94	4.14	3.08	2.35	1.76	1.88	2.84	3.43	2.67	2.08	2.41	3.12	6.12	4.73	5.78	*5.60*	*4.85*
Book Value per sh C	11.21	11.93	12.99	13.92	14.47	15.14	15.89	16.71	17.81	19.02	19.92	20.89	22.45	23.56	24.68	27.76	*28.25*	*29.55*
Common Shs Outst'g D	30.68	31.46	32.93	34.36	34.67	34.67	34.67	34.67	34.67	34.67	34.67	34.67	34.67	34.67	34.67	35.16	*36.16*	*36.16*
Avg Ann'l P/E Ratio	22.4	15.9	15.0	14.2	15.1	15.0	15.8	17.2	17.0	17.2	20.3	24.9	29.4	25.1	28.4	26.4		
Relative P/E Ratio	1.19	.86	.80	.85	1.01	.95	.99	1.09	.96	.91	1.02	1.31	1.48	1.36	1.51	1.37		
Avg Ann'l Div'd Yield	3.9%	4.3%	4.1%	4.2%	4.4%	4.0%	3.6%	3.2%	2.9%	2.8%	2.8%	2.2%	2.0%	2.2%	1.9%	2.1%		
Revenues ($mill)	546.4	541.3	590.9	619.9	564.0	544.7	563.1	559.8	568.9	538.6	*570*	*585*						
Net Profit ($mill)	60.9	64.4	74.9	80.3	71.3	75.6	76.1	84.2	86.9	92.4	*100*	*105*						
Income Tax Rate	37.1%	37.7%	37.5%	37.5%	36.7%	36.0%	36.4%	24.6%	18.5%	17.4%	*17.0%*	*16.5%*						
AFUDC % to Net Profit	--	--	5.6%	5.7%	1.3%	2.1%	2.1%	5.2%	3.6%	8.7%	*8.0%*	*5.0%*						
Long-Term Debt Ratio	39.6%	38.2%	39.3%	37.5%	36.2%	34.6%	33.8%	37.7%	38.0%	35.5%	*38.5%*	*39.0%*						
Common Equity Ratio	60.4%	61.8%	60.7%	62.5%	63.8%	65.4%	66.2%	62.3%	62.0%	64.5%	*61.5%*	*61.0%*						
Total Capital ($mill)	911.9	937.9	1016.9	1054.7	1081.5	1106.9	1176.3	1310.0	1379.4	1512.8	*1660*	*1755*						
Net Plant ($mill)	995.6	1073.5	1160.2	1208.1	1243.4	1282.1	1341.4	1509.4	1642.7	1769.4	*1895*	*1995*						
Return on Total Cap'l	7.8%	7.9%	8.3%	8.6%	7.5%	7.7%	7.3%	7.2%	7.1%	6.8%	*7.0%*	*6.5%*						
Return on Shr. Equity	11.1%	11.1%	12.1%	12.2%	10.3%	10.4%	9.8%	10.3%	10.2%	9.5%	*10.0%*	*10.0%*						
Return on Com Equity D	11.1%	11.1%	12.1%	12.2%	10.3%	10.4%	9.8%	10.3%	10.2%	9.5%	*10.0%*	*10.0%*						
Retained to Com Eq	4.7%	4.9%	6.1%	6.4%	4.5%	4.7%	4.2%	4.7%	4.6%	4.2%	*4.5%*	*4.5%*						
All Div'ds to Net Prof	57%	56%	50%	48%	56%	55%	57%	54%	55%	56%	*55%*	*55%*						

Bold figures are Value Line estimates

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	Target Price Range 2024	2025	2026
	160	120	100
	80	60	50
	40	30	20
			15

3-for-2

Percent shares traded: 6, 4, 2

% TOT. RETURN 5/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	12.9	68.0
3 yr.	33.7	54.6
5 yr.	64.0	106.2

CAPITAL STRUCTURE as of 3/31/21
Total Debt $594.1 mill. **Due in 5 Yrs** $126.9 mill.
LT Debt $536.8 mill. **LT Interest** $23.1 mill.
Incl. $17.5 mill. finance leases.
(LT interest earned: 5.7x)
Leases, Uncapitalized Annual rentals $1.8 mill.

Pension Assets-12/20 $429.5 mill.
Oblig $461.2 mill.
Pfd Stock None

Common Stock 36,163,370 shs.
as of 4/30/21
MARKET CAP: $2.7 billion (Mid Cap)

ELECTRIC OPERATING STATISTICS

	2018	2019	2020
% Change Retail Sales (KWH)	+1.6	-2.3	-3.5
Avg. Indust. Use (MWH)	1802	NA	NA
Avg. Indust. Revs. per KWH (¢)	7.70	7.43	7.16
Capacity at Peak (Mw)	NA	NA	NA
Peak Load, Summer (Mw)	686	NA	NA
Annual Load Factor (%)	NA	NA	NA
% Change Customers (avg.)	NA	NA	NA
Fixed Charge Cov. (%)	645	465	429

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	--	-1.5%	*2.0%*
"Cash Flow"	5.0%	6.0%	*4.5%*
Earnings	5.0%	3.0%	*4.5%*
Dividends	3.5%	4.5%	*5.5%*
Book Value	5.5%	6.0%	*5.0%*

Calendar	QUARTERLY REVENUES ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	157.6	124.3	137.8	140.1	559.8
2019	167.6	122.2	138.2	140.9	568.9
2020	149.9	117.0	135.2	136.5	538.6
2021	167.9	*122.1*	*140*	*140*	*570*
2022	*170*	*125*	*145*	*145*	*585*

Calendar	EARNINGS PER SHARE A Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.58	.53	.85	.47	2.43
2019	.69	.45	.88	.48	2.51
2020	.75	.53	.88	.44	2.60
2021	.97	*.48*	*.85*	*.45*	*2.75*
2022	*.90*	*.55*	*.95*	*.50*	*2.90*

Calendar	QUARTERLY DIVIDENDS PAID B ■ † Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.3075	.3075	.3225	.3225	1.26
2018	.3225	.3225	.3375	.3375	1.32
2019	.3375	.3375	.3525	.3525	1.38
2020	.3525	.3525	.37	.37	1.45
2021	.37	.37			

BUSINESS: MGE Energy, Inc. is a holding company for Madison Gas and Electric Company (MGE), which provides electric service to 157,000 customers in Dane County and gas service to 166,000 customers in seven counties in Wisconsin. Electric revenue breakdown: residential, 37%; commercial, 50%; industrial, 3%; other, 10%. Generating sources: coal, 47%; gas, 15%; renewables, 14%; purchased power, 24%. Fuel costs: 28% of revenues. '20 reported depreciation rates: electric, 3.5%; gas, 2.2%; nonregulated, 2.3%. Has about 700 employees. Chairman, President & CEO: Jeffrey M. Keebler. Incorporated: Wisconsin. Address: 133 South Blair Street, P.O. Box 1231, Madison, Wisconsin 53701-1231. Telephone: 608-252-7000. Internet: www.mgeenergy.com.

MGE Energy's utility subsidiary filed a general rate case. For 2022, Madison Gas and Electric is seeking electric and gas rate increases of $23.1 million (5.9%) and $5.3 million (3.0%), respectively. In 2023, there would be no electric increase (although the utility could reopen the case for things such as a change in federal tax rates) and an additional $3.0 million (1.6%) gas hike. MG&E based its application on a 9.8% return on equity (unchanged) and a 55.6% common-equity ratio, slightly below the current level. The utility wants to place a solar project in the rate base and recover higher expenses. An order from the Public Utility Commission of Wisconsin is expected in December, with new tariffs taking effect in January.

We raised our 2021 earnings estimate by $0.05 a share, to $2.75. First-quarter profits were well above our $0.80-a-share estimate. The winter was colder than normal this year, compared with milder-than-normal conditions in the first period of 2020. Also, operating and maintenance expenses and taxes were lower due to timing differences; this will be reversed in the second half of the year. Interest expense will be higher due to debt issuances. Thus, we did not raise our estimate by a greater amount. Our revised estimate would produce 6% earnings growth this year.

We raised our 2022 earnings estimate by $0.15 a share, to $2.90. When our March report went to press, we knew a rate case was possible, but did not assume any rate relief. Of course we don't know what the outcome of the pending case will be, but regulation in Wisconsin is generally constructive. We rate the state's regulatory climate Above Average. Another factor is that kilowatt-hour sales should return to normal, as MG&E's service area has been relatively slow to reopen following lockdowns and other restrictions.

We expect a dividend increase in the third quarter. This is the usual timing for MGE Energy. We estimate an increase of $0.02 a share (5.4%) in the quarterly disbursement. However . . .

The stock's yield is well below average for a utility, even after reflecting the expected dividend hike. Total return potential is good for the 18-month span, but not for the 2024-2026 period.

Paul E. Debbas, CFA *June 11, 2021*

(A) Diluted earnings. Excludes nonrecurring gain: '17, 62¢. '19 earnings don't sum due to rounding. Next earnings report due early Aug. **(B)** Dividends historically paid in mid-March, June, September, and December. ■ Dividend reinvestment plan available. † Shareholder investment plan available. **(C)** Includes regulatory assets. In '20: $178.6 mill., $4.94/sh. **(D)** In millions, adjusted for split. **(E)** Rate allowed on common equity in '21: 9.8%; earned on common equity, '20: 10.1%. Regulatory Climate: Above Average.

Company's Financial Strength	A+
Stock's Price Stability	95
Price Growth Persistence	70
Earnings Predictability	100

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NORTHWESTERN NDQ-NWE

RECENT PRICE **61.42** | P/E RATIO **17.1** (Trailing: 18.6 Median: 17.0) | RELATIVE P/E RATIO **0.86** | DIV'D YLD **4.1%** | **VALUE LINE**

TIMELINESS 3 Raised 6/4/21
SAFETY 2 Raised 7/27/18
TECHNICAL 2 Raised 7/23/21
BETA .95 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$33-$88	$61 (0%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	85	(+40%)	*12%*
Low	65	(+5%)	*6%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	134	116	114
to Sell	126	135	130
Hld's(000)	47772	47664	47776

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
High:	30.6	36.6	38.0	47.2	58.7	59.7	63.8	64.5	65.7	76.7	80.5	70.8						
Low:	23.8	27.4	33.0	35.1	42.6	48.4	52.2	55.7	50.0	57.3	45.1	53.2						

LEGENDS
0.61 x Dividends p sh divided by Interest Rate
Relative Price Strength
Options: Yes
Shaded area indicates recession

Target Price Range 2024 | 2025 | 2026
160 120 100 80 60 50 40 30 20 15

Percent shares traded 30 20 10

% TOT. RETURN 6/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	15.2	63.9
3 yr.	17.7	53.6
5 yr.	14.9	108.0

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
	32.57	31.49	30.79	35.09	31.72	30.66	30.80	28.76	29.80	25.68	25.21	26.01	26.45	23.81	24.93	23.70	*25.25*	*24.30*	Revenues per sh	*26.50*
	4.00	3.62	3.70	4.40	4.62	4.76	5.42	5.18	5.45	5.39	5.92	6.74	6.76	6.96	7.07	6.72	*7.30*	*7.35*	"Cash Flow" per sh	*8.25*
	1.71	1.31	1.44	1.77	2.02	2.14	2.53	2.26	2.46	2.99	2.90	3.39	3.34	3.40	3.53	3.06	*3.60*	*3.70*	Earnings per sh [A]	*4.00*
	1.00	1.24	1.28	1.32	1.34	1.36	1.44	1.48	1.52	1.60	1.92	2.00	2.10	2.20	2.30	2.40	*2.48*	*2.56*	Div'd Decl'd per sh [B] ■ †	*2.80*
	2.26	2.81	3.00	3.47	5.26	6.30	5.20	5.89	5.95	5.76	5.89	5.96	5.60	5.64	6.26	8.02	*8.75*	*8.50*	Cap'l Spending per sh	*7.25*
	20.60	20.65	21.12	21.25	21.86	22.64	23.68	25.09	26.60	31.50	33.22	34.68	36.44	38.60	40.42	41.10	*42.45*	*43.90*	Book Value per sh [C]	*47.75*
	35.79	35.97	38.97	35.93	36.00	36.23	36.28	37.22	38.75	46.91	48.17	48.33	49.37	50.32	50.45	50.59	*51.50*	*53.50*	Common Shs Outst'g [D]	*54.50*
	17.1	26.0	21.7	13.9	11.5	12.9	12.6	15.7	16.9	16.2	18.4	17.2	17.8	16.8	19.9	19.5	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*19.0*
	.91	1.40	1.15	.84	.77	.82	.79	1.00	.95	.85	.93	.90	.90	.91	1.06	1.00			Relative P/E Ratio	*1.05*
	3.4%	3.6%	4.1%	5.4%	5.7%	4.9%	4.5%	4.2%	3.7%	3.3%	3.6%	3.4%	3.5%	3.9%	3.3%	4.0%			Avg Ann'l Div'd Yield	*3.7%*
							1117.3	1070.3	1154.5	1204.9	1214.3	1257.2	1305.7	1198.1	1257.9	1198.7	*1300*	*1300*	Revenues ($mill)	*1450*
							92.6	83.7	94.0	120.7	138.4	164.2	162.7	171.1	179.3	155.2	*185*	*195*	Net Profit ($mill)	*225*
							9.8%	9.6%	13.2%	--	13.7%	--	7.6%	--	1.6%	--	*Nil*	*5.0%*	Income Tax Rate	*12.0%*
							3.3%	9.4%	8.7%	8.9%	9.8%	4.3%	5.2%	3.4%	4.6%	6.3%	*6.0%*	*6.0%*	AFUDC % to Net Profit	*4.0%*
							52.2%	53.8%	53.5%	53.4%	53.1%	52.0%	50.2%	52.2%	52.5%	52.8%	*52.5%*	*50.0%*	Long-Term Debt Ratio	*49.0%*
							47.8%	46.2%	46.5%	46.6%	46.9%	48.0%	49.8%	47.8%	47.5%	47.2%	*47.5%*	*50.0%*	Common Equity Ratio	*51.0%*
							1797.1	2020.7	2215.7	3168.0	3408.6	3493.9	3614.5	4064.6	4289.8	4409.1	*4590*	*4675*	Total Capital ($mill)	*5100*
							2213.3	2435.6	2690.1	3758.0	4059.5	4214.9	4358.3	4521.3	4700.9	4952.9	*5215*	*5470*	Net Plant ($mill)	*6050*
							7.0%	5.5%	5.5%	4.8%	5.2%	5.9%	5.6%	5.2%	5.2%	4.5%	*5.0%*	*5.0%*	Return on Total Cap'l	*5.5%*
							10.8%	9.0%	9.1%	8.2%	8.6%	9.8%	9.0%	8.8%	8.8%	7.5%	*8.5%*	*8.5%*	Return on Shr. Equity	*8.5%*
							10.8%	9.0%	9.1%	8.2%	8.6%	9.8%	9.0%	8.8%	8.8%	7.5%	*8.5%*	*8.5%*	Return on Com Equity [E]	*8.5%*
							4.7%	3.2%	3.5%	3.8%	3.0%	4.1%	3.4%	3.2%	3.1%	1.7%	*2.5%*	*2.5%*	Retained to Com Eq	*2.5%*
							56%	65%	61%	54%	65%	58%	62%	64%	64%	78%	*69%*	*69%*	All Div'ds to Net Prof	*68%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $2480.9 mill. **Due in 5 Yrs** $782.2 mill.
LT Debt $2478.2 mill. **LT Interest** $87.8 mill.
Incl. $14.1 mill. finance leases.
(LT interest earned: 2.8x)

Pension Assets-12/20 $688.5 mill.
Oblig $821.0 mill.

Pfd Stock None

Common Stock 50,675,207 shs.
as of 4/16/21

MARKET CAP: $3.1 billion (Mid Cap)

ELECTRIC OPERATING STATISTICS

	2018	2019	2020
% Change Retail Sales (KWH)	+2.9	+4.6	-4.4
Avg. Indust. Use (MWH)	34573	37808	33526
Avg. Indust. Revs. per KWH (¢)	NA	NA	NA
Capacity at Peak (Mw)	NA	NA	NA
Peak Load, Winter (Mw)	2173	2237	NA
Annual Load Factor (%)	NA	NA	NA
% Change Customers (yr-end)	+1.2	+1.2	+1.2
Fixed Charge Cov. (%)	275	284	237

ANNUAL RATES of change (per sh)

	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	-3.0%	-2.0%	*1.5%*
"Cash Flow"	4.0%	4.5%	*3.0%*
Earnings	5.5%	3.5%	*3.0%*
Dividends	5.5%	6.5%	*3.5%*
Book Value	6.0%	5.5%	*3.0%*

QUARTERLY REVENUES ($ mill.)

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	341.5	261.8	279.9	314.9	1198.1
2019	384.2	270.7	274.8	328.2	1257.9
2020	335.3	269.4	280.6	313.4	1198.7
2021	400.8	*284.2*	*290*	*325*	*1300*
2022	*370*	*295*	*300*	*335*	*1300*

EARNINGS PER SHARE [A]

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1.18	.61	.56	1.06	3.40
2019	1.44	.49	.42	1.18	3.53
2020	1.00	.43	.58	1.06	3.06
2021	1.24	*.50*	*.65*	*1.21*	*3.60*
2022	*1.30*	*.50*	*.65*	*1.25*	*3.70*

QUARTERLY DIVIDENDS PAID [B] ■ †

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.525	.525	.525	.525	2.10
2018	.55	.55	.55	.55	2.20
2019	.575	.575	.575	.575	2.30
2020	.60	.60	.60	.60	2.40
2021	.62	.62			

BUSINESS: NorthWestern Corporation (doing business as NorthWestern Energy) supplies electricity & gas in the Upper Midwest and Northwest, serving 449,000 electric customers in Montana and South Dakota and 294,000 gas customers in Montana (85% of gross margin), South Dakota (14%), and Nebraska (1%). Electric revenue breakdown: residential, 39%; commercial, 47%; industrial, 4%; other, 10%. Generating sources: hydro, 33%; coal, 22%; wind, 7%; other, 3%; purchased, 35%. Fuel costs: 25% of revenues. '20 reported deprec. rate: 2.8%. Has 1,500 employees. Chairman: Stephen P. Adik. CEO: Robert C. Rowe. President & COO: Brian B. Bird. Inc.: DE. Address: 3010 West 69th Street, Sioux Falls, SD 57108. Tel.: 605-978-2900. Internet: www.northwesternenergy.com.

After a depressed tally in 2020, NorthWestern's earnings should return to a more-typical level this year. Management estimates that coronavirus-related effects reduced earnings by $0.09-$0.14 a share last year. Unfavorable weather patterns lowered the bottom line by $0.14 a share. Finally, a disallowance of power costs amounted to $0.15 a share in the fourth quarter. Earnings were much improved in the March period, and we raised our full-year estimate by $0.10 a share, to the top end of NorthWestern's targeted range of $3.40-$3.60.

We estimate 3% earnings growth in 2022. We figure there will be few, if any, coronavirus-related drag. However, average shares oustanding almost certainly will be higher due to expected equity issuances (see below). NorthWestern's goal for yearly profit growth is 3%-6%.

The utility plans to ask the Montana commission for permission to build a gas-fired generating plant. This would add 175 megawatts of capacity at an expected cost of $250 million. The facility is expected to be on line in late 2023 or early 2024. A decision from the regulators is expected by May of 2022.

NorthWestern is adding generating capacity in South Dakota, too. A 60-mw gas-fired unit is under construction at an expected cost of $80 million. Commercial operation is expected by yearend. The utility is planning to add 30 mw-40 mw in a different part of the state in 2023. The expected cost is about $60 million.

The company is issuing common equity. This will occur from time to time through a $200 million at-the-market program. The specific amount each year is uncertain, but the issuances are expected to occur over the next three years. NorthWestern's finances are sound, and its credit ratings are investment grade. However, the company has a negative outlook from Moody's due to a decline in the ratio of funds from operations to debt, which is a key metric for the rating agencies.

The stock's dividend yield is a cut above the utility mean. Total return potential to 2024-2026 is about average, but the equity lacks appeal for the 18-month span. The recent price is near the low end of our 3- to 5-year Target Price Range.

Paul E. Debbas, CFA *July 23, 2021*

(A) Diluted EPS. Excl. gain (loss) on disc. ops.: '05, (6¢); '06, 1¢; nonrec. gains: '12, 39¢ net; '15, 27¢; '18, 52¢; '19, 45¢. '18, '20 EPS don't sum due to rounding. Next earnings report due late Oct. **(B)** Div'ds historically paid in late Mar., June, Sept. & Dec. ■ Div'd reinvest. plan avail. **(C)** Incl. def'd charges. In '20: $20.93/sh. **(D)** In mill. **(E)** Rate base: Net orig. cost. Rate allowed on com. eq. in MT in '19 (elec.): 9.65%; in '17 (gas): 9.55%; in SD in '15: none spec.; in NE in '07: 10.4%; earned on avg. com. eq., '20: 7.5%. Reg. Climate: Below Avg.

Company's Financial Strength	B++
Stock's Price Stability	90
Price Growth Persistence	60
Earnings Predictability	85

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P.S. ENTERPRISE GP. NYSE-PEG

RECENT PRICE **62.86** | P/E RATIO **19.2** (Trailing: 17.6 Median: 14.0) | RELATIVE P/E RATIO **1.00** | DIV'D YLD **3.3%** | **VALUE LINE**

TIMELINESS 2 Raised 6/11/21
SAFETY 1 Raised 11/23/12
TECHNICAL 3 Lowered 7/23/21
BETA .95 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$45-$87	$66 (5%)

2024-26 PROJECTIONS

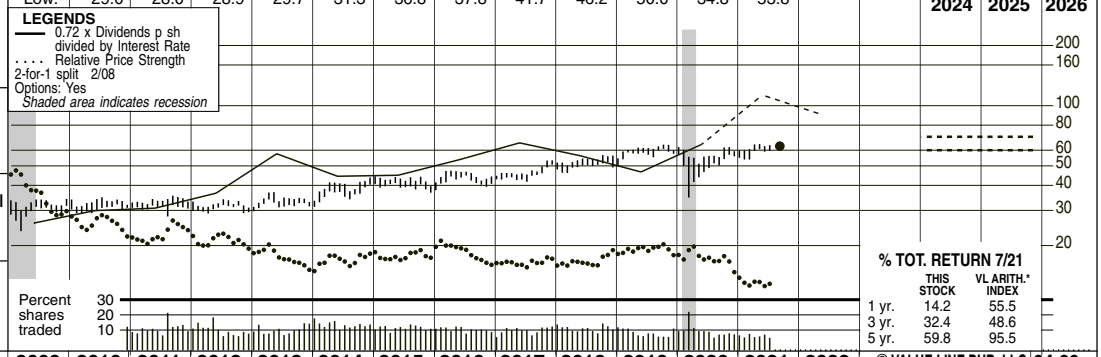
	Price	Gain	Ann'l Total Return
High	70	(+10%)	*6%*
Low	60	(-5%)	*3%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	361	364	378
to Sell	364	383	366
Hld's(000)	351963	352014	353937

High:	34.9	35.5	34.1	37.0	43.8	44.4	47.4	53.3	56.7	63.9	62.2	64.3						
Low:	29.0	28.0	28.9	29.7	31.3	36.8	37.8	41.7	46.2	50.0	34.8	53.8						

LEGENDS
0.72 x Dividends p sh divided by Interest Rate
.... Relative Price Strength
2-for-1 split 2/08
Options: Yes
Shaded area indicates recession



2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
24.74	24.07	25.28	27.94	24.57	23.31	22.42	19.33	19.71	21.52	20.61	18.22	18.14	19.24	19.99	19.05	*19.35*	*20.65*	Revenues per sh	*23.50*
3.42	3.91	4.36	4.68	4.98	5.27	5.36	4.87	5.17	5.82	6.15	5.07	5.30	5.44	6.76	6.54	*6.30*	*6.85*	"Cash Flow" per sh	*7.75*
1.79	1.85	2.59	2.90	3.08	3.07	3.11	2.44	2.45	2.99	3.30	2.83	2.82	2.76	3.90	3.61	*3.25*	*3.65*	Earnings per sh A	*4.25*
1.12	1.14	1.17	1.29	1.33	1.37	1.37	1.42	1.44	1.48	1.56	1.64	1.72	1.80	1.88	1.96	*2.04*	*2.12*	Div'd Decl'd per sh B ■†	*2.40*
2.04	2.01	2.65	3.50	3.55	4.27	4.12	5.09	5.56	5.58	7.65	8.32	8.30	7.76	6.28	5.80	*6.25*	*6.95*	Cap'l Spending per sh	*7.00*
11.99	13.35	14.35	15.36	17.37	19.04	20.30	21.31	22.95	24.09	25.86	26.01	27.42	28.53	29.94	31.71	*32.10*	*33.65*	Book Value per sh C	*39.00*
502.33	505.29	508.52	506.02	505.99	505.97	505.95	505.89	505.86	505.84	505.28	504.87	505.00	504.00	504.00	504.00	*504.00*	*504.00*	Common Shs Outst'g D	*504.00*
16.5	17.8	16.5	13.6	10.0	10.4	10.4	12.8	13.5	12.6	12.4	15.3	16.3	18.7	15.1	14.9	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*15.5*
.88	.96	.88	.82	.67	.66	.65	.81	.76	.66	.62	.80	.82	1.01	.80	.77			Relative P/E Ratio	*.85*
3.8%	3.5%	2.7%	3.3%	4.3%	4.3%	4.2%	4.6%	4.4%	3.9%	3.8%	3.8%	3.7%	3.5%	3.2%	3.6%			Avg Ann'l Div'd Yield	*3.7%*
11343	9781.0	9968.0	10886	10415	9198.0	9161.0	9696.0	10076	9603.0	*9750*	*10400*	Revenues ($mill)	*11800*
1577.0	1239.0	1243.0	1518.0	1679.0	1436.0	1431.0	1399.0	1979.0	1829.0	*1645*	*1850*	Net Profit ($mill)	*2130*
40.4%	36.2%	39.5%	38.2%	37.4%	31.7%	37.3%	22.3%	15.9%	16.1%	*20.0%*	*20.0%*	Income Tax Rate	*20.0%*
2.7%	4.8%	4.6%	4.5%	5.5%	8.4%	10.6%	9.8%	5.5%	7.2%	*8.0%*	*7.0%*	AFUDC % to Net Profit	*6.0%*
42.1%	38.3%	40.4%	40.4%	40.3%	45.3%	46.6%	47.8%	47.7%	47.6%	*48.5%*	*49.5%*	Long-Term Debt Ratio	*51.5%*
57.9%	61.7%	59.6%	59.6%	59.7%	54.7%	53.4%	52.2%	52.3%	52.4%	*51.5%*	*50.5%*	Common Equity Ratio	*48.5%*
17731	17467	19470	20446	21900	24025	25915	27545	28832	30480	*31375*	*33475*	Total Capital ($mill)	*40600*
17849	19736	21645	23589	26539	29286	31797	34363	35844	37585	*39250*	*41200*	Net Plant ($mill)	*46800*
10.2%	8.1%	7.5%	8.4%	8.6%	6.8%	6.4%	6.0%	7.8%	6.9%	*6.0%*	*6.5%*	Return on Total Cap'l	*6.0%*
15.4%	11.5%	10.7%	12.5%	12.9%	10.9%	10.3%	9.7%	13.1%	11.4%	*10.0%*	*11.0%*	Return on Shr. Equity	*11.0%*
15.4%	11.5%	10.7%	12.5%	12.9%	10.9%	10.3%	9.7%	13.1%	11.4%	*10.0%*	*11.0%*	Return on Com Equity E	*11.0%*
8.6%	4.8%	4.4%	6.3%	6.8%	4.6%	4.1%	3.4%	6.8%	5.2%	*4.0%*	*4.5%*	Retained to Com Eq	*4.5%*
44%	58%	59%	49%	47%	58%	61%	65%	48%	54%	*63%*	*58%*	All Div'ds to Net Prof	*57%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $17440 mill. **Due in 5 Yrs** $7666 mill.
LT Debt $15346 mill. **LT Interest** $530 mill.
(LT interest earned: 4.8x)

Leases, Uncapitalized Annual rentals $45 mill.

Pension Assets-12/20 $6368 mill.
Oblig $7507 mill.

Pfd Stock None

Common Stock 505,479,706 shs.
as of 4/20/21
MARKET CAP: $32 billion (Large Cap)

ELECTRIC OPERATING STATISTICS

	2018	2019	2020
% Change Retail Sales (KWH)	+2.8	-2.9	-2.5
Avg. Indust. Use (MWH)	NA	NA	NA
Avg. Indust. Revs. per KWH(¢)	NA	NA	NA
Capacity at Peak (Mw)	NA	NA	NA
Peak Load, Summer (Mw)	9978	9753	NA
Annual Load Factor (%)	NA	NA	NA
% Change Customers (avg.)	NA	NA	NA
Fixed Charge Cov. (%)	413	361	298

ANNUAL RATES of change (per sh)

	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	-2.5%	-1.0%	*3.0%*
"Cash Flow"	2.5%	2.0%	*3.5%*
Earnings	1.5%	3.5%	*3.5%*
Dividends	3.5%	4.5%	*4.0%*
Book Value	5.5%	4.5%	*4.5%*

QUARTERLY REVENUES ($ mill.)

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	2818	2016	2394	2468	9696
2019	2980	2316	2302	2478	10076
2020	2781	2050	2370	2402	9603
2021	2889	1874	*2487*	*2500*	*9750*
2022	*3050*	*2150*	*2600*	*2600*	*10400*

EARNINGS PER SHARE A

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1.10	.53	.81	.32	2.76
2019	1.38	.86	.80	.86	3.90
2020	.88	.89	.99	.85	3.61
2021	1.28	.46	*.93*	*.58*	*3.25*
2022	*1.30*	*.80*	*.95*	*.60*	*3.65*

QUARTERLY DIVIDENDS PAID B ■ †

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.43	.43	.43	.43	1.72
2018	.45	.45	.45	.45	1.80
2019	.47	.47	.47	.47	1.88
2020	.49	.49	.49	.49	1.96
2021	.51	.51			

BUSINESS: Public Service Enterprise Group Incorporated is a holding company for Public Service Electric and Gas Company (PSE&G), which serves 2.3 million electric and 1.9 million gas customers in New Jersey, and PSEG Power LLC, a nonregulated power generator with nuclear, gas, and coal-fired plants in the Northeast. PSEG Energy Holdings is involved in renewable energy. The company no longer breaks out data on electric and gas operating statistics. Fuel costs: 32% of revenues. '20 reported depreciation rates (utility): 1.8%-2.6%. Has 12,800 employees. Chairman, President & CEO: Dr. Ralph Izzo. COO: Ralph A. LaRossa. Inc.: New Jersey. Address: 80 Park Plaza, P.O. Box 1171, Newark, New Jersey 07101-1171. Tel.: 973-430-7000. Internet: www.pseg.com.

Public Service Enterprise Group is selling its nonnuclear generating assets. The company wants to reduce its business risk. PSEG has completed the sale of its solar assets, and received $500 million-$600 million. However, the company took a $517 million pretax charge to write down the value of the remaining assets. We figure this amounted to $0.81 a share after taxes, and treated this as nonrecurring. The sale of the remaining assets is expected to be completed in the fourth quarter or the first period of 2022. PSEG plans to use the cash for debt reduction and other purposes.

We expect lower earnings in 2021. Last year, mark-to-market accounting items and unrealized gains on the nuclear decommissioning trust boosted the bottom line by $0.18 a share. These items were net negative in the first six months of 2022. PSEG Power, the main nonutility subsidiary, will likely post a decline in income due to lower market prices, higher expenses for a nuclear plant outage, and the absence of tax credits booked last year. Furthermore, the allowed return on equity for Public Service Electric and Gas' electric transmission system will be reduced from 11.2% to 9.9% (retroactive to August 1st) if the federal regulators approve a settlement. This would cut annual earning power by $0.10-$0.12 a share. PSEG's profit guidance of $3.40-$3.55 excludes mark-to-market items and unrealized gains or losses on the nuclear decommissioning trusts.

PSE&G is faring well, despite the expected cut in transmission rates. Regulatory mechanisms enable current recovery of most of its capital spending for programs that upgrade its electric and gas system. This is the key factor in the profit improvement we expect in 2022.

PSEG is investing in offshore wind. The company has agreed to take a 25% stake in a project. This has profit potential, but comes with construction risk.

This timely stock is top ranked for Safety. However, its valuation is high. The dividend yield is only average for a utility. With the recent quotation within our 2024-2026 Target Price Range, total return potential is subpar for the next 18 months and the 3- to 5-year period.

Paul E. Debbas, CFA *August 13, 2021*

(A) Diluted EPS. Excl. nonrec. gains (losses): '06, (35¢); '08, (96¢); '09, 6¢; '11, (34¢); '12, 7¢; '16, (30¢); '17, 28¢ (net); '18, 8¢; '19, (62¢); '20, 15¢; '21, (81¢); gains (loss) from disc. ops.: '05, (33¢); '06, 12¢; '07, 3¢; '08, 40¢; '11, 13¢. Next earnings report due late Oct. **(B)** Div'ds historically paid in late Mar., June, Sept., & Dec. ■ Div'd reinvest. plan avail. **(C)** Incl. intang. In '20: $8.00/sh. **(D)** In mill., adj. for split. **(E)** Rate base: Net orig. cost. Rate all'd on com. eq. in '18: 9.6%; earned on avg. com. eq., '20: 11.8%. Regulatory Climate: Avg.

Company's Financial Strength	A++
Stock's Price Stability	95
Price Growth Persistence	55
Earnings Predictability	80

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SOUTHERN COMPANY NYSE-SO

RECENT PRICE **64.08** | P/E RATIO **19.4** (Trailing: 18.3 Median: 16.0) | RELATIVE P/E RATIO **1.01** | DIV'D YLD **4.2%** | **VALUE LINE**

TIMELINESS 4 Lowered 8/13/21
SAFETY 2 Lowered 2/21/14
TECHNICAL 4 Lowered 8/13/21
BETA .95 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$45-$99	$72 (10%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	75	(+15%)	*8%*
Low	55	(-15%)	*1%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	598	708	676
to Sell	612	589	649
Hld's(000)	610548	618856	627954

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
High:	38.6	46.7	48.6	48.7	51.3	53.2	54.6	53.5	49.4	64.3	71.1	66.9						
Low:	30.8	35.7	41.8	40.0	40.3	41.4	46.0	46.7	42.4	43.3	42.0	56.7						

LEGENDS
0.62 x Dividends p sh divided by Interest Rate
Relative Price Strength
Options: Yes
Shaded area indicates recession

Target Price Range 2024 2025 2026

% TOT. RETURN 7/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	22.0	55.5
3 yr.	48.8	48.6
5 yr.	48.8	95.5

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
	18.28	19.24	20.12	22.04	19.21	20.70	20.41	19.06	19.26	20.34	19.18	20.09	22.86	22.73	20.34	19.29	*20.85*	*20.80*	Revenues per sh	*24.00*
	4.03	4.01	4.22	4.43	4.43	4.51	4.91	5.18	5.27	5.28	5.47	5.69	6.64	6.41	6.33	6.98	*7.10*	*7.15*	"Cash Flow" per sh	*8.50*
	2.13	2.10	2.28	2.25	2.32	2.36	2.55	2.67	2.70	2.77	2.84	2.83	3.21	3.00	3.17	3.25	*3.40*	*3.50*	Earnings per sh [A]	*4.50*
	1.48	1.54	1.60	1.66	1.73	1.80	1.87	1.94	2.01	2.08	2.15	2.22	2.30	2.38	2.46	2.54	*2.62*	*2.70*	Div'd Decl'd per sh [B] ■	*2.94*
	3.20	4.01	4.65	5.10	5.70	4.85	5.23	5.54	6.16	6.58	6.22	7.38	7.37	7.74	7.17	7.04	*7.65*	*6.35*	Cap'l Spending per sh	*6.00*
	14.42	15.24	16.23	17.08	18.15	19.21	20.32	21.09	21.43	21.98	22.59	25.00	23.98	23.92	26.11	26.48	*26.75*	*28.45*	Book Value per sh [C]	*32.50*
	741.45	746.27	763.10	777.19	819.65	843.34	865.13	867.77	887.09	907.78	911.72	990.39	1007.6	1033.8	1053.3	1056.5	*1070.0*	*1105.0*	Common Shs Outst'g [D]	*1105.0*
	15.9	16.2	16.0	16.1	13.5	14.9	15.8	17.0	16.2	16.0	15.8	17.8	15.5	15.1	17.6	17.9	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*14.5*
	.85	.87	.85	.97	.90	.95	.99	1.08	.91	.84	.80	.93	.78	.82	.94	.92			Relative P/E Ratio	*.80*
	4.4%	4.5%	4.4%	4.6%	5.5%	5.1%	4.6%	4.3%	4.6%	4.7%	4.8%	4.4%	4.6%	5.3%	4.4%	4.4%			Avg Ann'l Div'd Yield	*4.5%*
							17657	16537	17087	18467	17489	19896	23031	23495	21419	20375	*22300*	*23000*	Revenues ($mill)	*26600*
							2268.0	2415.0	2439.0	2567.0	2647.0	2757.0	3269.0	3096.0	3354.0	3481.0	*3610*	*3835*	Net Profit ($mill)	*4925*
							35.0%	35.6%	34.8%	33.8%	33.4%	28.5%	25.2%	21.3%	15.9%	14.3%	*14.0%*	*14.0%*	Income Tax Rate	*14.0%*
							10.2%	9.4%	11.6%	13.9%	13.2%	11.9%	7.6%	6.8%	6.0%	6.6%	*7.0%*	*6.0%*	AFUDC % to Net Profit	*4.0%*
							50.0%	49.9%	51.5%	49.5%	52.8%	61.5%	64.5%	62.0%	60.1%	61.5%	*63.0%*	*61.5%*	Long-Term Debt Ratio	*61.5%*
							47.1%	47.3%	45.8%	47.3%	44.0%	35.7%	35.0%	37.6%	39.5%	38.1%	*37.0%*	*38.0%*	Common Equity Ratio	*38.5%*
							37307	38653	41483	42142	46788	69359	68953	65750	69594	73336	*77800*	*82875*	Total Capital ($mill)	*93300*
							45010	48390	51208	54868	61114	78446	79872	80797	83080	87634	*91875*	*94825*	Net Plant ($mill)	*102200*
							7.2%	7.3%	6.8%	7.1%	6.6%	4.9%	5.9%	5.9%	6.0%	5.9%	*5.5%*	*5.5%*	Return on Total Cap'l	*6.5%*
							12.2%	12.5%	12.1%	12.1%	12.0%	10.3%	13.3%	12.4%	12.1%	12.3%	*12.5%*	*12.0%*	Return on Shr. Equity	*13.5%*
							12.5%	12.8%	12.5%	12.5%	12.6%	11.0%	13.4%	12.5%	12.1%	12.4%	*12.5%*	*12.0%*	Return on Com Equity [E]	*14.0%*
							3.4%	3.6%	3.2%	3.2%	3.1%	2.5%	3.9%	2.6%	2.8%	2.8%	*3.0%*	*3.0%*	Retained to Com Eq	*4.5%*
							73%	73%	75%	75%	76%	78%	72%	79%	77%	78%	*78%*	*77%*	All Div'ds to Net Prof	*66%*

CAPITAL STRUCTURE as of 6/30/21
Total Debt $52059 mill. **Due in 5 Yrs** $14647 mill.
LT Debt $47828 mill. **LT Interest** $1682 mill.
(LT interest earned: 3.3x)
Leases, Uncapitalized Annual rentals $300 mill.
Pension Assets-12/20 $15367 mill.
Oblig $16646 mill.
Pfd Stock $291 mill. **Pfd Div'd** $15 mill.
Incl. 10 mill. shs. 5.83% cum. pfd. ($25 stated value); 475,115 shs. 4.2%-5.44% cum. pfd. ($100 par).
Common Stock 1,058,825,814 shs.

MARKET CAP: $68 billion (Large Cap)

ELECTRIC OPERATING STATISTICS

	2018	2019	2020
% Change Retail Sales (KWH)	+3.6	-8.5	-5.3
Avg. Indust. Use (MWH)	3048	2947	NA
Avg. Indust. Revs. per KWH (¢)	6.04	6.03	NA
Capacity at Yearend (Mw)	45824	41940	NA
Peak Load, Summer (Mw) [F]	36429	34209	NA
Annual Load Factor (%)	61.2	60.3	NA
% Change Customers (yr-end)	+1.0	-8.9	+1.3
Fixed Charge Cov. (%)	280	281	270

ANNUAL RATES

of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	- -	1.0%	*2.5%*
"Cash Flow"	4.0%	4.5%	*5.0%*
Earnings	3.0%	2.5%	*6.0%*
Dividends	3.5%	3.5%	*3.0%*
Book Value	3.5%	3.0%	*4.0%*

QUARTERLY REVENUES (mill.)

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	6372	5627	6159	5337	23495
2019	5412	5098	5995	4914	21419
2020	5018	4620	5620	5117	20375
2021	5910	5198	*6000*	*5192*	*22300*
2022	*5900*	*5350*	*6300*	*5450*	*23000*

EARNINGS PER SHARE [A]

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.99	.71	1.13	.17	3.00
2019	.75	.85	1.25	.32	3.17
2020	.81	.75	1.18	.51	3.25
2021	1.09	.73	*1.18*	*.40*	*3.40*
2022	*1.00*	*.80*	*1.30*	*.40*	*3.50*

QUARTERLY DIVIDENDS PAID [B] ■

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.56	.58	.58	.58	2.30
2018	.58	.60	.60	.60	2.38
2019	.60	.62	.62	.62	2.46
2020	.62	.64	.64	.64	2.54
2021	.64	.66			

BUSINESS: The Southern Company, through its subs., supplies electricity to 4.3 mill. customers in GA, AL, and MS. Also has a competitive generation business. Acq'd AGL Resources (renamed Southern Company Gas, 4.3 mill. customers in GA, NJ, IL, VA, & TN) 7/16. Sold Gulf Power 1/19. Electric rev. breakdown: residential, 37%; commercial, 30%; industrial, 19%; other, 14%. Retail revs. by state: GA, 56%; AL, 38%; MS, 6%. Generating sources: gas, 47%; coal, 20%; nuclear, 15%; other, 9%; purchased, 9%. Fuel costs: 23% of revs. '20 reported depr. rates (util.): 2.6%-3.7%. Has 27,700 empls. Chairman, Pres. and CEO: Thomas A. Fanning. Inc.: DE. Address: 30 Ivan Allen Jr. Blvd., N.W., Atlanta, GA 30308. Tel.: 404-506-0747. Internet: www.southerncompany.com.

Southern Company's Georgia Power subsidiary has experienced another delay in its nuclear construction project. The utility is adding two units at the site of the Vogtle station. Several months ago, the company expected to meet or beat the regulatory-approved in-service dates of November, 2021 and November, 2022 for Units 3 and 4, respectively. Delays for various reasons have pushed back the expected in-service dates to the second quarter of 2022 for Unit 3 and the first period of 2023 for Unit 4. This has increased Georgia Power's 45.7% share of the project's cost by $460 million. Because the utility will be unable to recover this in rates, Southern Company took a $343 million aftertax charge ($0.32 a share) against June-period results. We *exclude* this from our earnings presentation as a nonrecurring item. In order to raise some cash, the company switched its dividend-reinvestment and other stock plans from open-market purchases to new issuances. This is expected to raise $400 million over the next year. As of June 30th, Georgia Power had an estimated $1.4 billion of capital and $500 million of financing costs remaining.

The market has taken the news in stride. Originally, the units were expected to come on line in 2016 and 2017, so Wall Street is not surprised by delays and cost overruns. Indeed, the stock price is down just 3% since our May report, and is up 4% year to date.

We expect moderate profit growth in 2021 and 2022. Southern Company should benefit from rate relief and increased volume as the economy improves. Residential kilowatt-hour sales are still benefiting from the effects of people working from home, and commercial and industrial volume are close to returning to 2019 levels. Rate relief is likely another positive factor, as gas rate cases are pending in three states. Most significantly, Nicor Gas in Illinois is seeking a tariff increase of $293 million, based on a 10.35% return on equity and a 54.5% common-equity ratio. An order is expected in late 2021.

The untimely stock has a dividend yield that is above average for a utility. Total return potential is good for the 18-month span, but low for the 3- to 5-year period.

Paul E. Debbas, CFA *August 13, 2021*

(A) Diluted EPS. Excl. nonrec. gain (losses): '09, (25¢); '13, (83¢); '14, (59¢); '15, (25¢); '16, (28¢); '17, ($2.37); '18, (78¢); '19, $1.30; '20, (17¢); '21, (41¢). Next earnings report due late Oct. **(B)** Div'ds paid in early Mar., June, Sept., and Dec. ■ Div'd reinvest. plan avail. **(C)** Incl. def'd charges. In '20: $18.91/sh. **(D)** In mill. **(E)** Rate base: AL, MS, fair value; FL, GA, orig. cost. Allowed return on common eq. (blended): 12.5%; earned on avg. com. eq., '20: 12.5%. Regulatory Climate: GA, AL Above Average; MS, FL Average. **(F)** Winter peak in '18.

Company's Financial Strength	A
Stock's Price Stability	90
Price Growth Persistence	25
Earnings Predictability	95

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WEC ENERGY GROUP NYSE-WEC

RECENT PRICE 93.91 | P/E RATIO 23.2 (Trailing: 23.7 Median: 19.0) | RELATIVE P/E RATIO 1.09 | DIV'D YLD 3.0% | VALUE LINE

TIMELINESS 3 Raised 4/23/21
SAFETY 1 Raised 3/23/12
TECHNICAL 2 Raised 6/11/21
BETA .80 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$67-$153	$110 (15%)

2024-26 PROJECTIONS

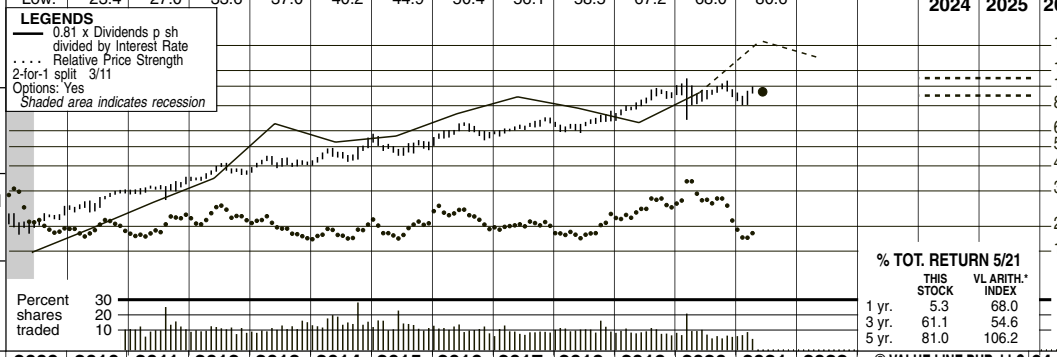
	Price	Gain	Ann'l Total Return
High	110	(+15%)	7%
Low	90	(-5%)	2%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	361	421	362
to Sell	391	370	441
Hld's(000)	231967	230263	233922

High: 30.5 35.4 41.5 45.0 55.4 58.0 66.1 70.1 75.5 98.2 109.5 99.9
Low: 23.4 27.0 33.6 37.0 40.2 44.9 50.4 56.1 58.5 67.2 68.0 80.6

LEGENDS
0.81 x Dividends p sh divided by Interest Rate
Relative Price Strength
2-for-1 split 3/11
Options: Yes
Shaded area indicates recession



% TOT. RETURN 5/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	5.3	68.0
3 yr.	61.1	54.6
5 yr.	81.0	106.2

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
16.31	17.08	18.12	18.95	17.65	17.98	19.46	18.54	20.00	22.16	18.77	23.68	24.24	24.34	23.85	22.96	*25.35*	*24.75*	Revenues per sh	*28.00*
2.89	2.90	2.98	2.95	3.11	3.30	3.68	4.01	4.33	4.47	3.87	5.39	5.69	6.04	6.53	6.90	*7.45*	*8.00*	"Cash Flow" per sh	*10.00*
1.28	1.32	1.42	1.52	1.60	1.92	2.18	2.35	2.51	2.59	2.34	2.96	3.14	3.34	3.58	3.79	*4.05*	*4.30*	Earnings per sh [A]	*5.25*
.44	.46	.50	.54	.68	.80	1.04	1.20	1.45	1.56	1.74	1.98	2.08	2.21	2.36	2.53	*2.71*	*2.89*	Div'd Decl'd per sh [B] ■	*3.45*
3.40	4.17	5.28	4.86	3.50	3.41	3.60	3.09	3.04	3.26	4.01	4.51	6.21	6.71	7.17	7.10	*9.90*	*9.70*	Cap'l Spending per sh	*8.75*
11.46	12.35	13.25	14.27	15.26	16.26	17.20	18.05	18.73	19.60	27.42	28.29	29.98	31.02	32.06	33.19	*34.35*	*35.60*	Book Value per sh [C]	*40.25*
233.96	233.94	233.89	233.84	233.82	233.77	230.49	229.04	225.96	225.52	315.68	315.62	315.57	315.52	315.43	315.43	*315.43*	*315.43*	Common Shs Outst'g [D]	*315.43*
14.5	16.0	16.5	14.8	13.3	14.0	14.2	15.8	16.5	17.7	21.3	19.9	20.0	19.6	23.5	24.9	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*19.5*
.77	.86	.88	.89	.89	.89	.89	1.01	.93	.93	1.07	1.04	1.01	1.06	1.25	1.29			Relative P/E Ratio	*1.10*
2.4%	2.2%	2.1%	2.4%	3.2%	3.0%	3.3%	3.2%	3.5%	3.4%	3.5%	3.4%	3.3%	3.4%	2.8%	2.7%			Avg Ann'l Div'd Yield	*3.4%*
4486.4	4246.4	4519.0	4997.1	5926.1	7472.3	7648.5	7679.5	7523.1	7241.7	*8000*	*7800*	Revenues ($mill)	*8850*
514.0	547.5	578.6	589.5	640.3	940.2	998.2	1060.5	1134.2	1201.1	*1280*	*1360*	Net Profit ($mill)	*1675*
33.9%	35.9%	36.9%	38.0%	40.4%	37.6%	37.2%	13.8%	9.9%	15.9%	*13.5%*	*13.5%*	Income Tax Rate	*13.5%*
16.8%	9.4%	4.5%	1.3%	4.5%	3.8%	1.6%	2.1%	1.8%	2.4%	*2.0%*	*2.0%*	AFUDC % to Net Profit	*2.0%*
53.6%	51.7%	50.6%	48.5%	51.2%	50.5%	48.0%	50.4%	52.5%	52.8%	*54.5%*	*54.0%*	Long-Term Debt Ratio	*53.0%*
46.0%	48.0%	49.1%	51.2%	48.6%	49.3%	51.9%	49.4%	47.4%	47.1%	*45.5%*	*45.5%*	Common Equity Ratio	*47.0%*
8608.0	8619.3	8626.6	8636.5	17809	18118	18238	19813	21355	22228	*23950*	*24600*	Total Capital ($mill)	*27100*
10160	10572	10907	11258	19190	19916	21347	22001	23620	25707	*27775*	*29650*	Net Plant ($mill)	*34500*
7.5%	7.9%	8.1%	8.1%	4.5%	6.3%	6.6%	6.5%	6.5%	6.5%	*6.5%*	*6.5%*	Return on Total Cap'l	*7.0%*
12.9%	13.1%	13.6%	13.2%	7.4%	10.5%	10.5%	10.8%	11.2%	11.4%	*12.0%*	*12.0%*	Return on Shr. Equity	*13.0%*
12.9%	13.2%	13.6%	13.3%	7.4%	10.5%	10.5%	10.8%	11.2%	11.5%	*12.0%*	*12.0%*	Return on Com Equity [E]	*13.0%*
6.8%	6.5%	5.9%	5.3%	2.1%	3.5%	3.6%	3.7%	3.8%	3.8%	*4.0%*	*4.0%*	Retained to Com Eq	*4.5%*
47%	51%	57%	60%	71%	67%	66%	66%	66%	67%	*67%*	*67%*	All Div'ds to Net Prof	*65%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $14685 mill. **Due in 5 Yrs** $5612.5 mill.
LT Debt $12318 mill. **LT Interest** $438.4 mill.
Incl. $12.1 mill. finance leases.
(LT interest earned: 4.0x)
Leases, Uncapitalized Annual rentals $6.8 mill.
Pension Assets-12/20 $3225.0 mill.
Oblig $3346.4 mill.
Pfd Stock $30.4 mill. **Pfd Div'd** $1.2 mill.
260,000 shs. 3.60%, $100 par, callable. $101;
44,498 shs. 6%, $100 par.
Common Stock 315,434,531 shs.

MARKET CAP: $30 billion (Large Cap)

ELECTRIC OPERATING STATISTICS

	2018	2019	2020
% Change Retail Sales (KWH)	+2.5	-2.5	-2.6
Avg. Indust. Use (MWH)	NA	NA	NA
Avg. Lg. C&I Revs. per KWH (¢)	7.05	7.25	6.61
Capacity at Peak (Mw)	NA	NA	NA
Peak Load, Summer (Mw)	NA	NA	NA
Annual Load Factor (%)	NA	NA	NA
% Change Customers (yr-end)	+.7	+.6	+.7
Fixed Charge Cov. (%)	323	300	338

ANNUAL RATES of change (per sh)

	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	2.5%	3.0%	*3.0%*
"Cash Flow"	7.5%	9.0%	*7.5%*
Earnings	8.0%	7.5%	*6.5%*
Dividends	13.5%	8.5%	*6.5%*
Book Value	7.5%	8.0%	*4.0%*

QUARTERLY REVENUES ($ mill.)

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	2286	1672	1643	2076	7679.5
2019	2377	1590	1608	1947	7523.1
2020	2108	1548	1651	1933	7241.7
2021	2691	*1600*	*1700*	*2009*	*8000*
2022	*2350*	*1650*	*1750*	*2050*	*7800*

EARNINGS PER SHARE [A]

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1.23	.73	.74	.65	3.34
2019	1.33	.74	.74	.77	3.58
2020	1.43	.76	.84	.76	3.79
2021	1.61	*.76*	*.90*	*.80*	*4.05*
2022	*1.65*	*.85*	*.95*	*.85*	*4.30*

QUARTERLY DIVIDENDS PAID [B] ■

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.52	.52	.52	.52	2.08
2018	.5525	.5525	.5525	.5525	2.21
2019	.59	.59	.59	.59	2.36
2020	.6325	.6325	.6325	.6325	2.53
2021	.6775	.6775			

BUSINESS: WEC Energy Group, Inc. (formerly Wisconsin Energy) is a holding company for utilities that provide electric, gas & steam service in WI & gas service in IL, MN, & MI. Customers: 1.6 mill. elec., 2.9 mill. gas. Acq'd Integrys Energy 6/15. Sold Point Beach nuclear plant in '07. Electric revenue breakdown: residential, 41%; small commercial & industrial, 31%; large commercial & industrial, 20%; other, 8%. Generating sources: coal, 31%; gas, 31%; renewables, 5%; purchased, 33%. Fuel costs: 32% of revenues. '20 reported deprec. rates: 2.3%-3.2%. Has 7,300 employees. Chairman: Gale E. Klappa. President & CEO: Kevin Fletcher. Inc.: WI. Address: 231 W. Michigan St., P.O. Box 1331, Milwaukee, WI 53201. Tel.: 414-221-2345. Internet: www.wecenergygroup.com.

We have raised our 2021 and 2022 earnings estimates for WEC Energy Group by $0.05 a share each year. First-quarter profits topped our estimate of $1.50 a share and the year-earlier tally of $1.43. More-favorable weather patterns than in 2020, customer growth, and the economic recovery were positive factors. Other considerations for the full year and for 2022 are ongoing investment to replace mains at Peoples Gas ($280 million-$300 million annually, recovered through a rider on customers' bills), and additions of nonutility renewable-energy projects (which are expected to add $0.08 to share net this year). Management is guiding Wall Street to the upper end of the company's typically narrow earnings target of $3.99-$4.03 a share. Our revised estimate of $4.05 is slightly above this range. WEC Energy has established a track record of exceeding its earnings guidance.

The company is adding nonregulated wind projects. WEC Energy has a majority stake in five projects, with a total of 834 megawatts of capacity. Two more projects, with 490 mw of capacity, are expected to come on line this year at a cost of $683 million. This subsidiary's return on investment is higher than that of the regulated utility business.

Regulatory matters are pending in Illinois and Michigan. North Shore Gas asked the Illinois commission for an increase of $7.6 million (8.5%), based on a 10% return on equity and a 52.5% common-equity ratio. New tariffs are expected to take effect in September. Michigan Gas Utilities filed for a hike of $15.1 million (10.7%), based on a 10.2% ROE and a 52.5% common-equity ratio. New rates are expected to take effect in January. Finally, WEC Energy's utilities in Wisconsin have filed a settlement with the state commission that would allow the utilities to defer their next rate cases until 2022. Accounting orders (such as the deferral of certain costs) would be used to protect the company's earnings until then.

This high-quality stock has a dividend yield that is a cut below the utility average. This reflects the company's strengths. Total return potential is attractive for the next 18 months, but just modest for the 3- to 5-year period.

Paul E. Debbas, CFA *June 11, 2021*

(A) Diluted EPS. Excl. gains on discont. ops.: '11, 6¢; nonrecurring gain: '17, 65¢. '18 EPS don't sum due to rounding. Next earnings report due early Aug. **(B)** Div'ds paid in early Mar., June, Sept. & Dec. ■ Div'd reinvest. plan avail. **(C)** Incl. intang. In '20: $20.85/sh. **(D)** In mill., adj. for split. **(E)** Rate base: Net orig. cost. Rates all'd on com. eq. in WI in '15: 10.0%-10.3%; in IL in '15: 9.05%; in MN in '19: 9.7%; in MI in '16: 9.9%; earned on avg. com. eq., '20: 11.7%. Regulatory Climate: WI, Above Avg.; IL, Below Avg.; MN & MI, Avg.

Company's Financial Strength	A+
Stock's Price Stability	85
Price Growth Persistence	70
Earnings Predictability	95

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XCEL ENERGY NDQ-XEL

RECENT PRICE 67.84 | P/E RATIO 23.0 (Trailing: 23.5 Median: 17.0) | RELATIVE P/E RATIO 1.16 | DIV'D YLD 2.8% | VALUE LINE

TIMELINESS 3 Lowered 3/19/21
SAFETY 1 Raised 5/1/15
TECHNICAL 3 Lowered 7/23/21
BETA .80 (1.00 = Market)

18-Month Target Price Range

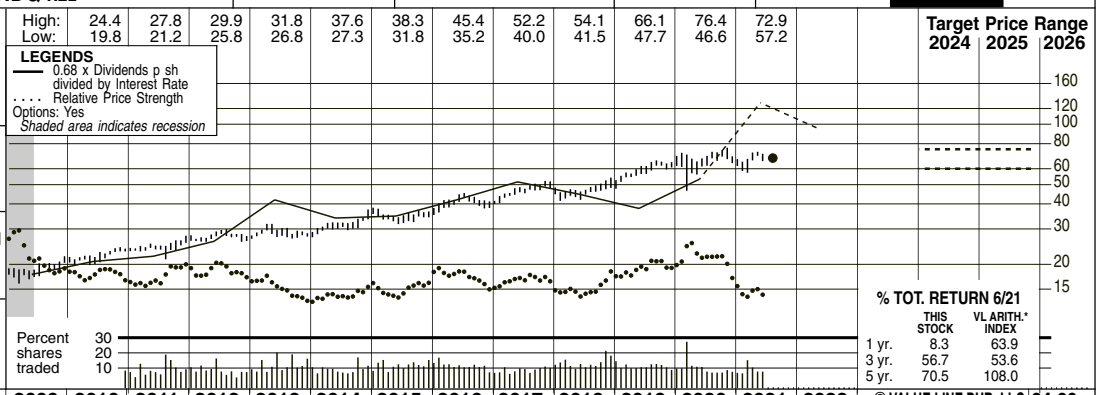
Low-High	Midpoint (% to Mid)
$53-$110	$82 (20%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	75	(+10%)	5%
Low	60	(-10%)	Nil

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	356	411	348
to Sell	362	350	396
Hld's(000)	407854	405434	405318



2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
23.86	24.16	23.40	24.69	21.08	21.38	21.90	20.76	21.92	23.11	21.72	21.90	22.46	22.44	21.98	21.45	*23.15*	*23.00*	Revenues per sh	*25.25*
3.28	3.61	3.45	3.50	3.48	3.51	3.79	4.00	4.10	4.28	4.56	5.04	5.47	5.92	6.25	6.61	*7.10*	*7.55*	"Cash Flow" per sh	*9.00*
1.20	1.35	1.35	1.46	1.49	1.56	1.72	1.85	1.91	2.03	2.10	2.21	2.30	2.47	2.64	2.79	*2.95*	*3.10*	Earnings per sh A	*3.75*
.85	.88	.91	.94	.97	1.00	1.03	1.07	1.11	1.20	1.28	1.36	1.44	1.52	1.62	1.72	*1.83*	*1.94*	Div'd Decl'd per sh B ■	*2.30*
3.25	4.00	4.89	4.66	3.91	4.60	4.53	5.27	6.82	6.33	7.26	6.42	6.54	7.70	8.05	9.99	*8.30*	*8.70*	Cap'l Spending per sh	*8.50*
13.37	14.28	14.70	15.35	15.92	16.76	17.44	18.19	19.21	20.20	20.89	21.73	22.56	23.78	25.24	27.12	*28.45*	*29.85*	Book Value per sh C	*34.50*
403.39	407.30	428.78	453.79	457.51	482.33	486.49	487.96	497.97	505.73	507.54	507.22	507.76	514.04	524.54	537.44	*540.00*	*544.00*	Common Shs Outst'g D	*553.00*
15.4	14.8	16.7	13.7	12.7	14.1	14.2	14.8	15.0	15.4	16.5	18.5	20.2	18.9	22.3	23.9	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*18.0*
.82	.80	.89	.82	.85	.90	.89	.94	.84	.81	.83	.97	1.02	1.02	1.19	1.23			Relative P/E Ratio	*1.00*
4.6%	4.4%	4.0%	4.7%	5.1%	4.5%	4.2%	3.9%	3.9%	3.8%	3.7%	3.3%	3.1%	3.3%	2.7%	2.6%			Avg Ann'l Div'd Yield	*3.4%*
10655	10128	10915	11686	11024	11107	11404	11537	11529	11526	*12500*	*12500*	Revenues ($mill)	*14000*
841.4	905.2	948.2	1021.3	1063.6	1123.4	1171.0	1261.0	1372.0	1473.0	*1590*	*1690*	Net Profit ($mill)	*2080*
35.8%	33.2%	33.8%	33.9%	35.8%	34.1%	30.7%	12.6%	8.5%	--	*NMF*	*NMF*	Income Tax Rate	*NMF*
9.4%	10.8%	13.4%	12.5%	7.7%	7.8%	9.4%	12.4%	8.3%	10.7%	*7.0%*	*7.0%*	AFUDC % to Net Profit	*6.0%*
51.1%	53.3%	53.3%	53.0%	54.1%	56.3%	55.9%	56.4%	56.8%	57.4%	*58.0%*	*57.5%*	Long-Term Debt Ratio	*58.0%*
48.9%	46.7%	46.7%	47.0%	45.9%	43.7%	44.1%	43.6%	43.2%	42.6%	*42.0%*	*42.5%*	Common Equity Ratio	*42.0%*
17331	19018	20477	21714	23092	25216	25975	28025	30646	34220	*36425*	*38100*	Total Capital ($mill)	*45200*
22353	23809	26122	28757	31206	32842	34329	36944	39483	42950	*45175*	*47525*	Net Plant ($mill)	*53600*
6.5%	6.1%	6.0%	6.0%	5.8%	5.7%	5.8%	5.7%	5.6%	5.4%	*5.5%*	*5.5%*	Return on Total Cap'l	*5.5%*
9.9%	10.2%	9.9%	10.0%	10.0%	10.2%	10.2%	10.3%	10.4%	10.1%	*10.5%*	*10.5%*	Return on Shr. Equity	*11.0%*
9.9%	10.2%	9.9%	10.0%	10.0%	10.2%	10.2%	10.3%	10.4%	10.1%	*10.5%*	*10.5%*	Return on Com Equity E	*11.0%*
4.3%	4.7%	4.5%	4.5%	4.3%	4.0%	3.9%	4.3%	4.4%	4.2%	*4.0%*	*4.0%*	Retained to Com Eq	*4.0%*
56%	54%	54%	55%	57%	61%	62%	58%	58%	58%	*62%*	*62%*	All Div'ds to Net Prof	*61%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $22968 mill. **Due in 5 Yrs** $4904 mill.
LT Debt $21470 mill. **LT Interest** $800 mill.
Incl. $73 mill. finance leases.
(LT interest earned: 2.8x)

Leases, Uncapitalized Annual rentals $273 mill.
Pension Assets-12/20 $3599 mill.
Oblig $3964 mill.

Pfd Stock None

Common Stock 538,206,800 shs.
as of 4/22/21
MARKET CAP: $37 billion (Large Cap)

ELECTRIC OPERATING STATISTICS

	2018	2019	2020
% Change Retail Sales (KWH)	+3.2	-1.2	-2.3
Large C & I Use (MWH)	23004	NA	NA
Large C & I Revs. per KWH (¢)	5.91	5.96	5.78
Capacity at Peak (Mw)	NA	NA	NA
Peak Load, Summer (Mw)	20293	20146	19665
Annual Load Factor (%)	NA	NA	NA
% Change Customers (yr-end)	+1.1	+1.0	NA
Fixed Charge Cov. (%)	281	272	252

ANNUAL RATES of change (per sh)

	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	--	-.5%	*2.5%*
"Cash Flow"	6.0%	7.5%	*6.0%*
Earnings	6.0%	5.5%	*6.0%*
Dividends	5.5%	6.0%	*6.0%*
Book Value	4.5%	5.0%	*5.0%*

QUARTERLY REVENUES ($ mill.)

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	2951	2658	3048	2880	11537
2019	3141	2577	3013	2798	11529
2020	2811	2586	3182	2947	11526
2021	3541	*2700*	*3209*	*3050*	*12500*
2022	*3250*	*2750*	*3300*	*3200*	*12500*

EARNINGS PER SHARE A

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.57	.52	.96	.42	2.47
2019	.61	.46	1.01	.56	2.64
2020	.56	.54	1.14	.54	2.79
2021	.67	*.55*	*1.15*	*.58*	*2.95*
2022	*.70*	*.55*	*1.20*	*.65*	*3.10*

QUARTERLY DIVIDENDS PAID B ■

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.34	.36	.36	.36	1.42
2018	.36	.38	.38	.38	1.50
2019	.38	.405	.405	.405	1.60
2020	.405	.43	.43	.43	1.70
2021	.43	.4575	.4575		

BUSINESS: Xcel Energy Inc. is the parent of Northern States Power, which supplies electricity to Minnesota, Wisconsin, North Dakota, South Dakota & Michigan & gas to Minnesota, Wisconsin, North Dakota & Michigan; P.S. of Colorado, which supplies electricity & gas to Colorado; & Southwestern Public Service, which supplies electricity to Texas & New Mexico. Customers: 3.7 mill. elec., 2.1 mill. gas. Elec. rev. breakdown: res'l, 31%; sm. comm'l & ind'l, 36%; lg. comm'l & ind'l, 18%; other, 15%. Generating sources not avail. Fuel costs: 36% of revs. '20 reported depr. rate: 3.4%. Has 11,400 empls. Chairman & CEO: Ben Fowke. President & COO: Bob Frenzel. Inc.: MN. Address: 414 Nicollet Mall, Minneapolis, MN 55401. Tel.: 612-330-5500. Internet: www.xcelenergy.com.

As usual, Xcel Energy has a lot of regulatory matters pending. The company is awaiting orders on electric rate cases in Wisconsin, North Dakota, Texas, and New Mexico. In Wisconsin, Northern States Power reached a settlement calling for raises in electric rates of $35 million in 2022 and $18 million in 2023, respectively, and gas hikes of $10 million in 2022 and $3 million in 2023. The allowed return on equity would be 9.8% in 2022 and 10% in 2023. In North Dakota, NSP reached a settlement calling for an increase of $7 million, based on a 9.5% ROE. Orders are expected in the fourth quarter of 2021. Southwestern Public Service is asking the commissions in Texas and New Mexico for hikes of $143 million and $88 million, respectively, based on a 10.35% ROE. Orders are expected in the fourth quarter and first quarter in New Mexico and Texas, respectively. Public Service of Colorado filed for a $470 million base rate increase (including $127 million that is already being recovered through riders on customers' bills), based on a 10% ROE. The company is asking the regulators in Minnesota and Colorado to approve integrated resource plans. Xcel is asking regulators to approve the recovery of $936 million of higher gas costs stemming from a winter storm in February. The commissions in Wisconsin and New Mexico have already given their approval, and Xcel is waiting to hear from three other states. Finally, the company might file an electric rate case in Minnesota later this year.

We expect a continuation of steady profit growth in 2021 and 2022. Rate relief and effective expense control are key factors. The company got off to a good start in the March quarter. Our estimate remains at the midpoint of the company's targeted range of $2.90-$3.00 a share. We estimate a 5% increase, to $3.10 a share, in 2022. This can be considered conservative, as Xcel's goal for annual earnings growth is 5%-7%.

Top-quality Xcel stock has a high valuation. The dividend yield is below average for a utility. Total return potential is appealing for the next 18 months, but not for the 3- to 5-year period. The recent quotation is well within our 2024-2026 Target Price Range.

Paul E. Debbas, CFA *July 23, 2021*

(A) Diluted EPS. Excl. nonrecurring gain (losses): '10, 5¢; '15, (16¢); '17, (5¢); gains (loss) on discontinued ops.: '05, 3¢; '06, 1¢; '09, (1¢); '10, 1¢. '20 EPS don't sum due to rounding. Next earnings report due late July.
(B) Div'ds historically paid mid-Jan., Apr., July, and Oct. ■ Div'd reinvestment plan available.
(C) Incl. intangibles. In '20: $2373 mill., $4.42/sh.
(D) In mill. **(E)** Rate base: Varies. Rate allowed on com. eq. (blended): 9.6%; earned on avg. com. eq., '20: 10.6%. Regulatory Climate: Average.

Company's Financial Strength	A+
Stock's Price Stability	95
Price Growth Persistence	65
Earnings Predictability	100

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Duke Energy Kentucky, Inc.
Summary of Risk Premium Models for the
Proxy Group of Thirteen Combination Electric and Gas Utilities

	Proxy Group of Thirteen Combination Electric and Gas Utilities
Predictive Risk Premium Model (PRPM) (1)	11.07 %
Risk Premium Using an Adjusted Total Market Approach (2)	10.52
Average	10.80 %

Notes:
(1) From page 2 of this Schedule.
(2) From page 3 of this Schedule.

Duke Energy Kentucky, Inc
Indicated ROE
Derived by the Predictive Risk Premium Model (1

Proxy Group of Thirteen Combination Electric and Gas Utilities	[1] LT Average Predicted Variance	[2] Spot Predicted Variance	[3] Recommended Variance (2)	[4] GARCH Coefficient	[5] Predicted Risk Premium (3)	[6] Risk-Free Rate (4)	[7] Indicated ROE (5)
Ameren Corporation	0.23%	0.32%	0.28%	2.0383	7.07%	2.70%	9.77%
Avista Corporation	0.47%	0.64%	0.55%	0.9944	6.76%	2.70%	9.46%
Black Hills Corporation	0.43%	0.34%	0.39%	1.5669	7.58%	2.70%	10.28%
CMS Energy Corporation	0.54%	0.38%	0.46%	1.6320	9.39%	2.70%	12.09%
Duke Energy Corporation	0.31%	0.31%	0.31%	1.8669	7.17%	2.70%	9.87%
Consolidated Edison, Inc	0.46%	0.40%	0.43%	1.5466	8.28%	2.70%	10.98%
Eversource Energy	0.31%	0.30%	0.30%	1.6900	6.26%	2.70%	8.96%
MGE Energy, Inc.	0.24%	0.23%	0.24%	2.6171	7.80%	2.70%	10.50%
NorthWestern Corporation	0.34%	0.26%	0.30%	2.3747	8.89%	2.70%	11.59%
Public Service Enterprise Group Incorporated	0.30%	0.35%	0.33%	2.4071	9.96%	2.70%	12.66%
Southern Company	1.28%	0.34%	0.81%	0.9780	9.93%	2.70%	12.63%
WEC Energy Group, Inc.	0.23%	0.30%	0.26%	3.0098	9.81%	2.70%	12.51%
Xcel Energy Inc.	0.28%	0.34%	0.31%	2.8250	11.03%	2.70%	13.73%
						Average	11.16%
						Median	10.98%
						Average of Mean and Median	11.07%

Notes:

(1) The Predictive Risk Premium Model uses historical data to generate a predicted variance and a GARCH coefficient. The historical data used are the equity risk premiums for the first available trading month as reported by Bloomberg Professional Service.

(2) Given current market conditions, I recommend using average of the the long-term average predicted variance and spot variance.

(3) $(1+(\text{Column [3]} * \text{Column [4]})^{\hat{}12}) - 1$.

(4) From note 2 on page 2 of Schedule DWD-4.

(5) Column [5] + Column [6].

Duke Energy Kentucky, Inc.
Indicated Common Equity Cost Rate
Through Use of a Risk Premium Model
Using an Adjusted Total Market Approach

Line No.		Proxy Group of Thirteen Combination Electric and Gas Utilities	
1.	Prospective Yield on Aaa Rated Corporate Bonds (1)	3.41	%
2.	Adjustment to Reflect Yield Spread Between Aaa Rated Corporate Bonds and A2 Rated Public Utility Bonds	0.38	(2)
3.	Adjusted Prospective Yield on A2 Rated Public Utility Bonds	3.79	%
4.	Adjustment to Reflect Bond Rating Difference of Proxy Group	0.08	(3)
5.	Adjusted Prospective Bond Yield	3.87	%
6.	Equity Risk Premium (4)	6.65	
7.	Risk Premium Derived Common Equity Cost Rate	10.52	%

Notes:
(1) Consensus forecast of Moody's Aaa Rated Corporate bonds from Blue Chip Financial Forecasts (see pages 10 and 11 of this Schedule).
(2) The average yield spread of A2 rated public utility bonds over Aaa rated corporate bonds of 0.38% from page 4 of this Schedule.
(3) Adjustment to reflect the A3 Moody's LT issuer rating of the Utility Proxy Group as shown on page 5 of this Exhibit. The 0.08% upward adjustment is derived by taking 1/3 of the spread between A2 and Baa2 Public Utility Bonds (1/3 * 0.25% = 0.08%) as derived from page 4 of this Schedule.
(4) From page 7 of this Schedule.

Duke Energy Kentucky, Inc.
Interest Rates and Bond Spreads for
Moody's Corporate and Public Utility Bonds

Selected Bond Yields - Moody's

	[1] Aaa Rated Corporate Bond	[2] A2 Rated Public Utility Bond	[3] Baa2 Rated Public Utility Bond
Aug-2021	2.55 %	2.95 %	3.19 %
Jul-2021	2.57	2.95	3.20
Jun-2021	2.79	3.16	3.41
Average	2.64 %	3.02 %	3.27 %

Selected Bond Spreads

A2 Rated Public Utility Bonds Over Aaa Rated Corporate Bonds: 0.38 % (1)

Baa2 Rated Public Utility Bonds Over A2 Rated Public Utility Bonds: 0.25 % (2)

Notes:
(1) Column [2] - Column [1].
(2) Column [3] - Column [2].

Source of Information:
Bloomberg Professional Service

Duke Energy Kentucky, Inc.
Comparison of Long-Term Issuer Ratings for
Proxy Group of Thirteen Combination Electric and Gas Utilities

	Moody's		Standard & Poor's	
	Long-Term Issuer Rating		Long-Term Issuer Rating	
	August 2021		August 2021	
Proxy Group of Thirteen Combination Electric and Gas Utilities	Long-Term Issuer Rating (1)	Numerical Weighting (2)	Long-Term Issuer Rating (1)	Numerical Weighting (2)
Ameren Corporation	A3	7.0	BBB+	8.0
Avista Corporation	Baa3	10.0	NR	- -
Black Hills Corporation	A3	7.0	BBB+	8.0
CMS Energy Corporation	Baa1	8.0	A-	7.0
Duke Energy Corporation	A3	7.0	BBB+	8.0
Consolidated Edison, Inc.	Baa1/Baa2	8.5	A-	7.0
Eversource Energy	A3	7.0	A-	7.0
MGE Energy, Inc.	A1	5.0	AA-	4.0
NorthWestern Corporation	Baa2	9.0	BBB	9.0
Public Service Enterprise Group Incorporated	A2	6.0	A-	7.0
Southern Company	A3	7.0	A-	7.0
WEC Energy Group, Inc.	A2	6.0	A-	7.0
Xcel Energy Inc.	A3	7.0	A-	7.0
Average	A3	7.3	A-	7.2

Notes:

(1) Ratings are that of the average of each company's utility operating subsidiaries.
(2) From page 6 of this Schedule.

Source Information: Moody's Investors Service
Standard & Poor's Global Utilities Rating Service

Numerical Assignment for
Moody's and Standard & Poor's Bond Ratings

Moody's Bond Rating	Numerical Bond Weighting	Standard & Poor's Bond Rating
Aaa	1	AAA
Aa1	2	AA+
Aa2	3	AA
Aa3	4	AA-
A1	5	A+
A2	6	A
A3	7	A-
Baa1	8	BBB+
Baa2	9	BBB
Baa3	10	BBB-
Ba1	11	BB+
Ba2	12	BB
Ba3	13	BB-
B1	14	B+
B2	15	B
B3	16	B-

Duke Energy Kentucky, Inc.
Judgment of Equity Risk Premium for
Proxy Group of Thirteen Combination Electric and Gas Utilities

Line No.		Proxy Group of Thirteen Combination Electric and Gas Utilities
1.	Calculated equity risk premium based on the total market using the beta approach (1)	8.55 %
2.	Mean equity risk premium based on a study using the holding period returns of public utilities with A rated bonds (2)	5.62
3.	Predicted Equity Risk Premium Based on Regression Analysis of 1986 Fully-Litigated Natural Gas and Electric Distribution Utility Rate Cases (3)	5.78
4.	Average equity risk premium	6.65 %

Notes: (1) From page 8 of this Schedule.
(2) From page 12 of this Schedule.
(3) From page 13 of this Schedule.

Duke Energy Kentucky, Inc.
Derivation of Equity Risk Premium Based on the Total Market Approach
Using the Beta for the
Proxy Group of Thirteen Combination Electric and Gas Utilities

Line No.	Equity Risk Premium Measure	Proxy Group of Thirteen Combination Electric and Gas Utilities
	Ibbotson-Based Equity Risk Premiums:	
1.	Ibbotson Equity Risk Premium (1)	5.92 %
2.	Regression on Ibbotson Risk Premium Data (2)	8.87
3.	Ibbotson Equity Risk Premium based on PRPM (3)	7.88
4.	Equity Risk Premium Based on Value Line Summary and Index (4)	5.54
5.	Equity Risk Premium Based on Value Line S&P 500 Companies (5)	11.64
6.	Equity Risk Premium Based on Bloomberg S&P 500 Companies (6)	14.76
7.	Conclusion of Equity Risk Premium	9.10 %
8.	Adjusted Beta (7)	0.94
9.	Forecasted Equity Risk Premium	8.55 %

Notes provided on page 9 of this Schedule.

Duke Energy Kentucky, Inc.
Derivation of Equity Risk Premium Based on the Total Market Approach
Using the Beta for the
Proxy Group of Thirteen Combination Electric and Gas Utilities

Notes:

(1) Based on the arithmetic mean historical monthly returns on large company common stocks from Ibbotson® SBBI® 2021 Market Report minus the arithmetic mean monthly yield of Moody's average Aaa and Aa corporate bonds from 1928-2020.

(2) This equity risk premium is based on a regression of the monthly equity risk premiums of large company common stocks relative to Moody's average Aaa and Aa rated corporate bond yields from 1928-2020 referenced in Note 1 above.

(3) The Predictive Risk Premium Model (PRPM) is discussed in the accompanying direct testimony. The Ibbotson equity risk premium based on the PRPM is derived by applying the PRPM to the monthly risk premiums between Ibbotson large company common stock monthly returns and average Aaa and Aa corporate monthly bond yields, from January 1928 through August 2021.

(4) The equity risk premium based on the Value Line Summary and Index is derived by subtracting the average consensus forecast of Aaa corporate bonds of 3.41% (from page 3 of this Exhibit) from the projected 3-5 year total annual market return of 8.95% (described fully in note 1 on page 2 of Schedule DWD-4).

(5) Using data from Value Line for the S&P 500, an expected total return of 15.05% was derived based upon expected dividend yields and long-term earnings growth estimates as a proxy for capital appreciation. Subtracting the average consensus forecast of Aaa corporate bonds of 3.41% results in an expected equity risk premium of 11.64%.

(6) Using data from the Bloomberg Professional Service for the S&P 500, an expected total return of 18.17% was derived based upon expected dividend yields and long-term earnings growth estimates as a proxy for capital appreciation. Subtracting the average consensus forecast of Aaa corporate bonds of 3.41% results in an expected equity risk premium of 14.76%.

(7) Average of mean and median beta from Schedule DWD-4.

Sources of Information:

Stocks, Bonds, Bills, and Inflation - 2021 SBBI Yearbook, John Wiley & Sons, Inc.
Industrial Manual and Mergent Bond Record Monthly Update.
Value Line Summary and Index
Blue Chip Financial Forecasts, September 1, 2021 and June 1, 2021
Bloomberg Professional Service

Long-Range Survey:

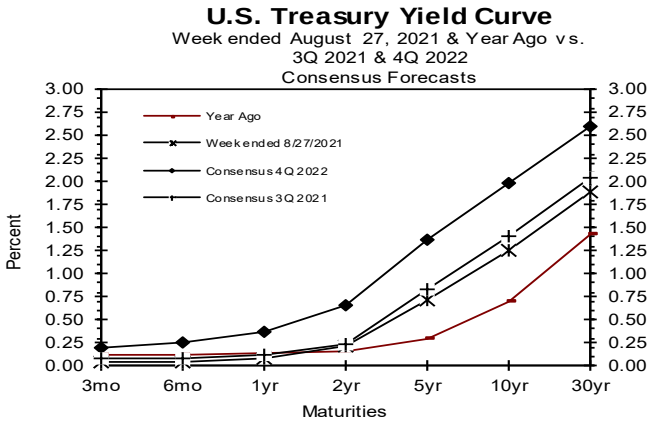
The table below contains the results of our twice-annual long-range CONSENSUS survey. There are also Top 10 and Bottom 10 averages for each variable. Shown are consensus estimates for the years 2022 through 2027 and averages for the five-year periods 2023-2027 and 2028-2032. Apply these projections cautiously. Few if any economic, demographic and political forces can be evaluated accurately over such long time spans.

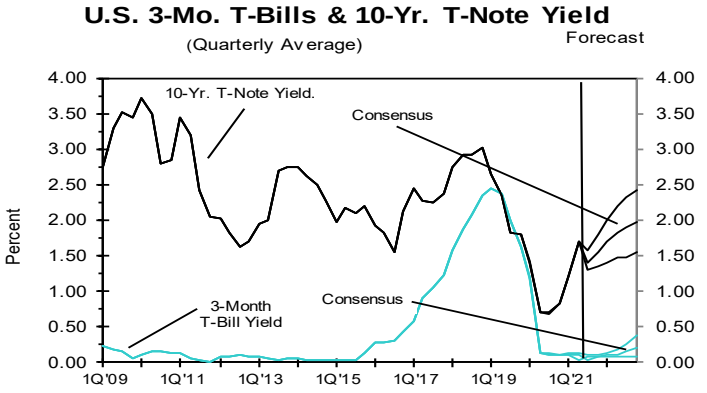
		Average For The Year						Five-Year Averages	
		2022	2023	2024	2025	2026	2027	2023-2027	2028-2032
1. Federal Funds Rate	CONSENSUS	**0.1**	**0.4**	**1.0**	**1.6**	**1.9**	**2.1**	**1.4**	**2.2**
	Top 10 Average	0.2	0.7	1.6	2.4	2.6	2.7	2.0	2.7
	Bottom 10 Average	0.1	0.1	0.5	0.9	1.3	1.5	0.9	1.6
2. Prime Rate	CONSENSUS	**3.3**	**3.5**	**4.2**	**4.7**	**5.0**	**5.2**	**4.5**	**5.2**
	Top 10 Average	3.4	3.8	4.7	5.4	5.7	5.8	5.1	5.8
	Bottom 10 Average	3.2	3.3	3.7	4.0	4.4	4.6	4.0	4.7
3. LIBOR, 3-Mo.	CONSENSUS	**0.4**	**0.6**	**1.3**	**1.8**	**2.1**	**2.3**	**1.6**	**2.4**
	Top 10 Average	0.5	1.0	1.8	2.4	2.7	2.9	2.2	3.0
	Bottom 10 Average	0.2	0.4	0.8	1.2	1.6	1.7	1.1	1.8
4. Commercial Paper, 1-Mo	CONSENSUS	**0.2**	**0.6**	**1.3**	**1.8**	**2.1**	**2.3**	**1.6**	**2.4**
	Top 10 Average	0.4	0.9	1.6	2.3	2.6	2.8	2.0	2.8
	Bottom 10 Average	0.1	0.3	0.9	1.3	1.8	1.9	1.2	2.0
5. Treasury Bill Yield, 3-Mo	CONSENSUS	**0.2**	**0.5**	**1.0**	**1.6**	**1.9**	**2.1**	**1.4**	**2.2**
	Top 10 Average	0.3	0.8	1.6	2.2	2.5	2.7	1.9	2.7
	Bottom 10 Average	0.1	0.2	0.6	0.9	1.3	1.5	0.9	1.6
6. Treasury Bill Yield, 6-Mo	CONSENSUS	**0.2**	**0.5**	**1.1**	**1.6**	**2.0**	**2.2**	**1.5**	**2.3**
	Top 10 Average	0.3	0.8	1.7	2.3	2.6	2.7	2.0	2.8
	Bottom 10 Average	0.1	0.3	0.6	1.0	1.4	1.6	1.0	1.7
7. Treasury Bill Yield, 1-Yr	CONSENSUS	**0.3**	**0.7**	**1.2**	**1.8**	**2.1**	**2.3**	**1.6**	**2.4**
	Top 10 Average	0.5	1.0	1.8	2.4	2.8	2.9	2.2	3.0
	Bottom 10 Average	0.2	0.3	0.7	1.1	1.5	1.7	1.1	1.8
8. Treasury Note Yield, 2-Yr	CONSENSUS	**0.5**	**0.9**	**1.5**	**2.0**	**2.3**	**2.5**	**1.8**	**2.6**
	Top 10 Average	0.7	1.3	2.1	2.7	3.0	3.1	2.5	3.3
	Bottom 10 Average	0.3	0.5	0.9	1.3	1.6	1.8	1.2	1.9
9. Treasury Note Yield, 5-Yr	CONSENSUS	**1.2**	**1.6**	**2.1**	**2.5**	**2.8**	**2.8**	**2.4**	**3.0**
	Top 10 Average	1.5	2.0	2.8	3.3	3.5	3.5	3.0	3.6
	Bottom 10 Average	0.9	1.2	1.5	1.8	2.0	2.2	1.7	2.3
10. Treasury Note Yield, 10-Yr	CONSENSUS	**2.0**	**2.4**	**2.7**	**3.0**	**3.2**	**3.3**	**2.9**	**3.3**
	Top 10 Average	2.3	2.8	3.4	3.8	4.0	3.9	3.6	4.0
	Bottom 10 Average	1.7	1.9	2.1	2.3	2.5	2.6	2.3	2.7
11. Treasury Bond Yield, 30-Yr	CONSENSUS	**2.6**	**2.9**	**3.3**	**3.6**	**3.8**	**3.8**	**3.5**	**3.9**
	Top 10 Average	3.0	3.5	4.0	4.5	4.6	4.5	4.2	4.6
	Bottom 10 Average	2.3	2.4	2.5	2.7	2.9	3.1	2.7	3.2
12. Corporate Aaa Bond Yield	CONSENSUS	**3.3**	**3.7**	**4.1**	**4.5**	**4.7**	**4.7**	**4.3**	**4.8**
	Top 10 Average	3.6	4.2	4.7	5.2	5.4	5.4	5.0	5.4
	Bottom 10 Average	3.1	3.2	3.4	3.7	3.9	4.1	3.7	4.2
13. Corporate Baa Bond Yield	CONSENSUS	**4.3**	**4.7**	**5.1**	**5.4**	**5.6**	**5.7**	**5.3**	**5.8**
	Top 10 Average	4.6	5.1	5.6	6.1	6.3	6.2	5.9	6.4
	Bottom 10 Average	4.0	4.3	4.5	4.7	4.9	5.2	4.7	5.2
14. State & Local Bonds Yield	CONSENSUS	**2.9**	**3.2**	**3.6**	**3.9**	**4.1**	**4.2**	**3.8**	**4.2**
	Top 10 Average	3.2	3.5	4.1	4.5	4.7	4.7	4.3	4.8
	Bottom 10 Average	2.6	2.9	3.1	3.4	3.7	3.7	3.3	3.8
15. Home Mortgage Rate	CONSENSUS	**3.6**	**4.0**	**4.4**	**4.7**	**4.9**	**5.0**	**4.6**	**5.0**
	Top 10 Average	4.0	4.5	5.0	5.5	5.6	5.6	5.2	5.7
	Bottom 10 Average	3.2	3.6	3.8	4.0	4.2	4.3	4.0	4.4
A. Fed's AFE Nominal $ Index	CONSENSUS	**103.7**	**103.7**	**104.0**	**103.7**	**103.6**	**103.3**	**103.7**	**103.1**
	Top 10 Average	105.3	106.0	106.8	107.0	107.3	107.5	106.9	107.9
	Bottom 10 Average	102.0	101.5	101.4	100.8	100.4	100.0	100.8	99.4
		Year-Over-Year, % Change						Five-Year Averages	
		2022	2023	2024	2025	2026	2027	2023-2027	2028-2032
B. Real GDP	CONSENSUS	**4.2**	**2.6**	**2.3**	**2.2**	**2.1**	**2.1**	**2.2**	**2.1**
	Top 10 Average	5.3	3.3	2.7	2.5	2.4	2.4	2.7	2.5
	Bottom 10 Average	2.9	2.0	1.9	1.8	1.8	1.7	1.8	1.7
C. GDP Chained Price Index	CONSENSUS	**2.3**	**2.3**	**2.2**	**2.1**	**2.2**	**2.1**	**2.2**	**2.1**
	Top 10 Average	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.3
	Bottom 10 Average	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
D. Consumer Price Index	CONSENSUS	**2.4**	**2.4**	**2.2**	**2.2**	**2.2**	**2.2**	**2.2**	**2.2**
	Top 10 Average	2.8	2.7	2.5	2.5	2.5	2.4	2.5	2.4
	Bottom 10 Average	2.1	2.1	1.9	1.9	2.0	1.9	2.0	1.9
E. PCE Price Index	CONSENSUS	**2.3**	**2.2**	**2.1**	**2.1**	**2.1**	**2.1**	**2.1**	**2.1**
	Top 10 Average	2.7	2.5	2.4	2.4	2.4	2.4	2.4	2.3
	Bottom 10 Average	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9

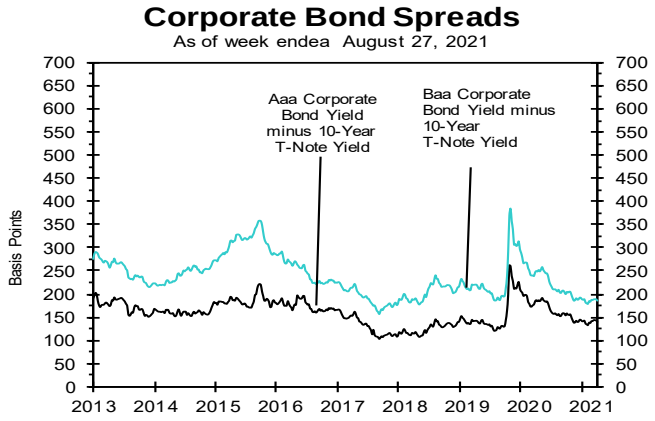
Consensus Forecasts of U.S. Interest Rates and Key Assumptions

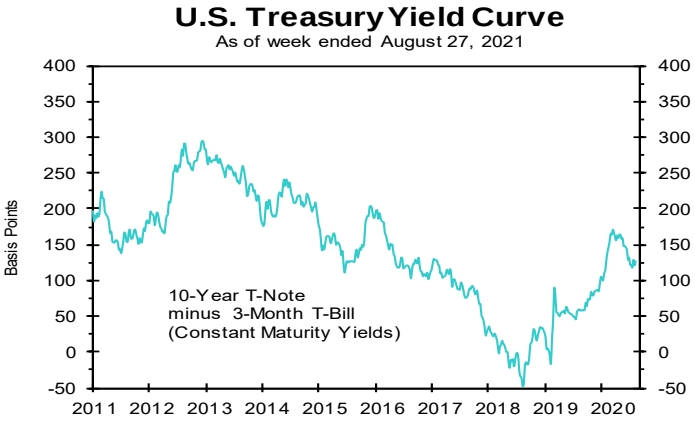
	History								Consensus Forecasts-Quarterly Avg.					
	Average For Week Ending				Average For Month			*Latest Qtr*	3Q	4Q	1Q	2Q	3Q	4Q
Interest Rates	Aug 27	Aug 20	Aug 13	Aug 6	Jul	Jun	May	2Q 2021	2021	2021	2022	2022	2022	2022
Federal Funds Rate	0.09	0.10	0.10	0.09	0.10	0.08	0.06	0.07	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Prime Rate	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	**3.3**	**3.3**	**3.3**	**3.3**	**3.3**	**3.3**
LIBOR, 3-mo.	0.12	0.13	0.12	0.12	0.13	0.13	0.15	0.16	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**
Commercial Paper, 1-mo.	0.05	0.06	0.06	0.05	0.05	0.04	0.10	0.06	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**
Treasury bill, 3-mo.	0.05	0.06	0.06	0.05	0.05	0.04	0.02	0.03	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**
Treasury bill, 6-mo.	0.06	0.05	0.06	0.06	0.05	0.05	0.04	0.04	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.3**
Treasury bill, 1 yr.	0.07	0.07	0.08	0.08	0.08	0.07	0.05	0.06	**0.1**	**0.1**	**0.2**	**0.2**	**0.3**	**0.4**
Treasury note, 2 yr.	0.23	0.22	0.23	0.19	0.22	0.20	0.16	0.17	**0.2**	**0.3**	**0.4**	**0.5**	**0.5**	**0.6**
Treasury note, 5 yr.	0.81	0.78	0.81	0.69	0.76	0.84	0.82	0.84	**0.8**	**0.9**	**1.1**	**1.2**	**1.3**	**1.4**
Treasury note, 10 yr.	1.31	1.26	1.34	1.22	1.32	1.52	1.62	1.59	**1.4**	**1.6**	**1.7**	**1.8**	**1.9**	**2.0**
Treasury note, 30 yr.	1.92	1.90	1.98	1.87	1.94	2.16	2.32	2.26	**2.1**	**2.2**	**2.3**	**2.5**	**2.5**	**2.6**
Corporate Aaa bond	2.72	2.70	2.79	2.67	2.72	2.91	3.06	3.00	**2.7**	**2.9**	**3.0**	**3.1**	**3.2**	**3.3**
Corporate Baa bond	3.17	3.15	3.23	3.11	3.17	3.35	3.52	3.46	**3.4**	**3.7**	**3.9**	**4.0**	**4.1**	**4.2**
State & Local bonds	2.64	2.65	2.65	2.63	2.60	2.64	2.64	2.65	**2.3**	**2.5**	**2.5**	**2.6**	**2.7**	**2.7**
Home mortgage rate	2.87	2.86	2.87	2.77	2.87	2.98	2.96	3.00	**3.0**	**3.1**	**3.2**	**3.3**	**3.5**	**3.5**
	History								Consensus Forecasts-Quarterly					
	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Key Assumptions	2019	2019	2020	2020	2020	2020	2021	2021	2021	2021	2022	2022	2022	2022
Fed's AFE $ Index	110.6	110.5	111.4	112.4	107.3	105.2	103.4	102.9	**105.0**	**105.2**	**105.0**	**104.7**	**104.5**	**104.3**
Real GDP	2.8	1.9	-5.1	-31.2	33.8	4.5	6.3	6.6	**6.4**	**5.4**	**4.1**	**3.4**	**2.9**	**2.4**
GDP Price Index	1.4	1.5	1.6	-1.5	3.6	2.2	4.3	6.1	**4.2**	**2.8**	**2.4**	**2.3**	**2.4**	**2.3**
Consumer Price Index	1.3	2.6	1.0	-3.1	4.7	2.4	3.7	8.4	**5.5**	**2.4**	**2.2**	**2.3**	**2.4**	**2.2**
PCE Price Index	1.1	1.7	1.3	-1.6	3.7	1.5	3.8	6.5	**4.3**	**2.3**	**2.1**	**2.1**	**2.2**	**2.2**

Forecasts for interest rates and the Federal Reserve's Major Currency Index represent averages for the quarter. Forecasts for Real GDP, GDP Price Index, PCE Price Index and Consumer Price Index are seasonally-adjusted annual rates of change (saar). Individual panel members' forecasts are on pages 4 through 9. Historical data: Treasury rates from the Federal Reserve Board's H.15; AAA-AA and A-BBB corporate bond yields from Bank of America-Merrill Lynch and are 15+ years, yield to maturity; State and local bond yields from Bank of America-Merrill Lynch, A-rated, yield to maturity; Mortgage rates from Freddie Mac, 30-year, fixed; LIBOR quotes from Intercontinental Exchange. All interest rate data are sourced from Haver Analytics. Historical data for Fed's Major Currency Index are from FRSR H.10. Historical data for Real GDP, GDP Price Index and PCE Price Index are from the Bureau of Economic Analysis (BEA). Consumer Price Index history is from the Department of Labor's Bureau of Labor Statistics (BLS).







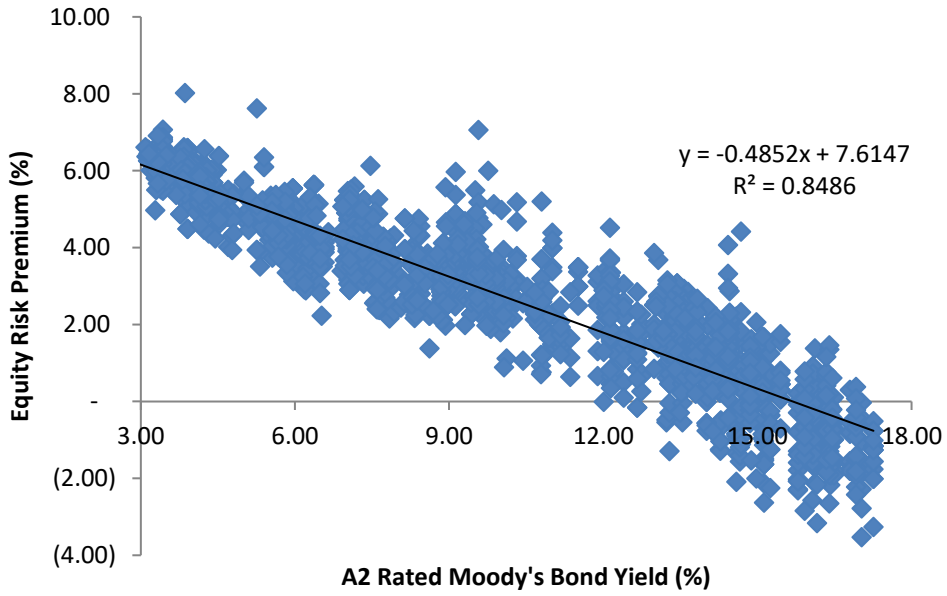


Duke Energy Kentucky, Inc.
Derivation of Mean Equity Risk Premium Based Studies
Using Holding Period Returns and
Projected Market Appreciation of the S&P Utility Index

Line No.		Implied Equity Risk Premium
	Equity Risk Premium based on S&P Utility Index Holding Period Returns (1):	
1.	Historical Equity Risk Premium	4.16 %
2.	Regression of Historical Equity Risk Premium (2)	6.51
3.	Forecasted Equity Risk Premium Based on PRPM (3)	4.94
4.	Forecasted Equity Risk Premium based on Projected Total Return on the S&P Utilities Index (Value Line Data) (4)	7.15
5.	Forecasted Equity Risk Premium based on Projected Total Return on the S&P Utilities Index (Bloomberg Data) (5)	5.32
6.	Average Equity Risk Premium (6)	5.62 %

Notes:
(1) Based on S&P Public Utility Index monthly total returns and Moody's Public Utility Bond average monthly yields from 1928-2020. Holding period returns are calculated based upon income received (dividends and interest) plus the relative change in the market value of a security over a one-year holding period.
(2) This equity risk premium is based on a regression of the monthly equity risk premiums of the S&P Utility Index relative to Moody's A2 rated public utility bond yields from 1928 - 2020 referenced in note 1 above.
(3) The Predictive Risk Premium Model (PRPM) is applied to the risk premium of the monthly total returns of the S&P Utility Index and the monthly yields on Moody's A2 rated public utility bonds from January 1928 - August 2021.
(4) Using data from Value Line for the S&P Utilities Index, an expected return of 10.94% was derived based on expected dividend yields and long-term growth estimates as a proxy for market appreciation. Subtracting the expected A2 rated public utility bond yield of 3.79%, calculated on line 3 of page 3 of this Schedule results in an equity risk premium of 7.15%. (10.94% - 3.79% = 7.15%).
(5) Using data from Bloomberg Professional Service for the S&P Utilities Index, an expected return of 9.11% was derived based on expected dividend yields and long-term growth estimates as a proxy for market appreciation. Subtracting the expected A2 rated public utility bond yield of 3.79%, calculated on line 3 of page 3 of this Schedule results in an equity risk premium of 5.32%. (9.11% - 3.79% = 5.32%)
(6) Average of lines 1 through 5.

Duke Energy Kentucky, Inc.
Prediction of Equity Risk Premiums Relative to
Moody's A2 Rated Utility Bond Yields



Constant	Slope	Prospective A2 Rated Utility Bond (1)	Prospective Equity Risk Premium
7.614683 %	-0.48522	3.79 %	5.78 %

Notes:
(1) From line 3 of page 3 of this Schedule.

Source of Information:
Regulatory Research Associates
Bloomberg Professional Services

Duke Energy Kentucky, Inc.
Indicated Common Equity Cost Rate Through Use
of the Traditional Capital Asset Pricing Model (CAPM) and Empirical Capital Asset Pricing Model (ECAPM)

Proxy Group of Thirteen Combination Electric and Gas Utilities	[1] Value Line Adjusted Beta	[2] Bloomberg Adjusted Beta	[3] Average Beta	[4] Market Risk Premium (1)	[5] Risk-Free Rate (2)	[6] Traditional CAPM Cost Rate	[7] ECAPM Cost Rate	[8] Indicated Common Equity Cost Rate (3)
Ameren Corporation	0.80	0.95	0.88	9.93 %	2.70 %	11.44 %	11.73 %	11.59 %
Avista Corporation	0.95	0.99	0.97	9.93	2.70	12.33	12.41	12.37
Black Hills Corporation	1.00	1.23	1.11	9.93	2.70	13.72	13.45	13.58
CMS Energy Corporation	0.80	0.98	0.89	9.93	2.70	11.54	11.81	11.67
Duke Energy Corporation	0.90	0.98	0.94	9.93	2.70	12.03	12.18	12.11
Consolidated Edison, Inc.	0.75	0.79	0.77	9.93	2.70	10.34	10.92	10.63
Eversource Energy	0.90	1.06	0.98	9.93	2.70	12.43	12.48	12.45
MGE Energy, Inc.	0.75	0.78	0.76	9.93	2.70	10.25	10.84	10.54
NorthWestern Corporation	0.95	1.27	1.11	9.93	2.70	13.72	13.45	13.58
Public Service Enterprise Group Incorporat	0.95	1.09	1.02	9.93	2.70	12.83	12.78	12.80
Southern Company	0.95	1.11	1.03	9.93	2.70	12.93	12.85	12.89
WEC Energy Group, Inc.	0.80	0.98	0.89	9.93	2.70	11.54	11.81	11.67
Xcel Energy Inc.	0.80	0.99	0.89	9.93	2.70	11.54	11.81	11.67
Mean			0.94			12.05 %	12.19 %	12.12 %
Median			0.94			12.03 %	12.18 %	12.11 %
Average of Mean and Median			0.94			12.04 %	12.19 %	12.12 %

Notes on page 2 of this Schedule.

Duke Energy Kentucky, Inc.
Notes to Accompany the Application of the CAPM and ECAPM

Notes:

(1) The market risk premium (MRP) is derived by using six different measures from three sources: Ibbotson, Value Line, and Bloomberg as illustrated below:

Historical Data MRP Estimates:

Measure 1: Ibbotson Arithmetic Mean MRP (1926-2020)

Arithmetic Mean Monthly Returns for Large Stocks 1926-2020:	12.20	%
Arithmetic Mean Income Returns on Long-Term Government Bonds:	5.05	
MRP based on Ibbotson Historical Data:	7.15	%

Measure 2: Application of a Regression Analysis to Ibbotson Historical Data
(1926-2020) 9.57 %

Measure 3: Application of the PRPM to Ibbotson Historical Data:
(January 1926 - August 2021) 8.77 %

Value Line MRP Estimates:

Measure 4: Value Line Projected MRP (Thirteen weeks ending September 03, 2021)

Total projected return on the market 3-5 years hence*:	8.95	%
Projected Risk-Free Rate (see note 2):	2.70	
MRP based on Value Line Summary & Index:	6.25	%

*Forcasted 3-5 year capital appreciation plus expected dividend yield

Measure 5: Value Line Projected Return on the Market based on the S&P 500

Total return on the Market based on the S&P 500:	15.05	%
Projected Risk-Free Rate (see note 2):	2.70	
MRP based on Value Line data	12.35	%

Measure 6: Bloomberg Projected MRP

Total return on the Market based on the S&P 500:	18.17	%
Projected Risk-Free Rate (see note 2):	2.70	
	15.47	%

Average of Value Line, Ibbotson, and Bloomberg MRP: 9.93 %

(2) For reasons explained in the direct testimony, the appropriate risk-free rate for cost of capital purposes is the average forecast of 30 year Treasury Bonds per the consensus of nearly 50 economists reported in Blue Chip Financial Forecasts. (See pages 10 and 11 of Schedule DWD-3.) The projection of the risk-free rate is illustrated below:

Third Quarter 2021	2.10	%
Fourth Quarter 2021	2.20	
First Quarter 2022	2.30	
Second Quarter 2022	2.50	
Third Quarter 2022	2.50	
Fourth Quarter 2022	2.60	
2023-2027	3.50	
2028-2032	3.90	
	2.70	%

(3) Average of Column 6 and Column 7.

Sources of Information:
Value Line Summary and Index
Blue Chip Financial Forecasts, September 1, 2021 and June 1, 2021
Stocks, Bonds, Bills, and Inflation - 2021 SBBI Yearbook, John Wiley & Sons, Inc.
Bloomberg Professional Services

Duke Energy Kentucky, Inc.
Basis of Selection of the Group of Non-Price Regulated Companies
Comparable in Total Risk to the Combination Electric and Gas Utilities Proxy Group

The criteria for selection of the proxy group of forty-three non-price regulated companies was that the non-price regulated companies be domestic and reported in Value Line Investment Survey (Standard Edition).

The Non-Price Regulated Proxy Group were then selected based on the unadjusted beta range of 0.61 – 0.91 and residual standard error of the regression range of 2.6573 – 3.1693 of the Utility Proxy Group.

These ranges are based upon plus or minus two standard deviations of the unadjusted beta and standard error of the regression. Plus or minus two standard deviations captures 95.50% of the distribution of unadjusted betas and residual standard errors of the regression.

The standard deviation of the Combination Electric and Gas Utility Proxy Group's residual standard error of the regression is 0.1280. The standard deviation of the standard error of the regression is calculated as follows:

$$\text{Standard Deviation of the Std. Err. of the Regr.} = \frac{\text{Standard Error of the Regression}}{\sqrt{2N}}$$

where: N = number of observations. Since Value Line betas are derived from weekly price change observations over a period of five years, N = 259

$$\text{Thus, } 0.1280 = \frac{2.9133}{\sqrt{518}} = \frac{2.9133}{22.7596}$$

Source of Information: Value Line, Inc., June 2021
Value Line Investment Survey (Standard Edition)

Duke Energy Kentucky, Inc.
Basis of Selection of Comparable Risk
Domestic Non-Price Regulated Companies

Proxy Group of Thirteen Combination Electric and Gas Utilities	[1] Value Line Adjusted Beta	[2] Unadjusted Beta	[3] Residual Standard Error of the Regression	[4] Standard Deviation of Beta
Ameren Corporation	0.80	0.69	2.6359	0.0658
Avista Corporation	0.95	0.90	3.7652	0.0939
Black Hills Corporation	1.00	0.95	2.8708	0.0716
CMS Energy Corporation	0.80	0.64	2.8457	0.0710
Duke Energy Corporation	0.85	0.77	2.7562	0.0688
Consolidated Edison, Inc.	0.75	0.60	3.2682	0.0815
Eversource Energy	0.90	0.84	3.0312	0.0756
MGE Energy, Inc.	0.75	0.57	2.8206	0.0704
NorthWestern Corporation	0.95	0.89	2.8009	0.0699
Public Service Enterprise Group Incorporate	0.90	0.84	2.3742	0.0592
Southern Company	0.95	0.89	2.7077	0.0676
WEC Energy Group, Inc.	0.80	0.65	3.2683	0.0815
Xcel Energy Inc.	0.80	0.66	2.7280	0.0681
Average	0.86	0.76	2.9133	0.0727

Beta Range (+/- 2 std. Devs. of Beta)	0.61	0.91
2 std. Devs. of Beta	0.15	
Residual Std. Err. Range (+/- 2 std. Devs. of the Residual Std. Err.)	2.6573	3.1693
Std. dev. of the Res. Std. Err.	0.1280	
2 std. devs. of the Res. Std. Err.	0.2560	

Source of Information: Valueline Proprietary Database, June 2021

Duke Energy Kentucky, Inc.
Proxy Group of Non-Price Regulated Companies
Comparable in Total Risk to the
Proxy Group of Thirteen Combination Electric and Gas Utilities

Proxy Group of Forty-Three Non-Price Regulated Companies	[1] VL Adjusted Beta	[2] Unadjusted Beta	[3] Residual Standard Error of the Regression	[4] Standard Deviation of Beta
Abbott Labs.	0.12	0.84	0.6078	3.4583
Analog Devices	0.09	1.02	0.6219	3.4727
Assurant Inc.	0.12	1.01	0.5966	3.5125
Smith (A.O.)	0.10	1.00	0.5685	3.2989
Becton, Dickinson	0.08	0.57	0.4746	3.2851
Brown-Forman 'B'	0.13	0.97	0.5985	3.3705
Broadridge Fin'l	0.09	0.83	0.5298	3.2593
CACI Int'l	0.14	1.00	0.5966	3.7223
Cerner Corp.	0.09	0.89	0.6100	3.3666
Chemed Corp.	0.09	0.92	0.5507	3.1865
Cooper Cos.	0.15	0.94	0.6403	3.4996
CSW Industrials	0.12	1.05	0.5893	3.4707
Quest Diagnostics	0.07	0.97	0.5090	3.3960
Lauder (Estee)	0.11	1.01	0.6233	3.6454
Exponent, Inc.	0.12	0.96	0.5662	3.5846
Hershey Co.	0.06	0.85	0.5666	3.2380
Ingredion Inc.	0.08	0.93	0.5910	3.5598
Hunt (J.B.)	0.08	0.94	0.6043	3.5954
J&J Snack Foods	0.10	0.81	0.5891	3.6511
Henry (Jack) & Assoc	0.10	0.88	0.5307	3.3357
ManTech Int'l 'A'	0.09	1.13	0.5271	3.6422
McCormick & Co.	0.06	0.70	0.5218	3.2606
Monster Beverage	0.12	0.97	0.5310	3.5565
Altria Group	0.06	0.91	0.5877	3.6422
MSCI Inc.	0.16	0.93	0.5895	3.6748
Motorola Solutions	0.07	0.96	0.5881	3.3703
Northrop Grumman	0.07	0.79	0.5285	3.3936
Old Dominion Freight	0.10	0.98	0.5826	3.6733
PerkinElmer Inc.	0.11	0.80	0.5601	3.6651
Post Holdings	0.10	0.90	0.5952	3.6615
RLI Corp.	0.12	0.91	0.4840	3.4699
Rollins, Inc.	0.12	0.69	0.5234	3.4648
Sherwin-Williams	0.11	0.99	0.6230	3.3939
Selective Ins. Group	0.10	0.99	0.5556	3.5914
Sirius XM Holdings	0.32	1.12	0.6107	3.5984
Synopsys, Inc.	0.13	1.02	0.6187	3.6759
Texas Instruments	0.09	0.89	0.5790	3.2727
AMERCO	0.14	1.08	0.6391	3.4618
United Parcel Serv.	0.11	0.83	0.4686	3.4044
VeriSign Inc.	0.09	0.77	0.5940	3.3146
Waters Corp.	0.06	0.85	0.6126	3.5251
Watsco, Inc.	0.08	0.80	0.5551	3.2888
Western Union	0.06	1.07	0.5200	3.1795
Average	0.10	0.92	0.5700	3.4700
Proxy Group of Thirteen Combination Electric and Gas Utilities	0.86	0.76	2.9133	0.0727

Source of Information: Valueline Proprietary Database, June 2021

Duke Energy Kentucky, Inc.
Summary of Cost of Equity Models Applied to
Proxy Group of Forty-Three Non-Price Regulated Companies
Comparable in Total Risk to the
Proxy Group of Thirteen Combination Electric and Gas Utilities

Principal Methods		Proxy Group of Forty-Three Non-Price Regulated Companies	
Discounted Cash Flow Model (DCF) (1)		12.48	%
Risk Premium Model (RPM) (2)		12.46	
Capital Asset Pricing Model (CAPM) (3)		11.86	
	Mean	12.27	%
	Median	12.46	%
	Average of Mean and Median	12.37	%

Notes:
(1) From page 2 of this Schedule.
(2) From page 3 of this Schedule.
(3) From page 6 of this Schedule.

Duke Energy Kentucky, Inc.
DCF Results for the Proxy Group of Non-Price-Regulated Companies Comparable in Total Risk to the
Proxy Group of Thirteen Combination Electric and Gas Utilities

Proxy Group of Forty-Three Non-Price Regulated Companies	[1] Average Dividend Yield	[2] Value Line Projected Five Year Growth in EPS	[3] Zack's Five Year Projected Growth Rate in EPS	[4] Bloomberg's Five Year Projected Growth Rate in EPS	[5] Yahoo! Finance Projected Five Year Growth in EPS	[6] Average Projected Five Year Growth Rate in EPS	[7] Adjusted Dividend Yield	[8] Indicated Common Equity Cost Rate (1)
Abbott Labs.	1.52 %	11.50 %	11.90 %	11.47 %	12.53 %	11.85 %	1.61 %	13.46 %
Analog Devices	1.66	8.50	12.30	12.80	13.52	11.78	1.76	13.54
Assurant Inc.	1.66	11.50	17.90	17.92	17.90	16.31	1.80	18.11
Smith (A.O.)	1.48	9.50	9.00	10.00	8.00	9.13	1.55	10.68
Becton, Dickinson	1.34	7.50	8.30	7.74	10.10	8.41	1.40	9.81
Brown-Forman 'B'	0.99	13.00	NA	NA	8.44	10.72	1.04	11.76
Broadridge Fin'l	1.52	8.50	NA	11.90	11.80	10.73	1.60	12.33
CACI Int'l	-	13.50	5.40	3.23	1.44	5.89	-	NA
Cerner Corp.	1.11	9.00	12.30	7.89	11.81	10.25	1.17	11.42
Chemed Corp.	0.30	9.00	7.50	7.54	7.55	7.90	0.31	8.21
Cooper Cos.	0.01	14.50	10.00	11.07	10.00	11.39	0.01	11.40
CSW Industrials	0.49	11.50	NA	15.00	12.00	12.83	0.52	13.35
Quest Diagnostics	1.78	7.00	26.50	(4.79)	(8.60)	16.75	1.93	18.68
Lauder (Estee)	0.66	11.00	11.30	15.00	18.71	14.00	0.71	14.71
Exponent, Inc.	0.80	12.00	NA	NA	15.00	13.50	0.85	14.35
Hershey Co.	2.04	5.50	7.70	7.60	8.82	7.41	2.12	9.53
Ingredion Inc.	2.87	7.50	NA	10.70	1.90	6.70	2.97	9.67
Hunt (J.B.)	0.72	8.00	15.00	14.65	20.50	14.54	0.77	15.31
J&J Snack Foods	1.50	10.00	NA	NA	6.00	8.00	1.56	9.56
Henry (Jack) & Assoc	1.08	9.50	11.00	12.47	9.64	10.65	1.14	11.79
ManTech Int'l 'A'	1.78	9.00	5.10	5.53	5.38	6.25	1.84	8.09
McCormick & Co.	1.57	6.00	6.80	6.35	6.50	6.41	1.62	8.03
Monster Beverage	-	11.50	14.70	12.17	14.85	13.31	-	NA
Altria Group	7.52	6.00	4.00	4.25	4.67	4.73	7.70	12.43
MSCI Inc.	0.73	16.00	NA	13.30	17.79	15.70	0.79	16.49
Motorola Solutions	1.27	7.00	9.00	12.40	13.73	10.53	1.34	11.87
Northrop Grumman	1.72	7.00	9.00	5.29	6.66	6.99	1.78	8.77
Old Dominion Freight	0.30	9.50	22.70	20.88	22.70	18.94	0.33	19.27
PerkinElmer Inc.	0.17	11.00	37.90	(3.57)	37.90	28.93	0.19	29.12
Post Holdings	-	9.50	NA	21.70	28.20	19.80	-	NA
RLI Corp.	0.94	12.00	NA	NA	9.80	10.90	0.99	11.89
Rollins, Inc.	0.88	11.50	NA	NA	8.20	9.85	0.92	10.77
Sherwin-Williams	0.77	10.50	12.60	1.80	11.87	9.19	0.81	10.00
Selective Ins. Group	1.25	9.50	12.40	12.44	10.00	11.09	1.32	12.41
Sirius XM Holdings	0.91	31.50	12.20	28.98	10.05	20.68	1.00	21.68
Synopsys, Inc.	-	13.00	16.00	15.89	16.00	15.22	-	NA
Texas Instruments	2.16	8.50	9.30	10.60	10.00	9.60	2.26	11.86
AMERCO	-	13.50	NA	NA	15.00	14.25	-	NA
United Parcel Serv.	2.02	10.50	11.70	14.39	15.89	13.12	2.15	15.27
VeriSign Inc.	-	8.50	NA	NA	8.00	8.25	-	NA
Waters Corp.	-	6.00	9.40	10.76	9.30	8.86	-	NA
Watsco, Inc.	2.76	8.00	NA	NA	15.00	11.50	2.92	14.42
Western Union	4.09	6.00	NA	3.35	9.19	6.18	4.22	10.40
							Mean	13.07 %
							Median	11.88 %
							Average of Mean and Median	12.48 %

NA= Not Available
NMF= Not Meaningful Figure

(1) The application of the DCF model to the domestic, non-price regulated comparable risk companies is identical to the application of the DCF to the Utility Proxy Group. The dividend yield is derived by using the 60 day average price and the spot indicated dividend as of August 31, 2021. The dividend yield is then adjusted by 1/2 the average projected growth rate in EPS, which is calculated by averaging the 5 year projected growth in EPS provided by Value Line, www.zacks.com, Bloomberg Professional Services, and www.yahoo.com (excluding any negative growth rates) and then adding that growth rate to the adjusted dividend yield.

Source of Information:
Value Line Investment Survey
www.zacks.com Downloaded on 08/31/2021
www.yahoo.com Downloaded on 08/31/2021
Bloomberg Professional Services

Duke Energy Kentucky, Inc.
Indicated Common Equity Cost Rate
Through Use of a Risk Premium Model
Using an Adjusted Total Market Approach

Line No.		Proxy Group of Forty-Three Non-Price Regulated Companies
1.	Prospective Yield on Baa2 Rated Corporate Bonds (1)	4.30 %
2.	Adjustment to Reflect Proxy Group Bond Rating (2)	(0.12)
3.	Prospective Bond Rating	4.18
4.	Equity Risk Premium (3)	8.28
5.	Risk Premium Derived Common Equity Cost Rate	12.46 %

Notes: (1) Average forecast of Baa2 corporate bonds based upon the consensus of nearly 50 economists reported in Blue Chip Financial Forecasts dated September 1, 2021 and June 1, 2021 (see pages 10 and 11 of Schedule DWD-3). The estimates are detailed below.

Third Quarter 2021	3.40 %
Fourth Quarter 2021	3.70
First Quarter 2022	3.90
Second Quarter 2022	4.00
Third Quarter 2022	4.10
Fourth Quarter 2022	4.20
2023-2027	5.30
2028-2032	5.80
Average	4.30 %

(2) To reflect the Baa1 average rating of the non-utility proxy group, the prosepctive yield on Baa corporate bonds must be adjusted downward by 1/3 of the spread between A2 and Baa2 corporate bond yields as shown below:

	A2 Corp. Bond Yield	Baa2 Corp. Bond Yield	Spread
Aug-2021	2.89 %	3.24 %	0.35 %
Jul-2021	2.89	3.24	0.35
Jun-2021	3.10	3.45	0.35
	Average yield spread		0.35 %
		1/3 of spread	0.12 %

(3) From page 5 of this Schedule.

Duke Energy Kentucky, Inc.
Comparison of Long-Term Issuer Ratings for the
Proxy Group of Forty-Three Non-Price Regulated Companies of Comparable risk to the
Proxy Group of Thirteen Combination Electric and Gas Utilities

	Moody's Long-Term Issuer Rating August 2021		Standard & Poor's Long-Term Issuer Rating August 2021	
Proxy Group of Forty-Three Non-Price Regulated Companies	Long-Term Issuer Rating	Numerical Weighting (1)	Long-Term Issuer Rating	Numerical Weighting (1)
Abbott Labs.	A2	6.0	A+	5.0
Analog Devices	Baa1	8.0	BBB	9.0
Assurant Inc.	Baa3	10.0	BBB	9.0
Smith (A.O.)	NA	--	NA	--
Becton, Dickinson	Baa3	10.0	BBB	9.0
Brown-Forman 'B'	A1	5.0	A-	7.0
Broadridge Fin'l	Baa1	8.0	BBB+	8.0
CACI Int'l	NA	--	BB+	11.0
Cerner Corp.	NA	--	NA	--
Chemed Corp.	WR	--	NR	--
Cooper Cos.	WR	--	NR	--
CSW Industrials	NA	--	NA	--
Quest Diagnostics	Baa2	9.0	BBB+	8.0
Lauder (Estee)	A1	5.0	A+	5.0
Exponent, Inc.	NA	--	NA	--
Hershey Co.	A1	5.0	A	6.0
Ingredion Inc.	Baa1	8.0	BBB	9.0
Hunt (J.B.)	Baa1	8.0	BBB+	8.0
J&J Snack Foods	NA	--	NA	--
Henry (Jack) & Assoc	NA	--	NA	--
ManTech Int'l 'A'	WR	--	BB+	11.0
McCormick & Co.	Baa2	9.0	BBB	9.0
Monster Beverage	NA	--	NA	--
Altria Group	A3	7.0	BBB	9.0
MSCI Inc.	Ba1	11.0	BB+	11.0
Motorola Solutions	Baa3	10.0	BBB-	10.0
Northrop Grumman	Baa1	8.0	BBB+	8.0
Old Dominion Freight	NA	--	NA	--
PerkinElmer Inc.	Baa3	10.0	BBB	9.0
Post Holdings	B2	15.0	B+	14.0
RLI Corp.	Baa2	9.0	BBB	9.0
Rollins, Inc.	NA	--	NA	--
Sherwin-Williams	Baa2	9.0	BBB	9.0
Selective Ins. Group	Baa2	9.0	BBB	9.0
Sirius XM Holdings	NA	--	BB	12.0
Synopsys, Inc.	NA	--	NA	--
Texas Instruments	A1	5.0	A+	5.0
AMERCO	WR	--	NR	--
United Parcel Serv.	A2	6.0	A-	7.0
VeriSign Inc.	Baa3	10.0	BBB	9.0
Waters Corp.	NA	--	NA	--
Watsco, Inc.	NA	--	NA	--
Western Union	Baa2	9.0	BBB	9.0
Average	Baa1	8.4	BBB	8.7

Notes:
(1) From page 6 of Schedule DWD-3.

Source of Information:
Bloomberg Professional Services

Duke Energy Kentucky, Inc.
Derivation of Equity Risk Premium Based on the Total Market Approach
Using the Beta for
Proxy Group of Forty-Three Non-Price Regulated Companies of Comparable risk to the
Proxy Group of Thirteen Combination Electric and Gas Utilities

Line No.	Equity Risk Premium Measure	Proxy Group of Forty-Three Non-Price Regulated Companies
	Ibbotson-Based Equity Risk Premiums:	
1.	Ibbotson Equity Risk Premium (1)	5.92 %
2.	Regression on Ibbotson Risk Premium Data (2)	8.87
3.	Ibbotson Equity Risk Premium based on PRPM (3)	7.88
4.	Equity Risk Premium Based on Value Line Summary and Index (4)	5.54
5	Equity Risk Premium Based on Value Line S&P 500 Companies (5)	11.64
6.	Equity Risk Premium Based on Bloomberg S&P 500 Companies (6)	14.76
7.	Conclusion of Equity Risk Premium	9.10 %
8.	Adjusted Beta (7)	0.91
9.	Forecasted Equity Risk Premium	8.28 %

Notes:
(1) From note 1 of page 9 of Schedule DWD-3.
(2) From note 2 of page 9 of Schedule DWD-3.
(3) From note 3 of page 9 of Schedule DWD-3.
(4) From note 4 of page 9 of Schedule DWD-3.
(5) From note 5 of page 9 of Schedule DWD-3.
(6) From note 6 of page 9 of Schedule DWD-3.
(7) Average of mean and median beta from page 6 of this Schedule.

Sources of Information:
Stocks, Bonds, Bills, and Inflation - 2021 SBBI Yearbook, John Wiley & Sons, Inc.
Value Line Summary and Index
Blue Chip Financial Forecasts, September 1, 2021 and June 1, 2021
Bloomberg Professional Services

Duke Energy Kentucky, Inc.

Traditional CAPM and ECAPM Results for the Proxy Group of Non-Price-Regulated Companies Comparable in Total Risk to the Proxy Group of Thirteen Combination Electric and Gas Utilities

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
Proxy Group of Forty-Three Non-Price Regulated Companies	Value Line Adjusted Beta	Bloomberg Beta	Average Beta	Market Risk Premium (1)	Risk-Free Rate (2)	Traditional CAPM Cost Rate	ECAPM Cost Rate	Indicated Common Equity Cost Rate (3)
Abbott Labs.	0.90	0.84	0.87	9.93 %	2.70 %	11.34 %	11.66 %	11.50 %
Analog Devices	0.95	1.02	0.98	9.93	2.70	12.43	12.48	12.45
Assurant Inc.	0.90	1.01	0.95	9.93	2.70	12.13	12.26	12.19
Smith (A.O.)	0.85	1.00	0.93	9.93	2.70	11.93	12.11	12.02
Becton, Dickinson	0.75	0.57	0.66	9.93	2.70	9.25	10.10	9.67
Brown-Forman 'B'	0.90	0.97	0.93	9.93	2.70	11.93	12.11	12.02
Broadridge Fin'l	0.85	0.83	0.84	9.93	2.70	11.04	11.44	11.24
CACI Int'l	0.95	1.00	0.98	9.93	2.70	12.43	12.48	12.45
Cerner Corp.	0.90	0.89	0.89	9.93	2.70	11.54	11.81	11.67
Chemed Corp.	0.85	0.92	0.89	9.93	2.70	11.54	11.81	11.67
Cooper Cos.	0.95	0.94	0.95	9.93	2.70	12.13	12.26	12.19
CSW Industrials	0.90	1.05	0.98	9.93	2.70	12.43	12.48	12.45
Quest Diagnostics	0.80	0.97	0.88	9.93	2.70	11.44	11.74	11.59
Lauder (Estee)	0.95	1.01	0.98	9.93	2.70	12.43	12.48	12.45
Exponent, Inc.	0.90	0.96	0.93	9.93	2.70	11.93	12.11	12.02
Hershey Co.	0.85	0.85	0.85	9.93	2.70	11.14	11.51	11.33
Ingredion Inc.	0.90	0.93	0.91	9.93	2.70	11.73	11.96	11.85
Hunt (J.B.)	0.95	0.94	0.94	9.93	2.70	12.03	12.18	12.11
J&J Snack Foods	0.95	0.81	0.88	9.93	2.70	11.44	11.74	11.59
Henry (Jack) & Assoc	0.85	0.88	0.87	9.93	2.70	11.34	11.66	11.50
ManTech Int'l 'A'	0.85	1.13	0.99	9.93	2.70	12.53	12.55	12.54
McCormick & Co.	0.80	0.70	0.75	9.93	2.70	10.15	10.77	10.46
Monster Beverage	0.85	0.97	0.91	9.93	2.70	11.73	11.96	11.85
Altria Group	0.95	0.91	0.93	9.93	2.70	11.93	12.11	12.02
MSCI Inc.	0.95	0.93	0.94	9.93	2.70	12.03	12.18	12.11
Motorola Solutions	0.90	0.96	0.93	9.93	2.70	11.93	12.11	12.02
Northrop Grumman	0.85	0.79	0.82	9.93	2.70	10.84	11.29	11.06
Old Dominion Freight	0.90	0.98	0.94	9.93	2.70	12.03	12.18	12.11
PerkinElmer Inc.	0.90	0.80	0.85	9.93	2.70	11.14	11.51	11.33
Post Holdings	0.95	0.90	0.92	9.93	2.70	11.83	12.03	11.93
RLI Corp.	0.80	0.91	0.85	9.93	2.70	11.14	11.51	11.33
Rollins, Inc.	0.85	0.69	0.77	9.93	2.70	10.34	10.92	10.63
Sherwin-Williams	0.95	0.99	0.97	9.93	2.70	12.33	12.41	12.37
Selective Ins. Group	0.90	0.99	0.94	9.93	2.70	12.03	12.18	12.11
Sirius XM Holdings	0.95	1.12	1.04	9.93	2.70	13.03	12.93	12.98
Synopsys, Inc.	0.95	1.02	0.98	9.93	2.70	12.43	12.48	12.45
Texas Instruments	0.85	0.89	0.87	9.93	2.70	11.34	11.66	11.50
AMERCO	0.95	1.08	1.01	9.93	2.70	12.73	12.70	12.72
United Parcel Serv.	0.80	0.83	0.81	9.93	2.70	10.74	11.21	10.98
VeriSign Inc.	0.90	0.77	0.84	9.93	2.70	11.04	11.44	11.24
Waters Corp.	0.95	0.85	0.90	9.93	2.70	11.64	11.88	11.76
Watsco, Inc.	0.85	0.80	0.83	9.93	2.70	10.94	11.36	11.15
Western Union	0.80	1.07	0.93	9.93	2.70	11.93	12.11	12.02
		Mean	0.90			11.66 %	11.90 %	11.78 %
		Median	0.92			11.83 %	12.03 %	11.93 %
		Average of Mean and Median	0.91			11.75 %	11.97 %	11.86 %

Notes:

(1) From note 1 of page 2 of Schedule DWD-4.

(2) From note 2 of page 2 of Schedule DWD-4.

(3) Average of CAPM and ECAPM cost rates.

Duke Energy Kentucky, Inc.
Derivation of Investment Risk Adjustment Based upon
Ibbotson Associates' Size Premia for the Decile Portfolios of the NYSE/AMEX/NASDAQ

Line No.		[1] Market Capitalization on August 31, 2021 (1) (millions)		[2] Applicable Decile of the NYSE/AMEX/ NASDAQ (2)	[3] Applicable Size Premium (3)	[4] Spread from Applicable Size Premium (4)
1.	Duke Energy Kentucky, Inc.	$ 1,564.533		7	1.54%	
2.	Proxy Group of Thirteen Combination Electric and Gas Utilities	$ 26,662.656	17.0 x	2	0.49%	1.05%
			[A]	[B]	[C]	[D]

	Decile	Market Capitalization of Smallest Company (millions)	Market Capitalization of Largest Company (millions)	Size Premium (Return in Excess of CAPM)*
Largest	1	$ 29,025.803	$ 1,966,078.882	-0.22%
	2	13,178.743	28,808.073	0.49%
	3	6,743.361	13,177.828	0.71%
	4	3,861.858	6,710.676	0.75%
	5	2,445.693	3,836.536	1.09%
	6	1,591.865	2,444.745	1.37%
	7	911.586	1,591.765	1.54%
	8	451.955	911.103	1.46%
	9	190.019	451.800	2.29%
Smallest	10	2.194	189.831	5.01%

*From 2021 Duff & Phelps Cost of Capital Navigator

Notes:

(1) From page 2 of this Schedule.
(2) Gleaned from Columns [B] and [C] on the bottom of this page. The appropriate decile (Column [A]) corresponds to the market capitalization of the proxy group, which is found in Column [1].
(3) Corresponding risk premium to the decile is provided in Column [D] on the bottom of this page.
(4) Line No. 1 Column [3] – Line No. 2 Column [3]. For example, the 1.05% in Column [4], Line No. 2 is derived as follows 1.05% = 1.54% - 0.49%.

Duke Energy Kentucky, Inc.
Market Capitalization of Duke Energy Kentucky, Inc. and the
Proxy Group of Thirteen Combination Electric and Gas Utilities

Company	Exchange	[1] Total Common Equity at Fiscal Year End 2020 (millions)	[2] Closing Stock Market Price on August 31, 2021	[3] Market-to-Book Ratio on August 31, 2021 (1)	[4] Market Capitalization on August 31, 2021 (2) (millions)
Duke Energy Kentucky, Inc.		718.236 (3)	NA		
Based upon Proxy Group of Thirteen Combination Electric and Gas Utilities				217.8 (4)	$ 1,564.533 (5)
Proxy Group of Thirteen Combination Electric and Gas Utilities					
Ameren Corporation	NYSE			241.1 %	$ 22,404.565
Avista Corporation	NYSE			140.9	2,915.597
Black Hills Corporation	NYSE			167.9	4,464.568
CMS Energy Corporation	NYSE			320.5	18,575.526
Duke Energy Corporation	NYSE			174.3	80,483.543
Consolidated Edison, Inc.	NYSE			134.9	26,662.656
Eversource Energy	NYSE			217.8	31,178.754
MGE Energy, Inc.	NASDAQ			289.2	2,912.598
NorthWestern Corporation	NASDAQ			150.6	3,279.294
Public Service Enterprise Group Incorporat	NYSE			203.0	32,326.597
Southern Company	NYSE			246.9	69,651.540
WEC Energy Group, Inc.	NYSE			275.2	29,802.256
Xcel Energy Inc.	NASDAQ			250.2	37,017.520
Median				217.830 %	26,662.656

NA= Not Available

Notes: (1) Source: Bloomberg Professional Services
(2) Source: Bloomberg Professional Services
(3) Requested rate base multiplied by the requested common equity ratio.
(4) The market-to-book ratio of Duke Energy Kentucky, Inc. on August 31, 2021 is assumed to be equal to the market-to-book ratio of Proxy Group of Thirteen Combination Electric and Gas Utilities on August 31, 2021 as appropriate.
(5) Column [1] multiplied by Column [3].

Source of Information: Bloomberg Professional
yahoo.finance.com

Duke Energy Kentucky, Inc.
Derivation of the Flotation Cost Adjustment to the Cost of Common Equity

Equity Issuances since 2010

Date of Offering	Transaction (1)	[Column 1] Shares Issued	[Column 2] Market Price per Share	[Column 3] Average Offering Price per Share	[Column 4] Market Pressure (2)	[Column 5] Total Offering Expense per Share	[Column 6] Net Proceeds per Share (3)	[Column 7] Gross Equity Issue before Costs (4)	[Column 8] Total Net Proceeds (5)	[Column 9] Total Flotation Costs (6)	[Column 10] Flotation Cost Percentage (7)
11/18/19	Equity Offering	28,750,000	$ 88.65	$ 85.99	$ 2.66	$ 0.021	$ 85.9694	$ 2,548,687,500	$ 2,471,620,500	$ 77,067,000	3.02%
03/06/18	Equity Offering	21,275,000	$ 75.86	$ 74.07	$ 1.79	$ 0.021	$ 74.0508	$ 1,613,921,500	$ 1,575,431,800	$ 38,489,700	2.38%
03/01/16	Equity Offering	10,637,500	$ 73.35	$ 69.84	$ 3.51	$ 0.038	$ 69.8024	$ 780,260,625	$ 742,523,000	$ 37,737,625	4.84%
								$ 4,942,869,625	$ 4,789,575,300	$ 153,294,325	3.10%

Flotation Cost Adjustment

	Average Dividend Yield	Average Projected EPS Growth Rate	Adjusted Dividend Yield	Average DCF Cost Rate Unadjusted for Flotation (8)	DCF Cost Rate Adjusted for Flotation (9)	Flotation Cost Adjustment (10)
Proxy Group of Thirteen Combination Electric and Gas Utilities	3.26 %	5.43 %	3.35 %	8.78 %	8.89 %	0.11 %

See page 2 of this Schedule for notes.

Source of Information: Company SEC filings

KyPSC Case No. 2021-00190
STAFF-DR-04-006 Attachment 1
Schedule 8
Page 1 of 2

Duke Energy Kentucky, Inc.
Notes to Accompany the
Derivation of the Flotation Cost Adjustment to the Cost of Common Equity

(1) S&P Global Market Intelligence.

(2) Column 2 – Column 3.

(3) Column 2 – the sum of columns 4 and 5.

(4) Column 1 * Column 2.

(5) Column 1 * Column 6.

(6) Column 1 * (the sum of columns 4 and 5).

(7) (Column 7 – Column 8) divided by Column 7.

(8) Using the average growth rate from page 2 of this Schedule.

(9) Adjustment for flotation costs based on adjusting the average DCF constant growth cost rate in accordance with the following:

$$K = \frac{D(1+0.5g)}{P(1-F)} + g,$$

where g is the growth factor and F is the percentage of flotation costs.

(10) Flotation cost adjustment of 0.11% equals the difference between the flotation adjusted average DCF cost rate of 8.89% and the unadjusted average DCF cost rate of 8.78% of the Utility Proxy Group.

Source of Information:

S&P Global Market Intelligence

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S&P 500	Dow 30	Nasdaq	Russell 2000
4,520.31	35,347.10	15,217.74	2,267.44
-8.48 (-0.19%)	-52.74 (-0.15%)	-48.15 (-0.32%)	+1.45 (+0.06%)

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NYSE - Nasdaq Real Time Price. Currency in USD

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88.67 +0.18 (+0.20%)

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Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	12	10	16	16
Avg. Estimate	0.78	1.61	3.77	4.04
Low Estimate	0.74	1.53	3.73	3.99
High Estimate	0.82	1.79	3.83	4.08
Year Ago EPS	0.98	1.47	3.5	3.77

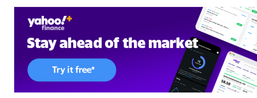
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	4	4	11	11
Avg. Estimate	1.43B	1.76B	6.15B	6.41B
Low Estimate	1.38B	1.72B	6B	6.18B
High Estimate	1.51B	1.84B	6.28B	6.75B
Year Ago Sales	N/A	1.63B	5.79B	6.15B
Sales Growth (year/est)	N/A	8.10%	6.10%	4.30%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.87	1.47	0.42	0.74
EPS Actual	0.98	1.47	0.46	0.91
Difference	0.11	0	0.04	0.17
Surprise %	12.60%	0.00%	9.50%	23.00%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.78	1.61	3.77	4.04
7 Days Ago	0.78	1.61	3.77	4.04
30 Days Ago	0.79	1.59	3.77	4.04
60 Days Ago	0.88	1.54	3.77	4.04
90 Days Ago	0.9	1.53	3.77	4.04

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	1	1
Up Last 30 Days	1	1	2	3
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	1	2	1	1

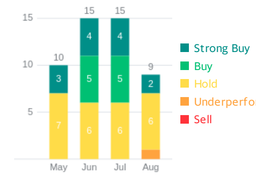
Growth Estimates	AEE	Industry	Sector(s)	S&P 500
Current Qtr.	-20.40%	N/A	N/A	N/A
Next Qtr.	9.50%	N/A	N/A	N/A
Current Year	7.70%	N/A	N/A	N/A
Next Year	7.20%	N/A	N/A	N/A
Next 5 Years (per annum)	7.70%	N/A	N/A	N/A
Past 5 Years (per annum)	8.24%	N/A	N/A	N/A



People Also Watch

Symbol	Last Price	Change	% Change
DTE DTE Energy Company	120.50	+0.10	+0.09%
AJG Arthur J. Gallagher & Co.	143.82	+0.37	+0.26%
CMS CMS Energy Corporation	64.66	+0.18	+0.28%
ETR Entergy Corporation	109.76	+0.40	+0.37%
ABC AmerisourceBergen Corporation	122.06	+2.54	+2.13%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (12)

Upgrades & Downgrades

Maintains	Mizuho: to Neutral	8/25/2021
Maintains	BMO Capital: to Outperform	8/24/2021
Maintains	Morgan Stanley: to Equal-Weight	8/19/2021
Maintains	Morgan Stanley: to Equal-Weight	7/20/2021
Maintains	Morgan Stanley: to Equal-Weight	6/21/2021
Downgrade	Goldman Sachs: Buy to Neutral	6/16/2021

More Upgrades & Downgrades

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S&P 500	Dow 30	Nasdaq	Russell 2000
4,520.89	35,351.37	15,217.24	2,267.57
-7.90 (-0.17%)	-48.47 (-0.14%)	-48.65 (-0.32%)	+1.58 (+0.07%)

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Summary Chart Conversations Statistics Historical Data Profile Financials Analysis Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	5	5	5	5
Avg. Estimate	0.26	0.08	2.05	2.18
Low Estimate	0.22	0.05	2	2.12
High Estimate	0.3	0.12	2.11	2.26
Year Ago EPS	0.26	0.07	1.9	2.05

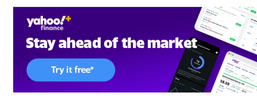
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	4	3	3	3
Avg. Estimate	300.06M	291.39M	1.43B	1.5B
Low Estimate	276.84M	274.56M	1.37B	1.41B
High Estimate	330.19M	311.56M	1.5B	1.59B
Year Ago Sales	278.59M	301.1M	1.32B	1.43B
Sales Growth (year/est)	7.70%	-3.20%	8.30%	5.00%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.32	0.12	0.79	0.84
EPS Actual	0.26	0.07	0.85	0.98
Difference	-0.06	-0.05	0.06	0.14
Surprise %	-18.80%	-41.70%	7.60%	16.70%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.26	0.08	2.05	2.18
7 Days Ago	0.26	0.08	2.05	2.18
30 Days Ago	0.26	0.09	2.12	2.29
60 Days Ago	0.26	0.1	2.12	2.29
90 Days Ago	0.26	0.1	2.12	2.29

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	1	N/A	N/A	N/A
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

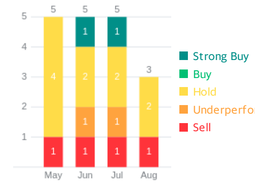
Growth Estimates	AVA	Industry	Sector(s)	S&P 500
Current Qtr.	N/A	N/A	N/A	N/A
Next Qtr.	14.30%	N/A	N/A	N/A
Current Year	7.90%	N/A	N/A	N/A
Next Year	6.30%	N/A	N/A	N/A
Next 5 Years (per annum)	6.20%	N/A	N/A	N/A
Past 5 Years (per annum)	-5.94%	N/A	N/A	N/A



Similar to AVA

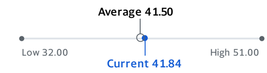
Symbol	Last Price	Change	% Change
ALE ALLETE, Inc.	67.54	+0.01	+0.02%
BKH Black Hills Corporation	70.67	+0.01	+0.01%
NWE NorthWestern Corporation	63.77	+0.13	+0.20%
SJI South Jersey Industries, Inc.	24.59	+0.16	+0.65%
HE Hawaiian Electric Industries, Inc.	43.79	+0.09	+0.21%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (4)



Upgrades & Downgrades

Downgrade	Sidoti & Co.: Buy to Neutral	3/26/2021
Downgrade	B of A Securities: Neutral to Underperform	1/8/2021
Downgrade	B of A Securities: Buy to Neutral	9/22/2020
Upgrade	KeyBanc: Underweight to Sector Weight	3/24/2020
Maintains	KeyBanc: to Underweight	1/17/2020
Maintains	B of A Securities: to Underperform	1/16/2020

More Upgrades & Downgrades

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S&P 500	Dow 30	Nasdaq	Russell 2000
4,520.35	35,348.20	15,216.28	2,267.18
-8.44 (-0.19%)	-51.64 (-0.15%)	-49.61 (-0.32%)	+1.19 (+0.05%)

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Black Hills Corporation (BKH)

NYSE - Nasdaq Real Time Price. Currency in USD

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70.67 +0.01 (+0.01%)

As of 9:57AM EDT. Market open.

Summary Chart Conversations Statistics Historical Data Profile Financials Analysis Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	6	4	6	7
Avg. Estimate	0.38	0.6	3.9	4.07
Low Estimate	0.36	0.46	3.88	4.05
High Estimate	0.43	0.7	3.92	4.12
Year Ago EPS	0.33	0.58	3.73	3.9

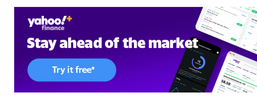
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	2	2	3	3
Avg. Estimate	372.57M	371.79M	1.88B	1.96B
Low Estimate	359.19M	357.19M	1.74B	1.79B
High Estimate	391.9M	386.4M	1.99B	2.09B
Year Ago Sales	395.88M	346.6M	1.7B	1.88B
Sales Growth (year/est)	-5.90%	7.30%	11.00%	4.00%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.32	0.52	1.15	1.66
EPS Actual	0.33	0.58	1.23	1.54
Difference	0.01	0.06	0.08	-0.12
Surprise %	3.10%	11.50%	7.00%	-7.20%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.38	0.6	3.9	4.07
7 Days Ago	0.38	0.58	3.9	4.07
30 Days Ago	0.38	0.57	3.89	4.07
60 Days Ago	0.35	0.53	3.89	4.07
90 Days Ago	0.38	0.56	3.89	4.07

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	1
Up Last 30 Days	1	2	2	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	1	N/A

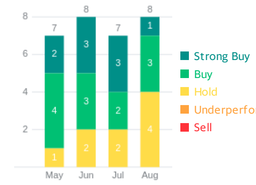
Growth Estimates	BKH	Industry	Sector(s)	S&P 500
Current Qtr.	15.20%	N/A	N/A	N/A
Next Qtr.	3.40%	N/A	N/A	N/A
Current Year	4.60%	N/A	N/A	N/A
Next Year	4.40%	N/A	N/A	N/A
Next 5 Years (per annum)	4.67%	N/A	N/A	N/A
Past 5 Years (per annum)	-7.70%	N/A	N/A	N/A



People Also Watch

Symbol	Last Price	Change	% Change
IDA IDACORP, Inc.	105.76	+0.54	+0.51%
NWN Northwest Natural Holding Company	51.60	+0.21	+0.41%
ALE ALLETE, Inc.	67.54	+0.01	+0.02%
NWE NorthWestern Corporation	63.77	+0.13	+0.20%
MGEE MGE Energy, Inc.	80.78	+0.36	+0.44%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (7)

Upgrades & Downgrades

Maintains	Sidoti & Co.: to Buy	8/25/2021
Maintains	Credit Suisse: to Outperform	5/6/2021
Maintains	Wells Fargo: to Equal-Weight	4/28/2021
Downgrade	Mizuho: Buy to Neutral	3/3/2021
Maintains	Credit Suisse: to Outperform	1/19/2021
Upgrade	B of A Securities: Neutral to Buy	11/13/2020

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S&P 500 4,520.69 -8.10 (-0.18%)
Dow 30 35,353.52 -46.32 (-0.13%)
Nasdaq 15,216.61 -49.28 (-0.32%)
Russell 2000 2,267.62 +1.63 (+0.07%)

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CMS Energy Corporation (CMS)

NYSE - Nasdaq Real Time Price. Currency in USD

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64.65 +0.17 (+0.26%)

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Summary Chart Conversations Statistics Historical Data Profile Financials Analysis Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	12	7	11	14
Avg. Estimate	0.46	0.61	2.8	2.89
Low Estimate	0.42	0.54	2.64	2.86
High Estimate	0.51	0.69	2.89	3.06
Year Ago EPS	0.49	0.77	2.67	2.8

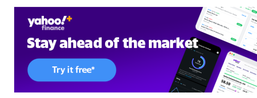
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	5	4	11	12
Avg. Estimate	1.5B	1.58B	6.99B	7.08B
Low Estimate	1.47B	1.52B	6.67B	6.43B
High Estimate	1.53B	1.65B	7.18B	7.45B
Year Ago Sales	N/A	N/A	6.68B	6.99B
Sales Growth (year/est)	N/A	N/A	4.60%	1.30%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.42	0.72	0.55	1.14
EPS Actual	0.49	0.77	0.56	1.21
Difference	0.07	0.05	0.01	0.07
Surprise %	16.70%	6.90%	1.80%	6.10%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.46	0.61	2.8	2.89
7 Days Ago	0.46	0.61	2.81	2.89
30 Days Ago	0.46	0.63	2.83	2.89
60 Days Ago	0.43	0.65	2.85	2.92
90 Days Ago	0.44	0.7	2.86	3.06

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	6	3	5	5
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	2	1	1	N/A

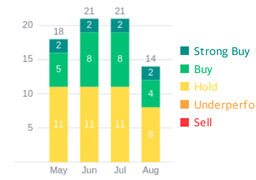
Growth Estimates	CMS	Industry	Sector(s)	S&P 500
Current Qtr.	-6.10%	N/A	N/A	N/A
Next Qtr.	-20.80%	N/A	N/A	N/A
Current Year	4.90%	N/A	N/A	N/A
Next Year	3.20%	N/A	N/A	N/A
Next 5 Years (per annum)	6.18%	N/A	N/A	N/A
Past 5 Years (per annum)	7.18%	N/A	N/A	N/A



Similar to CMS

Symbol	Last Price	Change	% Change
DTE DTE Energy Company	120.38	-0.02	-0.02%
LNT Alliant Energy Corporation	61.19	+0.31	+0.50%
CNP CenterPoint Energy, Inc.	25.34	-0.03	-0.14%
WEC WEC Energy Group, Inc.	95.25	+0.23	+0.24%
ETR Entergy Corporation	109.77	+0.41	+0.37%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (18)

Upgrades & Downgrades

Maintains	Morgan Stanley: to Equal-Weight	8/19/2021
Maintains	Morgan Stanley: to Equal-Weight	7/20/2021
Upgrade	Keybanc: Sector Weight to Overweight	7/20/2021
Downgrade	Vertical Research: Buy to Hold	6/9/2021
Maintains	Mizuho: to Buy	6/9/2021
Maintains	Credit Suisse: to Outperform	6/9/2021

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S&P 500 4,520.34 -8.45 (-0.19%)
Dow 30 35,347.15 -52.69 (-0.15%)
Nasdaq 15,217.74 -48.15 (-0.32%)
Russell 2000 2,267.44 +1.45 (+0.06%)

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Duke Energy Corporation (DUK)

NYSE - Nasdaq Real Time Price. Currency in USD

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105.32 +0.53 (+0.50%)

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Summary Chart Conversations Statistics Historical Data Profile Financials Analysis Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	16	8	12	13
Avg. Estimate	1.1	1.81	5.21	5.47
Low Estimate	1	1.76	5.14	5.4
High Estimate	1.17	1.85	5.27	5.52
Year Ago EPS	1.08	1.87	5.12	5.21

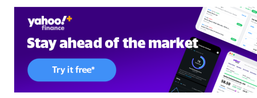
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	7	4	8	8
Avg. Estimate	5.76B	7.01B	25.37B	26.53B
Low Estimate	5.16B	6.85B	24.9B	26.07B
High Estimate	6.3B	7.18B	26.58B	27.55B
Year Ago Sales	N/A	N/A	23.87B	25.37B
Sales Growth (year/est)	N/A	N/A	6.30%	4.60%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	1.03	1.79	1.03	1.2
EPS Actual	1.08	1.87	1.03	1.26
Difference	0.05	0.08	0	0.06
Surprise %	4.90%	4.50%	0.00%	5.00%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	1.1	1.81	5.21	5.47
7 Days Ago	1.1	1.8	5.19	5.46
30 Days Ago	1.1	1.81	5.19	5.46
60 Days Ago	1.09	1.81	5.18	5.46
90 Days Ago	1.09	1.8	5.18	5.45

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	1	1	1	1
Up Last 30 Days	5	4	7	4
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

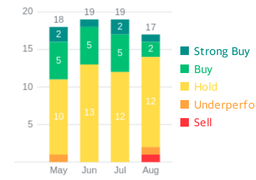
Growth Estimates	DUK	Industry	Sector(s)	S&P 500
Current Qtr.	1.90%	N/A	N/A	N/A
Next Qtr.	-3.20%	N/A	N/A	N/A
Current Year	1.80%	N/A	N/A	N/A
Next Year	5.00%	N/A	N/A	N/A
Next 5 Years (per annum)	5.45%	N/A	N/A	N/A
Past 5 Years (per annum)	0.38%	N/A	N/A	N/A



People Also Watch

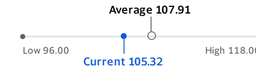
Symbol	Last Price	Change	% Change
SO The Southern Company	65.79	+0.04	+0.06%
D Dominion Energy, Inc.	78.23	-0.07	-0.09%
AEP American Electric Power Company, Inc.	89.89	+0.27	+0.30%
ED Consolidated Edison, Inc.	75.86	+0.16	+0.21%
EXC Exelon Corporation	48.90	-0.35	-0.72%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (16)



Upgrades & Downgrades

Downgrade	RBC Capital: Outperform to Sector Perform	8/20/2021
Maintains	Morgan Stanley: to Equal-Weight	8/19/2021
Maintains	Mizuho: to Neutral	8/18/2021
Downgrade	Vertical Research: Buy to Hold	8/6/2021
Maintains	Morgan Stanley: to Equal-Weight	7/20/2021
Maintains	Keybanc: to Overweight	7/20/2021

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S&P 500	Dow 30	Nasdaq	Russell 2000
4,520.60	35,349.55	15,217.89	2,267.45
-8.19 (-0.18%)	-50.29 (-0.14%)	-48.00 (-0.31%)	+1.46 (+0.06%)

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Consolidated Edison, Inc. (ED)

NYSE - Nasdaq Real Time Price. Currency in USD

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75.86 +0.16 (+0.21%)

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Summary Chart Conversations Statistics Historical Data Profile Financials Analysis Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	14	10	14	17
Avg. Estimate	0.62	1.48	4.25	4.51
Low Estimate	0.59	1.41	4.18	4.41
High Estimate	0.68	1.65	4.28	4.66
Year Ago EPS	0.6	1.48	4.18	4.25

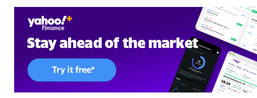
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	5	3	10	11
Avg. Estimate	2.97B	3.46B	12.99B	13.42B
Low Estimate	2.72B	3.43B	12.7B	13.17B
High Estimate	2.92B	3.47B	13.29B	13.9B
Year Ago Sales	2.82B	3.33B	12.25B	12.99B
Sales Growth (year/est)	5.50%	3.70%	6.10%	3.30%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.54	1.5	0.76	1.36
EPS Actual	0.6	1.48	0.75	1.44
Difference	0.06	-0.02	-0.01	0.08
Surprise %	11.10%	-1.30%	-1.30%	5.90%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.62	1.48	4.25	4.51
7 Days Ago	0.62	1.5	4.26	4.51
30 Days Ago	0.62	1.47	4.26	4.51
60 Days Ago	0.6	1.48	4.26	4.51
90 Days Ago	0.59	1.47	4.25	4.51

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	2	2	N/A	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	1	1	N/A

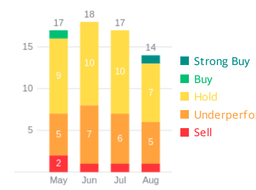
Growth Estimates	ED	Industry	Sector(s)	S&P 500
Current Qtr.	3.30%	N/A	N/A	N/A
Next Qtr.	N/A	N/A	N/A	N/A
Current Year	1.70%	N/A	N/A	N/A
Next Year	6.10%	N/A	N/A	N/A
Next 5 Years (per annum)	2.00%	N/A	N/A	N/A
Past 5 Years (per annum)	1.62%	N/A	N/A	N/A



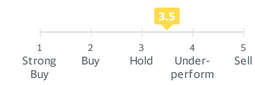
People Also Watch

Symbol	Last Price	Change	% Change
SO The Southern Company	65.82	+0.07	+0.11%
DUK Duke Energy Corporation	105.33	+0.54	+0.52%
AEP American Electric Power Company, Inc.	89.95	+0.33	+0.37%
D Dominion Energy, Inc.	78.24	-0.06	-0.08%
EIX Edison International	57.57	+0.04	+0.07%

Recommendation Trends



Recommendation Rating



Analyst Price Targets (15)

Upgrades & Downgrades

Maintains	Morgan Stanley: to Underweight	8/19/2021
Maintains	Morgan Stanley: to Underweight	7/20/2021
Downgrade	Keybanc: Sector Weight to Underweight	7/20/2021
Maintains	Morgan Stanley: to Underweight	6/21/2021
Maintains	Morgan Stanley: to Underweight	5/18/2021
Maintains	Credit Suisse: to Underperform	4/29/2021

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S&P 500	Dow 30	Nasdaq	Russell 2000
4,520.66	35,353.13	15,217.37	2,267.54
-8.13 (-0.18%)	-46.71 (-0.13%)	-48.52 (-0.32%)	+1.55 (+0.07%)

Eversource Energy (ES)

NYSE - Nasdaq Real Time Price. Currency in USD

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91.24 +0.19 (+0.21%)

As of 10:03AM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	15	15	21	21
Avg. Estimate	0.8	1.08	3.83	4.09
Low Estimate	0.77	1.01	3.8	4.03
High Estimate	0.82	1.18	3.9	4.18
Year Ago EPS	0.76	1.02	3.64	3.83

Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	7	7	12	13
Avg. Estimate	2.12B	2.45B	9.58B	9.99B
Low Estimate	1.76B	2.31B	8.5B	8.74B
High Estimate	2.31B	2.68B	10.71B	11.03B
Year Ago Sales	N/A	2.34B	8.9B	9.58B
Sales Growth (year/est)	N/A	4.60%	7.70%	4.30%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.76	1.02	0.85	1.09
EPS Actual	0.76	1.02	0.85	1.08
Difference	0	0	0	-0.01
Surprise %	0.00%	0.00%	0.00%	-0.90%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.8	1.08	3.83	4.09
7 Days Ago	0.8	1.08	3.83	4.09
30 Days Ago	0.8	1.08	3.83	4.09
60 Days Ago	0.8	1.09	3.84	4.09
90 Days Ago	0.8	1.09	3.84	4.09

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	1	N/A
Up Last 30 Days	3	1	2	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	1	1	N/A	N/A

Growth Estimates	ES	Industry	Sector(s)	S&P 500
Current Qtr.	5.30%	N/A	N/A	N/A
Next Qtr.	5.90%	N/A	N/A	N/A
Current Year	5.20%	N/A	N/A	N/A
Next Year	6.80%	N/A	N/A	N/A
Next 5 Years (per annum)	6.68%	N/A	N/A	N/A
Past 5 Years (per annum)	4.45%	N/A	N/A	N/A

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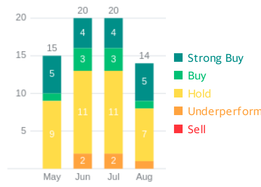
Symbol	Last Price	Change	% Change
WEC WEC Energy Group, Inc.	95.25	+0.23	+0.24%
EVRG Evergy, Inc.	68.22	+0.31	+0.46%
LNT Alliant Energy Corporation	61.25	+0.36	+0.59%
CMS CMS Energy Corporation	64.65	+0.17	+0.26%
PNW Pinnacle West Capital Corporation	76.85	+0.36	+0.47%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (16)

Upgrades & Downgrades

Maintains	Morgan Stanley: to Underweight	8/19/2021
Maintains	Morgan Stanley: to Underweight	7/21/2021
Maintains	Morgan Stanley: to Underweight	6/21/2021
Maintains	Barclays: to Equal-Weight	5/25/2021
Maintains	Credit Suisse: to Underperform	5/11/2021
Upgrade	Scotiabank: Sector Underperform to Sector Perform	4/30/2021

More Upgrades & Downgrades

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S&P 500 4,520.34 -8.45 (-0.19%)
Dow 30 35,341.63 -58.21 (-0.16%)
Nasdaq 15,217.29 -48.60 (-0.32%)
Russell 2000 2,265.73 -0.26 (-0.01%)

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MGE Energy, Inc. (MGEE)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

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Quote Lookup

80.78 +0.36 (+0.44%)

As of 10:02AM EDT. Market open.

Summary Chart Conversations Statistics Historical Data Profile Financials Analysis Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	2	2	2	2
Avg. Estimate	0.61	0.9	2.89	3.12
Low Estimate	0.54	0.89	2.85	2.92
High Estimate	0.69	0.92	2.94	3.32
Year Ago EPS	0.53	0.88	2.6	2.89

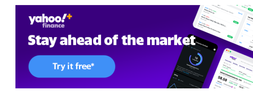
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	1	1	2	2
Avg. Estimate	130.73M	129.23M	576.21M	601.16M
Low Estimate	111.43M	129.23M	570.74M	597.23M
High Estimate	111.43M	129.23M	581.68M	605.08M
Year Ago Sales	117.04M	135.21M	538.63M	576.21M
Sales Growth (year/est)	11.70%	-4.40%	7.00%	4.30%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.48	0.88	0.5	0.81
EPS Actual	0.53	0.88	0.44	0.97
Difference	0.05	0	-0.06	0.16
Surprise %	10.40%	0.00%	-12.00%	19.80%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.61	0.9	2.89	3.12
7 Days Ago	0.61	0.9	2.89	3.12
30 Days Ago	0.61	0.9	2.89	3.12
60 Days Ago	0.56	0.93	2.86	3.18
90 Days Ago	0.56	0.93	2.86	3.18

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	1	N/A	N/A	N/A
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

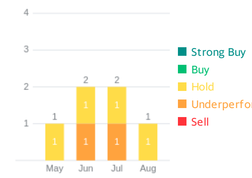
Growth Estimates	MGEE	Industry	Sector(s)	S&P 500
Current Qtr.	15.10%	N/A	N/A	N/A
Next Qtr.	2.30%	N/A	N/A	N/A
Current Year	11.20%	N/A	N/A	N/A
Next Year	8.00%	N/A	N/A	N/A
Next 5 Years (per annum)	5.60%	N/A	N/A	N/A
Past 5 Years (per annum)	2.50%	N/A	N/A	N/A



People Also Watch

Symbol	Last Price	Change	% Change
MSEX Middlesex Water Company	109.97	+0.33	+0.30%
BKH Black Hills Corporation	70.67	+0.01	+0.01%
NWN Northwest Natural Holding Company	51.60	+0.21	+0.41%
CTBI Community Trust Bancorp, Inc.	41.72	+0.12	+0.29%
MGRC McGrath RentCorp	69.36	-0.13	-0.19%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (2)

Average 69.00

Low 64.00 High 74.00

Current 80.78

Upgrades & Downgrades

Maintains	Morgan Stanley: to Equal-Weight	8/19/2021
Maintains	Morgan Stanley: to Equal-Weight	7/20/2021
Maintains	Morgan Stanley: to Equal-Weight	6/21/2021
Maintains	Morgan Stanley: to Equal-Weight	5/18/2021
Maintains	Morgan Stanley: to Equal-Weight	4/27/2021
Maintains	Morgan Stanley: to Equal-Weight	4/20/2021

More Upgrades & Downgrades

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S&P 500 4,520.75 -8.04 (-0.18%)
Dow 30 35,354.55 -45.29 (-0.13%)
Nasdaq 15,214.30 -51.59 (-0.34%)
Russell 2000 2,266.96 +0.97 (+0.04%)

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NorthWestern Corporation (NWE)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

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Quote Lookup

63.67 +0.03 (+0.05%)

As of 10:04AM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	2	2	3	6
Avg. Estimate	0.55	1.18	3.53	3.65
Low Estimate	0.52	1.16	3.51	3.57
High Estimate	0.59	1.2	3.57	3.71
Year Ago EPS	0.58	1.21	3.21	3.53

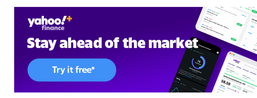
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	3	3	4	4
Avg. Estimate	293.79M	336.81M	1.3B	1.33B
Low Estimate	286.2M	291.05M	1.25B	1.28B
High Estimate	306.5M	361.7M	1.37B	1.38B
Year Ago Sales	280.61M	313.44M	1.2B	1.3B
Sales Growth (year/est)	4.70%	7.50%	8.60%	2.40%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	0.6	1.3	1.15	0.46
EPS Actual	0.58	1.21	1.24	0.72
Difference	-0.02	-0.09	0.09	0.26
Surprise %	-3.30%	-6.90%	7.80%	56.50%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.55	1.18	3.53	3.65
7 Days Ago	0.56	1.21	3.54	3.65
30 Days Ago	0.59	1.22	3.51	3.68
60 Days Ago	0.59	1.25	3.5	3.68
90 Days Ago	0.59	1.25	3.5	3.68

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	N/A	N/A	4	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

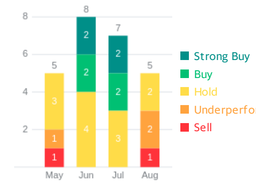
Growth Estimates	NWE	Industry	Sector(s)	S&P 500
Current Qtr.	-5.20%	N/A	N/A	N/A
Next Qtr.	-2.50%	N/A	N/A	N/A
Current Year	10.00%	N/A	N/A	N/A
Next Year	3.40%	N/A	N/A	N/A
Next 5 Years (per annum)	4.50%	N/A	N/A	N/A
Past 5 Years (per annum)	3.94%	N/A	N/A	N/A



People Also Watch

Symbol	Last Price	Change	% Change
POR Portland General Electric Company	51.32	+0.43	+0.84%
BKH Black Hills Corporation	70.67	+0.01	+0.01%
ALE ALLETE, Inc.	67.54	+0.01	+0.02%
NJR New Jersey Resources Corporation	37.20	+0.06	+0.16%
PNM PNM Resources, Inc.	49.58	-0.02	-0.04%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (7)

Upgrades & Downgrades

Maintains	Wells Fargo: to Overweight	7/29/2021
Maintains	Keybanc: to Overweight	7/20/2021
Maintains	Keybanc: to Overweight	4/21/2021
Downgrade	Credit Suisse: Outperform to Neutral	4/13/2021
Upgrade	B of A Securities: Underperform to Neutral	3/23/2021
Maintains	Credit Suisse: to Outperform	1/19/2021

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S&P 500	Dow 30	Nasdaq	Russell 2000
4,520.71	35,350.91	15,215.15	2,266.21
-8.08 (-0.18%)	-48.93 (-0.14%)	-50.74 (-0.33%)	+0.21 (+0.01%)

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Public Service Enterprise Group Incorporated (PEG)

NYSE - Nasdaq Real Time Price. Currency in USD

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64.16 -0.08 (-0.12%)

As of 10:06AM EDT. Market open.

Summary Chart Conversations Statistics Historical Data Profile Financials Analysis Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	16	11	14	16
Avg. Estimate	0.7	0.89	3.55	3.49
Low Estimate	0.68	0.78	3.5	3.3
High Estimate	0.75	1.03	3.61	3.73
Year Ago EPS	0.79	0.96	3.43	3.55

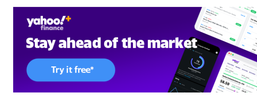
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	5	4	9	9
Avg. Estimate	2.26B	2.69B	10.14B	9.31B
Low Estimate	2.02B	2.49B	9.58B	8.07B
High Estimate	2.36B	3.04B	11.25B	11.62B
Year Ago Sales	2.3B	2.37B	9.6B	10.14B
Sales Growth (year/est)	-1.90%	13.40%	5.60%	-8.20%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.6	0.97	0.65	1.12
EPS Actual	0.79	0.96	0.65	1.28
Difference	0.19	-0.01	0	0.16
Surprise %	31.70%	-1.00%	0.00%	14.30%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.7	0.89	3.55	3.49
7 Days Ago	0.7	0.9	3.53	3.47
30 Days Ago	0.7	0.88	3.47	3.47
60 Days Ago	0.68	0.88	3.47	3.47
90 Days Ago	0.67	0.87	3.46	3.49

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	1	2	4
Up Last 30 Days	5	7	12	8
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

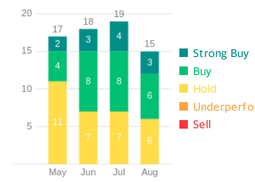
Growth Estimates	PEG	Industry	Sector(s)	S&P 500
Current Qtr.	-11.40%	N/A	N/A	N/A
Next Qtr.	-7.30%	N/A	N/A	N/A
Current Year	3.50%	N/A	N/A	N/A
Next Year	-1.70%	N/A	N/A	N/A
Next 5 Years (per annum)	2.35%	N/A	N/A	N/A
Past 5 Years (per annum)	3.50%	N/A	N/A	N/A



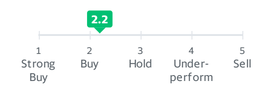
People Also Watch

Symbol	Last Price	Change	% Change
PNW Pinnacle West Capital Corporation	76.83	+0.35	+0.45%
PPL PPL Corporation	29.28	+0.10	+0.36%
FE FirstEnergy Corp.	38.90	+0.24	+0.63%
ETR Entergy Corporation	109.73	+0.37	+0.34%
EIX Edison International	57.53	0.00	0.00%

Recommendation Trends



Recommendation Rating



Analyst Price Targets (17)

Upgrades & Downgrades

Maintains	Wells Fargo: to Overweight	8/26/2021
Maintains	Morgan Stanley: to Overweight	8/19/2021
Maintains	Keybanc: to Overweight	8/13/2021
Maintains	Morgan Stanley: to Overweight	7/20/2021
Maintains	Morgan Stanley: to Overweight	6/21/2021
Upgrade	Seaport Global: Neutral to Buy	5/24/2021

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S&P 500 4,520.54 -8.25 (-0.18%)
Dow 30 35,347.34 -52.50 (-0.15%)
Nasdaq 15,215.53 -50.36 (-0.33%)
Russell 2000 2,265.95 -0.04 (-0.00%)

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The Southern Company (SO)

NYSE - Nasdaq Real Time Price. Currency in USD

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Quote Lookup

65.79 +0.04 (+0.05%)

As of 10:06AM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	13	11	19	19
Avg. Estimate	0.79	1.21	3.33	3.54
Low Estimate	0.77	1.16	3.29	3.46
High Estimate	0.83	1.25	3.43	3.63
Year Ago EPS	0.78	1.22	3.25	3.33

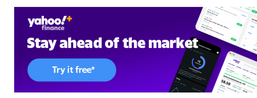
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	6	4	11	11
Avg. Estimate	5.04B	5.76B	22.05B	22.93B
Low Estimate	4.53B	5.56B	20.92B	21.7B
High Estimate	5.71B	5.9B	24.29B	25.09B
Year Ago Sales	4.62B	6.36B	20.38B	22.05B
Sales Growth (year/est)	9.20%	-9.30%	8.20%	4.00%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.67	1.21	0.42	0.83
EPS Actual	0.78	1.22	0.47	0.98
Difference	0.11	0.01	0.05	0.15
Surprise %	16.40%	0.80%	11.90%	18.10%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.79	1.21	3.33	3.54
7 Days Ago	0.79	1.21	3.33	3.54
30 Days Ago	0.79	1.22	3.32	3.55
60 Days Ago	0.78	1.22	3.31	3.55
90 Days Ago	0.78	1.22	3.32	3.56

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	5	N/A	N/A	N/A
Up Last 30 Days	7	1	4	2
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	1	N/A	N/A	N/A

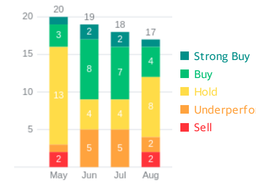
Growth Estimates	SO	Industry	Sector(s)	S&P 500
Current Qtr.	1.30%	N/A	N/A	N/A
Next Qtr.	-0.80%	N/A	N/A	N/A
Current Year	2.50%	N/A	N/A	N/A
Next Year	6.30%	N/A	N/A	N/A
Next 5 Years (per annum)	6.50%	N/A	N/A	N/A
Past 5 Years (per annum)	3.96%	N/A	N/A	N/A



People Also Watch

Symbol	Last Price	Change	% Change
DUK Duke Energy Corporation	105.33	+0.54	+0.52%
D Dominion Energy, Inc.	78.25	-0.05	-0.06%
AEP American Electric Power Company, Inc.	89.92	+0.29	+0.33%
ED Consolidated Edison, Inc.	75.90	+0.20	+0.26%
EXC Exelon Corporation	48.84	-0.41	-0.83%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (16)

Upgrades & Downgrades

Maintains	Mizuho: to Underperform	8/30/2021
Maintains	Morgan Stanley: to Underweight	8/19/2021
Maintains	Morgan Stanley: to Underweight	7/20/2021
Maintains	Morgan Stanley: to Underweight	6/21/2021
Maintains	Mizuho: to Underperform	6/9/2021
Maintains	Morgan Stanley: to Underweight	5/18/2021

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S&P 500	Dow 30	Nasdaq	Russell 2000
4,520.57	35,342.57	15,217.40	2,265.57
-8.22 (-0.18%)	-57.27 (-0.16%)	-48.49 (-0.32%)	-0.42 (-0.02%)

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WEC Energy Group, Inc. (WEC)

NYSE - Nasdaq Real Time Price. Currency in USD

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Quote Lookup

95.29 +0.27 (+0.28%)

As of 10:05AM EDT. Market open.

Summary Chart Conversations Statistics Historical Data Profile Financials Analysis Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	12	9	14	15
Avg. Estimate	0.79	0.75	4.04	4.31
Low Estimate	0.77	0.72	4.01	4.26
High Estimate	0.83	0.8	4.07	4.35
Year Ago EPS	0.76	0.84	3.79	4.04

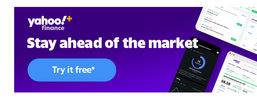
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	7	5	9	10
Avg. Estimate	1.6B	1.64B	7.73B	7.94B
Low Estimate	1.45B	1.53B	7.28B	7.34B
High Estimate	1.72B	1.8B	8.29B	8.52B
Year Ago Sales	1.57B	N/A	7.24B	7.73B
Sales Growth (year/est)	1.60%	N/A	6.80%	2.70%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.68	0.76	0.73	1.47
EPS Actual	0.76	0.84	0.76	1.61
Difference	0.08	0.08	0.03	0.14
Surprise %	11.80%	10.50%	4.10%	9.50%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.79	0.75	4.04	4.31
7 Days Ago	0.79	0.75	4.04	4.3
30 Days Ago	0.79	0.85	4.03	4.3
60 Days Ago	0.78	0.85	4.03	4.29
90 Days Ago	0.78	0.85	4.02	4.29

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	1	1
Up Last 30 Days	4	N/A	10	4
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

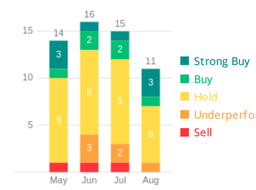
Growth Estimates	WEC	Industry	Sector(s)	S&P 500
Current Qtr.	3.90%	N/A	N/A	N/A
Next Qtr.	-10.70%	N/A	N/A	N/A
Current Year	6.60%	N/A	N/A	N/A
Next Year	6.70%	N/A	N/A	N/A
Next 5 Years (per annum)	6.50%	N/A	N/A	N/A
Past 5 Years (per annum)	6.98%	N/A	N/A	N/A



People Also Watch

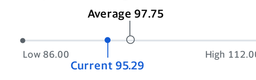
Symbol	Last Price	Change	% Change
LNT Alliant Energy Corporation	61.19	+0.30	+0.49%
XEL Xcel Energy Inc.	69.19	+0.17	+0.24%
CMS CMS Energy Corporation	64.62	+0.14	+0.22%
PNW Pinnacle West Capital Corporation	76.80	+0.31	+0.41%
SRE Sempra	132.37	+0.56	+0.42%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (12)



Upgrades & Downgrades

Maintains	Barclays: to Overweight	5/25/2021
Initiated	Mizuho: to Neutral	4/9/2021
Upgrade	Wells Fargo: Equal-Weight to Overweight	3/4/2021
Upgrade	Barclays: Underweight to Equal-Weight	1/13/2021
Downgrade	KeyBanc: Overweight to Sector Weight	1/12/2021
Maintains	Credit Suisse: to Underperform	11/4/2020

More Upgrades & Downgrades

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U.S. markets close in 5 hours 54 minutes

S&P 500 4,520.56 -8.23 (-0.18%)
Dow 30 35,349.17 -50.67 (-0.14%)
Nasdaq 15,215.15 -50.74 (-0.33%)
Russell 2000 2,266.21 +0.21 (+0.01%)

Advertisement

Xcel Energy Inc. (XEL)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

69.29 +0.26 (+0.38%)

As of 10:05AM EDT. Market open.

Summary Chart Conversations Statistics Historical Data Profile Financials Analysis Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	12	8	14	15
Avg. Estimate	0.56	1.18	2.98	3.17
Low Estimate	0.46	1.13	2.96	3.14
High Estimate	0.6	1.21	3.01	3.19
Year Ago EPS	0.54	1.14	2.79	2.98

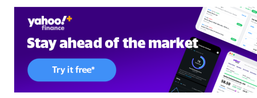
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	5	5	11	11
Avg. Estimate	2.69B	3.46B	12.67B	12.93B
Low Estimate	2.36B	3.18B	11.81B	12.13B
High Estimate	2.99B	4.06B	13.38B	14.09B
Year Ago Sales	N/A	N/A	11.53B	12.67B
Sales Growth (year/est)	N/A	N/A	10.00%	2.00%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.48	1.06	0.54	0.61
EPS Actual	0.54	1.14	0.54	0.67
Difference	0.06	0.08	0	0.06
Surprise %	12.50%	7.50%	0.00%	9.80%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.56	1.18	2.98	3.17
7 Days Ago	0.56	1.18	2.98	3.17
30 Days Ago	0.56	1.17	2.96	3.17
60 Days Ago	0.56	1.19	2.97	3.17
90 Days Ago	0.56	1.21	2.97	3.17

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	2	N/A	N/A	N/A
Up Last 30 Days	3	3	5	2
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	2	N/A	N/A	N/A

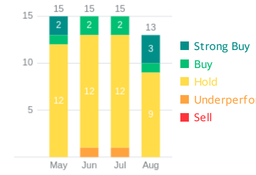
Growth Estimates	XEL	Industry	Sector(s)	S&P 500
Current Qtr.	3.70%	N/A	N/A	N/A
Next Qtr.	3.50%	N/A	N/A	N/A
Current Year	6.80%	N/A	N/A	N/A
Next Year	6.40%	N/A	N/A	N/A
Next 5 Years (per annum)	6.30%	N/A	N/A	N/A
Past 5 Years (per annum)	5.68%	N/A	N/A	N/A



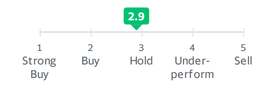
People Also Watch

Symbol	Last Price	Change	% Change
WEC WEC Energy Group, Inc.	95.29	+0.27	+0.28%
SRE Sempra	132.37	+0.56	+0.42%
PEG Public Service Enterprise Group Incorpor...	64.16	-0.08	-0.12%
PNW Pinnacle West Capital Corporation	76.83	+0.35	+0.45%
CMS CMS Energy Corporation	64.66	+0.18	+0.28%

Recommendation Trends



Recommendation Rating



Analyst Price Targets (14)

Upgrades & Downgrades

Maintains	Keybanc: to Overweight	4/21/2021
Maintains	Morgan Stanley: to Underweight	4/20/2021
Maintains	Morgan Stanley: to Underweight	3/19/2021
Maintains	Morgan Stanley: to Underweight	2/18/2021
Maintains	Morgan Stanley: to Underweight	1/20/2021
Maintains	KeyBanc: to Overweight	1/12/2021

More Upgrades & Downgrades

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U.S. markets close in 4 hours 44 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,526.91	35,411.98	15,236.70	2,268.29
-1.88 (-0.04%)	+12.14 (+0.03%)	-29.19 (-0.19%)	+2.30 (+0.10%)

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Abbott Laboratories (ABT)

NYSE - Nasdaq Real Time Price. Currency in USD

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Quote Lookup

126.63 +0.68 (+0.54%)

As of 11:16AM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	20	20	23	23
Avg. Estimate	0.93	1.01	4.43	4.66
Low Estimate	0.9	0.89	4.35	4.4
High Estimate	0.98	1.1	4.56	5
Year Ago EPS	0.98	1.45	3.65	4.43

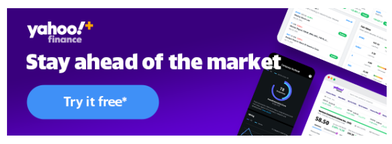
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	17	17	23	23
Avg. Estimate	9.44B	9.69B	39.83B	39.24B
Low Estimate	9.26B	9.5B	39.47B	38.26B
High Estimate	9.61B	9.94B	41.15B	39.95B
Year Ago Sales	8.85B	10.7B	34.61B	39.83B
Sales Growth (year/est)	6.60%	-9.40%	15.10%	-1.50%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	0.91	1.35	1.27	1.02
EPS Actual	0.98	1.45	1.32	1.17
Difference	0.07	0.1	0.05	0.15
Surprise %	7.70%	7.40%	3.90%	14.70%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.93	1.01	4.43	4.66
7 Days Ago	0.93	1.01	4.43	4.66
30 Days Ago	0.93	1.01	4.43	4.66
60 Days Ago	0.97	1.04	4.35	4.64
90 Days Ago	1.14	1.21	4.84	5.09

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	1	N/A	1	1
Up Last 30 Days	1	1	1	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	1	1	1

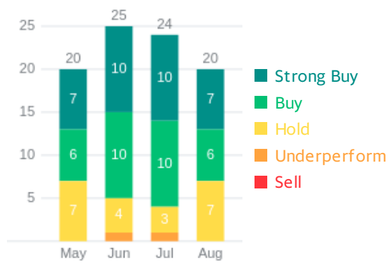
Growth Estimates	ABT	Industry	Sector(s)	S&P 500
Current Qtr.	-5.10%	N/A	N/A	N/A
Next Qtr.	-30.30%	N/A	N/A	N/A
Current Year	21.40%	N/A	N/A	N/A
Next Year	5.20%	N/A	N/A	N/A
Next 5 Years (per annum)	12.53%	N/A	N/A	N/A
Past 5 Years (per annum)	8.15%	N/A	N/A	N/A



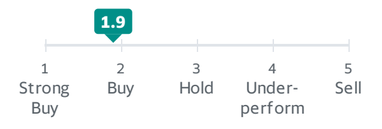
People Also Watch

Symbol	Last Price	Change	% Change
ABBV AbbVie Inc.	120.82	+0.25	+0.20%
BMY Bristol-Myers Squibb Company	67.10	-0.11	-0.16%
LLY Eli Lilly and Company	260.28	-2.03	-0.77%
JNJ Johnson & Johnson	173.42	-0.24	-0.14%
MDT Medtronic plc	134.13	+0.29	+0.22%

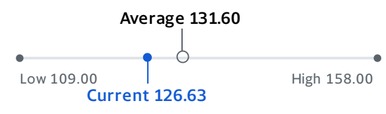
Recommendation Trends



Recommendation Rating



Analyst Price Targets (22)



Upgrades & Downgrades

Maintains	BTIG: to Buy	8/31/2021
Maintains	Morgan Stanley: to Overweight	7/23/2021
Maintains	Credit Suisse: to Outperform	7/23/2021
Maintains	Raymond James: to Outperform	7/23/2021
Maintains	SVB Leerink: to Market Perform	7/20/2021
Maintains	Wells Fargo: to Overweight	7/12/2021

More Upgrades & Downgrades

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U.S. markets close in 4 hours 44 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,527.43	35,416.06	15,238.48	2,268.34
-1.36 (-0.03%)	+16.22 (+0.05%)	-27.41 (-0.18%)	+2.35 (+0.10%)

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Analog Devices, Inc. (ADI)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

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Quote Lookup

164.48 -2.50 (-1.50%)

As of 11:16AM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	20	20	22	23
Avg. Estimate	1.62	1.72	6.42	7.26
Low Estimate	1.57	1.57	6.27	6.95
High Estimate	1.7	1.81	6.51	7.81
Year Ago EPS	1.36	1.44	4.91	6.42

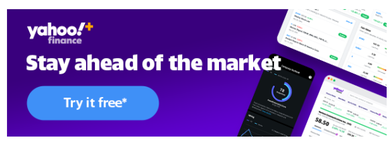
Revenue Estimate	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	21	20	24	24
Avg. Estimate	1.71B	1.86B	6.83B	7.97B
Low Estimate	1.63B	1.77B	6.76B	7.18B
High Estimate	1.77B	2.28B	7.26B	10.34B
Year Ago Sales	N/A	1.53B	5.6B	6.83B
Sales Growth (year/est)	N/A	21.70%	21.90%	16.80%

Earnings History	7/30/2020	10/30/2020	1/30/2021	4/29/2021
EPS Est.	1.28	1.32	1.32	1.45
EPS Actual	1.36	1.44	1.44	1.54
Difference	0.08	0.12	0.12	0.09
Surprise %	6.20%	9.10%	9.10%	6.20%

EPS Trend	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	1.62	1.72	6.42	7.26
7 Days Ago	1.62	1.69	6.29	6.98
30 Days Ago	1.62	1.69	6.29	6.98
60 Days Ago	1.62	1.69	6.3	6.96
90 Days Ago	1.62	1.69	6.28	6.96

EPS Revisions	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	1	N/A	1	1
Up Last 30 Days	1	13	19	20
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	2	1	2

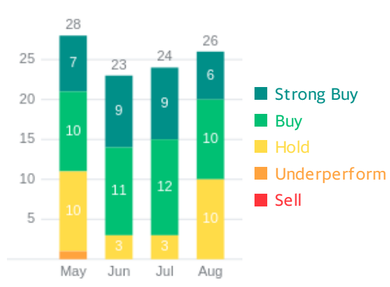
Growth Estimates	ADI	Industry	Sector(s)	S&P 500
Current Qtr.	19.10%	N/A	N/A	N/A
Next Qtr.	19.40%	N/A	N/A	N/A
Current Year	30.80%	N/A	N/A	N/A
Next Year	13.10%	N/A	N/A	N/A
Next 5 Years (per annum)	13.52%	N/A	N/A	N/A
Past 5 Years (per annum)	21.28%	N/A	N/A	N/A



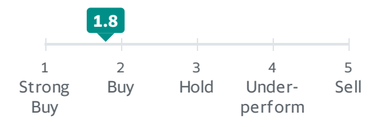
People Also Watch

Symbol	Last Price	Change	% Change
MXIM Maxim Integrated Products, Inc.	103.14	0.00	0.00%
XLNX Xilinx, Inc.	153.67	-1.40	-0.90%
TXN Texas Instruments Incorporated	190.01	-1.42	-0.74%
MCHP Microchip Technology Incorporated	156.62	-2.39	-1.50%
KLAC KLA Corporation	336.79	-5.32	-1.56%

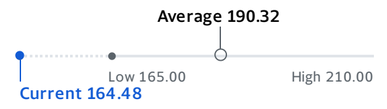
Recommendation Trends



Recommendation Rating



Analyst Price Targets (22)



Upgrades & Downgrades

Maintains	Truist Securities: to Buy	8/19/2021
Maintains	Deutsche Bank: to Hold	8/19/2021
Maintains	Needham: to Buy	8/19/2021
Maintains	Oppenheimer: to Outperform	8/13/2021
Initiated	Wells Fargo: to Equal-Weight	7/26/2021
Maintains	Stifel: to Buy	7/15/2021

More Upgrades & Downgrades

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U.S. markets close in 4 hours 44 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,526.66	35,410.83	15,235.15	2,268.31
-2.13 (-0.05%)	+10.99 (+0.03%)	-30.74 (-0.20%)	+2.32 (+0.10%)

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Assurant, Inc. (AIZ)

NYSE - Nasdaq Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

170.12 +1.51 (+0.90%)

As of 11:13AM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	7	7	2	7
Avg. Estimate	2.5	2.12	9.82	12.05
Low Estimate	2.34	1.91	9.75	11.7
High Estimate	2.87	2.29	9.9	12.28
Year Ago EPS	2.75	1.41	8.63	9.82

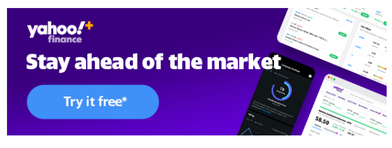
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	4	4	4	5
Avg. Estimate	2.4B	2.52B	9.99B	10.68B
Low Estimate	2.33B	2.46B	9.95B	10.36B
High Estimate	2.43B	2.63B	10.02B	11.14B
Year Ago Sales	N/A	2.5B	10.09B	9.99B
Sales Growth (year/est)	N/A	0.60%	-1.00%	6.90%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	2.09	1	2.08	1.96
EPS Actual	2.75	1.41	1.82	3.03
Difference	0.66	0.41	-0.26	1.07
Surprise %	31.60%	41.00%	-12.50%	54.60%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	2.5	2.12	9.82	12.05
7 Days Ago	2.5	2.24	9.82	12.05
30 Days Ago	2.5	2.32	10.17	12.03
60 Days Ago	2.42	2.45	10.68	12.19
90 Days Ago	2.39	2.36	10.18	11.99

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	3	N/A	5	3
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

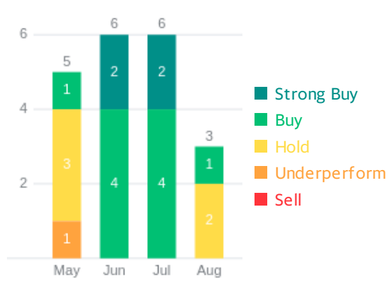
Growth Estimates	AIZ	Industry	Sector(s)	S&P 500
Current Qtr.	-9.10%	N/A	N/A	N/A
Next Qtr.	50.40%	N/A	N/A	N/A
Current Year	13.80%	N/A	N/A	N/A
Next Year	22.70%	N/A	N/A	N/A
Next 5 Years (per annum)	17.90%	N/A	N/A	N/A
Past 5 Years (per annum)	8.78%	N/A	N/A	N/A



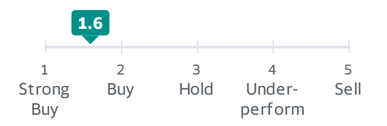
People Also Watch

Symbol	Last Price	Change	% Change
AON Aon plc	288.11	+2.77	+0.97%
AMP Ameriprise Financial, Inc.	273.67	+0.89	+0.33%
RE Everest Re Group, Ltd.	265.91	+2.89	+1.10%
ALLE Allegion plc	144.18	+1.10	+0.77%
AVY Avery Dennison Corporation	225.76	-0.18	-0.08%

Recommendation Trends >



Recommendation Rating >



Analyst Price Targets (5) >

Upgrades & Downgrades >

Maintains	Morgan Stanley: to Overweight	8/16/2021
Initiated	William Blair: to Outperform	7/23/2021
Maintains	Morgan Stanley: to Overweight	5/27/2021
Initiated	B of A Securities: to Buy	5/21/2021
Maintains	Truist Securities: to Buy	4/19/2021
Maintains	Morgan Stanley: to Overweight	1/12/2021

More Upgrades & Downgrades

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U.S. markets close in 4 hours 44 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,526.81	35,411.50	15,236.70	2,268.29
-1.98 (-0.04%)	+11.66 (+0.03%)	-29.19 (-0.19%)	+2.30 (+0.10%)

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A. O. Smith Corporation (AOS)

NYSE - Nasdaq Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

72.85 -0.09 (-0.12%)

As of 11:15AM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	13	13	14	14
Avg. Estimate	0.65	0.69	2.77	3.22
Low Estimate	0.59	0.64	2.75	2.75
High Estimate	0.7	0.72	2.88	3.57
Year Ago EPS	0.45	0.66	2.16	2.77

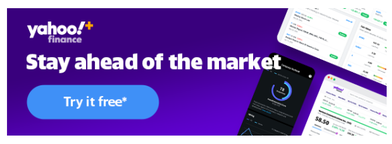
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	11	11	12	12
Avg. Estimate	816.55M	855.45M	3.42B	3.71B
Low Estimate	764.5M	818.1M	3.38B	3.55B
High Estimate	856.3M	905.9M	3.55B	3.88B
Year Ago Sales	661.22M	718.3M	2.9B	3.42B
Sales Growth (year/est)	23.50%	19.10%	18.30%	8.50%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.42	0.52	0.58	0.57
EPS Actual	0.45	0.66	0.74	0.6
Difference	0.03	0.14	0.16	0.03
Surprise %	7.10%	26.90%	27.60%	5.30%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.65	0.69	2.77	3.22
7 Days Ago	0.65	0.69	2.77	3.22
30 Days Ago	0.65	0.69	2.72	3.08
60 Days Ago	0.64	0.69	2.7	3.03
90 Days Ago	0.64	0.69	2.69	3

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	1	N/A	N/A	N/A
Up Last 30 Days	4	3	8	8
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

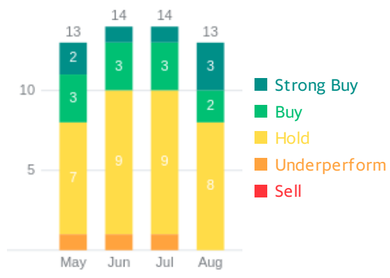
Growth Estimates	AOS	Industry	Sector(s)	S&P 500
Current Qtr.	44.40%	N/A	N/A	N/A
Next Qtr.	4.50%	N/A	N/A	N/A
Current Year	28.20%	N/A	N/A	N/A
Next Year	16.20%	N/A	N/A	N/A
Next 5 Years (per annum)	8.00%	N/A	N/A	N/A
Past 5 Years (per annum)	14.91%	N/A	N/A	N/A



People Also Watch

Symbol	Last Price	Change	% Change
ROP Roper Technologies, Inc.	483.68	+1.03	+0.21%
PNR Pentair plc	77.11	-0.15	-0.19%
DOV Dover Corporation	174.91	-0.88	-0.50%
GWW W.W. Grainger, Inc.	435.67	+1.07	+0.25%
AME AMETEK, Inc.	136.58	-0.54	-0.39%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (10)

Upgrades & Downgrades

Maintains	Rosenblatt: to Buy	7/16/2021
Maintains	Rosenblatt: to Buy	5/3/2021
Maintains	Goldman Sachs: to Sell	4/30/2021
Downgrade	Stifel: Buy to Hold	4/5/2021
Maintains	Rosenblatt: to Buy	2/1/2021
Maintains	Rosenblatt: to Buy	10/30/2020

More Upgrades & Downgrades

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U.S. markets close in 4 hours 44 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,527.50	35,415.71	15,238.75	2,268.32
-1.29 (-0.03%)	+15.87 (+0.04%)	-27.14 (-0.18%)	+2.32 (+0.10%)

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Becton, Dickinson and Company (BDX)

NYSE - Nasdaq Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

251.21 +0.74 (+0.30%)

As of 11:16AM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	15	16	18	18
Avg. Estimate	2.44	2.43	12.88	12.38
Low Estimate	2.36	2.38	12.47	12
High Estimate	2.75	2.53	13	13.55
Year Ago EPS	2.2	2.79	10.2	12.88

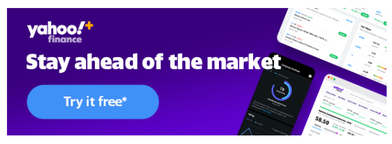
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	12	13	17	17
Avg. Estimate	4.51B	4.9B	20.01B	19.49B
Low Estimate	4.41B	4.85B	19.96B	19.1B
High Estimate	4.59B	5.05B	20.16B	19.94B
Year Ago Sales	N/A	4.78B	17.12B	20.01B
Sales Growth (year/est)	N/A	2.40%	16.90%	-2.60%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	2.04	2.52	3.11	3.04
EPS Actual	2.2	2.79	4.55	3.19
Difference	0.16	0.27	1.44	0.15
Surprise %	7.80%	10.70%	46.30%	4.90%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	2.44	2.43	12.88	12.38
7 Days Ago	2.44	2.43	12.91	12.36
30 Days Ago	2.44	2.64	12.83	13.07
60 Days Ago	2.44	2.65	12.83	13.11
90 Days Ago	2.44	2.65	12.83	13.1

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	1	N/A
Up Last 30 Days	1	1	16	2
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	1	N/A	1

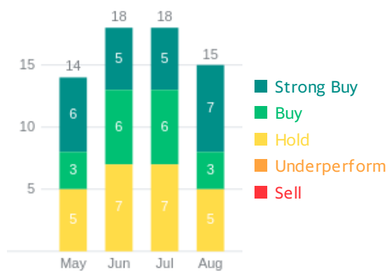
Growth Estimates	BDX	Industry	Sector(s)	S&P 500
Current Qtr.	10.90%	N/A	N/A	N/A
Next Qtr.	-12.90%	N/A	N/A	N/A
Current Year	26.30%	N/A	N/A	N/A
Next Year	-3.90%	N/A	N/A	N/A
Next 5 Years (per annum)	10.10%	N/A	N/A	N/A
Past 5 Years (per annum)	13.57%	N/A	N/A	N/A



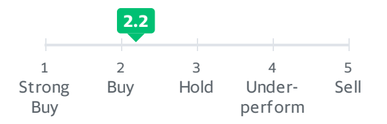
People Also Watch

Symbol	Last Price	Change	% Change
BAX Baxter International Inc.	76.09	+0.09	+0.12%
APD Air Products and Chemicals, Inc.	271.32	+1.12	+0.41%
CAH Cardinal Health, Inc.	52.35	+0.85	+1.64%
ADP Automatic Data Processing, Inc.	208.94	-0.13	-0.06%
CB Chubb Limited	184.85	+1.00	+0.54%

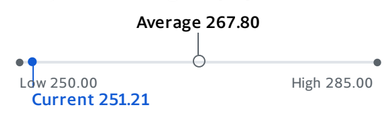
Recommendation Trends



Recommendation Rating



Analyst Price Targets (15)



Upgrades & Downgrades

Downgrade	JP Morgan: Overweight to Neutral	8/6/2021
Maintains	SVB Leerink: to Market Perform	8/6/2021
Initiated	Barclays: to Equal-Weight	5/25/2021
Maintains	SVB Leerink: to Market Perform	5/7/2021
Maintains	Citigroup: to Neutral	2/5/2021
Maintains	Raymond James: to Outperform	1/29/2021

More Upgrades & Downgrades

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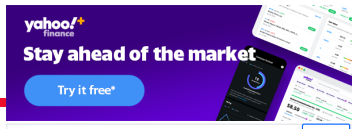


Brown-Forman Corporation (BF-B)
NYSE - Nasdaq Real Time Price. Currency in USD

Add to watchlist | Visitors trend 2W ↓ 10W ↑ 9M ↑

70.11 -0.29 (-0.41%)
As of 11:47AM EDT. Market open.

Summary | Company Outlook | Chart | Conversations | Statistics | Historical Data | Profile | Financials | Analysis | Options | Holders | Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2022)	Next Year (2023)
No. of Analysts	14	14	16	14
Avg. Estimate	0.39	0.54	1.74	1.94
Low Estimate	0.32	0.48	1.62	1.73
High Estimate	0.45	0.58	1.82	2.06
Year Ago EPS	0.4	0.5	1.6	1.74

Revenue Estimate	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2022)	Next Year (2023)
No. of Analysts	9	9	15	13
Avg. Estimate	826.9M	1.06B	3.72B	3.92B
Low Estimate	779.36M	1.03B	3.61B	3.72B
High Estimate	880.2M	1.13B	3.88B	4.08B
Year Ago Sales	N/A	N/A	3.46B	3.72B
Sales Growth (year/est)	N/A	N/A	7.50%	5.50%

Earnings History	7/30/2020	10/30/2020	1/30/2021	4/29/2021
EPS Est.	0.31	0.51	0.43	0.33
EPS Actual	0.4	0.5	0.45	0.25
Difference	0.09	-0.01	0.02	-0.08
Surprise %	29.00%	-2.00%	4.70%	-24.20%

EPS Trend	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2022)	Next Year (2023)
Current Estimate	0.39	0.54	1.74	1.94
7 Days Ago	0.39	0.54	1.74	1.94
30 Days Ago	0.39	0.54	1.74	1.94
60 Days Ago	0.39	0.54	1.74	1.94
90 Days Ago	0.42	0.57	1.89	2.06

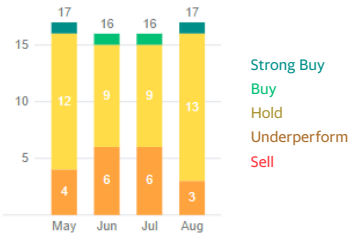
EPS Revisions	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2022)	Next Year (2023)

Quote Lookup

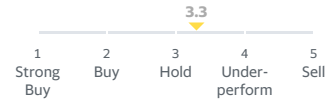
People Also Watch

Symbol	Last Price	Change	% Change
CINF Cincinnati Financial Corporation	123.89	+0.94	+0.77%
CTAS Cintas Corporation	394.34	+0.81	+0.21%
DOV Dover Corporation	175.18	-0.61	-0.35%
MKC McCormick & Company, Incorporated	86.11	+0.66	+0.77%
BF-A Brown-Forman Corporation	66.34	-0.26	-0.39%

Recommendation Trends ›



Recommendation Rating ›



Analyst Price Targets (15) ›

Average 71.73

Low 62.00 High 100.00
Current 70.12

Upgrades & Downgrades ›

Upgrade	UBS: Sell to Neutral	8/26/2021
Maintains	Morgan Stanley: to Underweight	6/10/2021
Downgrade	Redburn: Neutral to Sell	10/13/2020

EPS Revisions	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2022)	Next Year (2023)
Up Last 30 Days	1	N/A	1	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	1	N/A	N/A

Growth Estimates	BF-B	Industry	Sector(s)	S&P 500
Current Qtr.	-2.50%	N/A	N/A	N/A
Next Qtr.	8.00%	N/A	N/A	N/A
Current Year	8.70%	N/A	N/A	N/A
Next Year	11.50%	N/A	N/A	N/A
Next 5 Years (per annum)	8.44%	N/A	N/A	N/A
Past 5 Years (per annum)	5.47%	N/A	N/A	N/A

CINF Cincinnati Financial Corporation	123.89	+0.94	+0.77%
CTAS Cintas Corporation	394.34	+0.81	+0.21%
DOV Dover Corporation	175.18	-0.61	-0.35%
MKC McCormick & Company, Incorporated	86.11	+0.66	+0.77%
BF-A Brown-Forman Corporation	66.34	-0.26	-0.39%

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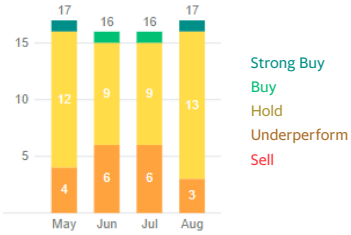
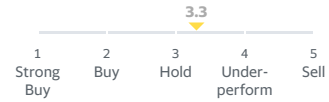
Recommendation Trends ›



Recommendation Rating ›



Analyst Price Targets (15) ›

Average 71.73

Low 62.00 High 100.00

Current 70.12

Upgrades & Downgrades ›

Upgrade	UBS: Sell to Neutral	8/26/2021
Maintains	Morgan Stanley: to Underweight	6/10/2021
Downgrade	Redburn: Neutral to Sell	10/13/2020
Maintains	Morgan Stanley: to Underweight	9/3/2020
Maintains	B of A Securities: to Underperform	8/27/2020
Maintains	Morgan Stanley: to Underweight	6/10/2020

More Upgrades & Downgrades

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U.S. markets close in 4 hours 42 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,529.31	35,429.66	15,246.60	2,267.95
+0.52 (+0.01%)	+29.82 (+0.08%)	-19.29 (-0.13%)	+1.96 (+0.09%)

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Broadridge Financial Solutions, Inc. (BR)

NYSE - Nasdaq Real Time Price. Currency in USD

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173.00 +0.67 (+0.39%)

As of 11:17AM EDT. Market open.

Summary Chart Conversations Statistics Historical Data Profile Financials **Analysis** Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	7	7	6	8
Avg. Estimate	2.19	0.98	5.67	6.4
Low Estimate	2.15	0.83	5.62	6.28
High Estimate	2.24	1.06	5.74	6.55
Year Ago EPS	2.15	0.98	5.03	5.67

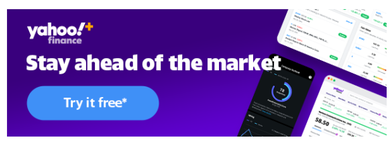
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	7	6	8	7
Avg. Estimate	1.53B	1.15B	4.99B	5.5B
Low Estimate	1.44B	1.12B	4.9B	5.46B
High Estimate	1.5B	1.19B	4.98B	5.56B
Year Ago Sales	1.36B	N/A	4.53B	4.99B
Sales Growth (year/est)	12.50%	N/A	10.30%	10.10%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	2.09	0.63	0.7	1.68
EPS Actual	2.15	0.98	0.73	1.76
Difference	0.06	0.35	0.03	0.08
Surprise %	2.90%	55.60%	4.30%	4.80%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	2.19	0.98	5.67	6.4
7 Days Ago	2.19	0.97	5.67	6.38
30 Days Ago	2.19	0.89	5.67	6.26
60 Days Ago	2.19	0.89	5.67	6.26
90 Days Ago	2.19	0.89	5.67	6.26

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	N/A	4	N/A	7
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	1	N/A	N/A

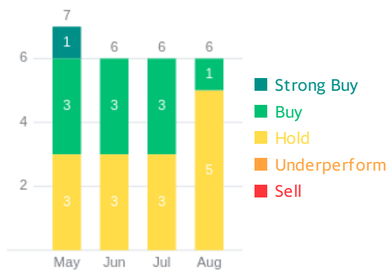
Growth Estimates	BR	Industry	Sector(s)	S&P 500
Current Qtr.	1.90%	N/A	N/A	N/A
Next Qtr.	N/A	N/A	N/A	N/A
Current Year	12.70%	N/A	N/A	N/A
Next Year	12.90%	N/A	N/A	N/A
Next 5 Years (per annum)	11.80%	N/A	N/A	N/A
Past 5 Years (per annum)	24.69%	N/A	N/A	N/A



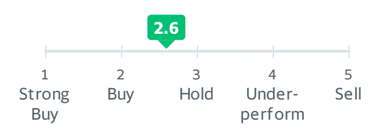
People Also Watch

Symbol	Last Price	Change	% Change
ADP Automatic Data Processing, Inc.	209.00	-0.07	-0.03%
CDK CDK Global, Inc.	41.67	+0.17	+0.40%
JKHY Jack Henry & Associates, Inc.	177.53	+1.21	+0.69%
AVY Avery Dennison Corporation	225.98	+0.04	+0.02%
APH Amphenol Corporation	76.35	-0.58	-0.75%

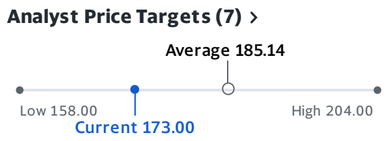
Recommendation Trends



Recommendation Rating



Analyst Price Targets (7)



Upgrades & Downgrades

Maintains	JP Morgan: to Neutral	8/17/2021
Maintains	DA Davidson: to Neutral	8/16/2021
Maintains	Raymond James: to Outperform	8/13/2021
Maintains	Raymond James: to Outperform	2/3/2021
Upgrade	BTIG: Neutral to Buy	2/3/2021
Initiated	Truist Securities: to Buy	12/18/2020

More Upgrades & Downgrades

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U.S. markets close in 4 hours 42 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,529.43	35,432.58	15,246.54	2,267.91
+0.64 (+0.01%)	+32.74 (+0.09%)	-19.35 (-0.13%)	+1.92 (+0.08%)

Advertisement

CACI International Inc (CACI)

Add to watchlist

NYSE - NYSE Delayed Price. Currency in USD

Quote Lookup

257.85 +1.11 (+0.43%)

As of 11:03AM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	12	10	12	10
Avg. Estimate	5.58	3.81	18.17	17.54
Low Estimate	3	3.31	15.69	16.2
High Estimate	6.34	4.39	18.85	18.85
Year Ago EPS	3.68	3.67	12.61	18.17

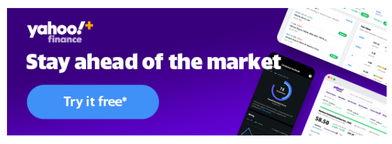
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	11	11	13	12
Avg. Estimate	1.56B	1.49B	6.04B	6.31B
Low Estimate	1.53B	1.48B	6.01B	6.26B
High Estimate	1.6B	1.51B	6.08B	6.39B
Year Ago Sales	1.5B	1.45B	5.72B	6.04B
Sales Growth (year/est)	4.60%	2.80%	5.70%	4.40%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	3.44	3.11	3.6	3.7
EPS Actual	3.68	3.67	4.18	4.78
Difference	0.24	0.56	0.58	1.08
Surprise %	7.00%	18.00%	16.10%	29.20%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	5.58	3.81	18.17	17.54
7 Days Ago	5.58	3.96	18.17	17.5
30 Days Ago	5.58	3.89	18.17	17.06
60 Days Ago	5.56	3.92	18.14	17.01
90 Days Ago	5.79	3.92	18.37	17.08

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	1	N/A	1
Up Last 30 Days	2	4	2	6
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	1	N/A	1

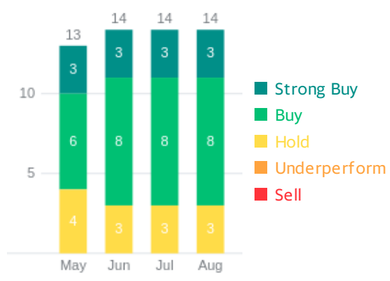
Growth Estimates	CACI	Industry	Sector(s)	S&P 500
Current Qtr.	51.60%	N/A	N/A	N/A
Next Qtr.	3.80%	N/A	N/A	N/A
Current Year	44.10%	N/A	N/A	N/A
Next Year	-3.50%	N/A	N/A	N/A
Next 5 Years (per annum)	1.44%	N/A	N/A	N/A
Past 5 Years (per annum)	18.13%	N/A	N/A	N/A



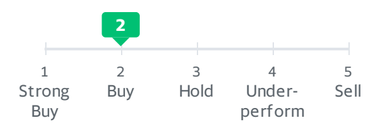
People Also Watch

Symbol	Last Price	Change	% Change
MANT ManTech International Corporation	80.07	+0.32	+0.39%
SAIC Science Applications International Corp...	84.49	+0.16	+0.19%
BAH Booz Allen Hamilton Holding Corporation	82.13	+0.37	+0.45%
LDOS Leidos Holdings, Inc.	97.57	-0.49	-0.50%
CHE Chemed Corporation	474.08	+1.77	+0.37%

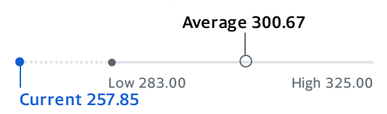
Recommendation Trends



Recommendation Rating



Analyst Price Targets (12)



Upgrades & Downgrades

Maintains	Morgan Stanley: to Equal-Weight	6/14/2021
Initiated	Wells Fargo: to Overweight	5/13/2021
Maintains	Barclays: to Overweight	4/26/2021
Maintains	Morgan Stanley: to Equal-Weight	2/22/2021
Maintains	Morgan Stanley: to Equal-Weight	2/19/2021
Maintains	Truist Securities: to Buy	1/29/2021

More Upgrades & Downgrades

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U.S. markets close in 4 hours 41 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,529.65	35,438.99	15,246.98	2,267.58
+0.86 (+0.02%)	+39.15 (+0.11%)	-18.91 (-0.12%)	+1.59 (+0.07%)

Advertisement

Cerner Corporation (CERN)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

76.40 +0.17 (+0.23%)

As of 11:18AM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	18	16	18	18
Avg. Estimate	0.76	0.82	3.26	3.59
Low Estimate	0.74	0.81	3.24	2.29
High Estimate	0.76	0.83	3.32	3.79
Year Ago EPS	0.63	0.72	2.84	3.26

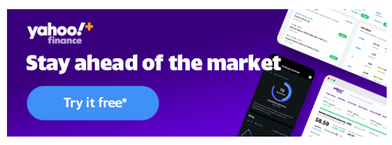
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	16	14	17	17
Avg. Estimate	1.46B	1.45B	5.79B	6.1B
Low Estimate	1.42B	1.45B	5.76B	6B
High Estimate	1.46B	1.46B	5.82B	6.2B
Year Ago Sales	1.33B	1.37B	5.51B	5.79B
Sales Growth (year/est)	9.50%	5.90%	5.20%	5.30%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.61	0.71	0.78	0.74
EPS Actual	0.63	0.72	0.78	0.76
Difference	0.02	0.01	0	0.02
Surprise %	3.30%	1.40%	0.00%	2.70%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.76	0.82	3.26	3.59
7 Days Ago	0.76	0.82	3.26	3.59
30 Days Ago	0.76	0.82	3.22	3.63
60 Days Ago	0.76	0.82	3.23	3.63
90 Days Ago	0.76	0.82	3.23	3.62

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	1	6	18	11
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

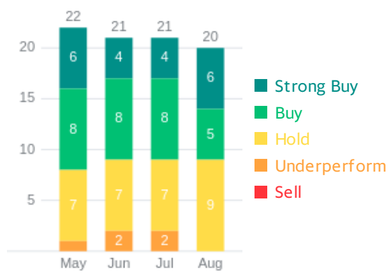
Growth Estimates	CERN	Industry	Sector(s)	S&P 500
Current Qtr.	20.60%	N/A	N/A	N/A
Next Qtr.	13.90%	N/A	N/A	N/A
Current Year	14.80%	N/A	N/A	N/A
Next Year	10.10%	N/A	N/A	N/A
Next 5 Years (per annum)	11.81%	N/A	N/A	N/A
Past 5 Years (per annum)	6.87%	N/A	N/A	N/A



People Also Watch

Symbol	Last Price	Change	% Change
CTSH Cognizant Technology Solutions Corpor...	76.55	-0.30	-0.39%
HSIC Henry Schein, Inc.	75.54	+0.36	+0.48%
FAST Fastenal Company	56.03	-0.10	-0.18%
XRAY DENTSPLY SIRONA Inc.	61.48	+0.20	+0.33%
CHRW C.H. Robinson Worldwide, Inc.	89.67	-1.09	-1.20%

Recommendation Trends ›



Recommendation Rating ›

Analyst Price Targets (20) ›

Upgrades & Downgrades ›

Maintains	Morgan Stanley: to Underweight	8/31/2021
Maintains	Canaccord Genuity: to Buy	8/2/2021
Maintains	SVB Leerink: to Outperform	8/2/2021
Maintains	SVB Leerink: to Outperform	5/6/2021
Maintains	Piper Sandler: to Overweight	2/16/2021
Maintains	Morgan Stanley: to Underweight	2/11/2021

More Upgrades & Downgrades

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U.S. markets close in 4 hours 41 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,529.77	35,437.82	15,247.56	2,267.57
+0.98 (+0.02%)	+37.98 (+0.11%)	-18.33 (-0.12%)	+1.58 (+0.07%)

Advertisement

Chemed Corporation (CHE)

NYSE - Nasdaq Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

474.08 +1.77 (+0.37%)

As of 11:14AM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	3	3	4	4
Avg. Estimate	4.52	4.88	17.94	19.3
Low Estimate	4.5	4.84	16.43	18.22
High Estimate	4.56	4.91	18.48	20.33
Year Ago EPS	4.86	5.13	18.08	17.94

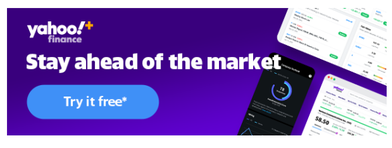
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	3	3	4	4
Avg. Estimate	531.87M	543.42M	2.14B	2.23B
Low Estimate	530.72M	541.98M	2.13B	2.21B
High Estimate	532.7M	544.92M	2.14B	2.24B
Year Ago Sales	N/A	533.29M	2.08B	2.14B
Sales Growth (year/est)	N/A	1.90%	2.70%	4.30%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	3.97	5.13	4.02	4.29
EPS Actual	4.86	5.13	4.44	4.6
Difference	0.89	0	0.42	0.31
Surprise %	22.40%	0.00%	10.40%	7.20%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	4.52	4.88	17.94	19.3
7 Days Ago	4.52	4.88	18.44	19.67
30 Days Ago	4.41	4.79	17.54	18.46
60 Days Ago	4.38	4.66	17.35	18.44
90 Days Ago	4.38	4.66	17.77	19.01

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	1	N/A
Up Last 30 Days	N/A	N/A	1	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

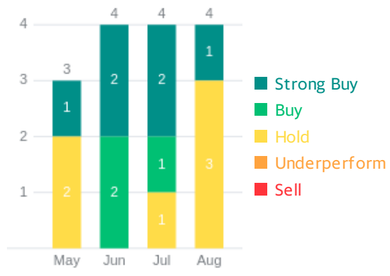
Growth Estimates	CHE	Industry	Sector(s)	S&P 500
Current Qtr.	-7.00%	N/A	N/A	N/A
Next Qtr.	-4.90%	N/A	N/A	N/A
Current Year	-0.80%	N/A	N/A	N/A
Next Year	7.60%	N/A	N/A	N/A
Next 5 Years (per annum)	7.55%	N/A	N/A	N/A
Past 5 Years (per annum)	18.23%	N/A	N/A	N/A



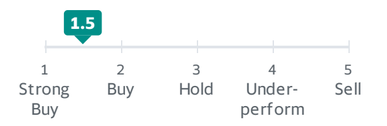
People Also Watch

Symbol	Last Price	Change	% Change
LHCG LHC Group, Inc.	182.67	+0.10	+0.05%
AMED Amedisys, Inc.	176.90	+0.69	+0.39%
ENSG The Ensign Group, Inc.	81.41	+0.05	+0.06%
CRL Charles River Laboratories International,...	442.20	-2.48	-0.56%
WST West Pharmaceutical Services, Inc.	452.74	+1.05	+0.23%

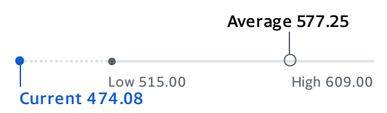
Recommendation Trends



Recommendation Rating



Analyst Price Targets (4)



Upgrades & Downgrades

Maintains	RBC Capital: to Outperform	7/29/2021
Maintains	Oppenheimer: to Outperform	2/25/2021
Upgrade	RBC Capital: Sector Perform to Outperform	3/11/2020
Maintains	Oppenheimer: to Outperform	2/19/2020
Maintains	Oppenheimer: to Perform	11/25/2019
Upgrade	JMP Securities: Market Perform to Market Outperform	11/1/2019

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U.S. markets close in 3 hours 45 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,528.74	35,435.37	15,250.11	2,271.54
-0.05 (-0.00%)	+35.53 (+0.10%)	-15.78 (-0.10%)	+5.55 (+0.24%)

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The Cooper Companies, Inc. (COO)

NYSE - Nasdaq Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

445.08 -4.30 (-0.96%)

As of 12:15PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	12	12	16	16
Avg. Estimate	3.29	3.49	13.33	14.66
Low Estimate	3.22	3.37	13.2	13.75
High Estimate	3.41	3.58	13.38	15.27
Year Ago EPS	2.28	3.16	9.64	13.33

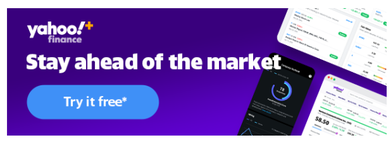
Revenue Estimate	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	11	11	15	15
Avg. Estimate	726.78M	748.67M	2.88B	3.07B
Low Estimate	714.5M	734.7M	2.87B	3.03B
High Estimate	742.7M	757.7M	2.9B	3.13B
Year Ago Sales	N/A	681.6M	2.43B	2.88B
Sales Growth (year/est)	N/A	9.80%	18.30%	6.70%

Earnings History	7/30/2020	10/30/2020	1/30/2021	4/29/2021
EPS Est.	1.52	3.09	2.78	3.09
EPS Actual	2.28	3.16	3.17	3.38
Difference	0.76	0.07	0.39	0.29
Surprise %	50.00%	2.30%	14.00%	9.40%

EPS Trend	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	3.29	3.49	13.33	14.66
7 Days Ago	3.29	3.49	13.32	14.66
30 Days Ago	3.29	3.49	13.32	14.66
60 Days Ago	3.29	3.49	13.33	14.73
90 Days Ago	3.24	3.53	13.04	14.51

EPS Revisions	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	1	1	1	1
Up Last 30 Days	1	1	2	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

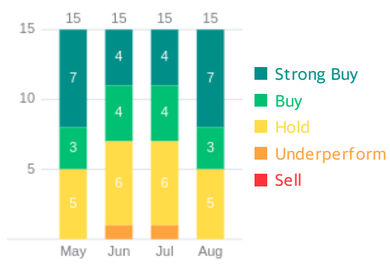
Growth Estimates	COO	Industry	Sector(s)	S&P 500
Current Qtr.	44.30%	N/A	N/A	N/A
Next Qtr.	10.40%	N/A	N/A	N/A
Current Year	38.30%	N/A	N/A	N/A
Next Year	10.00%	N/A	N/A	N/A
Next 5 Years (per annum)	10.00%	N/A	N/A	N/A
Past 5 Years (per annum)	13.11%	N/A	N/A	N/A



People Also Watch

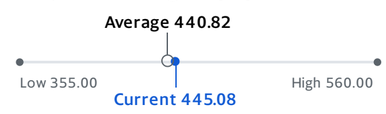
Symbol	Last Price	Change	% Change
MTD Mettler-Toledo International Inc.	1,556.75	-31.98	-2.01%
TFX Teleflex Incorporated	394.73	+2.15	+0.55%
XRAY DENTSPLY SIRONA Inc.	61.39	+0.11	+0.18%
STE STERIS plc	213.92	-0.70	-0.33%
RMD ResMed Inc.	288.61	-0.45	-0.16%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (11)



Upgrades & Downgrades

Maintains	Wells Fargo: to Overweight	8/19/2021
Maintains	Stephens & Co.: to Overweight	7/16/2021
Maintains	Stifel: to Buy	7/1/2021
Maintains	Piper Sandler: to Overweight	6/1/2021
Maintains	Keybanc: to Overweight	4/28/2021
Maintains	Jefferies: to Buy	3/5/2021

More Upgrades & Downgrades

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U.S. markets close in 3 hours 45 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,528.72	35,433.45	15,250.01	2,271.56
-0.07 (-0.00%)	+33.61 (+0.09%)	-15.88 (-0.10%)	+5.57 (+0.25%)

Advertisement

CSW Industrials, Inc. (CSWI)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

133.89 -1.31 (-0.97%)

As of 12:09PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2022)	Next Year (2023)
No. of Analysts	2	2	2	2
Avg. Estimate	1.3	1.37	4.57	5.27
Low Estimate	1.16	1.23	4.52	5.23
High Estimate	1.45	1.51	4.63	5.31
Year Ago EPS	0.81	1.1	2.66	4.57

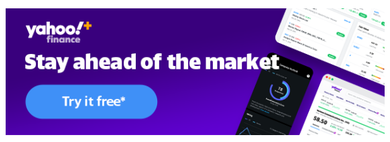
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2022)	Next Year (2023)
No. of Analysts	2	1	1	1
Avg. Estimate	161.27M	139.99M	542M	580.5M
Low Estimate	136.6M	139.99M	542M	580.5M
High Estimate	137.99M	139.99M	542M	580.5M
Year Ago Sales	81.23M	N/A	419.2M	542M
Sales Growth (year/est)	98.50%	N/A	29.30%	7.10%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.58	0.95	0.34	0.97
EPS Actual	0.81	1.1	0.16	0.61
Difference	0.23	0.15	-0.18	-0.36
Surprise %	39.70%	15.80%	-52.90%	-37.10%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2022)	Next Year (2023)
Current Estimate	1.3	1.37	4.57	5.27
7 Days Ago	1.3	1.37	4.57	5.27
30 Days Ago	1.3	1.23	4.45	5.16
60 Days Ago	1.3	1.23	4.45	5.16
90 Days Ago	1.45	1.24	4.35	5.33

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2022)	Next Year (2023)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	N/A	1	1	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

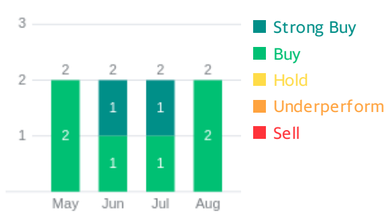
Growth Estimates	CSWI	Industry	Sector(s)	S&P 500
Current Qtr.	60.50%	N/A	N/A	N/A
Next Qtr.	24.50%	N/A	N/A	N/A
Current Year	71.80%	N/A	N/A	N/A
Next Year	15.30%	N/A	N/A	N/A
Next 5 Years (per annum)	12.00%	N/A	N/A	N/A
Past 5 Years (per annum)	31.68%	N/A	N/A	N/A



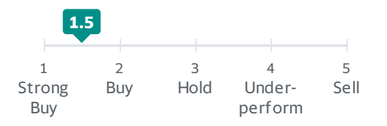
People Also Watch

Symbol	Last Price	Change	% Change
CNXN PC Connection, Inc.	49.06	+0.37	+0.76%
EQBK Equity Bancshares, Inc.	32.15	+0.18	+0.56%
FRPH FRP Holdings, Inc.	57.90	+0.21	+0.36%
HLNE Hamilton Lane Incorporated	87.15	-1.51	-1.70%
ACBI Atlantic Capital Bancshares, Inc.	24.36	+0.33	+1.37%

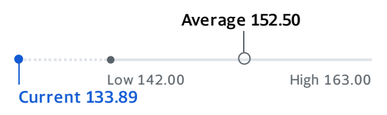
Recommendation Trends



Recommendation Rating



Analyst Price Targets (2)



Upgrades & Downgrades

Initiated	Barrington Research: to Outperform	1/19/2021
Maintains	Sidoti & Co.: to Neutral	5/14/2020
Maintains	Sidoti & Co.: to Neutral	1/28/2020
Maintains	B. Riley FBR: Buy to Buy	8/2/2018
Initiated	Wunderlich: to Buy	6/16/2016

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U.S. markets close in 3 hours 46 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000	Crude Oil	Gold
4,528.88	35,435.60	15,250.71	2,271.47	68.81	1,811.10
+0.09 (+0.00%)	+35.76 (+0.10%)	-15.18 (-0.10%)	+5.48 (+0.24%)	-0.40 (-0.58%)	-1.10 (-0.06%)

Quest Diagnostics Incorporated (DGX)

NYSE - Nasdaq Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

152.03 +1.26 (+0.84%)

As of 12:14PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	14	14	16	16
Avg. Estimate	2.26	2.01	11.23	8.18
Low Estimate	2.03	1.87	10.98	7.85
High Estimate	3.18	2.31	12.35	10.1
Year Ago EPS	4.31	4.48	11.18	11.23

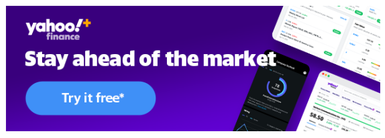
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	13	13	16	16
Avg. Estimate	2.27B	2.17B	9.72B	8.76B
Low Estimate	2.13B	2.1B	9.49B	8.37B
High Estimate	2.53B	2.29B	10.08B	9.91B
Year Ago Sales	N/A	3B	9.44B	9.72B
Sales Growth (year/est)	N/A	-27.60%	3.00%	-9.80%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	3.73	4.24	3.71	2.87
EPS Actual	4.31	4.48	3.76	3.18
Difference	0.58	0.24	0.05	0.31
Surprise %	15.50%	5.70%	1.30%	10.80%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	2.26	2.01	11.23	8.18
7 Days Ago	2.2	2	11.16	8.18
30 Days Ago	2.2	2.01	11.16	8.24
60 Days Ago	2.32	2.15	11.13	8
90 Days Ago	2.31	2.13	11.1	8

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	3	2	2	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

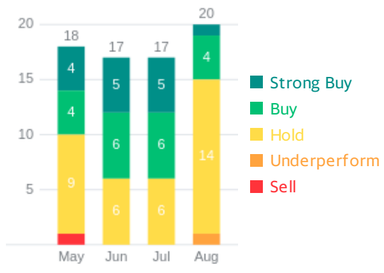
Growth Estimates	DGX	Industry	Sector(s)	S&P 500
Current Qtr.	-47.60%	N/A	N/A	N/A
Next Qtr.	-55.10%	N/A	N/A	N/A
Current Year	0.40%	N/A	N/A	N/A
Next Year	-27.20%	N/A	N/A	N/A
Next 5 Years (per annum)	-8.60%	N/A	N/A	N/A
Past 5 Years (per annum)	9.20%	N/A	N/A	N/A



People Also Watch

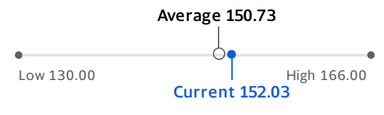
Symbol	Last Price	Change	% Change
LH Laboratory Corporation of America Hold...	304.10	+0.92	+0.30%
ABC AmerisourceBergen Corporation	122.06	+2.54	+2.13%
DVA DaVita Inc.	131.26	+0.12	+0.09%
PKI PerkinElmer, Inc.	184.84	-3.11	-1.65%
BDX Becton, Dickinson and Company	250.68	+0.21	+0.08%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (15)



Upgrades & Downgrades

Maintains	Morgan Stanley: to Equal-Weight	8/31/2021
Maintains	Mizuho: to Buy	8/19/2021
Maintains	Credit Suisse: to Neutral	8/13/2021
Maintains	Mizuho: to Buy	5/12/2021
Upgrade	UBS: Neutral to Buy	5/4/2021
Maintains	Morgan Stanley: to Equal-Weight	3/12/2021

More Upgrades & Downgrades

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U.S. markets close in 3 hours 45 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,528.84	35,434.47	15,250.90	2,271.46
+0.05 (+0.00%)	+34.63 (+0.10%)	-14.99 (-0.10%)	+5.47 (+0.24%)

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The Estée Lauder Companies Inc. (EL)

NYSE - Nasdaq Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

341.61 -1.87 (-0.54%)

As of 12:14PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	21	20	26	23
Avg. Estimate	0.5	1.69	6.18	7.44
Low Estimate	0.42	1.6	6.09	7.27
High Estimate	0.65	1.95	6.35	7.75
Year Ago EPS	-0.53	1.44	4.16	6.18

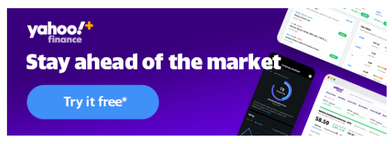
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	17	15	23	22
Avg. Estimate	3.94B	4.25B	16.23B	18.82B
Low Estimate	3.62B	4.19B	15.88B	18.59B
High Estimate	3.94B	4.34B	16.51B	19.27B
Year Ago Sales	2.43B	N/A	14.29B	16.23B
Sales Growth (year/est)	62.10%	N/A	13.50%	16.00%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	-0.19	0.9	1.69	1.32
EPS Actual	-0.53	1.44	2.61	1.62
Difference	-0.34	0.54	0.92	0.3
Surprise %	-178.90%	60.00%	54.40%	22.70%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.5	1.69	6.18	7.44
7 Days Ago	0.5	1.83	6.18	7.14
30 Days Ago	0.5	1.84	6.18	7.15
60 Days Ago	0.5	1.85	6.17	7.14
90 Days Ago	0.5	1.85	6.17	7.15

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	1	N/A	1	13
Up Last 30 Days	4	2	4	20
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	1	10	1	2

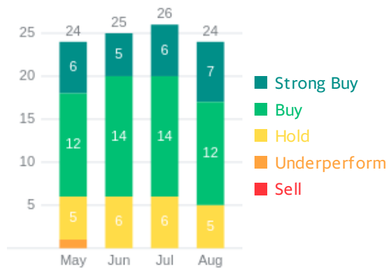
Growth Estimates	EL	Industry	Sector(s)	S&P 500
Current Qtr.	194.30%	N/A	N/A	N/A
Next Qtr.	17.40%	N/A	N/A	N/A
Current Year	48.60%	N/A	N/A	N/A
Next Year	20.40%	N/A	N/A	N/A
Next 5 Years (per annum)	18.71%	N/A	N/A	N/A
Past 5 Years (per annum)	15.08%	N/A	N/A	N/A



People Also Watch

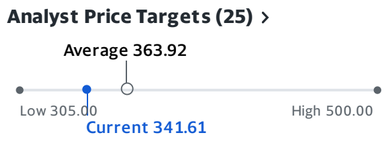
Symbol	Last Price	Change	% Change
CL Colgate-Palmolive Company	77.71	+0.06	+0.08%
PG The Procter & Gamble Company	142.73	-0.20	-0.14%
LRLCY L'Oréal S.A.	93.49	-0.21	-0.22%
COTY Coty Inc.	9.71	+0.19	+2.00%
KMB Kimberly-Clark Corporation	136.71	-0.03	-0.02%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (25)



Upgrades & Downgrades

Maintains	Berenberg: to Buy	8/23/2021
Maintains	Morgan Stanley: to Overweight	8/23/2021
Maintains	RBC Capital: to Outperform	8/20/2021
Maintains	Credit Suisse: to Outperform	8/20/2021
Maintains	DA Davidson: to Buy	8/20/2021
Maintains	Wells Fargo: to Overweight	8/20/2021

More Upgrades & Downgrades

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U.S. markets close in 3 hours 45 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,528.69	35,433.87	15,250.42	2,271.54
-0.10 (-0.00%)	+34.03 (+0.10%)	-15.47 (-0.10%)	+5.55 (+0.24%)

Advertisement

Exponent, Inc. (EXPO)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

116.86 -0.03 (-0.03%)

As of 12:14PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	2	2	2	2
Avg. Estimate	0.42	0.39	1.78	1.92
Low Estimate	0.42	0.39	1.78	1.87
High Estimate	0.42	0.4	1.79	1.97
Year Ago EPS	0.31	0.34	1.55	1.78

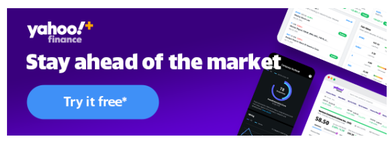
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	1	1	1	1
Avg. Estimate	119.88M	103.64M	425.44M	457.96M
Low Estimate	112.47M	103.64M	425.44M	457.96M
High Estimate	112.47M	103.64M	425.44M	457.96M
Year Ago Sales	88.34M	N/A	399.9M	425.44M
Sales Growth (year/est)	35.70%	N/A	6.40%	7.60%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.25	0.31	0.28	0.42
EPS Actual	0.31	0.34	0.41	0.58
Difference	0.06	0.03	0.13	0.16
Surprise %	24.00%	9.70%	46.40%	38.10%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.42	0.39	1.78	1.92
7 Days Ago	0.42	0.39	1.78	1.92
30 Days Ago	0.42	0.37	1.72	1.86
60 Days Ago	0.42	0.37	1.72	1.86
90 Days Ago	0.42	0.39	1.76	1.91

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	N/A	2	2	2
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

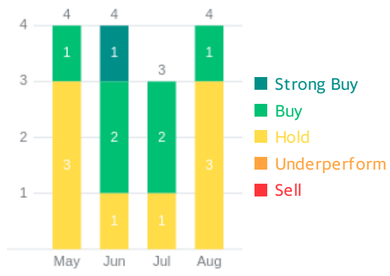
Growth Estimates	EXPO	Industry	Sector(s)	S&P 500
Current Qtr.	35.50%	N/A	N/A	N/A
Next Qtr.	14.70%	N/A	N/A	N/A
Current Year	14.80%	N/A	N/A	N/A
Next Year	7.90%	N/A	N/A	N/A
Next 5 Years (per annum)	15.00%	N/A	N/A	N/A
Past 5 Years (per annum)	17.85%	N/A	N/A	N/A



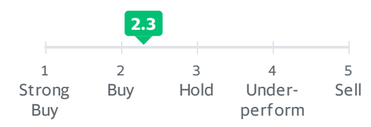
People Also Watch

Symbol	Last Price	Change	% Change
EXLS ExlService Holdings, Inc.	123.01	-0.02	-0.02%
AAON AAON, Inc.	68.47	-0.73	-1.05%
FORR Forrester Research, Inc.	48.08	-0.18	-0.37%
NEOG Neogen Corporation	43.94	+0.15	+0.33%
ROLL RBC Bearings Incorporated	233.17	+0.65	+0.28%

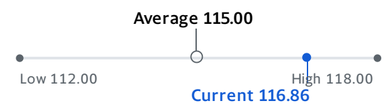
Recommendation Trends



Recommendation Rating



Analyst Price Targets (2)



Upgrades & Downgrades

Maintains	Truist Securities: to Buy	8/2/2021
Maintains	Sidoti & Co.: to Buy	6/2/2020
Upgrade	Sidoti & Co.: Neutral to Buy	5/13/2020
Maintains	Sidoti & Co.: to Neutral	5/1/2020
Upgrade	Sidoti & Co.: Neutral to Buy	3/19/2020
Maintains	Sidoti & Co.: to Neutral	2/7/2020

More Upgrades & Downgrades

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U.S. markets close in 3 hours 44 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,528.60	35,430.85	15,250.60	2,272.04
-0.19 (-0.00%)	+31.01 (+0.09%)	-15.29 (-0.10%)	+6.05 (+0.27%)

Advertisement

The Hershey Company (HSY)

NYSE - Nasdaq Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

177.59 +1.06 (+0.60%)

As of 12:15PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	15	16	20	20
Avg. Estimate	1.43	1.98	6.89	7.4
Low Estimate	1.38	1.78	6.79	6.78
High Estimate	1.52	2.18	6.97	7.69
Year Ago EPS	1.31	1.86	6.29	6.89

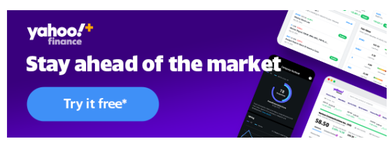
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	12	12	18	17
Avg. Estimate	1.99B	2.29B	8.77B	9.02B
Low Estimate	1.75B	2.24B	8.3B	8.84B
High Estimate	1.88B	2.35B	8.87B	9.21B
Year Ago Sales	1.74B	2.16B	8.15B	8.77B
Sales Growth (year/est)	14.20%	5.80%	7.60%	2.90%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	1.13	1.72	1.43	1.8
EPS Actual	1.31	1.86	1.49	1.92
Difference	0.18	0.14	0.06	0.12
Surprise %	15.90%	8.10%	4.20%	6.70%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	1.43	1.98	6.89	7.4
7 Days Ago	1.43	1.98	6.89	7.43
30 Days Ago	1.43	1.98	6.89	7.29
60 Days Ago	1.43	1.97	6.89	7.28
90 Days Ago	1.44	1.97	6.89	7.28

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	1	N/A	1	N/A
Up Last 30 Days	3	6	8	8
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	1

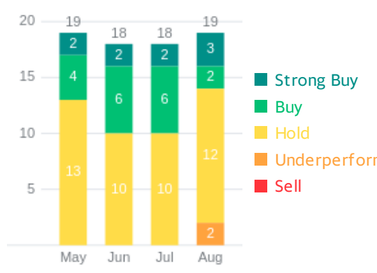
Growth Estimates	HSY	Industry	Sector(s)	S&P 500
Current Qtr.	9.20%	N/A	N/A	N/A
Next Qtr.	6.50%	N/A	N/A	N/A
Current Year	9.50%	N/A	N/A	N/A
Next Year	7.40%	N/A	N/A	N/A
Next 5 Years (per annum)	8.82%	N/A	N/A	N/A
Past 5 Years (per annum)	8.81%	N/A	N/A	N/A



People Also Watch

Symbol	Last Price	Change	% Change
K Kellogg Company	62.75	+0.17	+0.27%
CPB Campbell Soup Company	41.37	+0.41	+0.99%
GIS General Mills, Inc.	57.59	+0.01	+0.02%
MKC McCormick & Company, Incorporated	86.14	+0.69	+0.81%
CL Colgate-Palmolive Company	77.72	+0.07	+0.09%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (19)

Upgrades & Downgrades

Maintains	Morgan Stanley: to Equal-Weight	7/30/2021
Maintains	RBC Capital: to Outperform	7/30/2021
Maintains	BMO Capital: to Outperform	7/30/2021
Maintains	Credit Suisse: to Outperform	7/30/2021
Maintains	Deutsche Bank: to Hold	7/22/2021
Maintains	Morgan Stanley: to Equal-Weight	4/30/2021

More Upgrades & Downgrades

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U.S. markets close in 3 hours 41 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,528.44	35,432.30	15,248.17	2,271.84
-0.35 (-0.01%)	+32.46 (+0.09%)	-17.72 (-0.12%)	+5.85 (+0.26%)

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Ingredion Incorporated (INGR)

NYSE - Nasdaq Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

88.21 +0.44 (+0.50%)

As of 12:19PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	4	4	5	5
Avg. Estimate	1.59	1.39	6.63	7.1
Low Estimate	1.51	1.27	6.55	6.9
High Estimate	1.72	1.63	6.76	7.46
Year Ago EPS	1.12	1.77	6.23	6.63

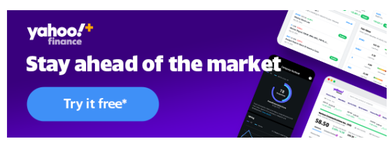
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	4	4	5	5
Avg. Estimate	1.76B	1.71B	6.78B	7.05B
Low Estimate	1.65B	1.68B	6.66B	6.81B
High Estimate	1.81B	1.77B	6.96B	7.51B
Year Ago Sales	1.35B	1.47B	5.99B	6.78B
Sales Growth (year/est)	30.60%	16.60%	13.30%	3.90%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	1.35	1.45	1.46	1.62
EPS Actual	1.12	1.77	1.75	1.85
Difference	-0.23	0.32	0.29	0.23
Surprise %	-17.00%	22.10%	19.90%	14.20%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	1.59	1.39	6.63	7.1
7 Days Ago	1.59	1.39	6.63	7.1
30 Days Ago	1.59	1.58	6.58	7.07
60 Days Ago	1.55	1.57	6.53	7.06
90 Days Ago	1.55	1.57	6.53	7.06

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	2	1	4	3
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

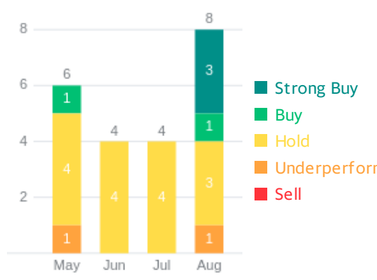
Growth Estimates	INGR	Industry	Sector(s)	S&P 500
Current Qtr.	42.00%	N/A	N/A	N/A
Next Qtr.	-21.50%	N/A	N/A	N/A
Current Year	6.40%	N/A	N/A	N/A
Next Year	7.10%	N/A	N/A	N/A
Next 5 Years (per annum)	1.90%	N/A	N/A	N/A
Past 5 Years (per annum)	3.70%	N/A	N/A	N/A



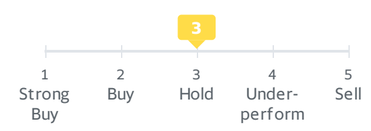
People Also Watch

Symbol	Last Price	Change	% Change
POST Post Holdings, Inc.	112.03	+0.10	+0.09%
FLO Flowers Foods, Inc.	24.17	+0.07	+0.29%
THS TreeHouse Foods, Inc.	37.56	+2.28	+6.46%
JJSF J & J Snack Foods Corp.	163.35	+1.33	+0.82%
LANC Lancaster Colony Corporation	177.63	+0.35	+0.20%

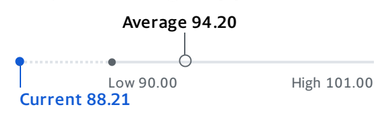
Recommendation Trends



Recommendation Rating



Analyst Price Targets (5)



Upgrades & Downgrades

Downgrade	Stephens & Co.: Overweight to Equal-Weight	5/5/2021
Maintains	Credit Suisse: to Neutral	2/4/2021
Maintains	BMO Capital: to Market Perform	5/6/2020
Maintains	Credit Suisse: to Neutral	5/6/2020
Upgrade	Goldman Sachs: Sell to Neutral	3/26/2020
Maintains	BMO Capital: to Market Perform	2/12/2020

More Upgrades & Downgrades

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U.S. markets close in 3 hours 41 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,528.19	35,431.30	15,247.75	2,271.90
-0.60 (-0.01%)	+31.46 (+0.09%)	-18.14 (-0.12%)	+5.91 (+0.26%)

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J.B. Hunt Transport Services, Inc. (JBHT)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

179.03 -3.68 (-2.01%)

As of 12:19PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	19	19	24	24
Avg. Estimate	1.8	1.93	6.68	7.77
Low Estimate	1.7	1.78	6.16	6.98
High Estimate	1.86	2.09	6.9	8.45
Year Ago EPS	1.18	1.44	4.74	6.68

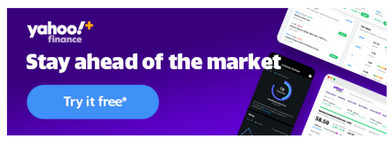
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	16	16	21	21
Avg. Estimate	3.01B	3.16B	11.75B	12.74B
Low Estimate	2.89B	3.04B	11.49B	11.8B
High Estimate	3.1B	3.27B	12.11B	13.39B
Year Ago Sales	2.47B	2.74B	9.64B	11.75B
Sales Growth (year/est)	21.80%	15.40%	21.90%	8.50%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	1.28	1.29	1.16	1.57
EPS Actual	1.18	1.44	1.37	1.61
Difference	-0.1	0.15	0.21	0.04
Surprise %	-7.80%	11.60%	18.10%	2.50%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	1.8	1.93	6.68	7.77
7 Days Ago	1.8	1.93	6.68	7.77
30 Days Ago	1.79	1.92	6.68	7.78
60 Days Ago	1.75	1.88	6.58	7.65
90 Days Ago	1.74	1.87	6.59	7.62

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	N/A	N/A	N/A	N/A
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

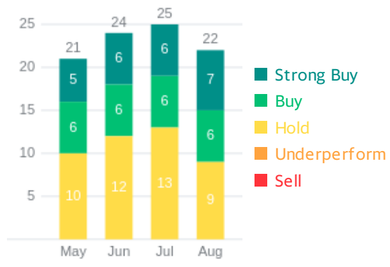
Growth Estimates	JBHT	Industry	Sector(s)	S&P 500
Current Qtr.	52.50%	N/A	N/A	N/A
Next Qtr.	34.00%	N/A	N/A	N/A
Current Year	40.90%	N/A	N/A	N/A
Next Year	16.30%	N/A	N/A	N/A
Next 5 Years (per annum)	20.50%	N/A	N/A	N/A
Past 5 Years (per annum)	10.72%	N/A	N/A	N/A



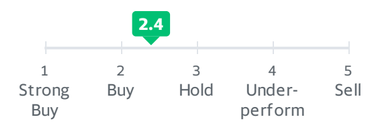
People Also Watch

Symbol	Last Price	Change	% Change
LSTR Landstar System, Inc.	169.65	-2.18	-1.27%
CHRW C.H. Robinson Worldwide, Inc.	90.31	-0.46	-0.50%
ODFL Old Dominion Freight Line, Inc.	289.79	-3.85	-1.31%
WERN Werner Enterprises, Inc.	47.80	-0.58	-1.20%
EXPD Expeditors International of Washington, ...	124.49	-1.05	-0.84%

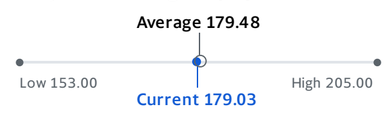
Recommendation Trends



Recommendation Rating



Analyst Price Targets (21)



Upgrades & Downgrades

Maintains	Deutsche Bank: to Hold	7/21/2021
Maintains	BMO Capital: to Market Perform	7/20/2021
Maintains	Raymond James: to Outperform	7/20/2021
Maintains	Citigroup: to Buy	7/14/2021
Maintains	Wells Fargo: to Overweight	7/13/2021
Maintains	Morgan Stanley: to Equal-Weight	7/8/2021

More Upgrades & Downgrades

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U.S. markets close in 3 hours 41 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,528.47	35,431.85	15,248.93	2,271.65
-0.32 (-0.01%)	+32.01 (+0.09%)	-16.96 (-0.11%)	+5.66 (+0.25%)

Advertisement

J & J Snack Foods Corp. (JJSF)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

163.35 +1.33 (+0.82%)

As of 12:02PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	4	3	4	4
Avg. Estimate	1.27	0.9	3.19	4.74
Low Estimate	1.12	0.85	3.04	4.18
High Estimate	1.41	0.93	3.33	5.01
Year Ago EPS	0.4	0.09	1.37	3.19

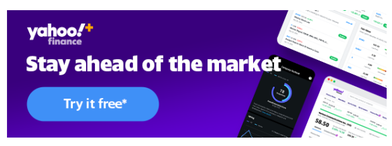
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	4	3	4	4
Avg. Estimate	312.81M	282.92M	1.13B	1.23B
Low Estimate	306.63M	278.1M	1.13B	1.22B
High Estimate	320M	290M	1.14B	1.26B
Year Ago Sales	252.54M	228.45M	1.02B	1.13B
Sales Growth (year/est)	23.90%	23.80%	11.00%	8.70%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	0.05	0.09	0.13	0.77
EPS Actual	0.4	0.09	0.32	1.51
Difference	0.35	0	0.19	0.74
Surprise %	700.00%	0.00%	146.20%	96.10%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	1.27	0.9	3.19	4.74
7 Days Ago	1.25	0.85	3.03	4.63
30 Days Ago	1.23	0.85	2.84	4.54
60 Days Ago	1.21	0.82	2.41	4.44
90 Days Ago	1.21	0.82	2.41	4.44

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	1	1	1	1
Up Last 30 Days	1	1	1	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

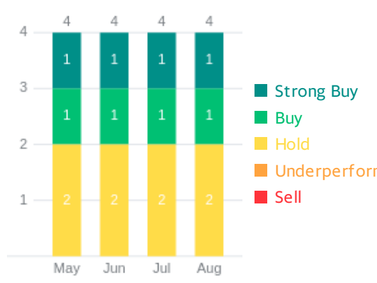
Growth Estimates	JJSF	Industry	Sector(s)	S&P 500
Current Qtr.	217.50%	N/A	N/A	N/A
Next Qtr.	900.00%	N/A	N/A	N/A
Current Year	132.80%	N/A	N/A	N/A
Next Year	48.60%	N/A	N/A	N/A
Next 5 Years (per annum)	6.00%	N/A	N/A	N/A
Past 5 Years (per annum)	8.32%	N/A	N/A	N/A



People Also Watch

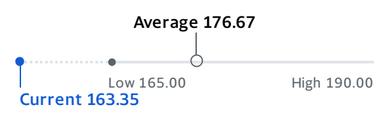
Symbol	Last Price	Change	% Change
JBSS John B. Sanfilippo & Son, Inc.	84.62	+0.88	+1.05%
LANC Lancaster Colony Corporation	177.63	+0.35	+0.20%
THS TreeHouse Foods, Inc.	37.58	+2.30	+6.52%
FLO Flowers Foods, Inc.	24.16	+0.06	+0.25%
CVGW Calavo Growers, Inc.	46.89	+0.22	+0.47%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (3)



Upgrades & Downgrades

Upgrade	CL King: Neutral to Buy	5/12/2020
Upgrade	Consumer Edge: Equal-Weight to Overweight	8/9/2019
Initiated	KeyBanc: to Sector Weight	3/28/2018
Initiated	CL King: to Buy	12/19/2017
Downgrade	DA Davidson: Buy to Neutral	1/4/2017
Initiated	DA Davidson: to Buy	10/5/2016

More Upgrades & Downgrades

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U.S. markets close in 3 hours 41 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,528.21	35,431.59	15,247.75	2,271.90
-0.58 (-0.01%)	+31.75 (+0.09%)	-18.14 (-0.12%)	+5.91 (+0.26%)

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Jack Henry & Associates, Inc. (JKHY)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

177.06 +0.74 (+0.42%)

As of 12:19PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	10	10	12	10
Avg. Estimate	0.93	1.32	3.99	4.59
Low Estimate	0.9	1.28	3.92	4.55
High Estimate	0.94	1.38	4.03	4.65
Year Ago EPS	0.8	1.19	3.86	3.99

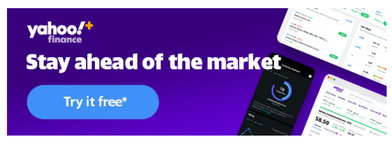
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	9	9	10	9
Avg. Estimate	450.29M	488.76M	1.76B	1.9B
Low Estimate	436M	481M	1.74B	1.86B
High Estimate	448.4M	497.1M	1.76B	1.91B
Year Ago Sales	410.54M	N/A	1.7B	1.76B
Sales Growth (year/est)	9.70%	N/A	3.60%	7.90%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.78	1.05	0.87	0.86
EPS Actual	0.8	1.19	0.94	0.95
Difference	0.02	0.14	0.07	0.09
Surprise %	2.60%	13.30%	8.00%	10.50%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.93	1.32	3.99	4.59
7 Days Ago	0.93	1.31	3.99	4.52
30 Days Ago	0.92	1.3	4	4.53
60 Days Ago	0.92	1.3	4	4.53
90 Days Ago	0.93	1.3	4	4.54

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	1	N/A	N/A
Up Last 30 Days	N/A	5	N/A	6
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

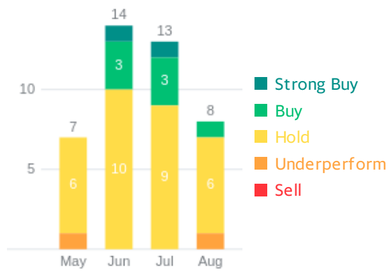
Growth Estimates	JKHY	Industry	Sector(s)	S&P 500
Current Qtr.	16.20%	N/A	N/A	N/A
Next Qtr.	10.90%	N/A	N/A	N/A
Current Year	3.40%	N/A	N/A	N/A
Next Year	15.00%	N/A	N/A	N/A
Next 5 Years (per annum)	9.64%	N/A	N/A	N/A
Past 5 Years (per annum)	8.58%	N/A	N/A	N/A



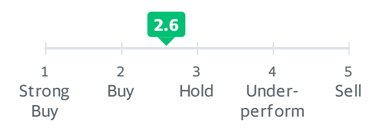
People Also Watch

Symbol	Last Price	Change	% Change
ANSS ANSYS, Inc.	363.09	-2.71	-0.74%
ROL Rollins, Inc.	39.07	-0.09	-0.23%
IT Gartner, Inc.	309.02	+1.81	+0.59%
MKTX MarketAxess Holdings Inc.	478.86	+1.34	+0.28%
IEX IDEX Corporation	224.64	-1.31	-0.58%

Recommendation Trends



Recommendation Rating



Analyst Price Targets (8)

Upgrades & Downgrades

Maintains	Compass Point: to Buy	8/19/2021
Maintains	Raymond James: to Outperform	8/19/2021
Maintains	Raymond James: to Outperform	5/5/2021
Maintains	Credit Suisse: to Neutral	2/10/2021
Upgrade	Evercore ISI Group: Underperform to In-Line	1/11/2021
Initiated	Credit Suisse: to Neutral	12/7/2020

More Upgrades & Downgrades

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U.S. markets close in 2 hours 46 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,526.52	35,406.35	15,264.21	2,275.82
-2.27 (-0.05%)	+6.51 (+0.02%)	-1.68 (-0.01%)	+9.83 (+0.43%)

Advertisement

ManTech International Corporation (MANT)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

79.49 -0.26 (-0.33%)

As of 1:12PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	8	8	8	8
Avg. Estimate	0.87	0.86	3.62	3.77
Low Estimate	0.85	0.83	3.57	3.68
High Estimate	0.89	0.91	3.69	3.86
Year Ago EPS	0.84	0.83	2.91	3.62

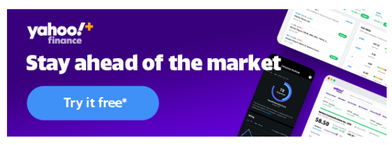
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	8	8	9	9
Avg. Estimate	648.58M	680.85M	2.66B	2.8B
Low Estimate	651.47M	671.19M	2.63B	2.75B
High Estimate	681.28M	693M	2.7B	2.83B
Year Ago Sales	N/A	636.2M	2.52B	2.66B
Sales Growth (year/est)	N/A	7.00%	5.70%	5.00%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.65	0.76	0.79	0.83
EPS Actual	0.84	0.83	0.89	0.88
Difference	0.19	0.07	0.1	0.05
Surprise %	29.20%	9.20%	12.70%	6.00%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.87	0.86	3.62	3.77
7 Days Ago	0.87	0.87	3.62	3.76
30 Days Ago	0.87	0.88	3.53	3.73
60 Days Ago	0.87	0.88	3.53	3.73
90 Days Ago	0.87	0.89	3.53	3.7

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	1	N/A
Up Last 30 Days	N/A	2	9	4
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	1	N/A	2

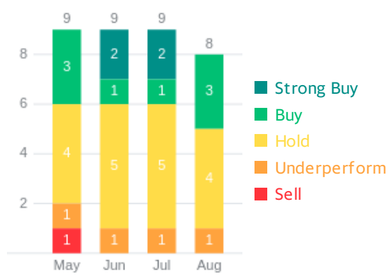
Growth Estimates	MANT	Industry	Sector(s)	S&P 500
Current Qtr.	3.60%	N/A	N/A	N/A
Next Qtr.	3.60%	N/A	N/A	N/A
Current Year	24.40%	N/A	N/A	N/A
Next Year	4.10%	N/A	N/A	N/A
Next 5 Years (per annum)	5.38%	N/A	N/A	N/A
Past 5 Years (per annum)	12.47%	N/A	N/A	N/A



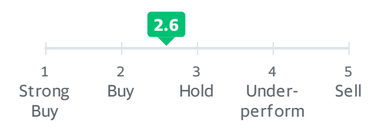
Similar to MANT

Symbol	Last Price	Change	% Change
PRGS Progress Software Corporation	46.78	+0.27	+0.59%
AMSWA American Software, Inc.	25.48	+1.00	+4.08%
BNFT Benefitfocus, Inc.	12.18	-0.02	-0.16%
BLKB Blackbaud, Inc.	70.17	+0.68	+0.98%
AZPN Aspen Technology, Inc.	129.65	-0.25	-0.19%

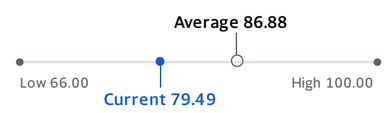
Recommendation Trends



Recommendation Rating



Analyst Price Targets (8)



Upgrades & Downgrades

Maintains	Alliance Global Partners: to Neutral	8/4/2021
Maintains	Morgan Stanley: to Equal-Weight	6/15/2021
Initiated	Wells Fargo: to Equal-Weight	5/13/2021
Maintains	Credit Suisse: to Underperform	5/5/2021
Maintains	Morgan Stanley: to Equal-Weight	2/22/2021
Maintains	Morgan Stanley: to Equal-Weight	2/19/2021

More Upgrades & Downgrades

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U.S. markets close in 2 hours 45 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,526.46	35,402.66	15,264.21	2,275.85
-2.33 (-0.05%)	+2.82 (+0.01%)	-1.68 (-0.01%)	+9.86 (+0.44%)

Advertisement

McCormick & Company, Incorporated (MKC)

NYSE - Nasdaq Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

85.83 +0.38 (+0.44%)

As of 1:13PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Aug 2021)	Next Qtr. (Nov 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	10	10	12	12
Avg. Estimate	0.73	0.9	3.03	3.2
Low Estimate	0.69	0.86	3.02	3.08
High Estimate	0.77	0.93	3.06	3.34
Year Ago EPS	0.76	0.79	2.83	3.03

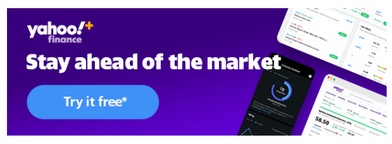
Revenue Estimate	Current Qtr. (Aug 2021)	Next Qtr. (Nov 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	9	9	11	11
Avg. Estimate	1.53B	1.71B	6.3B	6.43B
Low Estimate	1.44B	1.64B	6.23B	6.2B
High Estimate	1.57B	1.76B	6.35B	6.59B
Year Ago Sales	1.43B	1.56B	5.6B	6.3B
Sales Growth (year/est)	7.20%	9.50%	12.50%	2.00%

Earnings History	8/30/2020	11/29/2020	2/27/2021	5/30/2021
EPS Est.	0.76	0.81	0.58	0.61
EPS Actual	0.76	0.79	0.72	0.69
Difference	0	-0.02	0.14	0.08
Surprise %	0.00%	-2.50%	24.10%	13.10%

EPS Trend	Current Qtr. (Aug 2021)	Next Qtr. (Nov 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.73	0.9	3.03	3.2
7 Days Ago	0.73	0.9	3.03	3.2
30 Days Ago	0.73	0.9	3.03	3.2
60 Days Ago	0.74	0.9	3.01	3.17
90 Days Ago	0.76	0.91	3	3.16

EPS Revisions	Current Qtr. (Aug 2021)	Next Qtr. (Nov 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	N/A	1	1	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

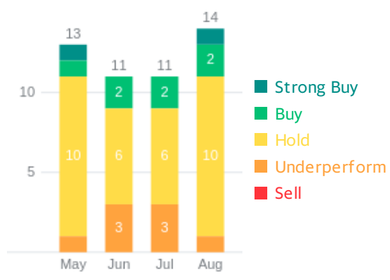
Growth Estimates	MKC	Industry	Sector(s)	S&P 500
Current Qtr.	-3.90%	N/A	N/A	N/A
Next Qtr.	13.90%	N/A	N/A	N/A
Current Year	7.10%	N/A	N/A	N/A
Next Year	5.60%	N/A	N/A	N/A
Next 5 Years (per annum)	6.50%	N/A	N/A	N/A
Past 5 Years (per annum)	10.39%	N/A	N/A	N/A



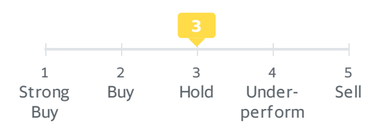
People Also Watch

Symbol	Last Price	Change	% Change
HRL Hormel Foods Corporation	45.26	-0.03	-0.08%
GWW W.W. Grainger, Inc.	435.32	+0.71	+0.16%
CLX The Clorox Company	166.57	-0.26	-0.16%
SJM The J. M. Smucker Company	123.16	+0.88	+0.72%
GPC Genuine Parts Company	122.51	-1.13	-0.91%

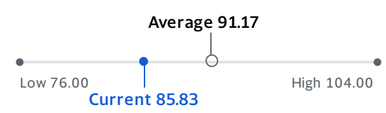
Recommendation Trends



Recommendation Rating



Analyst Price Targets (12)



Upgrades & Downgrades

Downgrade	Argus Research: Buy to Hold	3/17/2021
Upgrade	Jefferies: Underperform to Hold	6/22/2020
Maintains	Deutsche Bank: to Hold	6/1/2020
Upgrade	Credit Suisse: Neutral to Outperform	5/14/2020
Maintains	JP Morgan: to Underweight	4/17/2020
Maintains	Credit Suisse: to Neutral	4/2/2020

More Upgrades & Downgrades

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U.S. markets close in 2 hours 44 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,526.69	35,407.89	15,264.25	2,275.83
-2.10 (-0.05%)	+8.05 (+0.02%)	-1.63 (-0.01%)	+9.84 (+0.43%)

Advertisement

Monster Beverage Corporation (MNST)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

97.21 -0.60 (-0.61%)

As of 1:14PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	18	18	20	19
Avg. Estimate	0.68	0.67	2.65	3.01
Low Estimate	0.63	0.63	2.54	2.85
High Estimate	0.7	0.75	2.75	3.2
Year Ago EPS	0.59	0.65	2.37	2.65

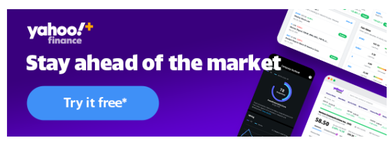
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	14	14	18	18
Avg. Estimate	1.4B	1.39B	5.41B	5.96B
Low Estimate	1.34B	1.34B	5.31B	5.72B
High Estimate	1.45B	1.46B	5.54B	6.23B
Year Ago Sales	1.09B	N/A	4.6B	5.41B
Sales Growth (year/est)	27.80%	N/A	17.60%	10.20%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.49	0.63	0.62	0.61
EPS Actual	0.59	0.65	0.62	0.59
Difference	0.1	0.02	0	-0.02
Surprise %	20.40%	3.20%	0.00%	-3.30%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.68	0.67	2.65	3.01
7 Days Ago	0.68	0.67	2.65	3.01
30 Days Ago	0.68	0.71	2.62	3
60 Days Ago	0.68	0.71	2.63	3.01
90 Days Ago	0.69	0.71	2.63	3.01

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	1	N/A
Up Last 30 Days	N/A	N/A	10	7
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	3	1	N/A	N/A

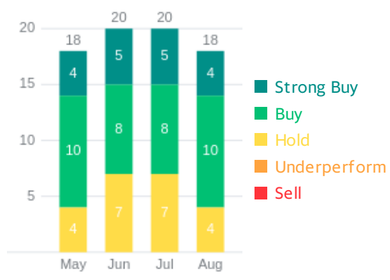
Growth Estimates	MNST	Industry	Sector(s)	S&P 500
Current Qtr.	15.30%	N/A	N/A	N/A
Next Qtr.	3.10%	N/A	N/A	N/A
Current Year	11.80%	N/A	N/A	N/A
Next Year	13.60%	N/A	N/A	N/A
Next 5 Years (per annum)	14.85%	N/A	N/A	N/A
Past 5 Years (per annum)	19.72%	N/A	N/A	N/A



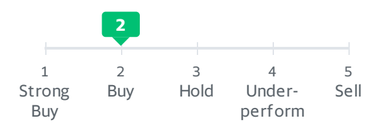
People Also Watch

Symbol	Last Price	Change	% Change
ROST Ross Stores, Inc.	118.51	+0.03	+0.03%
ORLY O'Reilly Automotive, Inc.	591.32	-5.33	-0.89%
ULTA Ulta Beauty, Inc.	383.81	+0.64	+0.17%
DLTR Dollar Tree, Inc.	90.93	0.00	0.00%
MDLZ Mondelez International, Inc.	61.91	-0.25	-0.40%

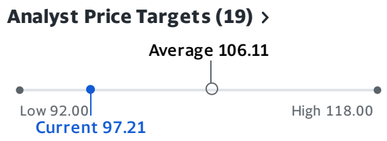
Recommendation Trends



Recommendation Rating



Analyst Price Targets (19)



Upgrades & Downgrades

Maintains	Deutsche Bank: to Buy	7/30/2021
Upgrade	Citigroup: Neutral to Buy	7/23/2021
Maintains	Morgan Stanley: to Overweight	4/19/2021
Maintains	Credit Suisse: to Outperform	3/16/2021
Maintains	Morgan Stanley: to Overweight	3/9/2021
Maintains	Argus Research: to Buy	3/1/2021

More Upgrades & Downgrades

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U.S. markets close in 2 hours 45 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,526.37	35,401.39	15,264.70	2,275.86
-2.42 (-0.05%)	+1.55 (+0.00%)	-1.19 (-0.01%)	+9.87 (+0.44%)

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Altria Group, Inc. (MO)

NYSE - Nasdaq Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

50.13 +0.42 (+0.86%)

As of 1:15PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	14	13	16	17
Avg. Estimate	1.18	1.27	4.62	4.84
Low Estimate	1.15	1.2	4.56	4.64
High Estimate	1.22	1.31	4.7	4.96
Year Ago EPS	1.09	1.19	4.36	4.62

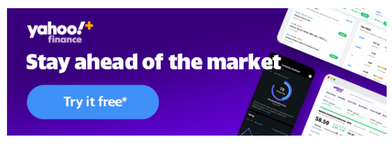
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	10	8	15	15
Avg. Estimate	5.38B	5.76B	21.29B	21.58B
Low Estimate	5.2B	5.58B	20.94B	20.77B
High Estimate	5.55B	5.87B	21.66B	22.56B
Year Ago Sales	5.04B	N/A	20.84B	21.29B
Sales Growth (year/est)	6.70%	N/A	2.20%	1.40%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	1.06	1.16	1.02	1.05
EPS Actual	1.09	1.19	0.99	1.07
Difference	0.03	0.03	-0.03	0.02
Surprise %	2.80%	2.60%	-2.90%	1.90%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	1.18	1.27	4.62	4.84
7 Days Ago	1.18	1.27	4.62	4.84
30 Days Ago	1.18	1.27	4.59	4.82
60 Days Ago	1.18	1.27	4.59	4.82
90 Days Ago	1.17	1.27	4.6	4.84

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	2	2	8	6
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	1	N/A	N/A	N/A

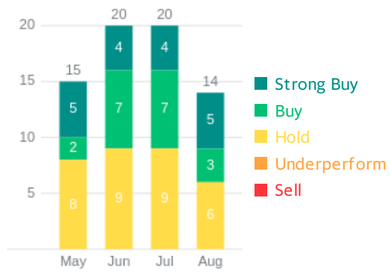
Growth Estimates	MO	Industry	Sector(s)	S&P 500
Current Qtr.	8.30%	N/A	N/A	N/A
Next Qtr.	6.70%	N/A	N/A	N/A
Current Year	6.00%	N/A	N/A	N/A
Next Year	4.80%	N/A	N/A	N/A
Next 5 Years (per annum)	4.67%	N/A	N/A	N/A
Past 5 Years (per annum)	11.39%	N/A	N/A	N/A



People Also Watch

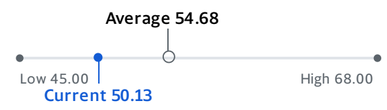
Symbol	Last Price	Change	% Change
PM Philip Morris International Inc.	103.10	+0.03	+0.02%
PG The Procter & Gamble Company	142.31	-0.62	-0.43%
JNJ Johnson & Johnson	172.79	-0.87	-0.50%
MRK Merck & Co., Inc.	76.35	-0.15	-0.20%
XOM Exxon Mobil Corporation	54.94	-0.22	-0.39%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (18)



Upgrades & Downgrades

Initiated	Redburn Partners: to Neutral	6/17/2021
Maintains	Morgan Stanley: to Overweight	5/10/2021
Downgrade	Argus Research: Buy to Hold	5/5/2021
Upgrade	Jefferies: Hold to Buy	3/26/2021
Downgrade	Citigroup: Buy to Neutral	3/16/2021
Maintains	Deutsche Bank: to Buy	1/22/2021

More Upgrades & Downgrades

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U.S. markets close in 2 hours 46 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,526.53	35,406.38	15,264.25	2,275.82
-2.26 (-0.05%)	+6.54 (+0.02%)	-1.64 (-0.01%)	+9.83 (+0.43%)

Advertisement

MSCI Inc. (MSCI)

NYSE - Nasdaq Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

636.19 -2.24 (-0.35%)

As of 1:11PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	10	10	12	12
Avg. Estimate	2.4	2.49	9.78	10.98
Low Estimate	2.32	2.41	9.69	10.55
High Estimate	2.45	2.64	9.99	11.44
Year Ago EPS	2.2	1.96	7.83	9.78

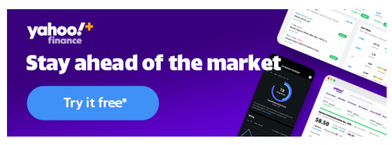
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	8	8	12	12
Avg. Estimate	506.26M	518.91M	2B	2.23B
Low Estimate	496.6M	511.6M	1.99B	2.19B
High Estimate	515M	532M	2.03B	2.33B
Year Ago Sales	423.29M	443.66M	1.7B	2B
Sales Growth (year/est)	19.60%	17.00%	18.20%	11.30%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	1.81	1.95	2.26	2.3
EPS Actual	2.2	1.96	2.46	2.45
Difference	0.39	0.01	0.2	0.15
Surprise %	21.50%	0.50%	8.80%	6.50%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	2.4	2.49	9.78	10.98
7 Days Ago	2.41	2.49	9.75	11
30 Days Ago	2.41	2.49	9.73	10.99
60 Days Ago	2.38	2.45	9.63	10.81
90 Days Ago	2.38	2.44	9.62	10.78

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	1	2	N/A
Up Last 30 Days	1	1	4	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	2	1	N/A	2

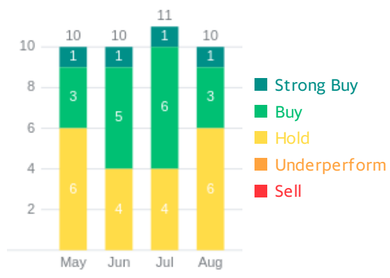
Growth Estimates	MSCI	Industry	Sector(s)	S&P 500
Current Qtr.	9.10%	N/A	N/A	N/A
Next Qtr.	27.00%	N/A	N/A	N/A
Current Year	24.90%	N/A	N/A	N/A
Next Year	12.30%	N/A	N/A	N/A
Next 5 Years (per annum)	17.79%	N/A	N/A	N/A
Past 5 Years (per annum)	29.79%	N/A	N/A	N/A



People Also Watch

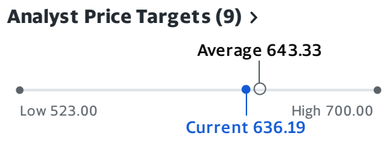
Symbol	Last Price	Change	% Change
SPGI S&P Global Inc.	444.13	+0.06	+0.01%
MKTX MarketAxess Holdings Inc.	477.33	-0.19	-0.04%
VRSK Verisk Analytics, Inc.	201.58	+0.80	+0.40%
INFO IHS Markit Ltd.	120.92	+0.09	+0.07%
MTD Mettler-Toledo International Inc.	1,547.23	-41.50	-2.61%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (9)



Upgrades & Downgrades

Maintains	Deutsche Bank: to Buy	7/28/2021
Maintains	Morgan Stanley: to Equal-Weight	7/28/2021
Maintains	Oppenheimer: to Outperform	7/28/2021
Initiated	RBC Capital: to Outperform	7/8/2021
Maintains	Oppenheimer: to Outperform	6/16/2021
Maintains	Morgan Stanley: to Equal-Weight	5/27/2021

More Upgrades & Downgrades

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U.S. markets close in 2 hours 45 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,526.37	35,401.09	15,264.70	2,275.86
-2.42 (-0.05%)	+1.25 (+0.00%)	-1.19 (-0.01%)	+9.87 (+0.44%)

Advertisement

Motorola Solutions, Inc. (MSI)

NYSE - Nasdaq Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

243.78 -0.78 (-0.32%)

As of 1:13PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	11	11	14	14
Avg. Estimate	1.92	2.12	8.97	9.87
Low Estimate	1.83	2.06	8.75	9.45
High Estimate	1.98	2.16	9.05	10.24
Year Ago EPS	1.39	1.95	7.69	8.97

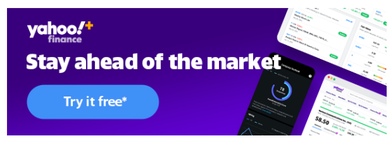
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	9	9	13	13
Avg. Estimate	1.94B	2.04B	8.15B	8.66B
Low Estimate	1.93B	1.98B	8.05B	8.43B
High Estimate	1.96B	2.07B	8.24B	8.93B
Year Ago Sales	1.62B	1.83B	7.41B	8.15B
Sales Growth (year/est)	19.80%	11.80%	9.90%	6.30%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	1.21	1.78	2.74	1.62
EPS Actual	1.39	1.95	2.86	1.87
Difference	0.18	0.17	0.12	0.25
Surprise %	14.90%	9.60%	4.40%	15.40%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	1.92	2.12	8.97	9.87
7 Days Ago	1.92	2.12	8.97	9.87
30 Days Ago	1.92	2.1	8.8	9.75
60 Days Ago	1.92	2.1	8.8	9.75
90 Days Ago	1.92	2.1	8.79	9.74

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	N/A	6	13	11
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

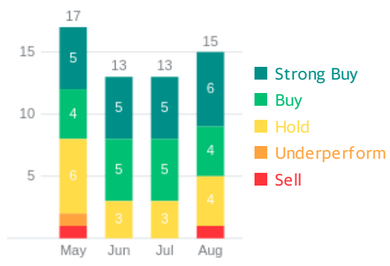
Growth Estimates	MSI	Industry	Sector(s)	S&P 500
Current Qtr.	38.10%	N/A	N/A	N/A
Next Qtr.	8.70%	N/A	N/A	N/A
Current Year	16.60%	N/A	N/A	N/A
Next Year	10.00%	N/A	N/A	N/A
Next 5 Years (per annum)	13.73%	N/A	N/A	N/A
Past 5 Years (per annum)	25.25%	N/A	N/A	N/A



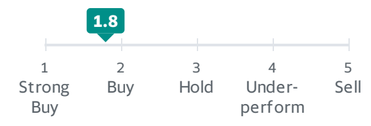
People Also Watch

Symbol	Last Price	Change	% Change
MMI Marcus & Millichap, Inc.	39.62	+0.37	+0.94%
TEL TE Connectivity Ltd.	150.95	-1.74	-1.14%
FIS Fidelity National Information Services, I...	127.97	+0.75	+0.59%
APH Amphenol Corporation	76.59	-0.34	-0.44%
MCHP Microchip Technology Incorporated	158.20	-0.81	-0.51%

Recommendation Trends



Recommendation Rating



Analyst Price Targets (11)

Upgrades & Downgrades

Maintains	Citigroup: to Buy	8/9/2021
Maintains	Raymond James: to Outperform	8/6/2021
Maintains	Credit Suisse: to Outperform	8/6/2021
Maintains	Barclays: to Overweight	8/6/2021
Maintains	Northcoast Research: to Buy	7/15/2021
Maintains	Jefferies: to Buy	7/7/2021

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U.S. markets close in 2 hours 45 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,526.62	35,406.18	15,264.25	2,275.83
-2.17 (-0.05%)	+6.34 (+0.02%)	-1.63 (-0.01%)	+9.84 (+0.43%)

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Northrop Grumman Corporation (NOC)

NYSE - Nasdaq Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

366.25 -1.37 (-0.37%)

As of 1:11PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	18	17	18	17
Avg. Estimate	5.84	5.96	24.94	25.93
Low Estimate	5.17	5.57	24.59	24.15
High Estimate	6.16	6.17	25.25	28.1
Year Ago EPS	6.01	5.89	23.65	24.94

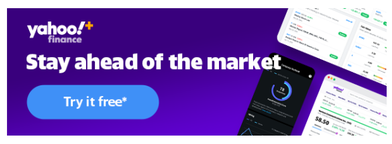
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	15	14	18	18
Avg. Estimate	8.77B	8.94B	36.25B	38.07B
Low Estimate	8.49B	8.54B	36.04B	37.08B
High Estimate	8.99B	9.16B	36.6B	38.68B
Year Ago Sales	8.88B	N/A	36.8B	36.25B
Sales Growth (year/est)	-1.30%	N/A	-1.50%	5.00%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	5.32	5.62	5.76	5.48
EPS Actual	6.01	5.89	6.59	6.57
Difference	0.69	0.27	0.83	1.09
Surprise %	13.00%	4.80%	14.40%	19.90%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	5.84	5.96	24.94	25.93
7 Days Ago	5.84	5.96	24.94	25.93
30 Days Ago	5.84	6.04	24.58	25.61
60 Days Ago	5.83	6.04	24.58	25.58
90 Days Ago	5.84	6.04	24.6	25.61

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	1	N/A	N/A	N/A
Up Last 30 Days	1	4	13	10
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

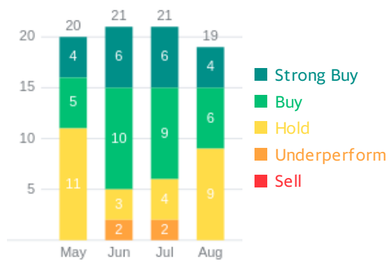
Growth Estimates	NOC	Industry	Sector(s)	S&P 500
Current Qtr.	-2.80%	N/A	N/A	N/A
Next Qtr.	1.20%	N/A	N/A	N/A
Current Year	5.50%	N/A	N/A	N/A
Next Year	4.00%	N/A	N/A	N/A
Next 5 Years (per annum)	6.66%	N/A	N/A	N/A
Past 5 Years (per annum)	20.00%	N/A	N/A	N/A



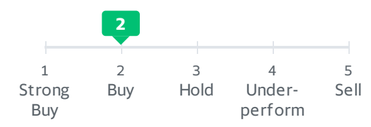
People Also Watch

Symbol	Last Price	Change	% Change
LMT Lockheed Martin Corporation	359.98	+0.53	+0.15%
GD General Dynamics Corporation	200.32	+1.13	+0.57%
HON Honeywell International Inc.	232.02	+0.15	+0.06%
HII Huntington Ingalls Industries, Inc.	205.01	-2.00	-0.97%
RTX Raytheon Technologies Corporation	85.03	+0.23	+0.28%

Recommendation Trends



Recommendation Rating



Analyst Price Targets (19)

Upgrades & Downgrades

Maintains	Wells Fargo: to Underweight	8/2/2021
Maintains	Seaport Global: to Buy	7/19/2021
Upgrade	Stifel: Hold to Buy	6/4/2021
Initiated	Wells Fargo: to Underweight	5/13/2021
Maintains	Susquehanna: to Positive	4/30/2021
Maintains	Morgan Stanley: to Overweight	4/30/2021

More Upgrades & Downgrades

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U.S. markets close in 2 hours 46 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,526.46	35,406.24	15,264.22	2,275.86
-2.33 (-0.05%)	+6.40 (+0.02%)	-1.67 (-0.01%)	+9.87 (+0.44%)

Advertisement

Old Dominion Freight Line, Inc. (ODFL)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

290.80 -2.84 (-0.97%)

As of 1:14PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	14	14	19	19
Avg. Estimate	2.34	2.1	8.43	9.53
Low Estimate	2.25	1.9	8	8.8
High Estimate	2.44	2.23	8.65	10.35
Year Ago EPS	1.71	1.61	5.68	8.43

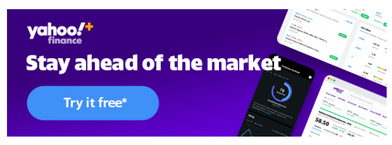
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	11	11	16	16
Avg. Estimate	1.34B	1.28B	5.09B	5.55B
Low Estimate	1.26B	1.23B	5B	5.36B
High Estimate	1.41B	1.35B	5.21B	5.9B
Year Ago Sales	1.05B	1.07B	4.02B	5.09B
Sales Growth (year/est)	27.00%	19.70%	26.80%	9.10%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	1.53	1.57	1.58	2.16
EPS Actual	1.71	1.61	1.7	2.31
Difference	0.18	0.04	0.12	0.15
Surprise %	11.80%	2.50%	7.60%	6.90%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	2.34	2.1	8.43	9.53
7 Days Ago	2.33	2.09	8.41	9.52
30 Days Ago	2.2	1.99	8.06	9.14
60 Days Ago	2.1	1.92	7.78	8.92
90 Days Ago	2.05	1.9	7.75	8.84

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	4	3	6	5
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

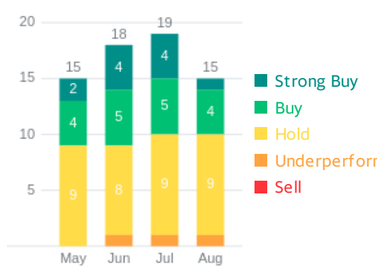
Growth Estimates	ODFL	Industry	Sector(s)	S&P 500
Current Qtr.	36.80%	N/A	N/A	N/A
Next Qtr.	30.40%	N/A	N/A	N/A
Current Year	48.40%	N/A	N/A	N/A
Next Year	13.00%	N/A	N/A	N/A
Next 5 Years (per annum)	22.70%	N/A	N/A	N/A
Past 5 Years (per annum)	23.61%	N/A	N/A	N/A



People Also Watch

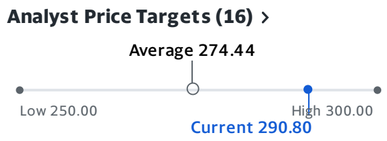
Symbol	Last Price	Change	% Change
JBHT J.B. Hunt Transport Services, Inc.	178.99	-3.72	-2.04%
SAIA Saia, Inc.	243.48	-1.58	-0.65%
LSTR Landstar System, Inc.	169.75	-2.09	-1.22%
KNX Knight-Swift Transportation Holdings Inc.	52.64	-0.41	-0.77%
WERN Werner Enterprises, Inc.	47.78	-0.60	-1.24%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (16)



Upgrades & Downgrades

Maintains	Keybanc: to Overweight	8/19/2021
Maintains	Morgan Stanley: to Overweight	8/12/2021
Downgrade	Goldman Sachs: Buy to Neutral	8/3/2021
Maintains	Wells Fargo: to Equal-Weight	7/29/2021
Maintains	Credit Suisse: to Neutral	7/29/2021
Downgrade	Wolfe Research: Outperform to Peer Perform	7/15/2021

More Upgrades & Downgrades

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U.S. markets close in 2 hours 45 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,526.38	35,402.35	15,264.28	2,275.86
-2.41 (-0.05%)	+2.51 (+0.01%)	-1.61 (-0.01%)	+9.86 (+0.44%)

Advertisement

PerkinElmer, Inc. (PKI)

NYSE - Nasdaq Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

183.85 -4.10 (-2.18%)

As of 1:13PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	13	13	14	14
Avg. Estimate	1.65	1.72	9.93	6.32
Low Estimate	1.58	1.66	9.77	5.64
High Estimate	1.76	1.78	10.17	7.27
Year Ago EPS	2.09	3.96	8.3	9.93

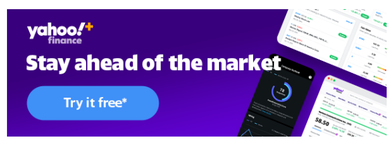
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	11	11	13	13
Avg. Estimate	1.02B	1.05B	4.61B	4.01B
Low Estimate	1B	1.01B	4.55B	3.7B
High Estimate	1.08B	1.15B	4.76B	4.44B
Year Ago Sales	841.19M	1.36B	3.78B	4.61B
Sales Growth (year/est)	21.10%	-22.20%	21.80%	-12.90%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	1.5	3	3.07	2.41
EPS Actual	2.09	3.96	3.72	2.83
Difference	0.59	0.96	0.65	0.42
Surprise %	39.30%	32.00%	21.20%	17.40%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	1.65	1.72	9.93	6.32
7 Days Ago	1.65	1.72	9.94	6.33
30 Days Ago	1.67	1.71	9.66	6.45
60 Days Ago	1.72	1.65	9.32	6.12
90 Days Ago	1.71	1.66	9.52	6.11

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	N/A	N/A	N/A	N/A
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

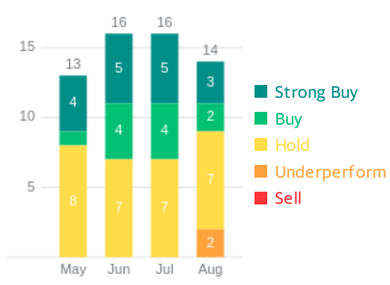
Growth Estimates	PKI	Industry	Sector(s)	S&P 500
Current Qtr.	-21.10%	N/A	N/A	N/A
Next Qtr.	-56.60%	N/A	N/A	N/A
Current Year	19.60%	N/A	N/A	N/A
Next Year	-36.40%	N/A	N/A	N/A
Next 5 Years (per annum)	37.90%	N/A	N/A	N/A
Past 5 Years (per annum)	10.49%	N/A	N/A	N/A



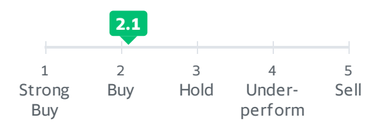
People Also Watch

Symbol	Last Price	Change	% Change
WAT Waters Corporation	410.75	-2.31	-0.56%
MTD Mettler-Toledo International Inc.	1,547.23	-41.50	-2.61%
RHI Robert Half International Inc.	103.70	-0.23	-0.22%
LH Laboratory Corporation of America Hold...	304.00	+0.82	+0.27%
PNW Pinnacle West Capital Corporation	77.01	+0.52	+0.68%

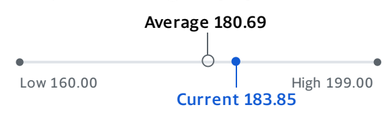
Recommendation Trends



Recommendation Rating



Analyst Price Targets (13)



Upgrades & Downgrades

Upgrade	Wells Fargo: Equal-Weight to Overweight	1/7/2021
Initiated	KeyBanc: to Sector Weight	11/10/2020
Maintains	Needham: to Buy	11/9/2020
Maintains	Wells Fargo: to Equal-Weight	10/29/2020
Upgrade	Needham: Hold to Buy	9/11/2020
Maintains	JP Morgan: to Neutral	7/29/2020

More Upgrades & Downgrades

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U.S. markets close in 2 hours 44 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,525.93	35,394.49	15,264.77	2,275.78
-2.86 (-0.06%)	-5.35 (-0.02%)	-1.12 (-0.01%)	+9.79 (+0.43%)

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Post Holdings, Inc. (POST)

NYSE - Nasdaq Real Time Price. Currency in USD

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Quote Lookup

111.69 -0.24 (-0.21%)

As of 1:15PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	9	9	9	11
Avg. Estimate	0.97	0.99	2.97	4.95
Low Estimate	0.8	0.62	2.57	3.59
High Estimate	1.27	1.28	3.2	5.71
Year Ago EPS	0.75	0.58	2.71	2.97

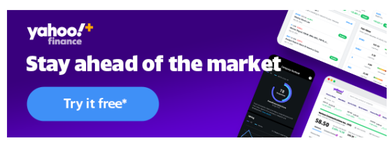
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	6	6	9	9
Avg. Estimate	1.5B	1.64B	6.16B	6.64B
Low Estimate	1.44B	1.51B	6.04B	6.4B
High Estimate	1.55B	1.75B	6.28B	6.87B
Year Ago Sales	N/A	1.41B	5.7B	6.16B
Sales Growth (year/est)	N/A	16.50%	8.10%	7.70%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.71	0.77	0.71	0.55
EPS Actual	0.75	0.58	0.72	0.29
Difference	0.04	-0.19	0.01	-0.26
Surprise %	5.60%	-24.70%	1.40%	-47.30%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.97	0.99	2.97	4.95
7 Days Ago	0.97	0.99	2.91	4.89
30 Days Ago	0.97	1.16	3.15	5.3
60 Days Ago	0.97	1.18	3.17	5.32
90 Days Ago	0.97	1.19	3.18	5.32

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	1	N/A	N/A
Up Last 30 Days	N/A	1	1	4
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	1	N/A

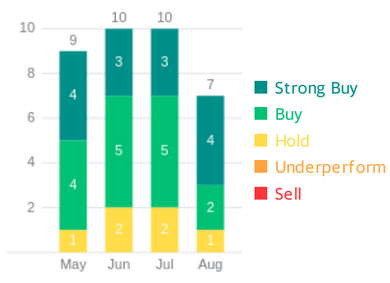
Growth Estimates	POST	Industry	Sector(s)	S&P 500
Current Qtr.	29.30%	N/A	N/A	N/A
Next Qtr.	70.70%	N/A	N/A	N/A
Current Year	9.60%	N/A	N/A	N/A
Next Year	66.70%	N/A	N/A	N/A
Next 5 Years (per annum)	28.20%	N/A	N/A	N/A
Past 5 Years (per annum)	48.24%	N/A	N/A	N/A



People Also Watch

Symbol	Last Price	Change	% Change
THS TreeHouse Foods, Inc.	37.36	+2.08	+5.90%
EPC Edgewell Personal Care Company	41.79	-0.60	-1.40%
SPB Spectrum Brands Holdings, Inc.	78.58	-0.50	-0.63%
LW Lamb Weston Holdings, Inc.	65.37	+1.02	+1.59%
INGR Ingredion Incorporated	87.82	+0.05	+0.06%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (10)

Upgrades & Downgrades

Maintains	Citigroup: to Buy	5/11/2021
Maintains	Truist Securities: to Buy	5/10/2021
Maintains	BMO Capital: to Market Perform	5/10/2021
Maintains	Citigroup: to Buy	2/10/2021
Maintains	BMO Capital: to Market Perform	8/10/2020
Maintains	Piper Sandler: to Overweight	8/10/2020

More Upgrades & Downgrades

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S&P 500	Dow 30	Nasdaq	Russell 2000
4,525.95	35,396.55	15,264.49	2,275.78
-2.84 (-0.06%)	-3.29 (-0.01%)	-1.40 (-0.01%)	+9.78 (+0.43%)

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RLI Corp. (RLI)

NYSE - Nasdaq Real Time Price. Currency in USD

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Quote Lookup

109.78 +0.21 (+0.19%)

As of 1:15PM EDT. Market open.

Summary Chart Conversations Statistics Historical Data Profile Financials **Analysis** Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	7	6	7	7
Avg. Estimate	0.74	0.79	3.46	3.48
Low Estimate	0.66	0.69	3.3	3.2
High Estimate	0.8	0.94	3.7	3.8
Year Ago EPS	0.42	0.75	2.59	3.46

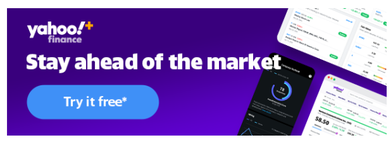
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	3	3	3	3
Avg. Estimate	269.12M	260.53M	1.05B	1.14B
Low Estimate	264.37M	255.57M	1.04B	1.12B
High Estimate	273.57M	265.23M	1.06B	1.15B
Year Ago Sales	N/A	229.85M	892.09M	1.05B
Sales Growth (year/est)	N/A	13.30%	17.40%	8.60%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	0	0.65	0.65	0.78
EPS Actual	0.42	0.75	0.87	1.09
Difference	0.42	0.1	0.22	0.31
Surprise %	N/A	15.40%	33.80%	39.70%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.74	0.79	3.46	3.48
7 Days Ago	0.72	0.78	3.39	3.44
30 Days Ago	0.72	0.78	3.39	3.44
60 Days Ago	0.69	0.74	2.99	3.18
90 Days Ago	0.69	0.74	2.99	3.18

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	1	1	1	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

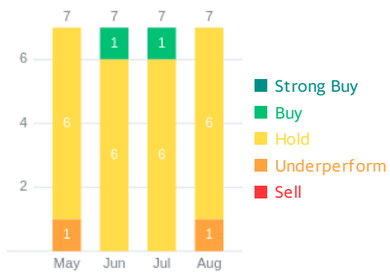
Growth Estimates	RLI	Industry	Sector(s)	S&P 500
Current Qtr.	76.20%	N/A	N/A	N/A
Next Qtr.	5.30%	N/A	N/A	N/A
Current Year	33.60%	N/A	N/A	N/A
Next Year	0.60%	N/A	N/A	N/A
Next 5 Years (per annum)	9.80%	N/A	N/A	N/A
Past 5 Years (per annum)	-4.20%	N/A	N/A	N/A



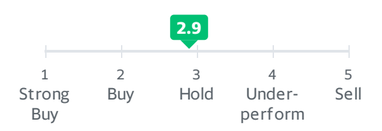
People Also Watch

Symbol	Last Price	Change	% Change
SIGI Selective Insurance Group, Inc.	83.96	-0.06	-0.07%
RNR RenaissanceRe Holdings Ltd.	157.68	+1.95	+1.25%
PRA ProAssurance Corporation	25.65	-0.05	-0.19%
SCL Stepan Company	117.62	+1.55	+1.34%
ERIE Erie Indemnity Company	179.48	+3.07	+1.74%

Recommendation Trends



Recommendation Rating



Analyst Price Targets (4)

Upgrades & Downgrades

Initiated	Compass Point: to Neutral	9/18/2020
Maintains	RBC Capital: to Sector Perform	4/8/2020
Upgrade	B. Riley FBR: Neutral to Buy	3/23/2020
Maintains	Keefe Bruyette & Woods: to Market Perform	7/19/2019
Initiated	Compass Point: to Sell	1/15/2019
Maintains	B. Riley FBR: Neutral to Neutral	10/3/2018

More Upgrades & Downgrades

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S&P 500	Dow 30	Nasdaq	Russell 2000
4,525.91	35,395.09	15,264.71	2,275.76
-2.88 (-0.06%)	-4.75 (-0.01%)	-1.17 (-0.01%)	+9.77 (+0.43%)

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Rollins, Inc. (ROL)

NYSE - Nasdaq Real Time Price. Currency in USD

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Quote Lookup

38.97 -0.19 (-0.49%)

As of 1:16PM EDT. Market open.

Summary Chart Conversations Statistics Historical Data Profile Financials **Analysis** Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	3	3	3	3
Avg. Estimate	0.2	0.15	0.69	0.74
Low Estimate	0.2	0.14	0.69	0.72
High Estimate	0.2	0.15	0.7	0.76
Year Ago EPS	0.17	0.13	0.54	0.69

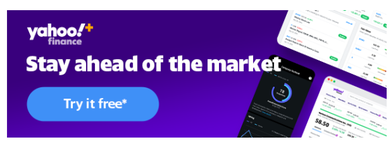
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	3	3	3	3
Avg. Estimate	647.75M	584.92M	2.41B	2.55B
Low Estimate	640.6M	576.2M	2.39B	2.52B
High Estimate	659.66M	593.55M	2.43B	2.58B
Year Ago Sales	583.7M	536.29M	2.16B	2.41B
Sales Growth (year/est)	11.00%	9.10%	11.40%	6.20%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	0.16	0.13	0.11	0.18
EPS Actual	0.17	0.13	0.14	0.2
Difference	0.01	0	0.03	0.02
Surprise %	6.30%	0.00%	27.30%	11.10%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.2	0.15	0.69	0.74
7 Days Ago	0.2	0.15	0.69	0.74
30 Days Ago	0.19	0.15	0.68	0.72
60 Days Ago	0.19	0.15	0.65	0.69
90 Days Ago	0.19	0.15	0.65	0.69

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	1	N/A	1	N/A
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

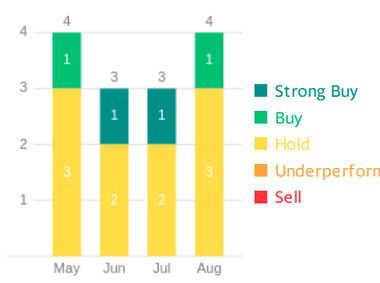
Growth Estimates	ROL	Industry	Sector(s)	S&P 500
Current Qtr.	17.60%	N/A	N/A	N/A
Next Qtr.	15.40%	N/A	N/A	N/A
Current Year	27.80%	N/A	N/A	N/A
Next Year	7.20%	N/A	N/A	N/A
Next 5 Years (per annum)	8.20%	N/A	N/A	N/A
Past 5 Years (per annum)	13.51%	N/A	N/A	N/A



People Also Watch

Symbol	Last Price	Change	% Change
RHI Robert Half International Inc.	103.71	-0.22	-0.22%
ROP Roper Technologies, Inc.	482.25	-0.40	-0.08%
ALLE Allegion plc	144.24	+1.16	+0.81%
JKHY Jack Henry & Associates, Inc.	176.58	+0.26	+0.15%
IEX IDEX Corporation	223.89	-2.06	-0.91%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (2)

Upgrades & Downgrades

Maintains	Stifel: to Hold	10/29/2020
Maintains	RBC Capital: to Sector Perform	7/30/2020
Maintains	Buckingham: to Neutral	2/4/2020
Initiated	Jefferies: to Hold	11/22/2019
Upgrade	Stifel Nicolaus: Sell to Hold	11/6/2019
Initiated	RBC Capital: to Sector Perform	10/8/2019

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S&P 500	Dow 30	Nasdaq	Russell 2000
4,526.00	35,395.44	15,264.50	2,275.68
-2.79 (-0.06%)	-4.40 (-0.01%)	-1.39 (-0.01%)	+9.69 (+0.43%)

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The Sherwin-Williams Company (SHW)

NYSE - Nasdaq Real Time Price. Currency in USD

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Quote Lookup

304.38 -0.93 (-0.30%)

As of 1:16PM EDT. Market open.

Summary Chart Conversations Statistics Historical Data Profile Financials **Analysis** Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	22	22	28	29
Avg. Estimate	2.73	1.96	9.39	10.61
Low Estimate	2.51	1.84	9.21	9.5
High Estimate	2.93	2.18	9.5	11.75
Year Ago EPS	2.76	1.7	8.19	9.39

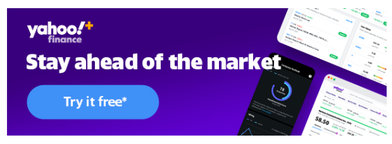
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	17	17	26	26
Avg. Estimate	5.52B	4.87B	20.35B	21.46B
Low Estimate	5.47B	4.57B	19.34B	20.42B
High Estimate	5.6B	4.95B	20.6B	22.11B
Year Ago Sales	5.12B	4.49B	18.36B	20.35B
Sales Growth (year/est)	7.80%	8.50%	10.80%	5.50%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	2.6	1.62	1.64	2.68
EPS Actual	2.76	1.7	2.06	2.65
Difference	0.16	0.08	0.42	-0.03
Surprise %	6.20%	4.90%	25.60%	-1.10%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	2.73	1.96	9.39	10.61
7 Days Ago	2.73	1.96	9.39	10.61
30 Days Ago	2.77	1.91	9.41	10.59
60 Days Ago	2.86	1.88	9.45	10.51
90 Days Ago	2.82	1.84	9.32	10.3

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	2	6	N/A	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	1	1

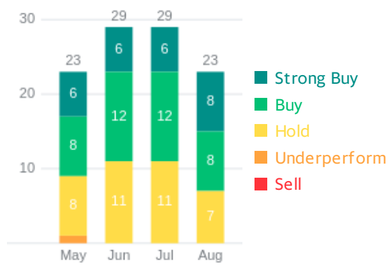
Growth Estimates	SHW	Industry	Sector(s)	S&P 500
Current Qtr.	-1.10%	N/A	N/A	N/A
Next Qtr.	15.30%	N/A	N/A	N/A
Current Year	14.70%	N/A	N/A	N/A
Next Year	13.00%	N/A	N/A	N/A
Next 5 Years (per annum)	11.87%	N/A	N/A	N/A
Past 5 Years (per annum)	21.99%	N/A	N/A	N/A



Similar to SHW

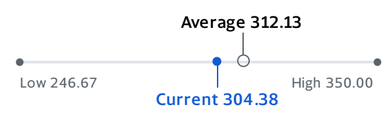
Symbol	Last Price	Change	% Change
PPG PPG Industries, Inc.	159.23	-2.48	-1.54%
LIN Linde plc	314.30	-1.25	-0.40%
ECL Ecolab Inc.	224.72	-0.76	-0.34%
DD DuPont de Nemours, Inc.	74.03	+0.12	+0.16%
LYB LyondellBasell Industries N.V.	101.21	-0.73	-0.72%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (20)



Upgrades & Downgrades

Maintains	Morgan Stanley: to Overweight	8/20/2021
Maintains	Keybanc: to Overweight	8/2/2021
Maintains	BMO Capital: to Outperform	7/28/2021
Maintains	Wells Fargo: to Overweight	7/28/2021
Upgrade	B of A Securities: Neutral to Buy	6/10/2021
Maintains	Loop Capital: to Buy	6/9/2021

More Upgrades & Downgrades

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U.S. markets close in 2 hours 44 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,525.87	35,393.98	15,264.61	2,275.78
-2.92 (-0.06%)	-5.86 (-0.02%)	-1.28 (-0.01%)	+9.79 (+0.43%)

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Selective Insurance Group, Inc. (SIGI)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

83.94 -0.08 (-0.10%)

As of 1:16PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	7	6	6	7
Avg. Estimate	1.25	1.34	6.2	5.53
Low Estimate	1.05	1.2	5.95	5.25
High Estimate	1.54	1.48	6.35	6.13
Year Ago EPS	0.4	1.06	4.15	6.2

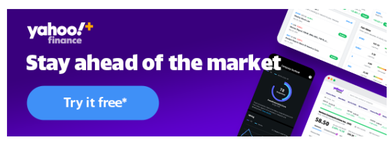
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	4	3	2	3
Avg. Estimate	782.93M	784.23M	3.15B	3.36B
Low Estimate	765.9M	770.17M	3.13B	3.36B
High Estimate	803.9M	795.41M	3.16B	3.36B
Year Ago Sales	724.8M	701M	2.77B	3.15B
Sales Growth (year/est)	8.00%	11.90%	13.50%	6.80%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.36	1.03	1.2	1.04
EPS Actual	0.4	1.06	1.84	1.7
Difference	0.04	0.03	0.64	0.66
Surprise %	11.10%	2.90%	53.30%	63.50%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	1.25	1.34	6.2	5.53
7 Days Ago	1.25	1.37	6.2	5.53
30 Days Ago	1.25	1.11	5.46	5.27
60 Days Ago	1.21	1.11	5.31	5.24
90 Days Ago	1.21	1.11	5.31	5.24

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	3	2	3	3
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

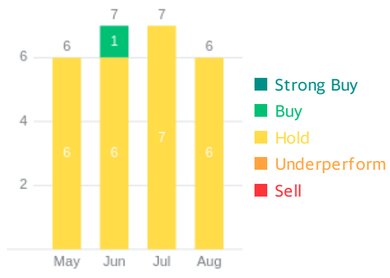
Growth Estimates	SIGI	Industry	Sector(s)	S&P 500
Current Qtr.	212.50%	N/A	N/A	N/A
Next Qtr.	26.40%	N/A	N/A	N/A
Current Year	49.40%	N/A	N/A	N/A
Next Year	-10.80%	N/A	N/A	N/A
Next 5 Years (per annum)	10.00%	N/A	N/A	N/A
Past 5 Years (per annum)	9.79%	N/A	N/A	N/A



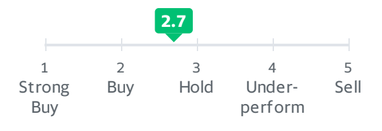
People Also Watch

Symbol	Last Price	Change	% Change
STFC State Auto Financial Corporation	50.39	+0.03	+0.06%
RLI RLI Corp.	109.78	+0.21	+0.19%
UFCS United Fire Group, Inc.	26.05	-0.20	-0.76%
THG The Hanover Insurance Group, Inc.	141.34	+0.69	+0.49%
SAFT Safety Insurance Group, Inc.	81.48	0.00	0.00%

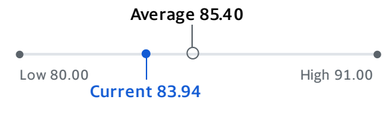
Recommendation Trends



Recommendation Rating



Analyst Price Targets (5)



Upgrades & Downgrades

Initiated	Wolfe Research: to Outperform	8/17/2021
Maintains	RBC Capital: to Sector Perform	7/30/2021
Downgrade	JMP Securities: Outperform to Market Perform	7/14/2021
Maintains	JMP Securities: to Market Outperform	4/16/2021
Maintains	Credit Suisse: to Outperform	11/10/2020
Upgrade	Credit Suisse: Underperform to Outperform	5/14/2020

More Upgrades & Downgrades

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U.S. markets close in 2 hours 45 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,526.03	35,397.30	15,264.04	2,275.95
-2.76 (-0.06%)	-2.54 (-0.01%)	-1.85 (-0.01%)	+9.96 (+0.44%)

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Sirius XM Holdings Inc. (SIRI)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

6.31 +0.03 (+0.56%)

As of 1:15PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	12	12	9	12
Avg. Estimate	0.07	0.06	0.29	0.33
Low Estimate	0.05	0.06	0.28	0.3
High Estimate	0.08	0.07	0.3	0.35
Year Ago EPS	0.06	0.07	0.25	0.29

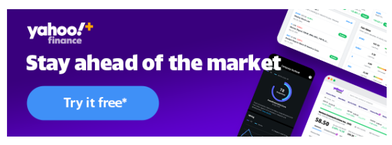
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	11	10	13	12
Avg. Estimate	2.16B	2.22B	8.6B	8.93B
Low Estimate	2.13B	2.19B	8.51B	8.75B
High Estimate	2.19B	2.26B	8.68B	9.15B
Year Ago Sales	2.02B	2.19B	8.04B	8.6B
Sales Growth (year/est)	6.80%	1.40%	6.90%	3.80%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	0.05	0.01	0.06	0.07
EPS Actual	0.06	0.07	0.05	0.07
Difference	0.01	0.06	-0.01	0
Surprise %	20.00%	600.00%	-16.70%	0.00%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.07	0.06	0.29	0.33
7 Days Ago	0.07	0.06	0.29	0.32
30 Days Ago	0.07	0.06	0.28	0.32
60 Days Ago	0.07	0.06	0.26	0.31
90 Days Ago	0.07	0.06	0.26	0.31

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	1	1
Up Last 30 Days	N/A	N/A	1	2
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	1	N/A	N/A	N/A

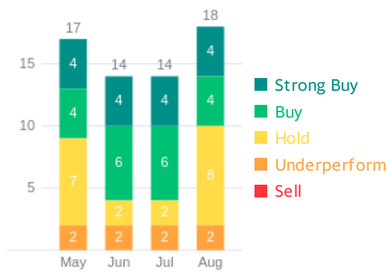
Growth Estimates	SIRI	Industry	Sector(s)	S&P 500
Current Qtr.	16.70%	N/A	N/A	N/A
Next Qtr.	-14.30%	N/A	N/A	N/A
Current Year	16.00%	N/A	N/A	N/A
Next Year	13.80%	N/A	N/A	N/A
Next 5 Years (per annum)	10.05%	N/A	N/A	N/A
Past 5 Years (per annum)	22.38%	N/A	N/A	N/A



People Also Watch

Symbol	Last Price	Change	% Change
EBAY eBay Inc.	76.68	-0.69	-0.90%
F Ford Motor Company	13.08	+0.03	+0.25%
CSCO Cisco Systems, Inc.	58.70	-0.43	-0.73%
C Citigroup Inc.	72.06	+0.39	+0.54%
BAC Bank of America Corporation	41.84	+0.18	+0.43%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (15)

Upgrades & Downgrades

Maintains	Morgan Stanley: to Equal-Weight	7/28/2021
Downgrade	Credit Suisse: Outperform to Neutral	1/28/2021
Upgrade	RBC Capital: Sector Perform to Outperform	10/27/2020
Maintains	Benchmark: to Buy	10/23/2020
Upgrade	Credit Suisse: Neutral to Outperform	10/7/2020
Upgrade	Benchmark: Hold to Buy	9/16/2020

More Upgrades & Downgrades

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U.S. markets close in 2 hours 44 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,526.08	35,395.60	15,264.69	2,275.66
-2.71 (-0.06%)	-4.24 (-0.01%)	-1.20 (-0.01%)	+9.67 (+0.43%)

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Synopsys, Inc. (SNPS)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

331.66 -2.62 (-0.78%)

As of 1:16PM EDT. Market open.

Summary Chart Conversations Statistics Historical Data Profile Financials **Analysis** Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	14	13	13	14
Avg. Estimate	1.78	1.79	6.82	7.63
Low Estimate	1.71	1.77	6.8	7.38
High Estimate	1.82	1.82	6.85	8.02
Year Ago EPS	1.74	1.58	5.55	6.82

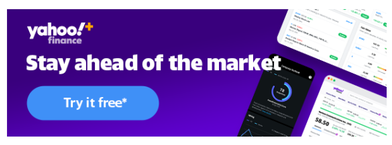
Revenue Estimate	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	14	13	13	14
Avg. Estimate	1.05B	1.14B	4.21B	4.61B
Low Estimate	1.03B	1.02B	4.2B	4.5B
High Estimate	1.08B	1.17B	4.22B	4.71B
Year Ago Sales	N/A	1.03B	3.69B	4.21B
Sales Growth (year/est)	N/A	11.10%	14.10%	9.70%

Earnings History	7/30/2020	10/30/2020	1/30/2021	4/29/2021
EPS Est.	1.34	1.57	1.47	1.52
EPS Actual	1.74	1.58	1.52	1.7
Difference	0.4	0.01	0.05	0.18
Surprise %	29.90%	0.60%	3.40%	11.80%

EPS Trend	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	1.78	1.79	6.82	7.63
7 Days Ago	1.78	1.49	6.48	7.37
30 Days Ago	1.78	1.49	6.48	7.37
60 Days Ago	1.78	1.49	6.48	7.37
90 Days Ago	1.77	1.46	6.46	7.35

EPS Revisions	Current Qtr. (Jul 2021)	Next Qtr. (Oct 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	2	N/A
Up Last 30 Days	N/A	12	13	12
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

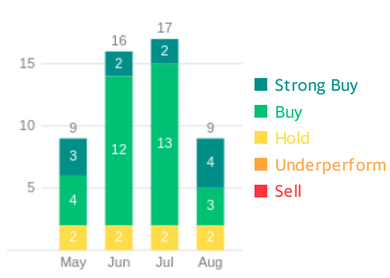
Growth Estimates	SNPS	Industry	Sector(s)	S&P 500
Current Qtr.	2.30%	N/A	N/A	N/A
Next Qtr.	13.30%	N/A	N/A	N/A
Current Year	22.90%	N/A	N/A	N/A
Next Year	11.90%	N/A	N/A	N/A
Next 5 Years (per annum)	16.00%	N/A	N/A	N/A
Past 5 Years (per annum)	11.81%	N/A	N/A	N/A



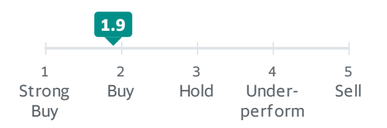
People Also Watch

Symbol	Last Price	Change	% Change
CDNS Cadence Design Systems, Inc.	163.36	-0.53	-0.33%
ANSS ANSYS, Inc.	364.56	-1.24	-0.34%
XLNX Xilinx, Inc.	156.30	+1.23	+0.79%
ADSK Autodesk, Inc.	311.02	-2.37	-0.76%
INTU Intuit Inc.	564.14	-1.43	-0.25%

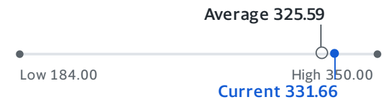
Recommendation Trends



Recommendation Rating



Analyst Price Targets (17)



Upgrades & Downgrades

Maintains	Rosenblatt: to Buy	8/25/2021
Maintains	Wells Fargo: to Overweight	8/19/2021
Maintains	Rosenblatt: to Buy	8/19/2021
Maintains	Keybanc: to Overweight	8/19/2021
Maintains	Wells Fargo: to Overweight	8/12/2021
Initiated	WestPark Capital: to Buy	7/15/2021

More Upgrades & Downgrades

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U.S. markets close in 2 hours 43 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
4,525.63	35,394.56	15,263.40	2,275.81
-3.16 (-0.07%)	-5.28 (-0.01%)	-2.49 (-0.02%)	+9.81 (+0.43%)

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Texas Instruments Incorporated (TXN)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

190.87 -0.56 (-0.29%)

As of 1:17PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	26	26	31	31
Avg. Estimate	2.04	1.91	7.89	8.14
Low Estimate	1.96	1.52	7.57	7.21
High Estimate	2.15	2.13	8.15	9
Year Ago EPS	1.45	1.64	5.81	7.89

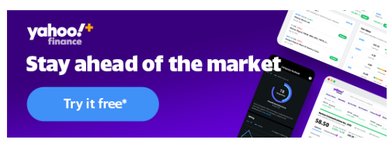
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	25	25	31	31
Avg. Estimate	4.64B	4.42B	17.91B	18.63B
Low Estimate	4.55B	3.8B	16.76B	17.32B
High Estimate	4.84B	4.81B	18.44B	19.71B
Year Ago Sales	3.43B	4.08B	14.46B	17.91B
Sales Growth (year/est)	35.00%	8.30%	23.90%	4.00%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	1.28	1.34	1.58	1.83
EPS Actual	1.45	1.64	1.87	2.05
Difference	0.17	0.3	0.29	0.22
Surprise %	13.30%	22.40%	18.40%	12.00%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	2.04	1.91	7.89	8.14
7 Days Ago	2.04	1.91	7.88	8.14
30 Days Ago	2.04	1.91	7.88	8.14
60 Days Ago	1.97	1.8	7.44	7.84
90 Days Ago	1.97	1.8	7.43	7.84

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	N/A	1	1	N/A
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

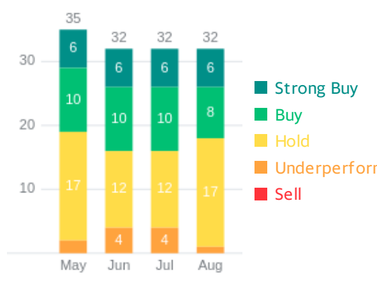
Growth Estimates	TXN	Industry	Sector(s)	S&P 500
Current Qtr.	40.70%	N/A	N/A	N/A
Next Qtr.	16.50%	N/A	N/A	N/A
Current Year	35.80%	N/A	N/A	N/A
Next Year	3.20%	N/A	N/A	N/A
Next 5 Years (per annum)	10.00%	N/A	N/A	N/A
Past 5 Years (per annum)	20.33%	N/A	N/A	N/A



People Also Watch

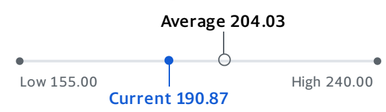
Symbol	Last Price	Change	% Change
AMAT Applied Materials, Inc.	135.15	-0.90	-0.66%
ADI Analog Devices, Inc.	164.20	-2.78	-1.66%
XLNX Xilinx, Inc.	156.10	+1.02	+0.66%
QCOM QUALCOMM Incorporated	147.25	+1.31	+0.90%
MU Micron Technology, Inc.	74.28	+1.12	+1.53%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (31)



Upgrades & Downgrades

Downgrade	Summit Insights Group: Buy to Hold	7/22/2021
Maintains	Morgan Stanley: to Underweight	7/22/2021
Maintains	Raymond James: to Outperform	7/22/2021
Maintains	Morgan Stanley: to Underweight	7/19/2021
Maintains	Citigroup: to Buy	7/15/2021
Maintains	Keybanc: to Overweight	7/6/2021

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U.S. markets close in 2 hours 43 minutes

S&P 500	Dow 30	Nasdaq	Russell 2000
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-3.34 (-0.07%)	-8.78 (-0.02%)	-2.75 (-0.02%)	+9.73 (+0.43%)

Advertisement

AMERCO (UHAL)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

Add to watchlist

Quote Lookup

666.62 -4.92 (-0.73%)

As of 1:16PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2022)	Next Year (2023)
No. of Analysts	1	1	1	0
Avg. Estimate	8.06	15.48	47.65	0
Low Estimate	8.06	15.48	47.65	0
High Estimate	8.06	15.48	47.65	0
Year Ago EPS	4.47	13.58	31.15	47.65

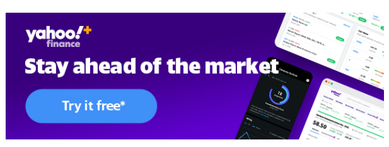
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2022)	Next Year (2023)
No. of Analysts	1	1	1	1
Avg. Estimate	1.47B	1.57B	5.42B	3.86B
Low Estimate	1.24B	1.57B	5.42B	3.86B
High Estimate	1.24B	1.57B	5.42B	3.86B
Year Ago Sales	N/A	N/A	4.54B	5.42B
Sales Growth (year/est)	N/A	N/A	19.30%	-28.70%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	1.78	4.58	7.08	5.07
EPS Actual	4.47	13.58	9.33	3.76
Difference	2.69	9	2.25	-1.31
Surprise %	151.10%	196.50%	31.80%	-25.80%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2022)	Next Year (2023)
Current Estimate	8.06	15.48	47.65	0
7 Days Ago	8.06	15.48	32.55	16.06
30 Days Ago	8.06	13.78	32.55	16.06
60 Days Ago	8.06	13.78	32.55	16.06
90 Days Ago	7.95	12.75	33.72	16.06

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2022)	Next Year (2023)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	N/A	1	1	N/A
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

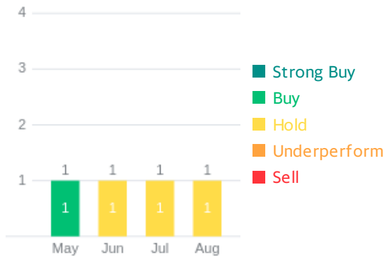
Growth Estimates	UHAL	Industry	Sector(s)	S&P 500
Current Qtr.	80.30%	N/A	N/A	N/A
Next Qtr.	14.00%	N/A	N/A	N/A
Current Year	53.00%	N/A	N/A	N/A
Next Year	N/A	N/A	N/A	N/A
Next 5 Years (per annum)	15.00%	N/A	N/A	N/A
Past 5 Years (per annum)	-18.58%	N/A	N/A	N/A



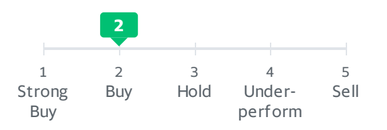
People Also Watch

Symbol	Last Price	Change	% Change
CACC Credit Acceptance Corporation	579.62	+3.11	+0.54%
LFUS Littelfuse, Inc.	287.72	-0.31	-0.11%
FCNCA First Citizens BancShares, Inc.	896.14	+5.98	+0.67%
ANAT American National Group, Inc.	192.08	+0.22	+0.11%
ROLL RBC Bearings Incorporated	233.71	+1.19	+0.51%

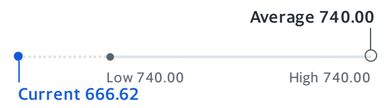
Recommendation Trends



Recommendation Rating



Analyst Price Targets (1)



Upgrades & Downgrades

Downgrade	CL King: Strong Buy to Buy	8/5/2016
Initiated	Sidoti & Co.: to Buy	4/11/2014
Upgrade	CL King: Neutral to Strong Buy	9/16/2013
Downgrade	CL King: Strong Buy to Neutral	5/31/2013

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S&P 500	Dow 30	Nasdaq	Russell 2000
4,526.00	35,398.38	15,263.73	2,275.79
-2.79 (-0.06%)	-1.46 (-0.00%)	-2.16 (-0.01%)	+9.80 (+0.43%)

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United Parcel Service, Inc. (UPS)

NYSE - Nasdaq Real Time Price. Currency in USD

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Quote Lookup

195.46 +1.45 (+0.75%)

As of 1:17PM EDT. Market open.

Summary Chart Conversations Statistics Historical Data Profile Financials **Analysis** Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	22	22	28	28
Avg. Estimate	2.56	2.85	11.21	11.7
Low Estimate	2.42	2.67	10.83	9.58
High Estimate	2.76	3.04	11.55	12.48
Year Ago EPS	2.28	2.66	8.23	11.21

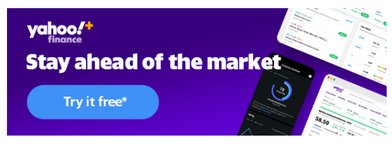
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	17	17	27	27
Avg. Estimate	22.65B	26.01B	95.07B	97.64B
Low Estimate	22.14B	24.51B	93.74B	91.82B
High Estimate	23.01B	26.94B	96.6B	100.76B
Year Ago Sales	21.24B	24.9B	84.63B	95.07B
Sales Growth (year/est)	6.70%	4.50%	12.30%	2.70%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	1.9	2.14	1.72	2.82
EPS Actual	2.28	2.66	2.77	3.06
Difference	0.38	0.52	1.05	0.24
Surprise %	20.00%	24.30%	61.00%	8.50%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	2.56	2.85	11.21	11.7
7 Days Ago	2.56	2.85	11.22	11.78
30 Days Ago	2.58	2.84	11.04	11.52
60 Days Ago	2.65	2.86	10.94	11.55
90 Days Ago	2.67	2.86	10.91	11.35

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	N/A	N/A	4	4
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	1

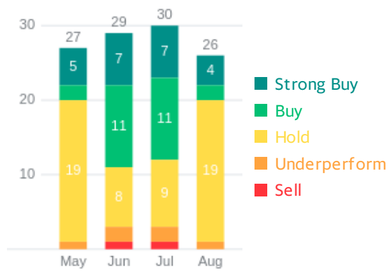
Growth Estimates	UPS	Industry	Sector(s)	S&P 500
Current Qtr.	12.30%	N/A	N/A	N/A
Next Qtr.	7.10%	N/A	N/A	N/A
Current Year	36.20%	N/A	N/A	N/A
Next Year	4.40%	N/A	N/A	N/A
Next 5 Years (per annum)	15.89%	N/A	N/A	N/A
Past 5 Years (per annum)	9.08%	N/A	N/A	N/A



People Also Watch

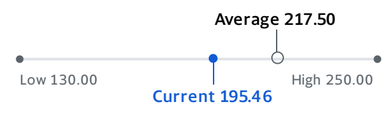
Symbol	Last Price	Change	% Change
FDX FedEx Corporation	266.26	+0.72	+0.27%
MMM 3M Company	194.57	-1.60	-0.81%
TGT Target Corporation	246.29	-3.07	-1.23%
COST Costco Wholesale Corporation	452.95	-2.98	-0.65%
PEP PepsiCo, Inc.	155.56	-0.44	-0.28%

Recommendation Trends



Recommendation Rating

Analyst Price Targets (28)



Upgrades & Downgrades

Maintains	Credit Suisse: to Outperform	7/28/2021
Maintains	Morgan Stanley: to Underweight	6/10/2021
Maintains	Stephens & Co.: to Equal-Weight	6/10/2021
Maintains	Oppenheimer: to Outperform	6/10/2021
Maintains	Deutsche Bank: to Buy	6/10/2021
Upgrade	JP Morgan: Neutral to Overweight	6/10/2021

More Upgrades & Downgrades

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S&P 500	Dow 30	Nasdaq	Russell 2000
4,525.41	35,390.83	15,263.20	2,275.73
-3.38 (-0.07%)	-9.01 (-0.03%)	-2.69 (-0.02%)	+9.73 (+0.43%)

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VeriSign, Inc. (VRSN)

NasdaqGS - NasdaqGS Real Time Price. Currency in USD

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215.50 -0.65 (-0.30%)

As of 1:16PM EDT. Market open.

Summary | Chart | Conversations | Statistics | Historical Data | Profile | Financials | **Analysis** | Options | Holders | Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	2	2	4	4
Avg. Estimate	1.36	1.41	5.4	6.18
Low Estimate	1.35	1.38	5.37	6.02
High Estimate	1.38	1.45	5.46	6.33
Year Ago EPS	1.49	1.38	7.07	5.4

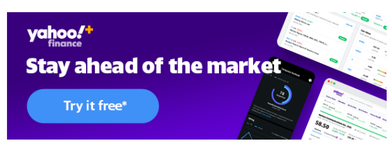
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	2	2	5	5
Avg. Estimate	332.52M	340.14M	1.33B	1.44B
Low Estimate	332.04M	340M	1.33B	1.42B
High Estimate	333M	340.28M	1.33B	1.48B
Year Ago Sales	N/A	320.28M	1.27B	1.33B
Sales Growth (year/est)	N/A	6.20%	4.90%	8.80%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	1.25	1.29	1.3	1.33
EPS Actual	1.49	1.38	1.33	1.31
Difference	0.24	0.09	0.03	-0.02
Surprise %	19.20%	7.00%	2.30%	-1.50%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	1.36	1.41	5.4	6.18
7 Days Ago	1.36	1.41	5.4	6.18
30 Days Ago	1.36	1.41	5.4	6.19
60 Days Ago	1.34	1.39	5.4	6.16
90 Days Ago	1.34	1.39	5.4	6.16

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	N/A	N/A	N/A	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

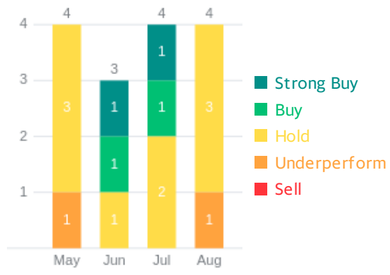
Growth Estimates	VRSN	Industry	Sector(s)	S&P 500
Current Qtr.	-8.70%	N/A	N/A	N/A
Next Qtr.	2.20%	N/A	N/A	N/A
Current Year	-23.60%	N/A	N/A	N/A
Next Year	14.40%	N/A	N/A	N/A
Next 5 Years (per annum)	8.00%	N/A	N/A	N/A
Past 5 Years (per annum)	15.89%	N/A	N/A	N/A



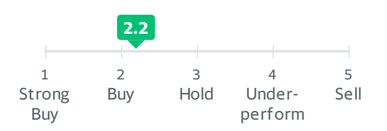
People Also Watch

Symbol	Last Price	Change	% Change
CHKP Check Point Software Technologies Ltd.	125.52	-1.12	-0.88%
JNPR Juniper Networks, Inc.	29.02	-0.22	-0.74%
NTAP NetApp, Inc.	88.72	+0.35	+0.40%
CTXS Citrix Systems, Inc.	103.41	+0.75	+0.73%
VRTS Virtus Investment Partners, Inc.	312.44	+1.26	+0.40%

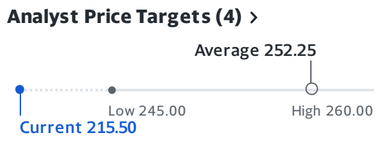
Recommendation Trends



Recommendation Rating



Analyst Price Targets (4)



Upgrades & Downgrades

Upgrade	JP Morgan: Neutral to Overweight	12/9/2020
Maintains	CFRA: to Hold	4/27/2020
Maintains	Citigroup: to Neutral	4/27/2020
Maintains	Baird: to Outperform	4/24/2020
Maintains	Baird: to Outperform	7/26/2019
Maintains	Citigroup: Neutral to Neutral	3/6/2019

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S&P 500	Dow 30	Nasdaq	Russell 2000
4,525.79	35,395.98	15,263.25	2,275.73
-3.00 (-0.07%)	-3.86 (-0.01%)	-2.64 (-0.02%)	+9.74 (+0.43%)

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Waters Corporation (WAT)

NYSE - Nasdaq Real Time Price. Currency in USD

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Quote Lookup

411.23 -1.83 (-0.44%)

As of 1:17PM EDT. Market open.

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	13	14	13	16
Avg. Estimate	2.25	2.35	10.67	11.6
Low Estimate	2.15	2.27	10.52	11.14
High Estimate	2.35	2.54	10.99	12.14
Year Ago EPS	2.1	2.16	9.05	10.67

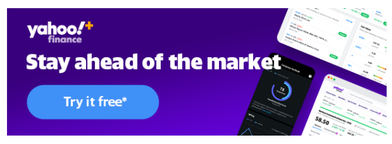
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	12	12	14	14
Avg. Estimate	681.65M	653.74M	2.76B	2.91B
Low Estimate	595M	638M	2.74B	2.85B
High Estimate	650M	672M	2.79B	3.01B
Year Ago Sales	496.86M	N/A	2.37B	2.76B
Sales Growth (year/est)	37.20%	N/A	16.80%	5.30%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	1.54	1.93	2.89	1.57
EPS Actual	2.1	2.16	3.65	2.29
Difference	0.56	0.23	0.76	0.72
Surprise %	36.40%	11.90%	26.30%	45.90%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	2.25	2.35	10.67	11.6
7 Days Ago	2.25	2.35	10.67	11.6
30 Days Ago	2.25	2.25	10.09	11.02
60 Days Ago	2.24	2.25	10.08	11.02
90 Days Ago	2.22	2.24	10.07	11

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	1	13	15	15
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

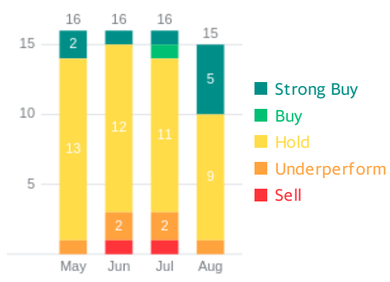
Growth Estimates	WAT	Industry	Sector(s)	S&P 500
Current Qtr.	7.10%	N/A	N/A	N/A
Next Qtr.	8.80%	N/A	N/A	N/A
Current Year	17.90%	N/A	N/A	N/A
Next Year	8.70%	N/A	N/A	N/A
Next 5 Years (per annum)	9.30%	N/A	N/A	N/A
Past 5 Years (per annum)	9.11%	N/A	N/A	N/A



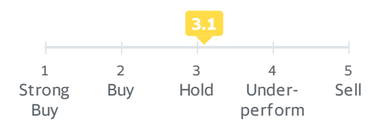
People Also Watch

Symbol	Last Price	Change	% Change
PKI PerkinElmer, Inc.	184.08	-3.87	-2.06%
MTD Mettler-Toledo International Inc.	1,549.40	-39.33	-2.48%
XRAY DENTSPLY SIRONA Inc.	61.30	+0.02	+0.03%
UHS Universal Health Services, Inc.	156.00	+0.18	+0.12%
COO The Cooper Companies, Inc.	447.50	-1.88	-0.42%

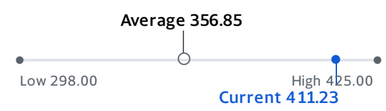
Recommendation Trends



Recommendation Rating



Analyst Price Targets (13)



Upgrades & Downgrades

Maintains	Baird: to Neutral	8/4/2021
Maintains	SVB Leerink: to Market Perform	8/4/2021
Upgrade	Evercore ISI Group: In-Line to Outperform	7/6/2021
Maintains	Wells Fargo: to Underweight	5/6/2021
Maintains	SVB Leerink: to Market Perform	5/6/2021
Downgrade	Wells Fargo: Equal-Weight to Underweight	1/7/2021

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S&P 500	Dow 30	Nasdaq	Russell 2000
4,525.79	35,395.98	15,263.25	2,275.73
-3.00 (-0.07%)	-3.86 (-0.01%)	-2.64 (-0.02%)	+9.74 (+0.43%)

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Watsco, Inc. (WSO)

NYSE - Nasdaq Real Time Price. Currency in USD

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Quote Lookup

278.53 -2.96 (-1.05%)

As of 1:17PM EDT. Market open.

Summary Chart Conversations Statistics Historical Data Profile Financials **Analysis** Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	11	11	9	11
Avg. Estimate	3.4	1.57	10.21	10.48
Low Estimate	3.1	1.31	9.85	9.45
High Estimate	3.62	1.86	10.5	11
Year Ago EPS	2.76	1.14	7.01	10.21

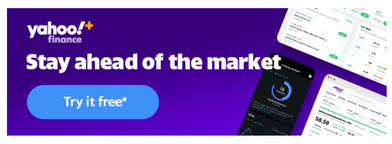
Revenue Estimate	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	10	10	11	12
Avg. Estimate	1.81B	1.33B	6.11B	6.34B
Low Estimate	1.76B	1.26B	5.97B	5.94B
High Estimate	1.86B	1.37B	6.22B	6.53B
Year Ago Sales	1.54B	1.15B	5.05B	6.11B
Sales Growth (year/est)	18.00%	15.10%	20.90%	3.70%

Earnings History	9/29/2020	12/30/2020	3/30/2021	6/29/2021
EPS Est.	2.48	0.99	0.89	3.05
EPS Actual	2.76	1.14	1.39	3.71
Difference	0.28	0.15	0.5	0.66
Surprise %	11.30%	15.20%	56.20%	21.60%

EPS Trend	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	3.4	1.57	10.21	10.48
7 Days Ago	3.4	1.57	10.21	10.48
30 Days Ago	3.27	1.48	9.67	10.15
60 Days Ago	3.01	1.29	8.74	9.13
90 Days Ago	3.01	1.29	8.72	9.11

EPS Revisions	Current Qtr. (Sep 2021)	Next Qtr. (Dec 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	3	2	1	2
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	N/A	N/A

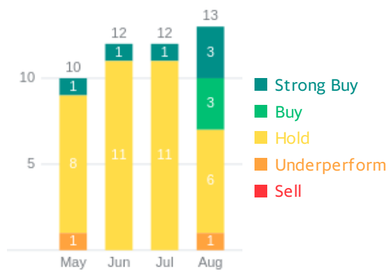
Growth Estimates	WSO	Industry	Sector(s)	S&P 500
Current Qtr.	23.20%	N/A	N/A	N/A
Next Qtr.	37.70%	N/A	N/A	N/A
Current Year	45.60%	N/A	N/A	N/A
Next Year	2.60%	N/A	N/A	N/A
Next 5 Years (per annum)	15.00%	N/A	N/A	N/A
Past 5 Years (per annum)	10.99%	N/A	N/A	N/A



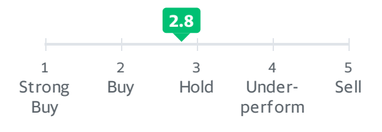
People Also Watch

Symbol	Last Price	Change	% Change
MSM MSC Industrial Direct Co., Inc.	84.65	-0.18	-0.21%
FAST Fastenal Company	55.87	-0.26	-0.46%
WCC WESCO International, Inc.	119.14	-0.03	-0.03%
GWW W.W. Grainger, Inc.	435.24	+0.64	+0.15%
SITE SiteOne Landscape Supply, Inc.	201.41	-0.87	-0.43%

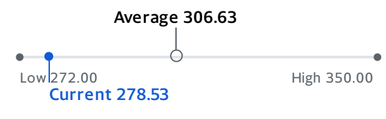
Recommendation Trends



Recommendation Rating



Analyst Price Targets (8)



Upgrades & Downgrades

Initiated	Loop Capital: to Hold	8/3/2021
Upgrade	Stephens & Co.: Equal-Weight to Overweight	7/23/2021
Downgrade	Wolfe Research: Peer Perform to Underperform	7/12/2021
Initiated	Wolfe Research: to Peer Perform	5/19/2021
Maintains	Morgan Stanley: to Equal-Weight	4/23/2021
Maintains	Morgan Stanley: to Equal-Weight	4/12/2021

More Upgrades & Downgrades

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S&P 500	Dow 30	Nasdaq	Russell 2000
4,525.57	35,394.43	15,263.06	2,275.80
-3.22 (-0.07%)	-5.41 (-0.02%)	-2.83 (-0.02%)	+9.81 (+0.43%)

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The Western Union Company (WU)

NYSE - Nasdaq Real Time Price. Currency in USD

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Quote Lookup

21.55 +0.28 (+1.32%)

As of 1:16PM EDT. Market open.

Summary Chart Conversations Statistics Historical Data Profile Financials **Analysis** Options Holders Sustainability

Currency in USD

Earnings Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	20	18	20	20
Avg. Estimate	0.48	0.58	2.07	2.29
Low Estimate	0.44	0.54	2.04	2.24
High Estimate	0.52	0.62	2.11	2.35
Year Ago EPS	0.41	0.57	1.87	2.07

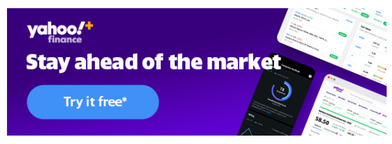
Revenue Estimate	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
No. of Analysts	15	15	19	19
Avg. Estimate	1.25B	1.31B	5.15B	5.3B
Low Estimate	1.22B	1.26B	5.1B	4.96B
High Estimate	1.3B	1.34B	5.19B	5.46B
Year Ago Sales	1.11B	1.25B	4.83B	5.15B
Sales Growth (year/est)	12.50%	5.50%	6.60%	2.80%

Earnings History	6/29/2020	9/29/2020	12/30/2020	3/30/2021
EPS Est.	0.35	0.46	0.42	0.44
EPS Actual	0.41	0.57	0.45	0.44
Difference	0.06	0.11	0.03	0
Surprise %	17.10%	23.90%	7.10%	0.00%

EPS Trend	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Current Estimate	0.48	0.58	2.07	2.29
7 Days Ago	0.48	0.58	2.07	2.29
30 Days Ago	0.47	0.58	2.06	2.29
60 Days Ago	0.47	0.58	2.06	2.29
90 Days Ago	0.47	0.58	2.06	2.29

EPS Revisions	Current Qtr. (Jun 2021)	Next Qtr. (Sep 2021)	Current Year (2021)	Next Year (2022)
Up Last 7 Days	N/A	N/A	N/A	N/A
Up Last 30 Days	N/A	5	1	1
Down Last 7 Days	N/A	N/A	N/A	N/A
Down Last 30 Days	N/A	N/A	1	1

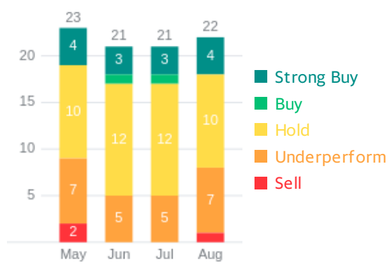
Growth Estimates	WU	Industry	Sector(s)	S&P 500
Current Qtr.	17.10%	N/A	N/A	N/A
Next Qtr.	1.80%	N/A	N/A	N/A
Current Year	10.70%	N/A	N/A	N/A
Next Year	10.60%	N/A	N/A	N/A
Next 5 Years (per annum)	9.19%	N/A	N/A	N/A
Past 5 Years (per annum)	2.99%	N/A	N/A	N/A



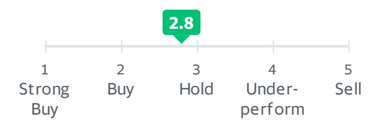
People Also Watch

Symbol	Last Price	Change	% Change
UNM Unum Group	26.83	+0.32	+1.19%
SEE Sealed Air Corporation	60.84	-0.27	-0.44%
WAT Waters Corporation	411.23	-1.83	-0.44%
ZION Zions Bancorporation, National Associa...	58.05	+0.85	+1.49%
FIS Fidelity National Information Services, I...	127.94	+0.72	+0.57%

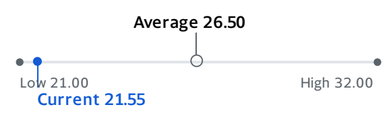
Recommendation Trends



Recommendation Rating



Analyst Price Targets (14)



Upgrades & Downgrades

Maintains	Morgan Stanley: to Underweight	5/5/2021
Maintains	Credit Suisse: to Underperform	2/11/2021
Maintains	Morgan Stanley: to Underweight	2/11/2021
Upgrade	Wells Fargo: Underweight to Equal-Weight	2/11/2021
Upgrade	Guggenheim: Neutral to Buy	1/8/2021
Maintains	Morgan Stanley: to Underweight	11/12/2020

More Upgrades & Downgrades

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Ameren Corporation (AEE)

(Real Time Quote from BATS)

$87.53 USD

-0.96 (-1.09%)

Updated Aug 31, 2021 03:27 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
C Value | F Growth | F Momentum | F VGM

Industry Rank:
Bottom 22% (198 out of 253)

Industry: Utility - Electric Power

View All Zacks #1 Ranked Stocks

Ameren Corporation (AEE) Quote Overview » Estimates » Ameren Corporation (AEE) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/3/21	Earnings ESP	1.26%

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ABR	2.00	P/E (F1)	23.52

Growth Estimates	AEE	IND	S&P
Current Qtr (09/2021)	8.16	5.07	186.03
Next Qtr (12/2021)	4.35	6.56	57.67
Current Year (12/2021)	7.43	4.80	55.37
Next Year (12/2022)	7.45	11.10	13.08
Past 5 Years	6.50	3.10	2.80
Next 5 Years	7.30	7.50	NA
PE	23.52	15.00	23.82
PEG Ratio	3.20	2.00	NA

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See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for AEE

Zacks Rank	**Hold 3**
Zacks Industry Rank	Bottom 22% (198 out of 253)
Zacks Sector Rank	Bottom 6% (15 out of 16)
Style Scores	**C Value | F Growth | F Momentum | F VGM**
Earnings ESP	1.26%
Research Reports for AEE	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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Research for AEE

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Chart for AEE

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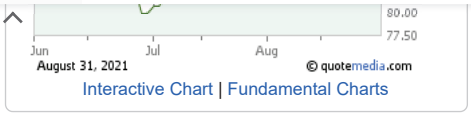

Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.78B	1.40B	6.15B	6.38B
# of Estimates	2	2	3	3
High Estimate	1.84B	1.42B	6.27B	6.58B
Low Estimate	1.72B	1.37B	6.05B	6.24B
Year ago Sales	1.63B	1.33B	5.79B	6.15B
Year over Year Growth Est.	9.42%	5.13%	6.16%	3.72%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.59	0.48	3.76	4.04
# of Estimates	3	3	5	5
Most Recent Consensus	1.61	0.45	3.78	4.04
High Estimate	1.61	0.56	3.79	4.08
Low Estimate	1.55	0.42	3.74	4.00
Year ago EPS	1.47	0.46	3.50	3.76
Year over Year Growth Est.	8.16%	4.35%	7.43%	7.34%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	1
Up Last 30 Days	0	0	0	1
Up Last 60 Days	1	0	1	2
Down Last 7 Days	2	2	2	0
Down Last 30 Days	2	2	2	0
Down Last 60 Days	1	3	2	1

Magnitude - Consensus Estimate Trend

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30 Days Ago	1.61	0.50	3.78	4.03
60 Days Ago	1.53	0.54	3.79	4.04
90 Days Ago	1.49	0.54	3.77	4.02

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	1.61	0.44	3.77	4.04
Zacks Consensus Estimate	1.59	0.48	3.76	4.04
Earnings ESP	1.26%	-8.74%	0.08%	0.05%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.80	0.91	0.46	1.47	NA
Estimate	0.78	0.79	0.43	1.44	NA
Difference	0.02	0.12	0.03	0.03	0.05
Surprise	2.56%	15.19%	6.98%	2.08%	6.70%

Quarterly Estimates By Analyst

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Avista Corporation (AVA)
(Real Time Quote from BATS)

$41.66 USD
+0.06 (0.14%)
Updated Aug 31, 2021 03:31 PM ET

Add to portfo Trades from $1

Zacks Rank:
4-Sell

Style Scores:
B Value | F Growth | A Momentum | C VGM

Industry Rank:
Bottom 22% (198 out of 253)
Industry: Utility - Electric Power

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Avista Corporation (AVA) Quote Overview » Estimates » Avista Corporation (AVA) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/3/21	Earnings ESP	0.00%

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ABR 2.75 P/E (F1) 20.54

Growth Estimates	AVA	IND	S&P
Current Qtr (09/2021)	14.29	5.07	186.03
Next Qtr (12/2021)	-10.47	6.56	57.67
Current Year (12/2021)	6.84	4.80	55.37
Next Year (12/2022)	7.88	11.10	13.08
Past 5 Years	-0.90	3.10	2.80
Next 5 Years	5.10	7.50	NA
PE	20.54	15.00	23.82
PEG Ratio	4.02	2.00	NA

Learn More About Estimate Research

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Premium Research for AVA

Zacks Rank	▲ Sell 4
Zacks Industry Rank	Bottom 22% (198 out of 253)
Zacks Sector Rank	Bottom 6% (15 out of 16)
Style Scores	B Value | F Growth | A Momentum | C VGM
Earnings ESP	0.00%
Research Report for AVA	Snapshot

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Research for AVA

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Chart for AVA

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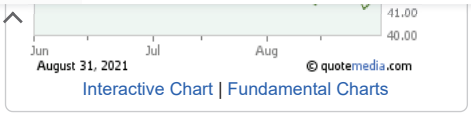

Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	274.60M	387.20M	1.37B	1.41B
# of Estimates	1	1	1	1
High Estimate	274.60M	387.20M	1.37B	1.41B
Low Estimate	274.60M	387.20M	1.37B	1.41B
Year ago Sales	272.65M	380.42M	1.32B	1.37B
Year over Year Growth Est.	0.72%	1.78%	3.86%	2.89%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.08	0.77	2.03	2.19
# of Estimates	2	1	2	2
Most Recent Consensus	0.10	0.77	2.05	2.22
High Estimate	0.10	0.77	2.05	2.22
Low Estimate	0.06	0.77	2.00	2.15
Year ago EPS	0.07	0.86	1.90	2.03
Year over Year Growth Est.	14.29%	-10.47%	6.84%	7.88%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	1	0	0
Up Last 60 Days	0	1	0	0
Down Last 7 Days	0	0	0	0
Down Last 30 Days	1	0	2	2
Down Last 60 Days	1	0	2	2

Magnitude - Consensus Estimate Trend

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30 Days Ago	0.11	0.76	2.11	2.31
60 Days Ago	0.11	0.76	2.12	2.31
90 Days Ago	0.11	0.76	2.12	2.31

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	0.08	0.77	2.03	2.19
Zacks Consensus Estimate	0.08	0.77	2.03	2.19
Earnings ESP	0.00%	0.00%	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.20	0.98	0.86	0.07	NA
Estimate	0.26	0.85	0.78	0.11	NA
Difference	-0.06	0.13	0.08	-0.04	0.03
Surprise	-23.08%	15.29%	10.26%	-36.36%	-8.47%

Quarterly Estimates By Analyst

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Black Hills Corporation (BKH)

(Real Time Quote from BATS)

$70.07 USD

-0.59 (-0.84%)

Updated Aug 31, 2021 03:31 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
C Value | F Growth | C Momentum | F VGM

Industry Rank:
Bottom 22% (198 out of 253)

Industry: Utility - Electric Power

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Black Hills Corporation (BKH) Quote Overview » Estimates » Black Hills Corporation (BKH) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/1/21	Earnings ESP	NA
Current Quarter	NA	Current Year	3.88
EPS Last Quarter	0.40	Next Year	4.05
Last EPS Surprise	NA	EPS (TTM)	3.75
ABR	1.67	P/E (F1)	18.21

Growth Estimates	BKH	IND	S&P
Current Qtr (09/2021)	NA	5.07	186.03
Next Qtr (12/2021)	NA	6.56	57.67
Current Year (12/2021)	4.02	4.80	55.37
Next Year (12/2022)	4.38	11.10	13.08
Past 5 Years	4.30	3.10	2.80
Next 5 Years	5.10	7.50	NA
PE	18.21	15.00	23.82
PEG Ratio	3.58	2.00	NA

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Premium Research for BKH

Zacks Rank	▼ Hold 3
Zacks Industry Rank	Bottom 22% (198 out of 253)
Zacks Sector Rank	Bottom 6% (15 out of 16)
Style Scores	C Value | F Growth | C Momentum | F VGM
Earnings ESP	NA
Research Report for BKH	Snapshot

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Research for BKH

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Chart for BKH

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Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.00M	NA	NA	NA
# of Estimates	NA	NA	NA	NA
High Estimate	NA	NA	NA	NA
Low Estimate	NA	NA	NA	NA
Year ago Sales	346.60M	486.40M	1.70B	NA
Year over Year Growth Est.	NA	NA	NA	NA

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	NA	NA	3.88	4.05
# of Estimates	NA	NA	1	1
Most Recent Consensus	NA	NA	NA	NA
High Estimate	NA	NA	3.88	4.05
Low Estimate	NA	NA	3.88	4.05
Year ago EPS	0.58	1.23	3.73	3.88
Year over Year Growth Est.	NA	NA	4.02%	4.38%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	NA	NA	0	0
Up Last 30 Days	NA	NA	1	0
Up Last 60 Days	NA	NA	1	0
Down Last 7 Days	NA	NA	0	0
Down Last 30 Days	NA	NA	0	0
Down Last 60 Days	NA	NA	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	NA	NA	3.88	4.05
7 Days Ago	NA	NA	3.88	4.05
30 Days Ago	NA	NA	3.88	4.07
60 Days Ago	NA	NA	3.88	4.07
90 Days Ago	NA	NA	3.88	4.07

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	NA	NA	3.88	4.05
Zacks Consensus Estimate	NA	NA	3.88	4.05
Earnings ESP	NA	NA	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.40	1.54	1.23	0.58	NA
Estimate	NA	1.60	1.15	0.51	NA
Difference	NA	-0.06	0.08	0.07	0.03
Surprise	NA	-3.75%	6.96%	13.73%	5.65%

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CMS Energy Corporation (CMS)

(Real Time Quote from BATS)

$64.04 USD

-0.44 (-0.68%)

Updated Aug 31, 2021 03:33 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
B Value | C Growth | F Momentum | C VGM

Industry Rank:
Bottom 22% (198 out of 253)

Industry: Utility - Electric Power

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CMS Energy Corporation (CMS) Quote Overview » Estimates » CMS Energy Corporation (CMS) Detailed Estimates

Detailed Estimates

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Estimates

Next Report Date	11/4/21	Earnings ESP	3.65%

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ABR 1.67 P/E (F1) 23.88

Growth Estimates	CMS	IND	S&P
Current Qtr (09/2021)	-10.39	5.07	186.03
Next Qtr (12/2021)	0.00	6.56	57.67
Current Year (12/2021)	1.12	4.80	55.37
Next Year (12/2022)	6.30	11.10	13.08
Past 5 Years	7.10	3.10	2.80
Next 5 Years	6.90	7.50	NA
PE	23.88	15.00	23.82
PEG Ratio	3.46	2.00	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for CMS

Zacks Rank	▲ Hold 3
Zacks Industry Rank	Bottom 22% (198 out of 253)
Zacks Sector Rank	Bottom 6% (15 out of 16)
Style Scores	B Value | C Growth | F Momentum | C VGM
Earnings ESP	3.65%
Research Reports for CMS	Analyst | Snapshot

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Research for CMS

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Chart for CMS

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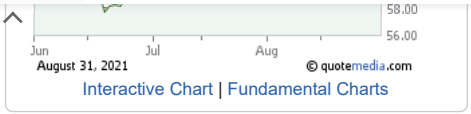

Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.59B	1.81B	6.97B	7.05B
# of Estimates	2	2	4	4
High Estimate	1.65B	1.85B	7.14B	7.38B
Low Estimate	1.52B	1.78B	6.67B	6.44B
Year ago Sales	1.58B	1.80B	6.68B	6.97B
Year over Year Growth Est.	0.78%	0.83%	4.39%	1.03%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.69	0.56	2.70	2.87
# of Estimates	4	3	4	5
Most Recent Consensus	0.66	0.59	NA	2.87
High Estimate	1.02	0.59	2.85	2.88
Low Estimate	0.45	0.51	2.65	2.86
Year ago EPS	0.77	0.56	2.67	2.70
Year over Year Growth Est.	-10.39%	0.00%	1.12%	6.22%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	1	2
Up Last 60 Days	0	0	1	2
Down Last 7 Days	0	0	0	0
Down Last 30 Days	2	2	1	0
Down Last 60 Days	3	3	2	1

Magnitude - Consensus Estimate Trend

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30 Days Ago	0.61	0.60	2.77	2.86
60 Days Ago	0.65	0.63	2.81	2.91
90 Days Ago	0.65	0.64	2.86	3.07

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	0.71	0.58	2.65	2.87
Zacks Consensus Estimate	0.69	0.56	2.70	2.87
Earnings ESP	3.65%	4.19%	-1.85%	-0.11%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.55	1.21	0.56	0.77	NA
Estimate	0.46	1.17	0.55	0.68	NA
Difference	0.09	0.04	0.01	0.09	0.06
Surprise	19.57%	3.42%	1.82%	13.24%	9.51%

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Duke Energy Corporation (DUK)

(Real Time Quote from BATS)

$104.93 USD

+0.14 (0.13%)

Updated Aug 31, 2021 03:37 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
C Value | F Growth | B Momentum | C VGM

Industry Rank:
Bottom 22% (198 out of 253)

Industry: Utility - Electric Power

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Duke Energy Corporation (DUK) Quote Overview » Estimates » Duke Energy Corporation (DUK) Detailed Estimates

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Estimates

Next Report Date	11/4/21	Earnings ESP	-0.87%

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ABR 2.38 P/E (F1) 20.14

Growth Estimates	DUK	IND	S&P
Current Qtr (09/2021)	-2.67	5.07	186.03
Next Qtr (12/2021)	-2.91	6.56	57.67
Current Year (12/2021)	1.56	4.80	55.37
Next Year (12/2022)	5.19	11.10	13.08
Past 5 Years	2.20	3.10	2.80
Next 5 Years	5.30	7.50	NA
PE	20.14	15.00	23.82
PEG Ratio	3.81	2.00	NA

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See Earnings Report Transcript

Premium Research for DUK

Zacks Rank	▼ Hold 3
Zacks Industry Rank	Bottom 22% (198 out of 253)
Zacks Sector Rank	Bottom 6% (15 out of 16)
Style Scores	C Value | F Growth | B Momentum | C VGM
Earnings ESP	-0.87%
Research Reports for DUK	Analyst | Snapshot

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Research for DUK

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Chart for DUK

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Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	7.05B	6.17B	24.98B	25.91B
# of Estimates	2	2	3	3
High Estimate	7.13B	6.19B	25.19B	26.12B
Low Estimate	6.96B	6.16B	24.68B	25.66B
Year ago Sales	6.72B	5.78B	23.87B	24.98B
Year over Year Growth Est.	4.83%	6.88%	4.65%	3.74%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.82	1.00	5.20	5.47
# of Estimates	4	3	6	6
Most Recent Consensus	1.81	1.03	5.20	5.47
High Estimate	1.87	1.03	5.25	5.52
Low Estimate	1.79	0.98	5.16	5.45
Year ago EPS	1.87	1.03	5.12	5.20
Year over Year Growth Est.	-2.67%	-2.91%	1.56%	5.13%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	2	0	2	1
Up Last 60 Days	3	2	4	2
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	1	0	2
Down Last 60 Days	0	0	0	2

Magnitude - Consensus Estimate Trend

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30 Days Ago	1.81	1.01	5.19	5.47
60 Days Ago	1.80	0.99	5.17	5.48
90 Days Ago	1.80	0.99	5.17	5.46

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	1.81	1.03	5.19	5.48
Zacks Consensus Estimate	1.82	1.00	5.20	5.47
Earnings ESP	-0.87%	3.00%	-0.35%	0.24%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	1.15	1.26	1.03	1.87	NA
Estimate	1.12	1.24	1.02	1.79	NA
Difference	0.03	0.02	0.01	0.08	0.04
Surprise	2.68%	1.61%	0.98%	4.47%	2.44%

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Consolidated Edison Inc (ED)

(Real Time Quote from BATS)

$75.50 USD

-0.20 (-0.26%)

Updated Aug 31, 2021 03:33 PM ET

Add to portfo | Trades from $1

Zacks Rank:
4-Sell

Style Scores:
B Value | C Growth | B Momentum | B VGM

Industry Rank:
Bottom 22% (198 out of 253)

Industry: Utility - Electric Power

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Detailed Estimates

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Estimates

Next Report Date	11/4/21	Earnings ESP	0.00%

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ABR 4.04 P/E (F1) 17.99

Growth Estimates	ED	IND	S&P
Current Qtr (09/2021)	-1.35	5.07	186.03
Next Qtr (12/2021)	-5.33	6.56	57.67
Current Year (12/2021)	0.72	4.80	55.37
Next Year (12/2022)	7.60	11.10	13.08
Past 5 Years	1.10	3.10	2.80
Next 5 Years	2.00	7.50	NA
PE	17.99	15.00	23.82
PEG Ratio	9.00	2.00	NA

Learn More About Estimate Research

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Premium Research for ED

Zacks Rank	Sell 4
Zacks Industry Rank	Bottom 22% (198 out of 253)
Zacks Sector Rank	Bottom 6% (15 out of 16)
Style Scores	B Value | C Growth | B Momentum | B VGM
Earnings ESP	0.00%
Research Reports for ED	Analyst | Snapshot

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Research for ED

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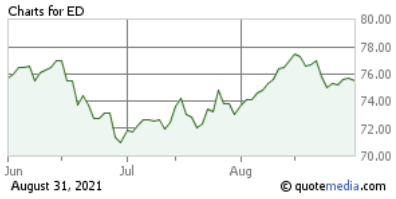

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Zacks Consensus Estimate	3.44B	2.99B	13.04B	13.43B
# of Estimates	2	2	3	3
High Estimate	3.47B	3.03B	13.08B	13.54B
Low Estimate	3.41B	2.96B	13.01B	13.32B
Year ago Sales	3.33B	2.96B	12.25B	13.04B
Year over Year Growth Est.	3.23%	1.08%	6.49%	3.01%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.46	0.71	4.21	4.53
# of Estimates	3	3	4	4
Most Recent Consensus	NA	NA	4.18	4.62
High Estimate	1.47	0.76	4.23	4.62
Low Estimate	1.45	0.65	4.18	4.45
Year ago EPS	1.48	0.75	4.18	4.21
Year over Year Growth Est.	-1.35%	-5.33%	0.72%	7.54%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	0	0
Up Last 60 Days	0	1	1	0
Down Last 7 Days	0	0	0	1
Down Last 30 Days	0	0	1	2
Down Last 60 Days	2	1	3	3

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	1.46	0.71	4.21	4.53
7 Days Ago	1.46	0.71	4.21	4.53
30 Days Ago	1.46	0.71	4.23	4.54
60 Days Ago	1.49	0.72	4.24	4.55
90 Days Ago	1.45	0.82	4.22	4.52

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	1.46	0.71	4.18	4.59
Zacks Consensus Estimate	1.46	0.71	4.21	4.53
Earnings ESP	0.00%	0.00%	-0.65%	1.33%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise

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Difference	-0.09	0.07	0.03	-0.03	-0.01
Surprise	-14.52%	5.15%	4.17%	-1.99%	-1.80%

Quarterly Estimates By Analyst

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Eversource Energy (ES)

(Real Time Quote from BATS)

$90.61 USD

-0.44 (-0.48%)

Updated Aug 31, 2021 03:41 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
C Value | F Growth | D Momentum | D VGM

Industry Rank:
Bottom 22% (198 out of 253)

Industry: Utility - Electric Power

View All Zacks #1 Ranked Stocks
Eversource Energy (ES) Quote Overview » Estimates » Eversource Energy (ES) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/2/21	Earnings ESP	0.19%
Current Quarter	1.05	Current Year	3.83
EPS Last Quarter	0.79	Next Year	4.08
Last EPS Surprise	-1.25%	EPS (TTM)	3.80
ABR	2.44	P/E (F1)	23.79

Growth Estimates	ES	IND	S&P
Current Qtr (09/2021)	3.96	5.07	186.03
Next Qtr (12/2021)	7.06	6.56	57.67
Current Year (12/2021)	5.22	4.80	55.37
Next Year (12/2022)	6.53	11.10	13.08
Past 5 Years	5.30	3.10	2.80
Next 5 Years	6.40	7.50	NA
PE	23.79	15.00	23.82
PEG Ratio	3.70	2.00	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for ES

Zacks Rank	▲ Hold 3
Zacks Industry Rank	Bottom 22% (198 out of 253)
Zacks Sector Rank	Bottom 6% (15 out of 16)
Style Scores	C Value | F Growth | D Momentum | D VGM
Earnings ESP	0.19%
Research Reports for ES	Analyst | Snapshot

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Research for ES

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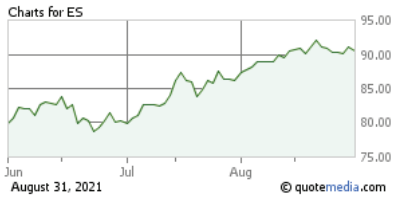
Chart for ES



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Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	2.57B	2.54B	9.97B	10.33B
# of Estimates	3	3	4	4
High Estimate	2.68B	2.70B	10.43B	11.01B
Low Estimate	2.43B	2.31B	9.60B	9.86B
Year ago Sales	2.34B	2.23B	8.90B	9.97B
Year over Year Growth Est.	9.58%	13.84%	11.94%	3.63%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.05	0.91	3.83	4.08
# of Estimates	5	4	7	7
Most Recent Consensus	NA	0.86	NA	4.10
High Estimate	1.11	0.97	3.85	4.11
Low Estimate	1.01	0.86	3.81	4.03
Year ago EPS	1.01	0.85	3.64	3.83
Year over Year Growth Est.	3.96%	7.06%	5.22%	6.60%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	0	0
Up Last 60 Days	0	3	0	1
Down Last 7 Days	0	0	0	1
Down Last 30 Days	0	0	0	1
Down Last 60 Days	2	0	2	2

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	1.05	0.91	3.83	4.08
7 Days Ago	1.05	0.91	3.83	4.08
30 Days Ago	1.05	0.91	3.84	4.09
60 Days Ago	1.07	0.88	3.85	4.09
90 Days Ago	1.07	0.88	3.85	4.10

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	1.05	0.91	3.83	4.10
Zacks Consensus Estimate	1.05	0.91	3.83	4.08
Earnings ESP	0.19%	0.00%	0.00%	0.49%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.79	1.15	0.85	1.01	NA
Estimate	0.80	1.10	0.85	1.02	NA
Difference	-0.01	0.05	0.00	-0.01	0.01
Surprise	-1.25%	4.55%	0.00%	-0.98%	0.58%

Quarterly Estimates By Analyst

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MGE Energy Inc. (MGEE)

(Real Time Quote from BATS)

$80.30 USD

-0.51 (-0.63%)

Updated Aug 31, 2021 03:51 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
D Value | F Growth | C Momentum | D VGM

Industry Rank:
Bottom 22% (198 out of 253)

Industry: Utility - Electric Power

View All Zacks #1 Ranked Stocks
MGE Energy Inc. (MGEE) Quote Overview » Estimates » MGE Energy Inc. (MGEE) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/4/21	Earnings ESP	0.00%
Current Quarter	0.92	Current Year	2.90
EPS Last Quarter	0.63	Next Year	3.12
Last EPS Surprise	1.61%	EPS (TTM)	2.92
ABR	3.50	P/E (F1)	27.91

Growth Estimates	MGEE	IND	S&P
Current Qtr (09/2021)	4.55	5.07	186.03
Next Qtr (12/2021)	15.91	6.56	57.67
Current Year (12/2021)	11.54	4.80	55.37
Next Year (12/2022)	7.59	11.10	13.08
Past 5 Years	3.50	3.10	2.80
Next 5 Years	5.60	7.50	NA
PE	27.91	15.00	23.82
PEG Ratio	5.01	2.00	NA

Learn More About Estimate Research

See Brokerage Recommendations

Premium Research for MGEE

Zacks Rank	▲ Hold 3
Zacks Industry Rank	Bottom 22% (198 out of 253)
Zacks Sector Rank	Bottom 6% (15 out of 16)
Style Scores	D Value | F Growth | C Momentum | D VGM
Earnings ESP	0.00%
Research Report for MGEE	Snapshot

(▲▼ = Change in last 30 days)

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Research for MGEE

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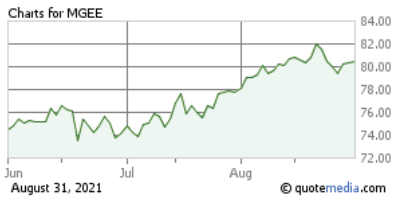
Chart for MGEE



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Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.00M	NA	570.74M	605.08M
# of Estimates	NA	NA	1	1
High Estimate	NA	NA	570.74M	605.08M
Low Estimate	NA	NA	570.74M	605.08M
Year ago Sales	135.21M	136.51M	538.63M	570.74M
Year over Year Growth Est.	NA	NA	5.96%	6.02%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.92	0.51	2.90	3.12
# of Estimates	1	1	2	2
Most Recent Consensus	NA	NA	NA	NA
High Estimate	0.92	0.51	2.94	3.32
Low Estimate	0.92	0.51	2.85	2.92
Year ago EPS	0.88	0.44	2.60	2.90
Year over Year Growth Est.	4.55%	15.91%	11.54%	7.76%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	0	0
Up Last 60 Days	0	0	1	0
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	1	1	1	1

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	0.92	0.51	2.90	3.12
7 Days Ago	0.92	0.51	2.90	3.12
30 Days Ago	0.92	0.51	2.90	3.12
60 Days Ago	0.97	0.56	2.87	3.18
90 Days Ago	0.97	0.56	2.87	3.18

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	0.92	0.51	2.90	3.12
Zacks Consensus Estimate	0.92	0.51	2.90	3.12
Earnings ESP	0.00%	0.00%	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.63	0.97	0.44	0.88	NA
Estimate	0.62	0.81	0.51	0.89	NA
Difference	0.01	0.16	-0.07	-0.01	0.02
Surprise	1.61%	19.75%	-13.73%	-1.12%	1.63%

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NorthWestern Corporation (NWE)

(Real Time Quote from BATS)

$63.61 USD

-0.03 (-0.05%)

Updated Aug 31, 2021 03:51 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
C Value | F Growth | C Momentum | D VGM

Industry Rank:
Bottom 22% (198 out of 253)

Industry: Utility - Electric Power

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NorthWestern Corporation (NWE) Quote Overview » Estimates » NorthWestern Corporation (NWE) Detailed Estimates

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Estimates

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ABR	1.80	P/E (F1)	17.68

Growth Estimates	NWE	IND	S&P
Current Qtr (09/2021)	-1.69	5.07	186.03
Next Qtr (12/2021)	-1.55	6.56	57.67
Current Year (12/2021)	7.46	4.80	55.37
Next Year (12/2022)	2.22	11.10	13.08
Past 5 Years	1.90	3.10	2.80
Next 5 Years	4.80	7.50	NA
PE	17.68	15.00	23.82
PEG Ratio	3.69	2.00	NA

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Premium Research for NWE

Zacks Rank	**Hold** 3
Zacks Industry Rank	Bottom 22% (198 out of 253)
Zacks Sector Rank	Bottom 6% (15 out of 16)
Style Scores	**C Value | F Growth | C Momentum | D VGM**
Earnings ESP	0.00%
Research Report for NWE	Snapshot

(▲▼ = Change in last 30 days)

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Chart for NWE

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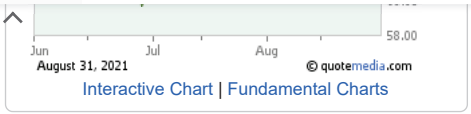

Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	288.70M	357.50M	1.35B	1.38B
# of Estimates	1	1	1	1
High Estimate	288.70M	357.50M	1.35B	1.38B
Low Estimate	288.70M	357.50M	1.35B	1.38B
Year ago Sales	280.61M	313.45M	1.20B	1.35B
Year over Year Growth Est.	2.88%	14.05%	12.24%	2.39%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.58	1.27	3.60	3.68
# of Estimates	1	1	2	2
Most Recent Consensus	NA	1.27	3.68	3.65
High Estimate	0.58	1.27	3.68	3.71
Low Estimate	0.58	1.27	3.52	3.65
Year ago EPS	0.59	1.29	3.35	3.60
Year over Year Growth Est.	-1.69%	-1.55%	7.46%	2.22%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	1	1	1
Up Last 60 Days	1	0	2	1
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	0	1	0	1

Magnitude - Consensus Estimate Trend

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30 Days Ago	0.58	1.26	3.54	3.68
60 Days Ago	0.56	1.28	3.52	3.70
90 Days Ago	0.56	1.28	3.52	3.70

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	0.58	1.27	3.68	3.65
Zacks Consensus Estimate	0.58	1.27	3.60	3.68
Earnings ESP	0.00%	0.00%	2.22%	-0.82%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.72	1.26	1.29	0.59	NA
Estimate	0.47	1.19	1.35	NA	NA
Difference	0.25	0.07	-0.06	NA	0.09
Surprise	53.19%	5.88%	-4.44%	NA	18.21%

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Public Service Enterprise Group Incorporated (PEG)

(Real Time Quote from BATS)

$63.91 USD

-0.33 (-0.51%)

Updated Aug 31, 2021 03:55 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
C Value | F Growth | C Momentum | D VGM

Industry Rank:
Bottom 22% (198 out of 253)

Industry: Utility - Electric Power

View All Zacks #1 Ranked Stocks

Public Service Enterprise Group Incorporated (PEG) Quote Overview » Estimates » Public Service Enterprise Group Incorporated (PEG) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/29/21	Earnings ESP	-8.85%

ABR	1.29	P/E (F1)	18.16

Growth Estimates	PEG	IND	S&P
Current Qtr (09/2021)	-9.38	5.07	186.03
Next Qtr (12/2021)	3.08	6.56	57.67
Current Year (12/2021)	3.21	4.80	55.37
Next Year (12/2022)	-2.26	11.10	13.08
Past 5 Years	3.70	3.10	2.80
Next 5 Years	3.50	7.50	NA
PE	18.16	15.00	23.82
PEG Ratio	5.17	2.00	NA

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Premium Research for PEG

Zacks Rank	**Hold 3**
Zacks Industry Rank	Bottom 22% (198 out of 253)
Zacks Sector Rank	Bottom 6% (15 out of 16)
Style Scores	**C Value | F Growth | C Momentum | D VGM**
Earnings ESP	-8.85%
Research Reports for PEG	Analyst | Snapshot

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Research for PEG

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Chart for PEG

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Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	2.63B	2.65B	10.04B	9.22B
# of Estimates	2	2	3	3
High Estimate	2.72B	2.69B	10.45B	10.89B
Low Estimate	2.54B	2.62B	9.58B	8.07B
Year ago Sales	2.37B	2.40B	9.60B	10.04B
Year over Year Growth Est.	10.99%	10.43%	4.57%	-8.20%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.87	0.67	3.54	3.46
# of Estimates	3	3	5	5
Most Recent Consensus	0.96	0.61	3.58	3.50
High Estimate	0.96	0.73	3.61	3.57
Low Estimate	0.79	0.61	3.50	3.35
Year ago EPS	0.96	0.65	3.43	3.54
Year over Year Growth Est.	-9.38%	3.08%	3.21%	-2.15%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	2	3	3
Up Last 60 Days	1	0	4	2
Down Last 7 Days	0	0	0	0
Down Last 30 Days	1	0	1	0
Down Last 60 Days	1	2	1	1

Magnitude - Consensus Estimate Trend

7 Days Ago	0.87	0.67	3.54	3.46
30 Days Ago	0.87	0.66	3.51	3.42
60 Days Ago	0.86	0.70	3.47	3.44
90 Days Ago	0.87	0.70	3.47	3.49

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	0.79	0.67	3.55	3.51
Zacks Consensus Estimate	0.87	0.67	3.54	3.46
Earnings ESP	-8.85%	0.50%	0.20%	1.48%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.70	1.28	0.65	0.96	NA
Estimate	0.70	1.13	0.66	0.95	NA
Difference	0.00	0.15	-0.01	0.01	0.04
Surprise	0.00%	13.27%	-1.52%	1.05%	3.20%

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Southern Company The (SO)

(Real Time Quote from BATS)

$65.75 USD

0.00 (0.00%)

Updated Aug 31, 2021 03:58 PM ET

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Zacks Rank:
3-Hold

Style Scores:
C Value | D Growth | C Momentum | C VGM

Industry Rank:
Bottom 22% (198 out of 253)

Industry: Utility - Electric Power

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Southern Company The (SO) Quote Overview » Estimates » Southern Company The (SO) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/4/21	Earnings ESP	-3.60%
Current Quarter	1.20	Current Year	3.35
EPS Last Quarter	0.84	Next Year	3.56
Last EPS Surprise	6.33%	EPS (TTM)	3.51
ABR	2.64	P/E (F1)	19.64

Growth Estimates	SO	IND	S&P
Current Qtr (09/2021)	-1.64	5.07	186.03
Next Qtr (12/2021)	-23.40	6.56	57.67
Current Year (12/2021)	3.08	4.80	55.37
Next Year (12/2022)	6.27	11.10	13.08
Past 5 Years	2.60	3.10	2.80
Next 5 Years	4.90	7.50	NA
PE	19.64	15.00	23.82
PEG Ratio	3.98	2.00	NA

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Premium Research for SO

Zacks Rank	**Hold 3**
Zacks Industry Rank	Bottom 22% (198 out of 253)
Zacks Sector Rank	Bottom 6% (15 out of 16)
Style Scores	**C Value | D Growth | C Momentum | C VGM**
Earnings ESP	-3.60%
Research Reports for SO	Analyst | Snapshot

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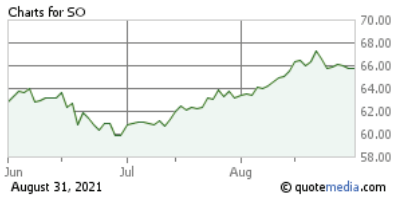

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Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	5.87B	5.29B	22.17B	23.05B
# of Estimates	2	2	3	3
High Estimate	5.90B	5.49B	22.43B	23.59B
Low Estimate	5.83B	5.10B	21.83B	22.49B
Year ago Sales	5.62B	5.12B	20.38B	22.17B
Year over Year Growth Est.	4.37%	3.46%	8.80%	3.99%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.20	0.36	3.35	3.56
# of Estimates	3	3	6	6
Most Recent Consensus	1.16	0.42	3.41	NA
High Estimate	1.25	0.42	3.41	3.63
Low Estimate	1.16	0.29	3.30	3.50
Year ago EPS	1.22	0.47	3.25	3.35
Year over Year Growth Est.	-1.64%	-23.40%	3.08%	6.32%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	2	0
Up Last 60 Days	0	0	3	1
Down Last 7 Days	0	0	0	0
Down Last 30 Days	1	1	0	1
Down Last 60 Days	2	2	0	2

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	1.20	0.36	3.35	3.56
7 Days Ago	1.20	0.36	3.35	3.56
30 Days Ago	1.21	0.37	3.34	3.57
60 Days Ago	1.24	0.39	3.33	3.57
90 Days Ago	1.25	0.39	3.33	3.57

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	1.16	0.42	3.39	3.55
Zacks Consensus Estimate	1.20	0.36	3.35	3.56
Earnings ESP	-3.60%	16.67%	1.25%	-0.28%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.84	0.98	0.47	1.22	NA
Estimate	0.79	0.85	0.43	1.24	NA
Difference	0.05	0.13	0.04	-0.02	0.05
Surprise	6.33%	15.29%	9.30%	-1.61%	7.33%

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WEC Energy Group, Inc. (WEC)

(Real Time Quote from BATS)

$94.41 USD

-0.61 (-0.64%)

Updated Aug 31, 2021 03:58 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
C Value | D Growth | C Momentum | D VGM

Industry Rank:
Bottom 22% (198 out of 253)

Industry: Utility - Electric Power

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Detailed Estimates

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Estimates

Next Report Date	*BMO 11/2/21	Earnings ESP	-3.75%

ABR	2.38	P/E (F1)	23.42

*BMO = Before Market Open *AMC = After Market Close

Growth Estimates	WEC	IND	S&P
Current Qtr (09/2021)	-4.76	5.07	186.03
Next Qtr (12/2021)	2.63	6.56	57.67
Current Year (12/2021)	7.12	4.80	55.37
Next Year (12/2022)	6.16	11.10	13.08
Past 5 Years	6.30	3.10	2.80
Next 5 Years	6.30	7.50	NA
PE	23.42	15.00	23.82
PEG Ratio	3.74	2.00	NA

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Premium Research for WEC

Zacks Rank	Hold 3
Zacks Industry Rank	Bottom 22% (198 out of 253)
Zacks Sector Rank	Bottom 6% (15 out of 16)
Style Scores	C Value | D Growth | C Momentum | D VGM
Earnings ESP	-3.75%
Research Reports for WEC	Analyst | Snapshot

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Research for WEC

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The Music Hall Irving Berlin's

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Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.69B	1.99B	8.03B	8.19B
# of Estimates	2	2	2	2
High Estimate	1.73B	2.00B	8.04B	8.29B
Low Estimate	1.64B	1.99B	8.01B	8.10B
Year ago Sales	1.65B	1.93B	7.24B	8.03B
Year over Year Growth Est.	2.18%	3.15%	10.82%	2.06%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.80	0.78	4.06	4.31
# of Estimates	3	2	4	4
Most Recent Consensus	0.80	NA	4.07	4.30
High Estimate	0.86	0.78	4.07	4.34
Low Estimate	0.74	0.78	4.05	4.29
Year ago EPS	0.84	0.76	3.79	4.06
Year over Year Growth Est.	-4.76%	2.63%	7.12%	6.16%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	3	2
Up Last 60 Days	0	0	3	3
Down Last 7 Days	0	0	0	0
Down Last 30 Days	1	0	0	0
Down Last 60 Days	1	2	1	0

Magnitude - Consensus Estimate Trend

The Music Hall Irving Berlin's

30 Days Ago	0.86	0.78	4.04	4.29
60 Days Ago	0.85	0.80	4.05	4.26
90 Days Ago	0.89	0.89	4.03	4.28

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	0.77	0.78	4.06	4.30
Zacks Consensus Estimate	0.80	0.78	4.06	4.31
Earnings ESP	-3.75%	0.00%	-0.02%	-0.29%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.87	1.61	0.76	0.84	NA
Estimate	0.79	1.47	0.74	0.76	NA
Difference	0.08	0.14	0.02	0.08	0.08
Surprise	10.13%	9.52%	2.70%	10.53%	8.22%

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Xcel Energy Inc. (XEL)

(Real Time Quote from BATS)

$68.76 USD

-0.27 (-0.39%)

Updated Aug 31, 2021 03:43 PM ET

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Zacks Rank:
3-Hold

Style Scores:
C Value | F Growth | B Momentum | D VGM

Industry Rank:
Bottom 22% (198 out of 253)

Industry: Utility - Electric Power

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Xcel Energy Inc. (XEL) Quote Overview » Estimates » Xcel Energy Inc. (XEL) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/4/21	Earnings ESP	-0.42%
Current Quarter	1.20	Current Year	2.98
EPS Last Quarter	0.58	Next Year	3.17
Last EPS Surprise	3.57%	EPS (TTM)	2.93
ABR	2.61	P/E (F1)	23.13

Growth Estimates	XEL	IND	S&P
Current Qtr (09/2021)	5.26	5.07	186.03
Next Qtr (12/2021)	3.70	6.56	57.67
Current Year (12/2021)	6.81	4.80	55.37
Next Year (12/2022)	6.38	11.10	13.08
Past 5 Years	5.70	3.10	2.80
Next 5 Years	6.10	7.50	NA
PE	23.13	15.00	23.82
PEG Ratio	3.77	2.00	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for XEL

Zacks Rank	**Hold 3**
Zacks Industry Rank	Bottom 22% (198 out of 253)
Zacks Sector Rank	Bottom 6% (15 out of 16)
Style Scores	**C Value | F Growth | B Momentum | D VGM**
Earnings ESP	-0.42%
Research Reports for XEL	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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Research for XEL

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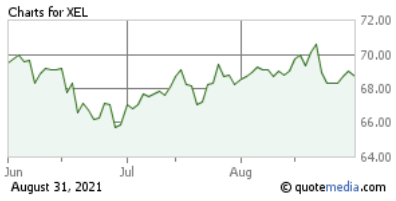
Chart for XEL



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	3.30B	3.15B	12.99B	13.05B
# of Estimates	2	2	3	3
High Estimate	3.42B	3.26B	13.29B	13.39B
Low Estimate	3.18B	3.05B	12.83B	12.51B
Year ago Sales	3.18B	2.95B	11.53B	12.99B
Year over Year Growth Est.	3.68%	7.00%	12.66%	0.46%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.20	0.56	2.98	3.17
# of Estimates	4	3	5	5
Most Recent Consensus	1.18	0.56	3.01	3.18
High Estimate	1.21	0.56	3.01	3.19
Low Estimate	1.18	0.55	2.95	3.15
Year ago EPS	1.14	0.54	2.79	2.98
Year over Year Growth Est.	5.26%	3.70%	6.81%	6.31%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	1	0	1	1
Up Last 60 Days	0	0	2	1
Down Last 7 Days	0	0	0	0
Down Last 30 Days	1	1	0	0
Down Last 60 Days	3	3	1	1

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	1.20	0.56	2.98	3.17
7 Days Ago	1.20	0.56	2.98	3.17
30 Days Ago	1.20	0.56	2.97	3.17
60 Days Ago	1.23	0.59	2.99	3.17
90 Days Ago	1.24	0.60	2.98	3.17

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	1.19	0.56	3.01	3.18
Zacks Consensus Estimate	1.20	0.56	2.98	3.17
Earnings ESP	-0.42%	0.60%	0.87%	0.25%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.58	0.67	0.54	1.14	NA
Estimate	0.56	0.61	0.54	1.08	NA
Difference	0.02	0.06	0.00	0.06	0.04
Surprise	3.57%	9.84%	0.00%	5.56%	4.74%

Quarterly Estimates By Analyst

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Detailed Estimates

Abbott Laboratories (ABT)
(Real Time Quote from BATS)

$127.00 USD

+1.06 (0.84%)

Updated Aug 31, 2021 10:11 AM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
C Value | A Growth | C Momentum | B VGM

Industry Rank:
Bottom 17% (211 out of 253)

Industry: Medical - Products

View All Zacks #1 Ranked Stocks
Abbott Laboratories (ABT) Quote Overview » Estimates » Abbott Laboratories (ABT) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/20/21	Earnings ESP	0.00%
Current Quarter	0.92	Current Year	4.42
EPS Last Quarter	1.17	Next Year	4.66
Last EPS Surprise	15.84%	EPS (TTM)	4.92
ABR	1.33	P/E (F1)	28.52

Growth Estimates	ABT	IND	S&P
Current Qtr (09/2021)	-6.12	36.60	186.03
Next Qtr (12/2021)	-30.34	60.27	57.67
Current Year (12/2021)	21.10	15.90	55.37
Next Year (12/2022)	5.43	18.40	13.08
Past 5 Years	10.50	5.80	2.80
Next 5 Years	11.90	15.80	NA
PE	28.52	108.50	23.82
PEG Ratio	2.40	6.87	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for ABT

Zacks Rank	▲ Hold 3
Zacks Industry Rank	Bottom 17% (211 out of 253)
Zacks Sector Rank	Bottom 0% (16 out of 16)
Style Scores	C Value | A Growth | C Momentum | B VGM
Earnings ESP	0.00%
Research Reports for ABT	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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Research for ABT

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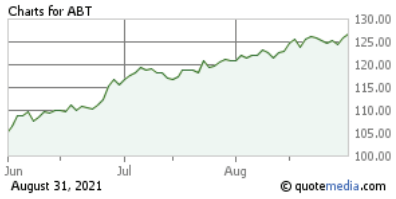
Chart for ABT



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	9.43B	9.67B	39.80B	39.20B
# of Estimates	6	6	7	7
High Estimate	9.54B	9.86B	40.08B	39.95B
Low Estimate	9.31B	9.50B	39.53B	38.26B
Year ago Sales	8.85B	10.70B	34.61B	39.80B
Year over Year Growth Est.	6.54%	-9.59%	14.99%	-1.49%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.92	1.01	4.42	4.66
# of Estimates	9	7	10	10
Most Recent Consensus	0.90	0.97	4.38	4.55
High Estimate	0.94	1.05	4.46	4.74
Low Estimate	0.90	0.97	4.35	4.55
Year ago EPS	0.98	1.45	3.65	4.42
Year over Year Growth Est.	-6.12%	-30.34%	21.10%	5.52%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	0	0
Up Last 60 Days	0	1	9	6
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	7	5	0	3

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	0.92	1.01	4.42	4.66
7 Days Ago	0.92	1.01	4.42	4.66
30 Days Ago	0.92	1.01	4.42	4.66
60 Days Ago	0.97	1.05	4.35	4.66
90 Days Ago	1.08	1.15	4.63	5.04

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	0.92	1.01	4.42	4.66
Zacks Consensus Estimate	0.92	1.01	4.42	4.66
Earnings ESP	0.00%	0.00%	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	1.17	1.32	1.45	0.98	NA

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Estimate	1.01	1.33	1.36	0.90	NA
Difference	0.16	-0.01	0.09	0.08	0.08
Surprise	15.84%	-0.75%	6.62%	8.89%	7.65%

Quarterly Estimates By Analyst

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Analog Devices, Inc. (ADI)
(Real Time Quote from BATS)

$161.95 USD

-5.03 (-3.01%)

Updated Aug 31, 2021 10:13 AM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
C Value | D Growth | B Momentum | C VGM

Industry Rank:
Top 14% (36 out of 253)

Industry: Semiconductor - Analog and Mixed

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Analog Devices, Inc. (ADI) Quote Overview » Estimates » Analog Devices, Inc. (ADI) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/23/21	Earnings ESP	0.00%
Current Quarter	1.42	Current Year	6.09
EPS Last Quarter	1.72	Next Year	7.19
Last EPS Surprise	6.83%	EPS (TTM)	6.14
ABR	1.47	P/E (F1)	27.42

Growth Estimates	ADI	IND	S&P
Current Qtr (10/2021)	-1.39	204.26	186.03
Next Qtr (01/2022)	17.36	131.64	57.67
Current Year (10/2021)	24.03	33.40	55.37
Next Year (10/2022)	18.06	14.20	13.08
Past 5 Years	11.20	-2.30	2.80
Next 5 Years	12.30	24.30	NA
PE	27.42	83.20	23.82
PEG Ratio	2.24	3.42	NA

Learn More About Estimate Research

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Premium Research for ADI

Zacks Rank	Hold 3
Zacks Industry Rank	Top 14% (36 out of 253)
Zacks Sector Rank	Bottom 25% (12 out of 16)
Style Scores	C Value | D Growth | B Momentum | C VGM
Earnings ESP	0.00%
Research Reports for ADI	Analyst | Snapshot

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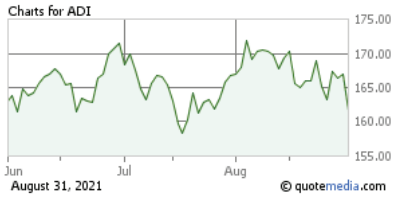
Chart for ADI



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (10/2021)	Next Qtr (1/2022)	Current Year (10/2021)	Next Year (10/2022)
Zacks Consensus Estimate	1.90B	1.97B	6.87B	7.98B
# of Estimates	8	7	9	9
High Estimate	2.27B	2.49B	7.24B	10.29B
Low Estimate	1.78B	1.74B	6.76B	7.24B
Year ago Sales	1.53B	1.56B	5.60B	6.87B
Year over Year Growth Est.	24.67%	26.64%	22.57%	16.22%

Earnings Estimates

	Current Qtr (10/2021)	Next Qtr (1/2022)	Current Year (10/2021)	Next Year (10/2022)
Zacks Consensus Estimate	1.42	1.69	6.09	7.19
# of Estimates	3	2	3	3
Most Recent Consensus	1.72	1.70	6.42	7.31
High Estimate	1.69	1.75	6.42	7.31
Low Estimate	0.99	1.63	5.58	7.12
Year ago EPS	1.44	1.44	4.91	6.09
Year over Year Growth Est.	-1.39%	17.36%	24.03%	18.06%

Agreement - Estimate Revisions

	Current Qtr (10/2021)	Next Qtr (1/2022)	Current Year (10/2021)	Next Year (10/2022)
Up Last 7 Days	0	0	0	1
Up Last 30 Days	1	2	1	3
Up Last 60 Days	1	2	2	3
Down Last 7 Days	3	2	2	1
Down Last 30 Days	1	0	2	0
Down Last 60 Days	1	0	1	0

Magnitude - Consensus Estimate Trend

	Current Qtr (10/2021)	Next Qtr (1/2022)	Current Year (10/2021)	Next Year (10/2022)
Current	1.42	1.69	6.09	7.19
7 Days Ago	1.73	1.71	6.43	7.21
30 Days Ago	1.70	1.66	6.28	6.99
60 Days Ago	1.66	1.63	6.26	6.90
90 Days Ago	1.68	1.65	6.24	6.75

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (10/2021)	Next Qtr (1/2022)	Current Year (10/2021)	Next Year (10/2022)
Most Accurate Estimate	1.42	1.69	6.09	7.19
Zacks Consensus Estimate	1.42	1.69	6.09	7.19
Earnings ESP	0.00%	0.00%	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (7/2021)	Quarter Ending (4/2021)	Quarter Ending (1/2021)	Quarter Ending (10/2020)	Average Surprise
Reported	1.72	1.54	1.44	1.44	NA

	Quarter Ending (7/2021)	Quarter Ending (4/2021)	Quarter Ending (1/2021)	Quarter Ending (10/2020)	Average Surprise
Estimate	1.61	1.45	1.32	1.32	NA
Difference	0.11	0.09	0.12	0.12	0.11
Surprise	6.83%	6.21%	9.09%	9.09%	7.81%

Quarterly Estimates By Analyst

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Assurant, Inc. (AIZ)

(Real Time Quote from BATS)

$169.42 USD

+0.81 (0.48%)

Updated Aug 31, 2021 10:27 AM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
A Value | C Growth | B Momentum | B VGM

Industry Rank:
Bottom 11% (224 out of 253)

Industry: Insurance - Multi line

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Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/1/21	Earnings ESP	0.00%
Current Quarter	2.09	Current Year	9.93
EPS Last Quarter	2.99	Next Year	12.16
Last EPS Surprise	20.08%	EPS (TTM)	8.69
ABR	1.13	P/E (F1)	16.99

Growth Estimates	AIZ	IND	S&P
Current Qtr (09/2021)	48.23	-48.14	186.03
Next Qtr (12/2021)	31.87	-56.39	57.67
Current Year (12/2021)	15.06	15.10	55.37
Next Year (12/2022)	22.46	13.80	13.08
Past 5 Years	8.70	7.50	2.80
Next 5 Years	17.90	13.30	NA
PE	16.99	19.10	23.82
PEG Ratio	0.95	1.44	NA

Learn More About Estimate Research

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Premium Research for AIZ

Zacks Rank	**Hold 3**
Zacks Industry Rank	Bottom 11% (224 out of 253)
Zacks Sector Rank	Top 25% (4 out of 16)
Style Scores	**A Value | C Growth | B Momentum | B VGM**
Earnings ESP	0.00%
Research Reports for AIZ	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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Research for AIZ

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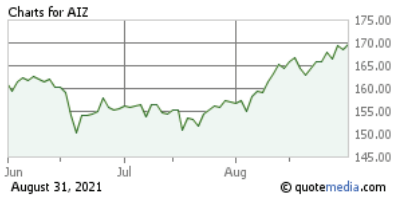
Chart for AIZ



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	2.48B	2.52B	9.99B	10.57B
# of Estimates	2	2	3	3
High Estimate	2.50B	2.53B	10.02B	10.72B
Low Estimate	2.46B	2.51B	9.94B	10.36B
Year ago Sales	2.48B	2.51B	10.10B	9.99B
Year over Year Growth Est.	-0.07%	0.22%	-1.13%	5.87%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	2.09	2.40	9.93	12.16
# of Estimates	4	3	4	4
Most Recent Consensus	2.10	2.46	10.20	12.25
High Estimate	2.29	2.52	10.20	12.28
Low Estimate	1.91	2.27	9.80	12.00
Year ago EPS	1.41	1.82	8.63	9.93
Year over Year Growth Est.	48.23%	31.87%	15.06%	22.49%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	1	3	2
Up Last 60 Days	0	0	3	2
Down Last 7 Days	0	0	0	0
Down Last 30 Days	3	2	0	1
Down Last 60 Days	2	2	0	1

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	2.09	2.40	9.93	12.16
7 Days Ago	2.09	2.40	9.93	12.16
30 Days Ago	2.33	2.56	9.79	12.13
60 Days Ago	2.43	2.69	9.74	12.12
90 Days Ago	2.43	2.69	9.74	12.10

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	2.09	2.40	9.97	12.21
Zacks Consensus Estimate	2.09	2.40	9.93	12.16
Earnings ESP	0.00%	0.00%	0.42%	0.43%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	2.99	2.47	1.82	1.41	NA
Estimate	2.49	1.96	2.08	0.94	NA
Difference	0.50	0.51	-0.26	0.47	0.31
Surprise	20.08%	26.02%	-12.50%	50.00%	20.90%

Quarterly Estimates By Analyst

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A. O. Smith Corporation (AOS)

(Real Time Quote from BATS)

$72.68 USD

-0.26 (-0.36%)

Updated Aug 31, 2021 02:38 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
C Value | B Growth | D Momentum | B VGM

Industry Rank:
Top 38% (95 out of 253)

Industry: Manufacturing - Electronics

View All Zacks #1 Ranked Stocks

A. O. Smith Corporation (AOS) Quote Overview » Estimates » A. O. Smith Corporation (AOS) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/4/21	Earnings ESP	-5.29%

McAfee VPN - 1 Year Subscription - 5 D
$34.99 $47.99

ABR	2.50	P/E (F1)	26.58

Growth Estimates	AOS	IND	S&P
Current Qtr (09/2021)	3.03	44.86	186.03
Next Qtr (12/2021)	1.35	-13.46	57.67
Current Year (12/2021)	26.85	21.40	55.37
Next Year (12/2022)	17.88	17.20	13.08
Past 5 Years	6.90	3.90	2.80
Next 5 Years	9.00	14.90	NA
PE	26.58	16.40	23.82
PEG Ratio	2.95	1.10	NA

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See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for AOS

Zacks Rank	▼ Hold 3
Zacks Industry Rank	Top 38% (95 out of 253)
Zacks Sector Rank	Top 38% (6 out of 16)
Style Scores	C Value | B Growth | D Momentum | B VGM
Earnings ESP	-5.29%
Research Reports for AOS	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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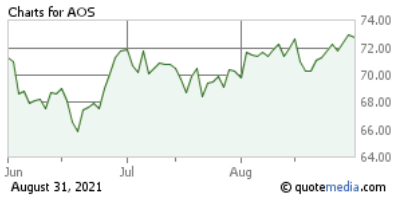
Research for AOS

Chart for AOS



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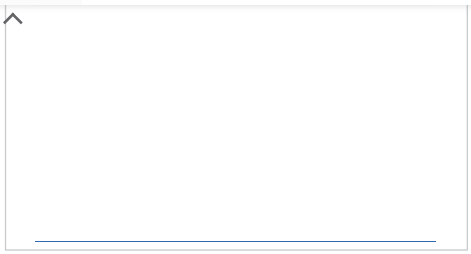

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	845.90M	935.58M	3.41B	3.71B
# of Estimates	5	5	5	5
High Estimate	864.10M	947.00M	3.43B	3.88B
Low Estimate	818.10M	916.30M	3.38B	3.59B
Year ago Sales	760.00M	834.50M	2.90B	3.41B
Year over Year Growth Est.	11.30%	12.11%	17.78%	8.90%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.68	0.75	2.74	3.23
# of Estimates	7	6	8	8
Most Recent Consensus	0.64	0.76	2.76	3.23
High Estimate	0.71	0.79	2.78	3.57
Low Estimate	0.64	0.72	2.65	3.00
Year ago EPS	0.66	0.74	2.16	2.74
Year over Year Growth Est.	3.03%	1.35%	26.85%	17.70%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	1	1
Up Last 60 Days	1	1	6	7
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	4	4	1	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	0.68	0.75	2.74	3.23
7 Days Ago	0.68	0.75	2.74	3.23
30 Days Ago	0.68	0.75	2.73	3.21
60 Days Ago	0.70	0.75	2.69	3.10
90 Days Ago	0.69	0.75	2.67	3.06

McAfee VPN - 1 Year Subscription - 5 D
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Most Accurate Estimate	0.64	0.75	2.76	3.23
Zacks Consensus Estimate	0.68	0.75	2.74	3.23
Earnings ESP	-5.29%	0.00%	0.59%	0.04%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.73	0.60	0.74	0.66	NA
Estimate	0.65	0.56	0.59	0.53	NA
Difference	0.08	0.04	0.15	0.13	0.10
Surprise	12.31%	7.14%	25.42%	24.53%	17.35%

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Detailed Estimates

Becton, Dickinson and Company (BDX)

(Real Time Quote from BATS)

$251.64 USD

+1.17 (0.47%)

Updated Aug 31, 2021 10:38 AM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
B Value | C Growth | B Momentum | B VGM

Industry Rank:
Top 34% (86 out of 253)

Industry: Medical - Dental Supplies

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Becton, Dickinson and Company (BDX) Quote Overview » Estimates » Becton, Dickinson and Company (BDX) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/4/21	Earnings ESP	0.00%
Current Quarter	2.42	Current Year	12.90
EPS Last Quarter	2.74	Next Year	12.34
Last EPS Surprise	11.38%	EPS (TTM)	13.27

ABR	2.00	P/E (F1)	19.42

Growth Estimates	BDX	IND	S&P
Current Qtr (09/2021)	-13.26	212.04	186.03
Next Qtr (12/2021)	-36.26	795.78	57.67
Current Year (09/2021)	26.47	23.80	55.37
Next Year (09/2022)	-4.34	13.50	13.08
Past 5 Years	6.60	11.10	2.80
Next 5 Years	8.30	14.00	NA
PE	19.42	35.60	23.82
PEG Ratio	2.35	2.54	NA

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Premium Research for BDX

Zacks Rank	▲ Hold 3
Zacks Industry Rank	Top 34% (86 out of 253)
Zacks Sector Rank	Bottom 0% (16 out of 16)
Style Scores	B Value | C Growth | B Momentum | B VGM
Earnings ESP	0.00%
Research Reports for BDX	Analyst | Snapshot

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Research for BDX

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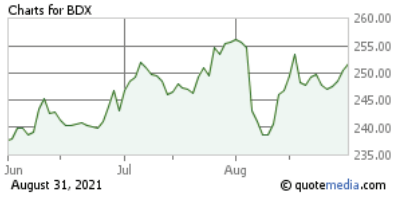
Chart for BDX



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (9/2021)	Next Year (9/2022)
Zacks Consensus Estimate	4.90B	4.67B	20.01B	19.48B
# of Estimates	7	3	8	8
High Estimate	5.05B	4.80B	20.16B	19.94B
Low Estimate	4.85B	4.58B	19.97B	19.10B
Year ago Sales	4.78B	5.32B	17.12B	20.01B
Year over Year Growth Est.	2.34%	-12.11%	16.91%	-2.64%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (9/2021)	Next Year (9/2022)
Zacks Consensus Estimate	2.42	2.90	12.90	12.34
# of Estimates	10	4	11	11
Most Recent Consensus	2.41	2.90	12.90	12.10
High Estimate	2.46	3.05	12.94	13.00
Low Estimate	2.38	2.75	12.85	12.00
Year ago EPS	2.79	4.55	10.20	12.90
Year over Year Growth Est.	-13.26%	-36.26%	26.47%	-4.33%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (9/2021)	Next Year (9/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	1	0	11	0
Up Last 60 Days	1	0	11	0
Down Last 7 Days	0	0	0	0
Down Last 30 Days	7	4	0	11
Down Last 60 Days	7	4	0	11

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (9/2021)	Next Year (9/2022)
Current	2.42	2.90	12.90	12.34
7 Days Ago	2.42	2.90	12.90	12.34
30 Days Ago	2.60	3.23	12.81	13.06
60 Days Ago	2.61	3.23	12.81	13.08
90 Days Ago	2.61	3.23	12.81	13.10

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (9/2021)	Next Year (9/2022)
Most Accurate Estimate	2.42	2.90	12.90	12.34
Zacks Consensus Estimate	2.42	2.90	12.90	12.34
Earnings ESP	0.00%	0.00%	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	2.74	3.19	4.55	2.79	NA
Estimate	2.46	3.04	3.14	2.50	NA
Difference	0.28	0.15	1.41	0.29	0.53
Surprise	11.38%	4.93%	44.90%	11.60%	18.20%

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BrownForman Corporation (BF.B)

(Real Time Quote from BATS)

$70.20 USD

-0.20 (-0.28%)

Updated Aug 31, 2021 10:43 AM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
D Value | D Growth | C Momentum | D VGM

Industry Rank:
Bottom 16% (212 out of 253)

Industry: Beverages - Alcohol

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BrownForman Corporation (BF.B) Quote Overview » Estimates » BrownForman Corporation (BF.B) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	9/1/21	Earnings ESP	-7.04%
Current Quarter	0.40	Current Year	1.77
EPS Last Quarter	0.25	Next Year	1.96
Last EPS Surprise	-16.67%	EPS (TTM)	1.60

ABR	2.78	P/E (F1)	39.68

Growth Estimates	BF.B	IND	S&P
Current Qtr (07/2021)	0.00	70.12	186.03
Next Qtr (10/2021)	12.00	12.25	57.67
Current Year (04/2022)	9.94	23.80	55.37
Next Year (04/2023)	10.73	12.50	13.08
Past 5 Years	3.50	1.20	2.80
Next 5 Years	NA	12.50	NA
PE	39.68	28.30	23.82
PEG Ratio	NA	2.26	NA

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Premium Research for BF.B

Zacks Rank	▲ Hold 3
Zacks Industry Rank	Bottom 16% (212 out of 253)
Zacks Sector Rank	Bottom 31% (11 out of 16)
Style Scores	D Value | D Growth | C Momentum | D VGM
Earnings ESP	-7.04%
Research Reports for BF.B	Analyst | Snapshot

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Research for BF.B

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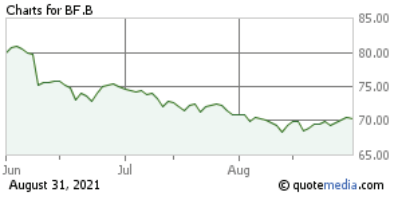
Chart for BF.B



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (7/2021)	Next Qtr (10/2021)	Current Year (4/2022)	Next Year (4/2023)
Zacks Consensus Estimate	852.34M	1.09B	3.77B	3.98B
# of Estimates	3	3	4	4
High Estimate	880.20M	1.13B	3.88B	4.08B
Low Estimate	818.41M	1.06B	3.71B	3.90B
Year ago Sales	753.00M	985.00M	3.46B	3.77B
Year over Year Growth Est.	13.19%	10.39%	8.92%	5.58%

Earnings Estimates

	Current Qtr (7/2021)	Next Qtr (10/2021)	Current Year (4/2022)	Next Year (4/2023)
Zacks Consensus Estimate	0.40	0.56	1.77	1.96
# of Estimates	5	4	5	4
Most Recent Consensus	0.41	0.56	1.77	1.97
High Estimate	0.44	0.58	1.82	2.06
Low Estimate	0.37	0.52	1.72	1.89
Year ago EPS	0.40	0.50	1.61	1.77
Year over Year Growth Est.	0.00%	12.00%	9.94%	10.23%

Agreement - Estimate Revisions

	Current Qtr (7/2021)	Next Qtr (10/2021)	Current Year (4/2022)	Next Year (4/2023)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	1	0	1	1
Up Last 60 Days	1	0	1	1
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	0	0	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (7/2021)	Next Qtr (10/2021)	Current Year (4/2022)	Next Year (4/2023)
Current	0.40	0.56	1.77	1.96
7 Days Ago	0.40	0.56	1.77	1.96
30 Days Ago	0.39	0.56	1.77	1.95
60 Days Ago	0.39	0.56	1.77	1.95
90 Days Ago	0.40	0.60	1.90	2.11

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (7/2021)	Next Qtr (10/2021)	Current Year (4/2022)	Next Year (4/2023)
Most Accurate Estimate	0.37	0.56	1.72	1.89
Zacks Consensus Estimate	0.40	0.56	1.77	1.96
Earnings ESP	-7.04%	0.00%	-3.04%	-3.33%

Surprise - Reported Earnings History

	Quarter Ending (4/2021)	Quarter Ending (1/2021)	Quarter Ending (10/2020)	Quarter Ending (7/2020)	Average Surprise
Reported	0.25	0.45	0.50	0.40	NA
Estimate	0.30	0.43	0.51	0.31	NA
Difference	-0.05	0.02	-0.01	0.09	0.01
Surprise	-16.67%	4.65%	-1.96%	29.03%	3.76%

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Broadridge Financial Solutions, Inc. (BR)

(Real Time Quote from BATS)

$172.87 USD

+0.54 (0.31%)

Updated Aug 31, 2021 10:43 AM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
C Value | B Growth | A Momentum | B VGM

Industry Rank:
Top 39% (98 out of 253)

Industry: Outsourcing

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Broadridge Financial Solutions, Inc. (BR) Quote Overview » Estimates » Broadridge Financial Solutions, Inc. (BR) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/29/21	Earnings ESP	0.00%
Current Quarter	1.01	Current Year	6.41
EPS Last Quarter	2.19	Next Year	6.99
Last EPS Surprise	0.00%	EPS (TTM)	5.66

ABR	2.17	P/E (F1)	26.90

Growth Estimates	BR	IND	S&P
Current Qtr (09/2021)	3.06	25.03	186.03
Next Qtr (12/2021)	32.88	6.69	57.67
Current Year (06/2022)	13.25	17.00	55.37
Next Year (06/2023)	9.05	7.40	13.08
Past 5 Years	15.20	9.80	2.80
Next 5 Years	NA	13.80	NA
PE	26.90	-8.40	23.82
PEG Ratio	NA	-0.61	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for BR

Zacks Rank	**Hold 3**
Zacks Industry Rank	Top 39% (98 out of 253)
Zacks Sector Rank	Bottom 13% (14 out of 16)
Style Scores	**C Value | B Growth | A Momentum | B VGM**
Earnings ESP	0.00%
Research Reports for BR	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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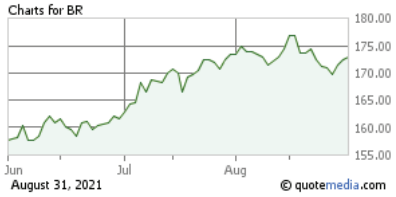
Research for BR

Chart for BR



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Zacks Consensus Estimate	1.14B	1.18B	5.39B	5.71B
# of Estimates	5	5	5	5
High Estimate	1.19B	1.23B	5.53B	5.86B
Low Estimate	1.10B	1.15B	4.99B	5.51B
Year ago Sales	1.02B	1.05B	4.99B	5.39B
Year over Year Growth Est.	12.07%	12.19%	7.89%	6.05%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Zacks Consensus Estimate	1.01	0.97	6.41	6.99
# of Estimates	5	5	5	5
Most Recent Consensus	0.92	0.86	6.28	6.81
High Estimate	1.06	1.10	6.55	7.30
Low Estimate	0.92	0.84	6.28	6.78
Year ago EPS	0.98	0.73	5.66	6.41
Year over Year Growth Est.	3.06%	32.88%	13.25%	9.08%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	1	3	4	3
Up Last 60 Days	1	3	4	3
Down Last 7 Days	0	0	0	0
Down Last 30 Days	2	0	1	1
Down Last 60 Days	2	0	1	1

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Current	1.01	0.97	6.41	6.99
7 Days Ago	1.01	0.97	6.41	6.99
30 Days Ago	1.04	0.91	6.21	6.87
60 Days Ago	1.04	0.91	6.21	6.87
90 Days Ago	1.04	0.91	6.21	6.87

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Most Accurate Estimate	1.01	0.97	6.41	6.99
Zacks Consensus Estimate	1.01	0.97	6.41	6.99
Earnings ESP	0.00%	0.00%	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	2.19	1.76	0.73	0.98	NA
Estimate	2.19	1.67	0.73	0.63	NA
Difference	0.00	0.09	0.00	0.35	0.11
Surprise	0.00%	5.39%	0.00%	55.56%	15.24%

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CACI International, Inc. (CACI)
(Real Time Quote from BATS)

$256.92 USD
+0.18 (0.07%)
Updated Aug 31, 2021 10:45 AM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold
Style Scores:
A Value | B Growth | A Momentum | A VGM
Industry Rank:
Bottom 31% (174 out of 253)
Industry: Computer - Services

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CACI International, Inc. (CACI) Quote Overview » Estimates » CACI International, Inc. (CACI) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/27/21	Earnings ESP	0.00%
Current Quarter	3.95	Current Year	18.23
EPS Last Quarter	6.26	Next Year	19.27
Last EPS Surprise	9.06%	EPS (TTM)	19.39
ABR	1.50	P/E (F1)	14.08

Growth Estimates	CACI	IND	S&P
Current Qtr (09/2021)	7.63	123.50	186.03
Next Qtr (12/2021)	7.66	-24.99	57.67
Current Year (06/2022)	-10.15	2.20	55.37
Next Year (06/2023)	5.70	16.70	13.08
Past 5 Years	27.90	11.00	2.80
Next 5 Years	5.40	9.70	NA
PE	14.08	22.80	23.82
PEG Ratio	2.58	2.35	NA

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Premium Research for CACI

Zacks Rank	Hold 3
Zacks Industry Rank	Bottom 31% (174 out of 253)
Zacks Sector Rank	Bottom 25% (12 out of 16)
Style Scores	A Value | B Growth | A Momentum | A VGM
Earnings ESP	0.00%
Research Reports for CACI	Analyst | Snapshot

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Research for CACI

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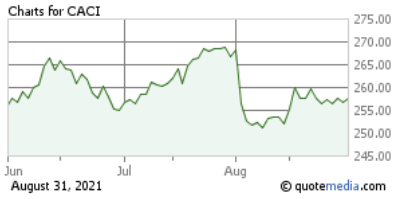
Chart for CACI



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Sales Estimates

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High Estimate	1.50B	1.54B	6.35B	6.67B
Low Estimate	1.48B	1.52B	6.25B	6.42B
Year ago Sales	1.46B	1.47B	6.04B	6.29B
Year over Year Growth Est.	2.31%	4.17%	4.10%	3.89%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Zacks Consensus Estimate	3.95	4.50	18.23	19.27
# of Estimates	8	6	8	8
Most Recent Consensus	3.96	4.65	18.70	20.60
High Estimate	4.26	4.88	18.70	20.84
Low Estimate	3.55	4.17	16.23	17.01
Year ago EPS	3.67	4.18	20.29	18.23
Year over Year Growth Est.	7.63%	7.66%	-10.15%	5.68%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	3	4	7	3
Up Last 60 Days	3	4	7	3
Down Last 7 Days	0	0	0	0
Down Last 30 Days	1	0	0	1
Down Last 60 Days	1	0	0	1

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Current	3.95	4.50	18.23	19.27
7 Days Ago	3.95	4.50	18.23	19.27
30 Days Ago	3.78	4.09	16.84	17.82
60 Days Ago	3.78	4.09	16.81	17.82
90 Days Ago	3.78	4.09	16.80	17.80

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Most Accurate Estimate	3.95	4.50	18.52	19.59
Zacks Consensus Estimate	3.95	4.50	18.23	19.27
Earnings ESP	0.00%	0.00%	1.57%	1.68%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	6.26	5.28	4.18	3.67	NA

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Surprise	9.06%	43.09%	17.09%	16.51%	21.44%

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Cerner Corporation (CERN)

(Real Time Quote from BATS)

$76.29 USD

+0.07 (0.09%)

Updated Aug 31, 2021 10:51 AM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
B Value | B Growth | D Momentum | B VGM

Industry Rank:
Bottom 20% (202 out of 253)

Industry: Medical Info Systems

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Cerner Corporation (CERN) Quote Overview » Estimates » Cerner Corporation (CERN) Detailed Estimates

Detailed Estimates

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Estimates

Next Report Date	10/27/21	Earnings ESP	0.24%
Current Quarter	0.82	Current Year	3.25
EPS Last Quarter	0.80	Next Year	3.66
Last EPS Surprise	5.26%	EPS (TTM)	3.06
ABR	1.95	P/E (F1)	23.47

Growth Estimates	CERN	IND	S&P
Current Qtr (09/2021)	13.89	-3,731.65	186.03
Next Qtr (12/2021)	12.82	83.19	57.67
Current Year (12/2021)	14.44	10.20	55.37
Next Year (12/2022)	12.62	17.10	13.08
Past 5 Years	5.50	6.10	2.80
Next 5 Years	12.30	19.30	NA
PE	23.47	-26.30	23.82
PEG Ratio	1.91	-1.36	NA

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Premium Research for CERN

Zacks Rank	▲ Hold 3
Zacks Industry Rank	Bottom 20% (202 out of 253)
Zacks Sector Rank	Bottom 0% (16 out of 16)
Style Scores	B Value | B Growth | D Momentum | B VGM
Earnings ESP	0.24%
Research Reports for CERN	Analyst | Snapshot

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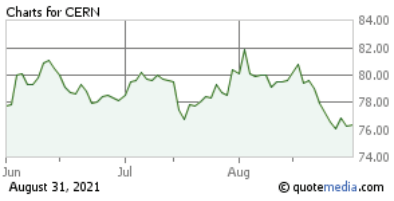

Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.45B	1.49B	5.78B	6.07B
# of Estimates	7	7	8	8
High Estimate	1.45B	1.50B	5.80B	6.14B
Low Estimate	1.45B	1.46B	5.76B	5.99B
Year ago Sales	1.37B	1.40B	5.51B	5.78B
Year over Year Growth Est.	5.99%	6.57%	4.95%	5.11%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.82	0.88	3.25	3.66
# of Estimates	10	8	13	13
Most Recent Consensus	0.82	0.88	3.25	3.76
High Estimate	0.83	0.90	3.27	3.79
Low Estimate	0.81	0.86	3.20	3.58
Year ago EPS	0.72	0.78	2.84	3.25
Year over Year Growth Est.	13.89%	12.82%	14.44%	12.54%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	1	0	7	3
Up Last 60 Days	1	3	11	7
Down Last 7 Days	0	0	0	0
Down Last 30 Days	1	3	0	4
Down Last 60 Days	3	3	0	4

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	0.82	0.88	3.25	3.66
7 Days Ago	0.82	0.88	3.25	3.66
30 Days Ago	0.81	0.88	3.23	3.65
60 Days Ago	0.82	0.88	3.21	3.63
90 Days Ago	0.82	0.88	3.20	3.63

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	0.82	0.88	3.26	3.66
Zacks Consensus Estimate	0.82	0.88	3.25	3.66
Earnings ESP	0.24%	-0.10%	0.29%	0.13%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.80	0.76	0.78	0.72	NA
Estimate	0.76	0.74	0.78	0.71	NA
Difference	0.04	0.02	0.00	0.01	0.02
Surprise	5.26%	2.70%	0.00%	1.41%	2.34%

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Chemed Corporation (CHE)

(Real Time Quote from BATS)

$474.18 USD

+1.87 (0.40%)

Updated Aug 31, 2021 10:53 AM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
B Value | A Growth | D Momentum | B VGM

Industry Rank:
Top 46% (117 out of 253)

Industry: Medical - Outpatient and Home Healthcare

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Chemed Corporation (CHE) Quote Overview » Estimates » Chemed Corporation (CHE) Detailed Estimates

Detailed Estimates

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Estimates

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ABR	1.33	P/E (F1)	25.64

Growth Estimates	CHE	IND	S&P
Current Qtr (09/2021)	-7.20	-52.59	186.03
Next Qtr (12/2021)	-4.29	-37.49	57.67
Current Year (12/2021)	1.88	-2.70	55.37
Next Year (12/2022)	4.99	19.30	13.08
Past 5 Years	22.20	17.30	2.80
Next 5 Years	7.50	20.80	NA
PE	25.64	14.70	23.82
PEG Ratio	3.40	0.71	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for CHE

Zacks Rank	Hold 3
Zacks Industry Rank	Top 46% (117 out of 253)
Zacks Sector Rank	Bottom 0% (16 out of 16)
Style Scores	B Value | A Growth | D Momentum | B VGM
Earnings ESP	0.00%
Research Reports for CHE	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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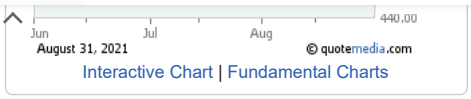

Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	532.18M	544.92M	2.14B	2.23B
# of Estimates	1	1	1	1
High Estimate	532.18M	544.92M	2.14B	2.23B
Low Estimate	532.18M	544.92M	2.14B	2.23B
Year ago Sales	528.30M	533.29M	2.08B	2.14B
Year over Year Growth Est.	0.73%	2.18%	2.75%	4.45%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	4.51	4.91	18.42	19.34
# of Estimates	2	1	2	2
Most Recent Consensus	4.51	4.91	18.46	19.31
High Estimate	4.51	4.91	18.46	19.36
Low Estimate	4.50	4.91	18.38	19.31
Year ago EPS	4.86	5.13	18.08	18.42
Year over Year Growth Est.	-7.20%	-4.29%	1.88%	4.97%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	0	0
Up Last 60 Days	1	1	2	2
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	0	0	0	0

Magnitude - Consensus Estimate Trend

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30 Days Ago	4.51	4.91	18.42	19.34
60 Days Ago	4.33	4.65	18.03	19.30
90 Days Ago	4.33	4.65	18.03	19.30

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	4.51	4.91	18.42	19.34
Zacks Consensus Estimate	4.51	4.91	18.42	19.34
Earnings ESP	0.00%	0.00%	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	4.60	4.44	5.13	4.86	NA
Estimate	4.45	4.20	5.14	3.99	NA
Difference	0.15	0.24	-0.01	0.87	0.31
Surprise	3.37%	5.71%	-0.19%	21.80%	7.67%

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The Cooper Companies, Inc. (COO)

(Real Time Quote from BATS)

$447.71 USD

-1.67 (-0.37%)

Updated Aug 31, 2021 10:59 AM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
C Value | F Growth | A Momentum | D VGM

Industry Rank:
Top 34% (86 out of 253)

Industry: Medical - Dental Supplies

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The Cooper Companies, Inc. (COO) Quote Overview » Estimates » The Cooper Companies, Inc. (COO) Detailed Estimates

Detailed Estimates

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Estimates

Next Report Date	*AMC 9/2/21	Earnings ESP	0.09%
Current Quarter	3.30	Current Year	13.32
EPS Last Quarter	3.38	Next Year	14.68
Last EPS Surprise	8.33%	EPS (TTM)	11.99

ABR	1.60	P/E (F1)	33.75

*BMO = Before Market Open *AMC = After Market Close

Growth Estimates	COO	IND	S&P
Current Qtr (07/2021)	44.74	48.73	186.03
Next Qtr (10/2021)	10.44	212.04	57.67
Current Year (10/2021)	38.17	23.80	55.37
Next Year (10/2022)	10.21	13.50	13.08
Past 5 Years	4.50	11.10	2.80
Next 5 Years	10.00	14.00	NA
PE	33.75	35.60	23.82
PEG Ratio	3.37	2.54	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for COO

Zacks Rank	▼ Hold 3
Zacks Industry Rank	Top 34% (86 out of 253)
Zacks Sector Rank	Bottom 0% (16 out of 16)
Style Scores	C Value | F Growth | A Momentum | D VGM
Earnings ESP	0.09%
Research Reports for COO	Analyst | Snapshot

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Research for COO

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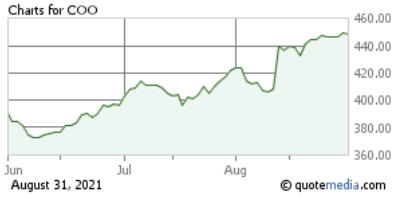
Chart for COO



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (7/2021)	Next Qtr (10/2021)	Current Year (10/2021)	Next Year (10/2022)
Zacks Consensus Estimate	724.60M	748.12M	2.87B	3.07B
# of Estimates	6	6	7	7
High Estimate	737.70M	754.10M	2.88B	3.11B
Low Estimate	714.52M	734.70M	2.87B	3.05B
Year ago Sales	578.20M	681.60M	2.43B	2.87B
Year over Year Growth Est.	25.32%	9.76%	18.17%	6.87%

Earnings Estimates

	Current Qtr (7/2021)	Next Qtr (10/2021)	Current Year (10/2021)	Next Year (10/2022)
Zacks Consensus Estimate	3.30	3.49	13.32	14.68
# of Estimates	7	7	8	8
Most Recent Consensus	3.33	3.42	13.30	14.50
High Estimate	3.41	3.58	13.37	14.80
Low Estimate	3.22	3.37	13.20	14.46
Year ago EPS	2.28	3.16	9.64	13.32
Year over Year Growth Est.	44.74%	10.44%	38.17%	10.21%

Agreement - Estimate Revisions

	Current Qtr (7/2021)	Next Qtr (10/2021)	Current Year (10/2021)	Next Year (10/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	1	1	1	0
Up Last 60 Days	1	1	1	0
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	1
Down Last 60 Days	0	0	0	1

Magnitude - Consensus Estimate Trend

	Current Qtr (7/2021)	Next Qtr (10/2021)	Current Year (10/2021)	Next Year (10/2022)
Current	3.30	3.49	13.32	14.68
7 Days Ago	3.30	3.49	13.32	14.68
30 Days Ago	3.29	3.48	13.31	14.68
60 Days Ago	3.29	3.47	13.28	14.62
90 Days Ago	3.23	3.52	13.03	14.50

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (7/2021)	Next Qtr (10/2021)	Current Year (10/2021)	Next Year (10/2022)
Most Accurate Estimate	3.30	3.52	13.37	14.80
Zacks Consensus Estimate	3.30	3.49	13.32	14.68
Earnings ESP	0.09%	0.94%	0.41%	0.85%

Surprise - Reported Earnings History

	Quarter Ending (4/2021)	Quarter Ending (1/2021)	Quarter Ending (10/2020)	Quarter Ending (7/2020)	Average Surprise
Reported	3.38	3.17	3.16	2.28	NA
Estimate	3.12	2.77	3.11	1.58	NA
Difference	0.26	0.40	0.05	0.70	0.35
Surprise	8.33%	14.44%	1.61%	44.30%	17.17%

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CSW Industrials, Inc. (CSWI)

(Real Time Quote from BATS)

$133.42 USD

-1.78 (-1.32%)

Updated Aug 31, 2021 11:04 AM ET

Add to portfo Trades from $1

Zacks Rank:
2-Buy

Style Scores:
D Value | **C** Growth | **A** Momentum | **C** VGM

Industry Rank:
Top 29% (73 out of 253)

Industry: Chemical - Specialty

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CSW Industrials, Inc. (CSWI) Quote Overview » Estimates » CSW Industrials, Inc. (CSWI) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/29/21	Earnings ESP	0.00%
Current Quarter	1.48	Current Year	4.98
EPS Last Quarter	1.46	Next Year	5.71
Last EPS Surprise	25.86%	EPS (TTM)	4.03
ABR	1.00	P/E (F1)	27.15

Growth Estimates	CSWI	IND	S&P
Current Qtr (09/2021)	34.55	175.06	186.03
Next Qtr (12/2021)	50.85	-7.12	57.67
Current Year (03/2022)	47.77	29.80	55.37
Next Year (03/2023)	14.66	13.00	13.08
Past 5 Years	NA	2.40	2.80
Next 5 Years	NA	20.20	NA
PE	27.15	33.80	23.82
PEG Ratio	NA	1.67	NA

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Premium Research for CSWI

Zacks Rank	▼ Buy 2
Zacks Industry Rank	Top 29% (73 out of 253)
Zacks Sector Rank	Top 31% (5 out of 16)
Style Scores	D Value | C Growth | A Momentum | C VGM
Earnings ESP	0.00%
Research Report for CSWI	Snapshot

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Research for CSWI

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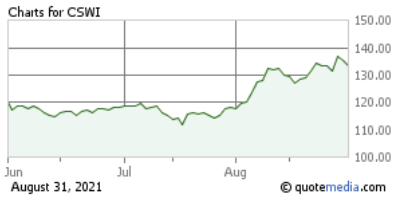
Chart for CSWI



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (3/2022)	Next Year (3/2023)
Zacks Consensus Estimate	162.88M	149.85M	632.83M	670.80M
# of Estimates	1	1	1	1
High Estimate	162.88M	149.85M	632.83M	670.80M
Low Estimate	162.88M	149.85M	632.83M	670.80M
Year ago Sales	104.94M	89.93M	419.20M	632.83M
Year over Year Growth Est.	55.21%	66.63%	50.96%	6.00%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (3/2022)	Next Year (3/2023)
Zacks Consensus Estimate	1.48	0.89	4.98	5.71
# of Estimates	1	1	1	1
Most Recent Consensus	1.48	0.89	4.98	5.71
High Estimate	1.48	0.89	4.98	5.71
Low Estimate	1.48	0.89	4.98	5.71
Year ago EPS	1.10	0.59	3.37	4.98
Year over Year Growth Est.	34.55%	50.85%	47.77%	14.66%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (3/2022)	Next Year (3/2023)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	1	0	1	1
Up Last 60 Days	1	0	1	1
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	1	0	0
Down Last 60 Days	0	1	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (3/2022)	Next Year (3/2023)
Current	1.48	0.89	4.98	5.71
7 Days Ago	1.48	0.89	4.98	5.71
30 Days Ago	1.23	1.00	4.63	5.23
60 Days Ago	1.23	1.00	4.63	5.23
90 Days Ago	1.18	1.00	4.44	5.23

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (3/2022)	Next Year (3/2023)
Most Accurate Estimate	1.48	0.89	4.98	5.71
Zacks Consensus Estimate	1.48	0.89	4.98	5.71
Earnings ESP	0.00%	0.00%	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	1.46	0.88	0.59	1.10	NA
Estimate	1.16	0.95	0.35	NA	NA
Difference	0.30	-0.07	0.24	NA	0.16
Surprise	25.86%	-7.37%	68.57%	NA	29.02%

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Quest Diagnostics Incorporated (DGX)

(Real Time Quote from BATS)

$152.68 USD

+1.91 (1.27%)

Updated Aug 31, 2021 02:32 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
A Value | C Growth | C Momentum | A VGM

Industry Rank:
Top 46% (117 out of 253)

Industry: Medical - Outpatient and Home Healthcare

View All Zacks #1 Ranked Stocks
Quest Diagnostics Incorporated (DGX) Quote Overview » Estimates » Quest Diagnostics Incorporated (DGX) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/28/21	Earnings ESP	3.97%
Current Quarter	2.20	Current Year	11.16
EPS Last Quarter	3.18	Next Year	8.07
Last EPS Surprise	10.80%	EPS (TTM)	15.73

ABR	1.73	P/E (F1)	13.51

Growth Estimates	DGX	IND	S&P
Current Qtr (09/2021)	-48.96	-52.59	186.03
Next Qtr (12/2021)	-54.02	-37.49	57.67
Current Year (12/2021)	-0.18	-2.70	55.37
Next Year (12/2022)	-27.69	19.30	13.08
Past 5 Years	18.80	17.30	2.80
Next 5 Years	26.50	20.80	NA
PE	13.51	14.70	23.82
PEG Ratio	0.51	0.71	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for DGX

Zacks Rank	**Hold 3**
Zacks Industry Rank	Top 46% (117 out of 253)
Zacks Sector Rank	Bottom 0% (16 out of 16)
Style Scores	**A Value | C Growth | C Momentum | A VGM**
Earnings ESP	3.97%
Research Reports for DGX	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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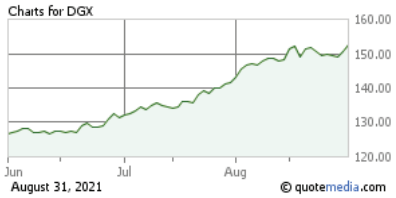
Research for DGX

Chart for DGX



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	2.24B	2.16B	9.61B	8.46B
# of Estimates	6	6	7	7
High Estimate	2.28B	2.21B	9.76B	8.71B
Low Estimate	2.22B	2.13B	9.32B	8.00B
Year ago Sales	2.79B	3.00B	9.44B	9.61B
Year over Year Growth Est.	-19.54%	-27.93%	1.86%	-11.98%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	2.20	2.06	11.16	8.07
# of Estimates	8	7	8	8
Most Recent Consensus	2.23	2.31	11.23	7.98
High Estimate	2.29	2.31	11.26	8.31
Low Estimate	2.03	1.87	11.01	7.89
Year ago EPS	4.31	4.48	11.18	11.16
Year over Year Growth Est.	-48.96%	-54.02%	-0.18%	-27.75%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	1	0	1	1
Up Last 60 Days	2	1	1	4
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	4	5	4	1

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	2.20	2.06	11.16	8.07
7 Days Ago	2.20	2.06	11.16	8.07
30 Days Ago	2.20	2.06	11.14	8.06
60 Days Ago	2.32	2.22	11.21	7.97
90 Days Ago	2.32	2.22	11.21	7.97

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	2.29	2.06	11.15	8.12
Zacks Consensus Estimate	2.20	2.06	11.16	8.07
Earnings ESP	3.97%	0.00%	-0.12%	0.67%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	3.18	3.76	4.48	4.31	NA

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Estimate	2.87	3.77	4.28	3.75	NA
Difference	0.31	-0.01	0.20	0.56	0.27
Surprise	10.80%	-0.27%	4.67%	14.93%	7.53%

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The Estee Lauder Companies Inc. (EL)

(Real Time Quote from BATS)

$342.66 USD

-0.82 (-0.24%)

Updated Aug 31, 2021 11:17 AM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
D Value | B Growth | D Momentum | C VGM

Industry Rank:
Bottom 25% (190 out of 253)

Industry: Cosmetics

View All Zacks #1 Ranked Stocks
The Estee Lauder Companies Inc. (EL) Quote Overview » Estimates » The Estee Lauder Companies Inc. (EL) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/1/21	Earnings ESP	0.00%
Current Quarter	1.67	Current Year	7.51
EPS Last Quarter	0.78	Next Year	8.49
Last EPS Surprise	52.94%	EPS (TTM)	6.45

ABR	1.53	P/E (F1)	45.74

Growth Estimates	EL	IND	S&P
Current Qtr (09/2021)	15.97	-21.79	186.03
Next Qtr (12/2021)	7.28	56.25	57.67
Current Year (06/2022)	16.43	9.70	55.37
Next Year (06/2023)	13.05	15.60	13.08
Past 5 Years	14.60	1.50	2.80
Next 5 Years	11.30	9.50	NA
PE	45.74	43.90	23.82
PEG Ratio	4.04	4.62	NA

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See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for EL

Zacks Rank	**Hold 3**
Zacks Industry Rank	Bottom 25% (190 out of 253)
Zacks Sector Rank	Bottom 31% (11 out of 16)
Style Scores	**D Value | B Growth | D Momentum | C VGM**
Earnings ESP	0.00%
Research Reports for EL	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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Research for EL

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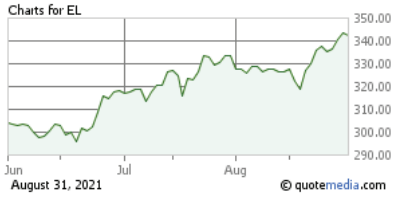
Chart for EL



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Zacks Consensus Estimate	4.23B	5.50B	18.81B	20.40B
# of Estimates	7	7	8	7
High Estimate	4.28B	5.85B	18.99B	21.00B
Low Estimate	4.19B	5.04B	18.60B	19.90B
Year ago Sales	3.56B	4.85B	16.22B	18.81B
Year over Year Growth Est.	18.79%	13.43%	16.01%	8.45%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Zacks Consensus Estimate	1.67	2.80	7.51	8.49
# of Estimates	10	9	11	9
Most Recent Consensus	1.65	2.78	8.22	8.18
High Estimate	1.70	3.01	8.22	9.06
Low Estimate	1.60	2.53	7.30	8.05
Year ago EPS	1.44	2.61	6.45	7.51
Year over Year Growth Est.	15.97%	7.28%	16.43%	13.11%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	5	9	5
Up Last 60 Days	0	4	9	4
Down Last 7 Days	0	0	0	0
Down Last 30 Days	6	1	0	1
Down Last 60 Days	6	2	0	1

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Current	1.67	2.80	7.51	8.49
7 Days Ago	1.67	2.80	7.51	8.49
30 Days Ago	1.80	2.74	7.15	8.22
60 Days Ago	1.83	2.76	7.14	8.24
90 Days Ago	1.83	2.76	7.14	8.24

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Most Accurate Estimate	1.67	2.80	7.49	8.49
Zacks Consensus Estimate	1.67	2.80	7.51	8.49
Earnings ESP	0.00%	0.00%	-0.32%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.78	1.62	2.61	1.44	NA
Estimate	0.51	1.29	1.67	0.90	NA
Difference	0.27	0.33	0.94	0.54	0.52
Surprise	52.94%	25.58%	56.29%	60.00%	48.70%

Quarterly Estimates By Analyst

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Exponent, Inc. (EXPO)

(Real Time Quote from BATS)

$117.31 USD

+0.42 (0.36%)

Updated Aug 31, 2021 11:17 AM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold 3

Style Scores:
D Value | A Growth | B Momentum | B VGM

Industry Rank:
Top 13% (34 out of 253)

Industry: Consulting Services

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Exponent, Inc. (EXPO) Quote Overview » Estimates » Exponent, Inc. (EXPO) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/4/21	Earnings ESP	1.27%
Current Quarter	0.40	Current Year	1.79
EPS Last Quarter	0.48	Next Year	1.92
Last EPS Surprise	14.29%	EPS (TTM)	1.81
ABR	2.00	P/E (F1)	65.49

Growth Estimates	EXPO	IND	S&P
Current Qtr (09/2021)	17.65	17.27	186.03
Next Qtr (12/2021)	-17.07	12.62	57.67
Current Year (12/2021)	15.48	20.50	55.37
Next Year (12/2022)	7.26	10.80	13.08
Past 5 Years	14.70	8.50	2.80
Next 5 Years	NA	16.10	NA
PE	65.49	36.50	23.82
PEG Ratio	NA	2.27	NA

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See Earnings Report Transcript

Premium Research for EXPO

Zacks Rank	▼ Hold 3
Zacks Industry Rank	Top 13% (34 out of 253)
Zacks Sector Rank	Bottom 13% (14 out of 16)
Style Scores	D Value | A Growth | B Momentum | B VGM
Earnings ESP	1.27%
Research Report for EXPO	Snapshot

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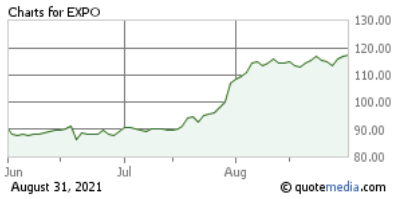

Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	104.47M	99.03M	425.52M	458.58M
# of Estimates	2	2	2	2
High Estimate	105.30M	99.76M	425.60M	459.20M
Low Estimate	103.64M	98.30M	425.44M	457.96M
Year ago Sales	93.50M	97.33M	378.41M	425.52M
Year over Year Growth Est.	11.73%	1.75%	12.45%	7.77%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.40	0.34	1.79	1.92
# of Estimates	2	2	2	2
Most Recent Consensus	0.40	0.34	1.79	1.97
High Estimate	0.40	0.34	1.79	1.97
Low Estimate	0.39	0.34	1.78	1.87
Year ago EPS	0.34	0.41	1.55	1.79
Year over Year Growth Est.	17.65%	-17.07%	15.48%	7.54%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	1	0	1	1
Up Last 60 Days	2	1	2	2
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	1	0	0
Down Last 60 Days	0	1	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	0.40	0.34	1.79	1.92
7 Days Ago	0.40	0.34	1.79	1.92
30 Days Ago	0.39	0.35	1.76	1.88
60 Days Ago	0.38	0.35	1.72	1.87
90 Days Ago	0.38	0.35	1.72	1.87

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	0.40	0.34	1.79	1.97
Zacks Consensus Estimate	0.40	0.34	1.79	1.92
Earnings ESP	1.27%	0.00%	0.28%	2.60%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.48	0.58	0.41	0.34	NA
Estimate	0.42	0.43	0.28	0.27	NA
Difference	0.06	0.15	0.13	0.07	0.10
Surprise	14.29%	34.88%	46.43%	25.93%	30.38%

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Hershey Company The (HSY)

(Real Time Quote from BATS)

$177.82 USD

+1.29 (0.73%)

Updated Aug 31, 2021 11:32 AM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
C Value | B Growth | D Momentum | B VGM

Industry Rank:
Top 22% (56 out of 253)

Industry: Food - Confectionery

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Hershey Company The (HSY) Quote Overview » Estimates » Hershey Company The (HSY) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/5/21	Earnings ESP	0.00%
Current Quarter	1.99	Current Year	6.91
EPS Last Quarter	1.47	Next Year	7.47
Last EPS Surprise	3.52%	EPS (TTM)	6.74
ABR	2.00	P/E (F1)	25.54

Growth Estimates	HSY	IND	S&P
Current Qtr (09/2021)	6.99	-4.13	186.03
Next Qtr (12/2021)	2.01	10.81	57.67
Current Year (12/2021)	9.86	17.70	55.37
Next Year (12/2022)	8.10	11.30	13.08
Past 5 Years	8.50	8.50	2.80
Next 5 Years	7.70	7.70	NA
PE	25.54	24.70	23.82
PEG Ratio	3.33	3.21	NA

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See Earnings Report Transcript

Premium Research for HSY

Zacks Rank	▼ Hold 3
Zacks Industry Rank	Top 22% (56 out of 253)
Zacks Sector Rank	Bottom 31% (11 out of 16)
Style Scores	C Value | B Growth | D Momentum | B VGM
Earnings ESP	0.00%
Research Reports for HSY	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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Research for HSY

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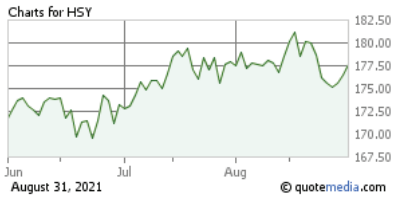
Chart for HSY



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	2.29B	2.21B	8.80B	9.01B
# of Estimates	5	5	6	6
High Estimate	2.35B	2.23B	8.85B	9.21B
Low Estimate	2.27B	2.19B	8.75B	8.84B
Year ago Sales	2.22B	2.19B	8.15B	8.80B
Year over Year Growth Est.	3.32%	1.25%	7.99%	2.39%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.99	1.52	6.91	7.47
# of Estimates	7	6	8	8
Most Recent Consensus	2.10	1.49	6.90	7.40
High Estimate	2.13	1.61	6.97	7.67
Low Estimate	1.89	1.41	6.86	7.30
Year ago EPS	1.86	1.49	6.29	6.91
Year over Year Growth Est.	6.99%	2.01%	9.86%	8.14%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	0	0
Up Last 60 Days	3	2	5	6
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	2	3	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	1.99	1.52	6.91	7.47
7 Days Ago	1.99	1.52	6.91	7.47
30 Days Ago	1.99	1.52	6.91	7.47
60 Days Ago	2.01	1.55	6.88	7.28
90 Days Ago	2.01	1.55	6.88	7.28

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	1.99	1.52	6.91	7.47
Zacks Consensus Estimate	1.99	1.52	6.91	7.47
Earnings ESP	0.00%	0.00%	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	1.47	1.92	1.49	1.86	NA
Estimate	1.42	1.81	1.43	1.71	NA
Difference	0.05	0.11	0.06	0.15	0.09
Surprise	3.52%	6.08%	4.20%	8.77%	5.64%

Quarterly Estimates By Analyst

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Ingredion Incorporated (INGR)

(Real Time Quote from BATS)

$88.07 USD

+0.30 (0.34%)

Updated Aug 31, 2021 11:39 AM ET

Add to portfo | Trades from $1

Zacks Rank:
3-Hold

Style Scores:
A Value | B Growth | C Momentum | A VGM

Industry Rank:
Bottom 33% (170 out of 253)

Industry: Food - Miscellaneous

View All Zacks #1 Ranked Stocks

Ingredion Incorporated (INGR) Quote Overview » Estimates » Ingredion Incorporated (INGR) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/1/21	Earnings ESP	NA
Current Quarter	NA	Current Year	6.70
EPS Last Quarter	2.05	Next Year	7.04
Last EPS Surprise	NA	EPS (TTM)	7.42
ABR	3.00	P/E (F1)	13.10

Growth Estimates	INGR	IND	S&P
Current Qtr (09/2021)	NA	5.17	186.03
Next Qtr (12/2021)	NA	6.76	57.67
Current Year (12/2021)	7.54	9.90	55.37
Next Year (12/2022)	5.07	16.40	13.08
Past 5 Years	0.50	3.20	2.80
Next 5 Years	NA	10.20	NA
PE	13.10	21.60	23.82
PEG Ratio	NA	2.12	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for INGR

Zacks Rank	**Hold 3**
Zacks Industry Rank	Bottom 33% (170 out of 253)
Zacks Sector Rank	Bottom 31% (11 out of 16)
Style Scores	**A Value | B Growth | C Momentum | A VGM**
Earnings ESP	NA
Research Report for INGR	Snapshot

(▲▼ = Change in last 30 days)

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Research for INGR

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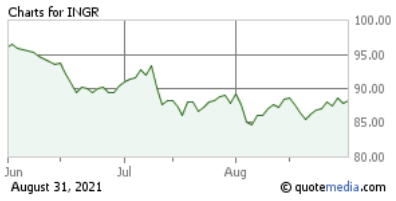
Chart for INGR



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.00M	NA	NA	NA
# of Estimates	NA	NA	NA	NA
High Estimate	NA	NA	NA	NA
Low Estimate	NA	NA	NA	NA
Year ago Sales	1.50B	1.59B	5.99B	NA
Year over Year Growth Est.	NA	NA	NA	NA

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	NA	NA	6.70	7.04
# of Estimates	NA	NA	1	1
Most Recent Consensus	NA	NA	NA	NA
High Estimate	NA	NA	6.70	7.04
Low Estimate	NA	NA	6.70	7.04
Year ago EPS	1.77	1.75	6.23	6.70
Year over Year Growth Est.	NA	NA	7.54%	5.07%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	NA	NA	0	0
Up Last 30 Days	NA	NA	1	1
Up Last 60 Days	NA	NA	1	1
Down Last 7 Days	NA	NA	0	0
Down Last 30 Days	NA	NA	0	0
Down Last 60 Days	NA	NA	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	NA	NA	6.70	7.04
7 Days Ago	NA	NA	6.70	7.04
30 Days Ago	NA	NA	6.49	6.99
60 Days Ago	NA	NA	6.49	6.99
90 Days Ago	NA	NA	6.49	6.99

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	NA	NA	6.70	7.04
Zacks Consensus Estimate	NA	NA	6.70	7.04
Earnings ESP	NA	NA	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	2.05	1.85	1.75	1.77	NA
Estimate	NA	NA	NA	NA	NA
Difference	NA	NA	NA	NA	NA
Surprise	NA	NA	NA	NA	NA

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At the center of everything we do is a strong commitment to independent research and sharing its profitable discoveries with investors. This dedication to giving investors a trading advantage led to the creation of our proven Zacks Rank stock-rating system. Since 1988 it has more than doubled the S&P 500 with an average gain of +25.60% per year. These returns cover a period from January 1, 1988 through June 28, 2021. Zacks Rank stock-rating system returns are computed monthly based on the beginning of the month and end of the month Zacks Rank stock prices plus any dividends received during that particular month. A simple, equally-weighted average return of all Zacks Rank stocks is calculated to determine the monthly return. The monthly returns are then compounded to arrive at the annual return. Only Zacks Rank stocks included in Zacks hypothetical portfolios at the beginning of each month are included in the return calculations. Zacks Ranks stocks can, and often do, change throughout the month. Certain Zacks Rank stocks for which no month-end price was available, pricing information was not collected, or for certain other reasons have been excluded from these return calculations.

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J.B. Hunt Transport Services, Inc. (JBHT)

(Real Time Quote from BATS)

$179.36 USD

-3.35 (-1.83%)

Updated Aug 31, 2021 11:33 AM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
B Value | A Growth | C Momentum | A VGM

Industry Rank:
Top 31% (78 out of 253)

Industry: Transportation - Truck

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J.B. Hunt Transport Services, Inc. (JBHT) Quote Overview » Estimates » J.B. Hunt Transport Services, Inc. (JBHT) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/15/21	Earnings ESP	0.00%
Current Quarter	1.79	Current Year	6.69
EPS Last Quarter	1.61	Next Year	7.66
Last EPS Surprise	3.87%	EPS (TTM)	5.60

ABR	2.06	P/E (F1)	27.33

Growth Estimates	JBHT	IND	S&P
Current Qtr (09/2021)	51.69	42.55	186.03
Next Qtr (12/2021)	31.94	30.86	57.67
Current Year (12/2021)	41.14	39.50	55.37
Next Year (12/2022)	14.50	7.70	13.08
Past 5 Years	6.10	7.70	2.80
Next 5 Years	15.00	18.70	NA
PE	27.33	18.30	23.82
PEG Ratio	1.82	0.98	NA

Learn More About Estimate Research

See Brokerage Recommendations

Premium Research for JBHT

Zacks Rank	**Hold 3**
Zacks Industry Rank	Top 31% (78 out of 253)
Zacks Sector Rank	Top 19% (3 out of 16)
Style Scores	**B Value | A Growth | C Momentum | A VGM**
Earnings ESP	0.00%
Research Reports for JBHT	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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Research for JBHT

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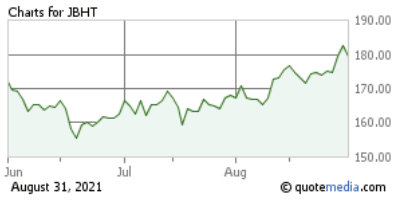
Chart for JBHT



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	3.00B	3.14B	11.75B	12.70B
# of Estimates	4	4	6	6
High Estimate	3.10B	3.24B	12.11B	13.32B
Low Estimate	2.90B	3.07B	11.50B	11.80B
Year ago Sales	2.47B	2.74B	9.64B	11.75B
Year over Year Growth Est.	21.45%	14.86%	21.92%	8.12%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.79	1.90	6.69	7.66
# of Estimates	7	5	9	9
Most Recent Consensus	1.75	1.87	6.60	7.55
High Estimate	1.85	1.99	6.80	8.00
Low Estimate	1.71	1.81	6.50	7.21
Year ago EPS	1.18	1.44	4.74	6.69
Year over Year Growth Est.	51.69%	31.94%	41.14%	14.60%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	1	1
Up Last 60 Days	4	4	8	6
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	0	1	1	1

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	1.79	1.90	6.69	7.66
7 Days Ago	1.79	1.90	6.69	7.66
30 Days Ago	1.79	1.90	6.66	7.59
60 Days Ago	1.75	1.84	6.56	7.49
90 Days Ago	1.76	1.83	6.57	7.47

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	1.79	1.90	6.80	8.00
Zacks Consensus Estimate	1.79	1.90	6.69	7.66
Earnings ESP	0.00%	0.00%	1.71%	4.41%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	1.61	1.37	1.44	1.18	NA
Estimate	1.55	1.18	1.27	1.26	NA
Difference	0.06	0.19	0.17	-0.08	0.09
Surprise	3.87%	16.10%	13.39%	-6.35%	6.75%

Quarterly Estimates By Analyst

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J & J Snack Foods Corp. (JJSF)

(Real Time Quote from BATS)

$163.24 USD

+1.22 (0.75%)

Updated Aug 31, 2021 11:41 AM ET

Add to portfo | Trades from $1

Zacks Rank:
1-Strong Buy 1

Style Scores:
F Value | B Growth | B Momentum | D VGM

Industry Rank:
Bottom 33% (170 out of 253)

Industry: Food - Miscellaneous

View All Zacks #1 Ranked Stocks

J & J Snack Foods Corp. (JJSF) Quote Overview » Estimates » J & J Snack Foods Corp. (JJSF) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/4/21	Earnings ESP	4.64%
Current Quarter	1.22	Current Year	3.15
EPS Last Quarter	1.51	Next Year	4.70
Last EPS Surprise	91.14%	EPS (TTM)	2.27
ABR	2.00	P/E (F1)	51.49

Growth Estimates	JJSF	IND	S&P
Current Qtr (09/2021)	248.57	5.17	186.03
Next Qtr (12/2021)	933.33	6.76	57.67
Current Year (09/2021)	183.78	9.90	55.37
Next Year (09/2022)	49.21	16.40	13.08
Past 5 Years	-22.50	3.20	2.80
Next 5 Years	NA	10.20	NA
PE	51.49	21.60	23.82
PEG Ratio	NA	2.12	NA

Learn More About Estimate Research

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Premium Research for JJSF

Zacks Rank	▲ Strong Buy 1
Zacks Industry Rank	Bottom 33% (170 out of 253)
Zacks Sector Rank	Bottom 31% (11 out of 16)
Style Scores	F Value | B Growth | B Momentum | D VGM
Earnings ESP	4.64%
Research Report for JJSF	Snapshot

(▲▼ = Change in last 30 days)

View All Zacks Rank #1 Strong Buys

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Research for JJSF

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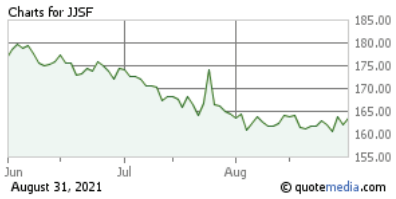
Chart for JJSF



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (9/2021)	Next Year (9/2022)
Zacks Consensus Estimate	314.00M	NA	1.14B	1.24B
# of Estimates	3	NA	3	3
High Estimate	320.00M	NA	1.14B	1.26B
Low Estimate	306.60M	NA	1.13B	1.23B
Year ago Sales	252.54M	241.00M	1.02B	1.14B
Year over Year Growth Est.	24.34%	NA	11.13%	9.14%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (9/2021)	Next Year (9/2022)
Zacks Consensus Estimate	1.22	0.93	3.15	4.70
# of Estimates	3	1	3	3
Most Recent Consensus	1.28	0.93	3.20	4.90
High Estimate	1.28	0.93	3.20	5.01
Low Estimate	1.12	0.93	3.04	4.18
Year ago EPS	0.35	0.09	1.11	3.15
Year over Year Growth Est.	248.57%	933.33%	183.78%	49.21%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (9/2021)	Next Year (9/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	1	1	1	1
Up Last 60 Days	3	1	3	3
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	0	0	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (9/2021)	Next Year (9/2022)
Current	1.22	0.93	3.15	4.70
7 Days Ago	1.22	0.93	3.15	4.70
30 Days Ago	1.20	0.79	2.93	4.55
60 Days Ago	1.17	0.79	2.37	4.40
90 Days Ago	1.17	0.79	2.37	4.40

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (9/2021)	Next Year (9/2022)
Most Accurate Estimate	1.28	0.93	3.20	4.90
Zacks Consensus Estimate	1.22	0.93	3.15	4.70
Earnings ESP	4.64%	0.00%	1.69%	4.33%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	1.51	0.32	0.09	0.35	NA
Estimate	0.79	0.13	0.14	0.05	NA
Difference	0.72	0.19	-0.05	0.30	0.29
Surprise	91.14%	146.15%	-35.71%	600.00%	200.40%

Quarterly Estimates By Analyst

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Jack Henry & Associates, Inc. (JKHY)

(Real Time Quote from BATS)

$177.15 USD

+0.83 (0.47%)

Updated Aug 31, 2021 11:55 AM ET

Add to portfo Trades from $1

Zacks Rank:
2-Buy

Style Scores:
D Value | B Growth | C Momentum | C VGM

Industry Rank:
Top 5% (12 out of 253)

Industry: Electronics - Miscellaneous Services

View All Zacks #1 Ranked Stocks
Jack Henry & Associates, Inc. (JKHY) Quote Overview » Estimates » Jack Henry & Associates, Inc. (JKHY) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/3/21	Earnings ESP	0.00%
Current Quarter	1.34	Current Year	4.57
EPS Last Quarter	1.04	Next Year	5.09
Last EPS Surprise	11.83%	EPS (TTM)	4.12

ABR	2.17	P/E (F1)	38.58

Growth Estimates	JKHY	IND	S&P
Current Qtr (09/2021)	12.61	-73.02	186.03
Next Qtr (12/2021)	18.09	-75.09	57.67
Current Year (06/2022)	10.92	-6.30	55.37
Next Year (06/2023)	11.38	23.30	13.08
Past 5 Years	6.90	6.90	2.80
Next 5 Years	11.00	11.00	NA
PE	38.58	11.90	23.82
PEG Ratio	3.51	1.08	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for JKHY

Zacks Rank	▲ Buy 2
Zacks Industry Rank	Top 5% (12 out of 253)
Zacks Sector Rank	Bottom 25% (12 out of 16)
Style Scores	D Value | B Growth | C Momentum | C VGM
Earnings ESP	0.00%
Research Reports for JKHY	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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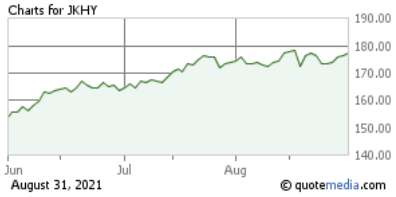
Research for JKHY

The No. 1 Stock to Buy Now

This is the only stock you should even consider buying today.

Ace of Investing

Chart for JKHY



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Zacks Consensus Estimate	490.10M	466.15M	1.90B	2.03B
# of Estimates	2	2	2	1
High Estimate	491.20M	471.30M	1.91B	2.03B
Low Estimate	489.00M	461.00M	1.90B	2.03B
Year ago Sales	451.80M	422.36M	1.76B	1.90B
Year over Year Growth Est.	8.48%	10.37%	8.20%	6.73%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Zacks Consensus Estimate	1.34	1.11	4.57	5.09
# of Estimates	2	2	3	1
Most Recent Consensus	1.32	1.05	4.58	5.09
High Estimate	1.36	1.16	4.60	5.09
Low Estimate	1.32	1.05	4.53	5.09
Year ago EPS	1.19	0.94	4.12	4.57
Year over Year Growth Est.	12.61%	18.09%	10.92%	11.38%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	1	1	2	1
Up Last 60 Days	1	1	2	1
Down Last 7 Days	0	0	0	0
Down Last 30 Days	1	1	0	0
Down Last 60 Days	1	1	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Current	1.34	1.11	4.57	5.09
7 Days Ago	1.34	1.11	4.57	5.09
30 Days Ago	1.34	1.13	4.55	5.08
60 Days Ago	1.34	1.13	4.55	5.08
90 Days Ago	1.33	1.07	4.51	5.08

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (6/2022)	Next Year (6/2023)
Most Accurate Estimate	1.34	1.11	4.59	5.09
Zacks Consensus Estimate	1.34	1.11	4.57	5.09
Earnings ESP	0.00%	0.00%	0.44%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	1.04	0.95	0.94	1.19	NA
Estimate	0.93	0.86	0.88	1.07	NA
Difference	0.11	0.09	0.06	0.12	0.10
Surprise	11.83%	10.47%	6.82%	11.21%	10.08%

Quarterly Estimates By Analyst

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ManTech International Corporation (MANT)

(Real Time Quote from BATS)

$79.40 USD

-0.35 (-0.44%)

Updated Aug 31, 2021 02:23 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
B Value | C Growth | B Momentum | B VGM

Industry Rank:
Bottom 31% (174 out of 253)

Industry: Computer - Services

View All Zacks #1 Ranked Stocks
ManTech International Corporation (MANT) Quote Overview » Estimates » ManTech International Corporation (MANT) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/4/21	Earnings ESP	0.00%
Current Quarter	0.86	Current Year	3.62
EPS Last Quarter	0.99	Next Year	3.76
Last EPS Surprise	13.79%	EPS (TTM)	3.59

ABR	2.25	P/E (F1)	22.06

Growth Estimates	MANT	IND	S&P
Current Qtr (09/2021)	3.61	123.50	186.03
Next Qtr (12/2021)	0.00	-24.99	57.67
Current Year (12/2021)	7.74	2.20	55.37
Next Year (12/2022)	3.87	16.70	13.08
Past 5 Years	19.50	11.00	2.80
Next 5 Years	5.10	9.70	NA
PE	22.06	22.80	23.82
PEG Ratio	4.36	2.35	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for MANT

Zacks Rank	▲ Hold 3
Zacks Industry Rank	Bottom 31% (174 out of 253)
Zacks Sector Rank	Bottom 25% (12 out of 16)
Style Scores	B Value | C Growth | B Momentum | B VGM
Earnings ESP	0.00%
Research Report for MANT	Snapshot

(▲▼ = Change in last 30 days)

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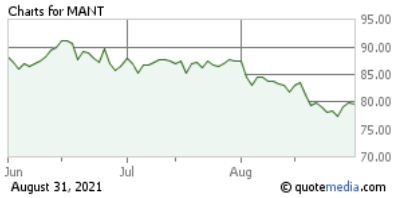
Research for MANT

Chart for MANT



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	683.49M	695.10M	2.66B	2.78B
# of Estimates	3	3	4	4
High Estimate	688.37M	706.10M	2.68B	2.83B
Low Estimate	674.40M	689.31M	2.65B	2.75B
Year ago Sales	636.20M	638.78M	2.52B	2.66B
Year over Year Growth Est.	7.43%	8.82%	5.69%	4.60%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.86	0.89	3.62	3.76
# of Estimates	6	4	6	6
Most Recent Consensus	0.83	0.92	3.62	3.74
High Estimate	0.91	0.92	3.69	3.86
Low Estimate	0.83	0.86	3.59	3.68
Year ago EPS	0.83	0.89	3.36	3.62
Year over Year Growth Est.	3.61%	0.00%	7.74%	3.91%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	6	1
Up Last 60 Days	0	0	6	1
Down Last 7 Days	0	0	0	0
Down Last 30 Days	4	4	0	2
Down Last 60 Days	4	4	0	2

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	0.86	0.89	3.62	3.76
7 Days Ago	0.86	0.89	3.62	3.76
30 Days Ago	0.87	0.92	3.53	3.75
60 Days Ago	0.87	0.92	3.53	3.75
90 Days Ago	0.87	0.91	3.54	3.75

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	0.86	0.89	3.62	3.78
Zacks Consensus Estimate	0.86	0.89	3.62	3.76
Earnings ESP	0.00%	0.00%	0.00%	0.55%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.99	0.88	0.89	0.83	NA

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Estimate	0.87	0.83	0.79	0.76	NA
Difference	0.12	0.05	0.10	0.07	0.09
Surprise	13.79%	6.02%	12.66%	9.21%	10.42%

Quarterly Estimates By Analyst

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McCormick & Company, Incorporated (MKC)

(Real Time Quote from BATS)

$85.84 USD

+0.39 (0.46%)

Updated Aug 31, 2021 02:23 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
C Value | D Growth | C Momentum | D VGM

Industry Rank:
Bottom 33% (170 out of 253)

Industry: Food - Miscellaneous

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McCormick & Company, Incorporated (MKC) Quote Overview » Estimates » McCormick & Company, Incorporated (MKC) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/5/21	Earnings ESP	-0.83%
Current Quarter	0.73	Current Year	3.03
EPS Last Quarter	0.69	Next Year	3.17
Last EPS Surprise	7.81%	EPS (TTM)	2.96

ABR	3.43	P/E (F1)	28.20

Growth Estimates	MKC	IND	S&P
Current Qtr (08/2021)	-5.19	5.17	186.03
Next Qtr (11/2021)	12.66	6.76	57.67
Current Year (11/2021)	7.07	9.90	55.37
Next Year (11/2022)	4.62	16.40	13.08
Past 5 Years	9.80	3.20	2.80
Next 5 Years	6.80	10.20	NA
PE	28.20	21.60	23.82
PEG Ratio	4.13	2.12	NA

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See Earnings Report Transcript

Premium Research for MKC

Zacks Rank	**Hold 3**
Zacks Industry Rank	Bottom 33% (170 out of 253)
Zacks Sector Rank	Bottom 31% (11 out of 16)
Style Scores	**C Value | D Growth | C Momentum | D VGM**
Earnings ESP	-0.83%
Research Reports for MKC	Analyst | Snapshot

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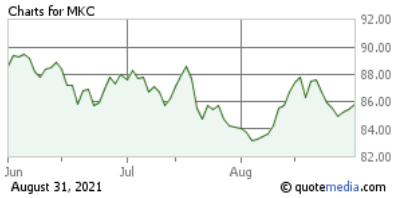
Research for MKC

Chart for MKC



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (8/2021)	Next Qtr (11/2021)	Current Year (11/2021)	Next Year (11/2022)
Zacks Consensus Estimate	1.55B	1.69B	6.27B	6.34B
# of Estimates	4	4	4	4
High Estimate	1.56B	1.73B	6.32B	6.49B
Low Estimate	1.53B	1.65B	6.23B	6.20B
Year ago Sales	1.43B	1.56B	5.60B	6.27B
Year over Year Growth Est.	8.17%	8.39%	12.01%	0.99%

Earnings Estimates

	Current Qtr (8/2021)	Next Qtr (11/2021)	Current Year (11/2021)	Next Year (11/2022)
Zacks Consensus Estimate	0.73	0.89	3.03	3.17
# of Estimates	5	4	5	6
Most Recent Consensus	0.74	0.89	NA	3.30
High Estimate	0.74	0.91	3.05	3.30
Low Estimate	0.69	0.87	3.02	3.08
Year ago EPS	0.77	0.79	2.83	3.03
Year over Year Growth Est.	-5.19%	12.66%	7.07%	4.73%

Agreement - Estimate Revisions

	Current Qtr (8/2021)	Next Qtr (11/2021)	Current Year (11/2021)	Next Year (11/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	0	0
Up Last 60 Days	1	1	3	2
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	2	2	0	1

Magnitude - Consensus Estimate Trend

	Current Qtr (8/2021)	Next Qtr (11/2021)	Current Year (11/2021)	Next Year (11/2022)
Current	0.73	0.89	3.03	3.17
7 Days Ago	0.73	0.89	3.03	3.17
30 Days Ago	0.73	0.89	3.03	3.15
60 Days Ago	0.74	0.90	3.02	3.12
90 Days Ago	0.77	0.91	3.01	3.11

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (8/2021)	Next Qtr (11/2021)	Current Year (11/2021)	Next Year (11/2022)
Most Accurate Estimate	0.72	0.91	3.04	3.19
Zacks Consensus Estimate	0.73	0.89	3.03	3.17
Earnings ESP	-0.83%	2.83%	0.33%	0.53%

Surprise - Reported Earnings History

	Quarter Ending (5/2021)	Quarter Ending (2/2021)	Quarter Ending (11/2020)	Quarter Ending (8/2020)	Average Surprise
Reported	0.69	0.72	0.79	0.77	NA

	Quarter Ending (5/2021)	Quarter Ending (2/2021)	Quarter Ending (11/2020)	Quarter Ending (8/2020)	Average Surprise
Estimate	0.64	0.57	0.81	0.76	NA
Difference	0.05	0.15	-0.02	0.01	0.05
Surprise	7.81%	26.32%	-2.47%	0.66%	8.08%

Quarterly Estimates By Analyst

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Monster Beverage Corporation (MNST)
(Real Time Quote from BATS)

$97.31 USD
-0.50 (-0.51%)
Updated Aug 31, 2021 02:26 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold
Style Scores:
D Value | D Growth | D Momentum | D VGM
Industry Rank:
Top 47% (119 out of 253)
Industry: Beverages - Soft drinks

View All Zacks #1 Ranked Stocks
Monster Beverage Corporation (MNST) Quote Overview » Estimates » Monster Beverage Corporation (MNST) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/4/21	Earnings ESP	0.00%
Current Quarter	0.66	Current Year	2.62
EPS Last Quarter	0.75	Next Year	3.01
Last EPS Surprise	11.94%	EPS (TTM)	2.61
ABR	1.57	P/E (F1)	37.30

Growth Estimates	MNST	IND	S&P
Current Qtr (09/2021)	1.54	44.47	186.03
Next Qtr (12/2021)	0.00	63.14	57.67
Current Year (12/2021)	10.55	26.70	55.37
Next Year (12/2022)	14.89	14.00	13.08
Past 5 Years	16.80	-4.80	2.80
Next 5 Years	14.70	12.90	NA
PE	37.30	4.30	23.82
PEG Ratio	2.53	0.33	NA

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Premium Research for MNST

Zacks Rank	▲ Hold 3
Zacks Industry Rank	Top 47% (119 out of 253)
Zacks Sector Rank	Bottom 31% (11 out of 16)
Style Scores	D Value | D Growth | D Momentum | D VGM
Earnings ESP	0.00%
Research Reports for MNST	Analyst | Snapshot

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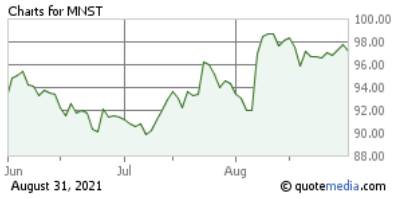
Research for MNST

Chart for MNST



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Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.38B	1.30B	5.41B	5.99B
# of Estimates	5	5	6	6
High Estimate	1.40B	1.33B	5.48B	6.17B
Low Estimate	1.34B	1.28B	5.34B	5.91B
Year ago Sales	1.25B	1.20B	4.60B	5.41B
Year over Year Growth Est.	10.97%	8.93%	17.58%	10.81%

Earnings Estimates

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# of Estimates	8	6	8	8
Most Recent Consensus	0.67	0.67	2.69	3.05
High Estimate	0.68	0.67	2.70	3.20
Low Estimate	0.63	0.55	2.54	2.86
Year ago EPS	0.65	0.62	2.37	2.62
Year over Year Growth Est.	1.54%	0.00%	10.55%	14.84%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	1	5	5
Up Last 60 Days	0	1	5	5
Down Last 7 Days	0	0	0	0
Down Last 30 Days	6	3	2	2
Down Last 60 Days	6	3	2	3

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	0.66	0.62	2.62	3.01
7 Days Ago	0.66	0.62	2.62	3.01
30 Days Ago	0.70	0.63	2.58	2.99
60 Days Ago	0.70	0.63	2.59	2.99
90 Days Ago	0.70	0.63	2.59	2.99

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	0.66	0.61	2.61	3.01
Zacks Consensus Estimate	0.66	0.62	2.62	3.01
Earnings ESP	0.00%	-1.48%	-0.37%	-0.14%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.75	0.59	0.62	0.65	NA
Estimate	0.67	0.61	0.59	0.63	NA
Difference	0.08	-0.02	0.03	0.02	0.03
Surprise	11.94%	-3.28%	5.08%	3.17%	4.23%

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Altria Group, Inc. (MO)

(Real Time Quote from BATS)

$49.94 USD

+0.24 (0.48%)

Updated Aug 31, 2021 10:34 AM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold 3
Style Scores:
B Value | C Growth | F Momentum | C VGM
Industry Rank:
Top 41% (103 out of 253)
Industry: Tobacco

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Altria Group, Inc. (MO) Quote Overview » Estimates » Altria Group, Inc. (MO) Detailed Estimates

Detailed Estimates

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Estimates

Next Report Date	10/29/21	Earnings ESP	-0.62%
Current Quarter	1.27	Current Year	4.62
EPS Last Quarter	1.23	Next Year	4.85
Last EPS Surprise	5.13%	EPS (TTM)	4.48
ABR	1.77	P/E (F1)	10.77

Growth Estimates	MO	IND	S&P
Current Qtr (09/2021)	6.72	152.74	186.03
Next Qtr (12/2021)	6.06	-8.26	57.67
Current Year (12/2021)	5.96	6.50	55.37
Next Year (12/2022)	4.98	3.00	13.08
Past 5 Years	9.20	3.90	2.80
Next 5 Years	4.00	5.60	NA
PE	10.77	7.10	23.82
PEG Ratio	2.69	1.27	NA

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Premium Research for MO

Zacks Rank	**Hold 3**
Zacks Industry Rank	Top 41% (103 out of 253)
Zacks Sector Rank	Bottom 31% (11 out of 16)
Style Scores	**B Value | C Growth | F Momentum | C VGM**
Earnings ESP	-0.62%
Research Reports for MO	Analyst | Snapshot

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Research for MO

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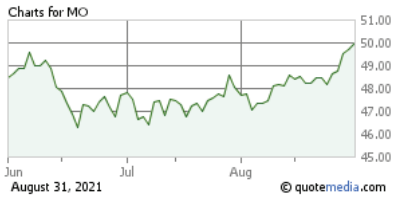
Chart for MO



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Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	5.82B	5.12B	21.32B	21.82B
# of Estimates	4	4	4	5
High Estimate	5.93B	5.31B	21.53B	23.08B
Low Estimate	5.76B	4.95B	21.16B	21.03B
Year ago Sales	5.68B	5.06B	20.84B	21.32B
Year over Year Growth Est.	2.56%	1.33%	2.30%	2.35%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.27	1.05	4.62	4.85
# of Estimates	7	5	6	8
Most Recent Consensus	1.27	1.03	4.60	4.83
High Estimate	1.31	1.08	4.63	4.93
Low Estimate	1.24	1.03	4.60	4.75
Year ago EPS	1.19	0.99	4.36	4.62
Year over Year Growth Est.	6.72%	6.06%	5.96%	5.03%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	2	2
Up Last 60 Days	3	0	6	3
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	1	4	0	2

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	1.27	1.05	4.62	4.85
7 Days Ago	1.27	1.05	4.62	4.85
30 Days Ago	1.28	1.05	4.61	4.83
60 Days Ago	1.28	1.09	4.58	4.84
90 Days Ago	1.28	1.09	4.58	4.84

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	1.27	1.03	4.61	4.83
Zacks Consensus Estimate	1.27	1.05	4.62	4.85
Earnings ESP	-0.62%	-2.28%	-0.18%	-0.36%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	1.23	1.07	0.99	1.19	NA
Estimate	1.17	1.04	1.01	1.15	NA
Difference	0.06	0.03	-0.02	0.04	0.03
Surprise	5.13%	2.88%	-1.98%	3.48%	2.38%

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MSCI Inc (MSCI)

(Real Time Quote from BATS)

$635.90 USD

-2.53 (-0.40%)

Updated Aug 31, 2021 02:28 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold 3

Style Scores:
D Value | B Growth | C Momentum | C VGM

Industry Rank:
Top 34% (86 out of 253)

Industry: Business - Software Services

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Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/26/21	Earnings ESP	0.00%

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ABR	2.00	P/E (F1)	65.48

Growth Estimates	MSCI	IND	S&P
Current Qtr (09/2021)	8.64	27.29	186.03
Next Qtr (12/2021)	26.53	15.71	57.67
Current Year (12/2021)	24.52	1.00	55.37
Next Year (12/2022)	12.82	6.50	13.08
Past 5 Years	25.80	8.60	2.80
Next 5 Years	NA	10.10	NA
PE	65.48	30.30	23.82
PEG Ratio	NA	3.00	NA

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Premium Research for MSCI

Zacks Rank	▼ Hold 3
Zacks Industry Rank	Top 34% (86 out of 253)
Zacks Sector Rank	Bottom 25% (12 out of 16)
Style Scores	D Value | B Growth | C Momentum | C VGM
Earnings ESP	0.00%
Research Reports for MSCI	Analyst | Snapshot

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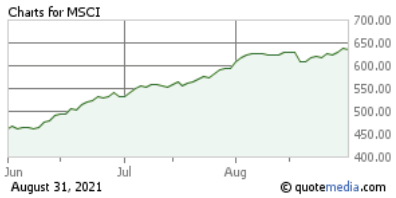

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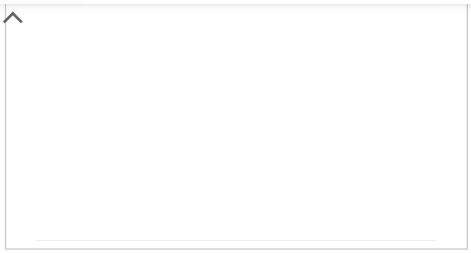

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	502.05M	516.38M	1.99B	2.20B
# of Estimates	4	4	5	5
High Estimate	506.00M	519.00M	2.00B	2.22B
Low Estimate	496.58M	512.10M	1.98B	2.17B
Year ago Sales	425.33M	443.66M	1.70B	1.99B
Year over Year Growth Est.	18.04%	16.39%	17.52%	10.54%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	2.39	2.48	9.75	11.00
# of Estimates	5	5	5	5
Most Recent Consensus	2.43	2.53	9.74	11.10
High Estimate	2.43	2.53	9.81	11.12
Low Estimate	2.32	2.43	9.69	10.90
Year ago EPS	2.20	1.96	7.83	9.75
Year over Year Growth Est.	8.64%	26.53%	24.52%	12.86%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	0	0
Up Last 60 Days	2	3	4	4
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	1	1	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	2.39	2.48	9.75	11.00
7 Days Ago	2.39	2.48	9.75	11.00
30 Days Ago	2.39	2.48	9.75	11.00
60 Days Ago	2.38	2.46	9.60	10.85
90 Days Ago	2.38	2.46	9.60	10.80

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Most Accurate Estimate	2.39	2.48	9.75	11.00
Zacks Consensus Estimate	2.39	2.48	9.75	11.00
Earnings ESP	0.00%	0.00%	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	2.45	2.46	1.96	2.20	NA
Estimate	2.31	2.29	1.98	1.83	NA
Difference	0.14	0.17	-0.02	0.37	0.17
Surprise	6.06%	7.42%	-1.01%	20.22%	8.17%

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Motorola Solutions, Inc. (MSI)

(Real Time Quote from BATS)

$243.76 USD

-0.80 (-0.33%)

Updated Aug 31, 2021 02:26 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
C Value | C Growth | B Momentum | C VGM

Industry Rank:
Top 27% (69 out of 253)

Industry: Wireless Equipment

View All Zacks #1 Ranked Stocks

Motorola Solutions, Inc. (MSI) Quote Overview » Estimates » Motorola Solutions, Inc. (MSI) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/4/21	Earnings ESP	1.13%
Current Quarter	2.10	Current Year	8.96
EPS Last Quarter	2.07	Next Year	9.84
Last EPS Surprise	7.81%	EPS (TTM)	8.75
ABR	1.45	P/E (F1)	27.30

Growth Estimates	MSI	IND	S&P
Current Qtr (09/2021)	7.69	-8.38	186.03
Next Qtr (12/2021)	1.75	616.21	57.67
Current Year (12/2021)	16.51	13.30	55.37
Next Year (12/2022)	9.82	27.80	13.08
Past 5 Years	15.90	0.80	2.80
Next 5 Years	9.00	14.30	NA
PE	27.30	144.30	23.82
PEG Ratio	3.03	10.09	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for MSI

Zacks Rank	▼ Hold 3
Zacks Industry Rank	Top 27% (69 out of 253)
Zacks Sector Rank	Bottom 25% (12 out of 16)
Style Scores	C Value | C Growth | B Momentum | C VGM
Earnings ESP	1.13%
Research Reports for MSI	Analyst | Snapshot

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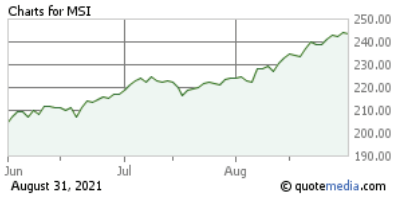
Research for MSI

Chart for MSI



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	2.06B	2.35B	8.14B	8.60B
# of Estimates	4	5	6	6
High Estimate	2.07B	2.38B	8.17B	8.73B
Low Estimate	2.05B	2.31B	8.07B	8.49B
Year ago Sales	1.87B	2.27B	7.41B	8.14B
Year over Year Growth Est.	10.30%	3.36%	9.73%	5.71%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	2.10	2.91	8.96	9.84
# of Estimates	7	6	8	8
Most Recent Consensus	2.15	2.88	9.13	9.91
High Estimate	2.16	3.05	9.13	10.16
Low Estimate	1.96	2.84	8.78	9.60
Year ago EPS	1.95	2.86	7.69	8.96
Year over Year Growth Est.	7.69%	1.75%	16.51%	9.86%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	3	2	7	7
Up Last 60 Days	3	2	7	7
Down Last 7 Days	0	0	0	0
Down Last 30 Days	1	3	0	0
Down Last 60 Days	1	3	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	2.10	2.91	8.96	9.84
7 Days Ago	2.10	2.91	8.96	9.84
30 Days Ago	2.09	2.91	8.81	9.74
60 Days Ago	2.09	2.91	8.81	9.74
90 Days Ago	2.09	2.91	8.81	9.74

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	2.13	2.88	8.99	9.86
Zacks Consensus Estimate	2.10	2.91	8.96	9.84
Earnings ESP	1.13%	-1.00%	0.29%	0.14%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	2.07	1.87	2.86	1.95	NA

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Estimate	1.92	1.62	2.74	1.76	NA
Difference	0.15	0.25	0.12	0.19	0.18
Surprise	7.81%	15.43%	4.38%	10.80%	9.61%

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Northrop Grumman Corporation (NOC)

(Real Time Quote from BATS)

$365.18 USD

-2.44 (-0.66%)

Updated Aug 31, 2021 02:28 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
A Value | B Growth | D Momentum | B VGM

Industry Rank:
Bottom 29% (180 out of 253)

Industry: Aerospace - Defense

View All Zacks #1 Ranked Stocks
Northrop Grumman Corporation (NOC) Quote Overview » Estimates » Northrop Grumman Corporation (NOC) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/28/21	Earnings ESP	1.16%
Current Quarter	5.89	Current Year	24.80
EPS Last Quarter	6.42	Next Year	25.64
Last EPS Surprise	11.65%	EPS (TTM)	25.47

ABR	1.64	P/E (F1)	14.82

Growth Estimates	NOC	IND	S&P
Current Qtr (09/2021)	0.00	46.00	186.03
Next Qtr (12/2021)	-8.95	336.21	57.67
Current Year (12/2021)	4.86	14.60	55.37
Next Year (12/2022)	3.39	20.60	13.08
Past 5 Years	19.20	7.30	2.80
Next 5 Years	9.00	11.30	NA
PE	14.82	-59.20	23.82
PEG Ratio	1.65	-5.24	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for NOC

Zacks Rank	▼ Hold 3
Zacks Industry Rank	Bottom 29% (180 out of 253)
Zacks Sector Rank	Bottom 38% (10 out of 16)
Style Scores	A Value | B Growth | D Momentum | B VGM
Earnings ESP	1.16%
Research Reports for NOC	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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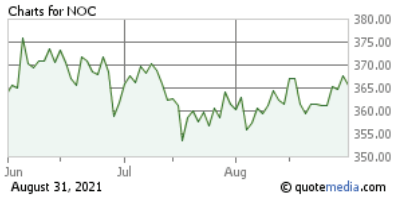
Research for NOC

Chart for NOC



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	8.82B	9.03B	36.08B	38.14B
# of Estimates	4	4	5	5
High Estimate	8.90B	9.17B	36.27B	38.43B
Low Estimate	8.73B	8.92B	35.60B	37.91B
Year ago Sales	9.08B	10.21B	36.80B	36.08B
Year over Year Growth Est.	-2.95%	-11.54%	-1.95%	5.70%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	5.89	6.00	24.80	25.64
# of Estimates	7	5	7	7
Most Recent Consensus	5.83	5.87	24.70	25.80
High Estimate	6.14	6.11	25.25	28.10
Low Estimate	5.63	5.87	24.45	24.15
Year ago EPS	5.89	6.59	23.65	24.80
Year over Year Growth Est.	0.00%	-8.95%	4.86%	3.39%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	3	2
Up Last 60 Days	0	1	6	4
Down Last 7 Days	0	0	0	0
Down Last 30 Days	2	2	0	1
Down Last 60 Days	4	4	1	1

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	5.89	6.00	24.80	25.64
7 Days Ago	5.89	6.00	24.80	25.64
30 Days Ago	5.89	6.05	24.63	25.61
60 Days Ago	6.04	6.18	25.49	25.51
90 Days Ago	6.03	6.20	25.37	25.44

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	5.96	5.98	24.98	25.45
Zacks Consensus Estimate	5.89	6.00	24.80	25.64
Earnings ESP	1.16%	-0.40%	0.73%	-0.75%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	6.42	6.57	6.59	5.89	NA

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Estimate	5.75	5.48	5.70	5.60	NA
Difference	0.67	1.09	0.89	0.29	0.74
Surprise	11.65%	19.89%	15.61%	5.18%	13.08%

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Old Dominion Freight Line, Inc. (ODFL)
(Real Time Quote from BATS)

$288.66 USD

-5.18 (-1.76%)

Updated Aug 31, 2021 02:28 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
D Value | A Growth | C Momentum | C VGM

Industry Rank:
Top 31% (78 out of 253)

Industry: Transportation - Truck

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Old Dominion Freight Line, Inc. (ODFL) Quote Overview » Estimates » Old Dominion Freight Line, Inc. (ODFL) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/26/21	Earnings ESP	2.15%
Current Quarter	2.33	Current Year	8.46
EPS Last Quarter	2.31	Next Year	9.59
Last EPS Surprise	6.45%	EPS (TTM)	7.33
ABR	2.27	P/E (F1)	34.74

Growth Estimates	ODFL	IND	S&P
Current Qtr (09/2021)	36.26	42.55	186.03
Next Qtr (12/2021)	31.68	30.86	57.67
Current Year (12/2021)	48.94	39.50	55.37
Next Year (12/2022)	13.36	7.70	13.08
Past 5 Years	19.80	7.70	2.80
Next 5 Years	22.70	18.70	NA
PE	34.74	18.30	23.82
PEG Ratio	1.53	0.98	NA

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Premium Research for ODFL

Zacks Rank	Hold 3
Zacks Industry Rank	Top 31% (78 out of 253)
Zacks Sector Rank	Top 19% (3 out of 16)
Style Scores	D Value | A Growth | C Momentum | C VGM
Earnings ESP	2.15%
Research Reports for ODFL	Analyst | Snapshot

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Research for ODFL

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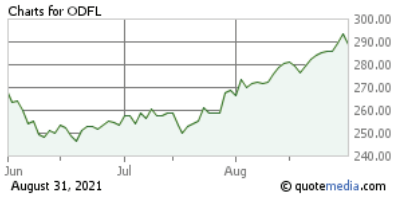

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Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.34B	1.29B	5.10B	5.57B
# of Estimates	3	3	5	5
High Estimate	1.38B	1.32B	5.15B	5.65B
Low Estimate	1.32B	1.25B	5.01B	5.51B
Year ago Sales	1.06B	1.07B	4.02B	5.10B
Year over Year Growth Est.	27.10%	20.29%	27.06%	9.21%

Earnings Estimates

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# of Estimates	6	4	8	8
Most Recent Consensus	2.40	2.19	8.60	9.60
High Estimate	2.40	2.22	8.60	10.00
Low Estimate	2.25	1.98	8.25	9.20
Year ago EPS	1.71	1.61	5.68	8.46
Year over Year Growth Est.	36.26%	31.68%	48.94%	13.33%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	2	2	3	3
Up Last 60 Days	4	4	7	7
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	0	0	1	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	2.33	2.12	8.46	9.59
7 Days Ago	2.33	2.12	8.46	9.59
30 Days Ago	2.31	2.07	8.36	9.46
60 Days Ago	2.09	1.93	7.90	8.97
90 Days Ago	2.09	1.91	7.82	8.90

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	2.38	2.21	8.55	9.70
Zacks Consensus Estimate	2.33	2.12	8.46	9.59
Earnings ESP	2.15%	4.26%	1.04%	1.15%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	2.31	1.70	1.61	1.71	NA
Estimate	2.17	1.58	1.57	1.51	NA
Difference	0.14	0.12	0.04	0.20	0.13
Surprise	6.45%	7.59%	2.55%	13.25%	7.46%

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Zacks Research
Detailed Estimates

PerkinElmer, Inc. (PKI)

(Real Time Quote from BATS)

$184.24 USD

-3.71 (-1.97%)

Updated Aug 31, 2021 02:29 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
B Value | B Growth | D Momentum | B VGM

Industry Rank:
Top 47% (119 out of 253)

Industry: Instruments - Scientific

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PerkinElmer, Inc. (PKI) Quote Overview » Estimates » PerkinElmer, Inc. (PKI) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/27/21	Earnings ESP	0.00%
Current Quarter	1.65	Current Year	9.91
EPS Last Quarter	2.83	Next Year	6.06
Last EPS Surprise	17.43%	EPS (TTM)	12.60
ABR	2.13	P/E (F1)	18.97

Growth Estimates	PKI	IND	S&P
Current Qtr (09/2021)	-21.05	13.76	186.03
Next Qtr (12/2021)	-56.82	-18.33	57.67
Current Year (12/2021)	19.40	26.80	55.37
Next Year (12/2022)	-38.85	7.20	13.08
Past 5 Years	26.30	9.50	2.80
Next 5 Years	37.90	20.20	NA
PE	18.97	31.00	23.82
PEG Ratio	0.50	1.53	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for PKI

Zacks Rank	**Hold 3**
Zacks Industry Rank	Top 47% (119 out of 253)
Zacks Sector Rank	Bottom 25% (12 out of 16)
Style Scores	**B Value | B Growth | D Momentum | B VGM**
Earnings ESP	0.00%
Research Reports for PKI	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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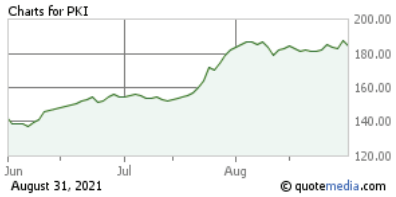
Research for PKI

Chart for PKI



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.00B	1.03B	4.57B	3.92B
# of Estimates	4	4	4	4
High Estimate	1.01B	1.05B	4.59B	4.21B
Low Estimate	1.00B	1.01B	4.55B	3.70B
Year ago Sales	964.03M	1.35B	3.78B	4.57B
Year over Year Growth Est.	4.17%	-23.78%	20.92%	-14.32%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.65	1.71	9.91	6.06
# of Estimates	6	4	6	6
Most Recent Consensus	1.62	1.71	9.86	6.28
High Estimate	1.76	1.75	10.01	6.70
Low Estimate	1.58	1.66	9.77	5.64
Year ago EPS	2.09	3.96	8.30	9.91
Year over Year Growth Est.	-21.05%	-56.82%	19.40%	-38.80%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	0	0
Up Last 60 Days	1	3	6	4
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	3	1	0	2

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	1.65	1.71	9.91	6.06
7 Days Ago	1.65	1.71	9.91	6.06
30 Days Ago	1.65	1.71	9.91	6.06
60 Days Ago	1.71	1.62	9.51	5.91
90 Days Ago	1.72	1.54	9.30	6.04

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	1.65	1.71	9.91	6.06
Zacks Consensus Estimate	1.65	1.71	9.91	6.06
Earnings ESP	0.00%	0.00%	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	2.83	3.72	3.96	2.09	NA

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Estimate	2.41	3.03	3.61	1.42	NA
Difference	0.42	0.69	0.35	0.67	0.53
Surprise	17.43%	22.77%	9.70%	47.18%	24.27%

Quarterly Estimates By Analyst

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Annual Estimates By Analyst

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Post Holdings, Inc. (POST)
(Real Time Quote from BATS)

$111.58 USD

-0.35 (-0.31%)

Updated Aug 31, 2021 02:29 PM ET

Add to portfo Trades from $1

Zacks Rank:
5-Strong Sell

Style Scores:
B Value | B Growth | B Momentum | B VGM

Industry Rank:
Bottom 33% (170 out of 253)

Industry: Food - Miscellaneous

View All Zacks #1 Ranked Stocks
Post Holdings, Inc. (POST) Quote Overview » Estimates » Post Holdings, Inc. (POST) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/18/21	Earnings ESP	0.00%
Current Quarter	0.87	Current Year	2.81
EPS Last Quarter	0.93	Next Year	4.40
Last EPS Surprise	-1.06%	EPS (TTM)	2.52
ABR	1.33	P/E (F1)	39.87

Growth Estimates	POST	IND	S&P
Current Qtr (09/2021)	50.00	5.17	186.03
Next Qtr (12/2021)	31.94	6.76	57.67
Current Year (09/2021)	3.69	9.90	55.37
Next Year (09/2022)	56.58	16.40	13.08
Past 5 Years	23.50	3.20	2.80
Next 5 Years	NA	10.20	NA
PE	39.87	21.60	23.82
PEG Ratio	NA	2.12	NA

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Premium Research for POST

Zacks Rank	Strong Sell 5
Zacks Industry Rank	Bottom 33% (170 out of 253)
Zacks Sector Rank	Bottom 31% (11 out of 16)
Style Scores	B Value | B Growth | B Momentum | B VGM
Earnings ESP	0.00%
Research Reports for POST	Analyst | Snapshot

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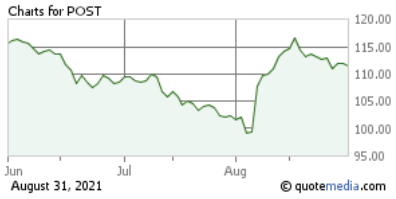
Research for POST

Chart for POST



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (9/2021)	Next Year (9/2022)
Zacks Consensus Estimate	1.67B	1.65B	6.20B	6.67B
# of Estimates	4	3	4	4
High Estimate	1.75B	1.66B	6.28B	6.76B
Low Estimate	1.60B	1.65B	6.13B	6.44B
Year ago Sales	1.41B	1.46B	5.70B	6.20B
Year over Year Growth Est.	18.10%	13.46%	8.76%	7.59%

Earnings Estimates

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# of Estimates	4	4	4	4
Most Recent Consensus	0.79	0.82	2.75	4.50
High Estimate	1.15	1.18	3.06	5.25
Low Estimate	0.62	0.75	2.57	3.59
Year ago EPS	0.58	0.72	2.71	2.81
Year over Year Growth Est.	50.00%	31.94%	3.69%	56.76%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (9/2021)	Next Year (9/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	0	1
Up Last 60 Days	0	0	0	0
Down Last 7 Days	0	0	0	0
Down Last 30 Days	4	4	4	3
Down Last 60 Days	4	4	4	3

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (9/2021)	Next Year (9/2022)
Current	0.87	0.95	2.81	4.40
7 Days Ago	0.87	0.95	2.81	4.40
30 Days Ago	1.10	1.13	3.05	4.89
60 Days Ago	1.11	1.14	3.07	4.93
90 Days Ago	1.13	1.14	3.09	4.94

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (9/2021)	Next Year (9/2022)
Most Accurate Estimate	0.87	0.95	2.81	4.40
Zacks Consensus Estimate	0.87	0.95	2.81	4.40
Earnings ESP	0.00%	0.00%	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.93	0.29	0.72	0.58	NA
Estimate	0.94	0.55	0.64	0.74	NA
Difference	-0.01	-0.26	0.08	-0.16	-0.09
Surprise	-1.06%	-47.27%	12.50%	-21.62%	-14.36%

Quarterly Estimates By Analyst

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RLI Corp. (RLI)
(Real Time Quote from BATS)

$109.54 USD

-0.03 (-0.03%)

Updated Aug 31, 2021 02:33 PM ET

Add to portfo Trades from $1

Zacks Rank:
2-Buy

Style Scores:
D Value | C Growth | B Momentum | D VGM

Industry Rank:
Top 20% (51 out of 253)

Industry: Insurance - Property and Casualty

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RLI Corp. (RLI) Quote Overview » Estimates » RLI Corp. (RLI) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/20/21	Earnings ESP	0.00%

ABR	2.33	P/E (F1)	32.47

Growth Estimates	RLI	IND	S&P
Current Qtr (09/2021)	57.14	-79.01	186.03
Next Qtr (12/2021)	-8.00	-83.62	57.67
Current Year (12/2021)	30.50	18.00	55.37
Next Year (12/2022)	-1.48	7.80	13.08
Past 5 Years	1.50	1.10	2.80
Next 5 Years	NA	9.20	NA
PE	32.47	-23.60	23.82
PEG Ratio	NA	-2.57	NA

Learn More About Estimate Research

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Premium Research for RLI

Zacks Rank	▼ Buy 2
Zacks Industry Rank	Top 20% (51 out of 253)
Zacks Sector Rank	Top 25% (4 out of 16)
Style Scores	D Value | C Growth | B Momentum | D VGM
Earnings ESP	0.00%
Research Reports for RLI	Analyst | Snapshot

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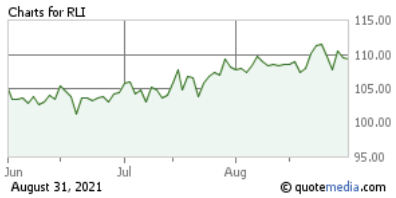
Research for RLI

Chart for RLI



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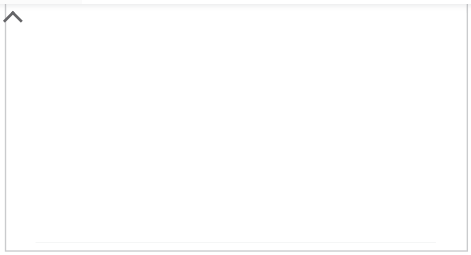

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	267.34M	275.77M	1.05B	1.15B
# of Estimates	1	1	1	1
High Estimate	267.34M	275.77M	1.05B	1.15B
Low Estimate	267.34M	275.77M	1.05B	1.15B
Year ago Sales	233.17M	241.46M	933.64M	1.05B
Year over Year Growth Est.	14.65%	14.21%	12.01%	10.42%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.66	0.69	3.38	3.33
# of Estimates	1	1	2	2
Most Recent Consensus	0.66	0.69	3.45	3.20
High Estimate	0.66	0.69	3.45	3.45
Low Estimate	0.66	0.69	3.30	3.20
Year ago EPS	0.42	0.75	2.59	3.38
Year over Year Growth Est.	57.14%	-8.00%	30.50%	-1.48%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	1	1
Up Last 60 Days	0	0	2	2
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	1	1	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	0.66	0.69	3.38	3.33
7 Days Ago	0.66	0.69	3.38	3.33
30 Days Ago	0.66	0.69	3.15	3.23
60 Days Ago	0.68	0.71	2.98	3.15
90 Days Ago	0.68	0.71	2.98	3.15

Most Accurate Estimate	0.66	0.69	3.45	3.20
Zacks Consensus Estimate	0.66	0.69	3.38	3.33
Earnings ESP	0.00%	0.00%	2.22%	-3.76%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	1.09	0.87	0.75	0.42	NA
Estimate	0.73	0.74	0.56	-0.10	NA
Difference	0.36	0.13	0.19	0.52	0.30
Surprise	49.32%	17.57%	33.93%	520.00%	155.21%

Quarterly Estimates By Analyst

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Rollins, Inc. (ROL)
(Real Time Quote from BATS)

$38.93 USD

-0.23 (-0.59%)

Updated Aug 31, 2021 02:33 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
D Value | A Growth | D Momentum | C VGM

Industry Rank:
Top 47% (119 out of 253)

Industry: Building Products - Maintenance Service

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Rollins, Inc. (ROL) Quote Overview » Estimates » Rollins, Inc. (ROL) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/27/21	Earnings ESP	0.00%
Current Quarter	0.20	Current Year	0.69
EPS Last Quarter	0.20	Next Year	0.74
Last EPS Surprise	11.11%	EPS (TTM)	0.64
ABR	2.33	P/E (F1)	56.48

Growth Estimates	ROL	IND	S&P
Current Qtr (09/2021)	17.65	25.69	186.03
Next Qtr (12/2021)	15.38	-2.20	57.67
Current Year (12/2021)	27.78	18.60	55.37
Next Year (12/2022)	7.25	23.10	13.08
Past 5 Years	11.60	9.80	2.80
Next 5 Years	NA	12.00	NA
PE	56.48	19.80	23.82
PEG Ratio	NA	1.65	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for ROL

Zacks Rank	▼ Hold 3
Zacks Industry Rank	Top 47% (119 out of 253)
Zacks Sector Rank	Bottom 13% (14 out of 16)
Style Scores	D Value | A Growth | D Momentum | C VGM
Earnings ESP	0.00%
Research Reports for ROL	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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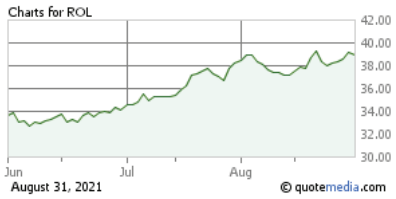
Research for ROL

Chart for ROL



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	641.80M	580.60M	2.41B	2.56B
# of Estimates	2	2	3	3
High Estimate	643.00M	585.00M	2.43B	2.58B
Low Estimate	640.60M	576.20M	2.39B	2.52B
Year ago Sales	583.70M	536.29M	2.16B	2.41B
Year over Year Growth Est.	9.95%	8.26%	11.35%	6.17%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.20	0.15	0.69	0.74
# of Estimates	3	3	3	3
Most Recent Consensus	0.20	0.15	0.70	0.75
High Estimate	0.20	0.15	0.70	0.76
Low Estimate	0.20	0.14	0.69	0.72
Year ago EPS	0.17	0.13	0.54	0.69
Year over Year Growth Est.	17.65%	15.38%	27.78%	6.28%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	0	0
Up Last 60 Days	3	1	3	3
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	0	0	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	0.20	0.15	0.69	0.74
7 Days Ago	0.20	0.15	0.69	0.74
30 Days Ago	0.20	0.15	0.69	0.74
60 Days Ago	0.19	0.14	0.65	0.70
90 Days Ago	0.19	0.14	0.65	0.70

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	0.20	0.15	0.69	0.74
Zacks Consensus Estimate	0.20	0.15	0.69	0.74
Earnings ESP	0.00%	0.00%	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.20	0.14	0.13	0.17	NA
Estimate	0.18	0.11	0.11	0.15	NA
Difference	0.02	0.03	0.02	0.02	0.02
Surprise	11.11%	27.27%	18.18%	13.04%	17.40%

Quarterly Estimates By Analyst

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Zacks Research
Detailed Estimates

The SherwinWilliams Company (SHW)

(Real Time Quote from BATS)

$303.48 USD

-1.83 (-0.60%)

Updated Aug 31, 2021 02:50 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
C Value | B Growth | C Momentum | B VGM

Industry Rank:
Bottom 3% (246 out of 253)

Industry: Paints and Related Products

View All Zacks #1 Ranked Stocks

The SherwinWilliams Company (SHW) Quote Overview » Estimates » The SherwinWilliams Company (SHW) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/26/21	Earnings ESP	-2.08%
Current Quarter	2.68	Current Year	9.38
EPS Last Quarter	2.65	Next Year	10.79
Last EPS Surprise	-1.12%	EPS (TTM)	9.17

ABR	1.44	P/E (F1)	32.53

Growth Estimates	SHW	IND	S&P
Current Qtr (09/2021)	-2.90	-17.96	186.03
Next Qtr (12/2021)	15.88	-1.09	57.67
Current Year (12/2021)	14.53	15.60	55.37
Next Year (12/2022)	15.03	12.80	13.08
Past 5 Years	17.70	14.10	2.80
Next 5 Years	12.60	8.70	NA
PE	32.53	29.70	23.82
PEG Ratio	2.59	3.41	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for SHW

Zacks Rank	**Hold 3**
Zacks Industry Rank	Bottom 3% (246 out of 253)
Zacks Sector Rank	Top 50% (8 out of 16)
Style Scores	**C Value | B Growth | C Momentum | B VGM**
Earnings ESP	-2.08%
Research Reports for SHW	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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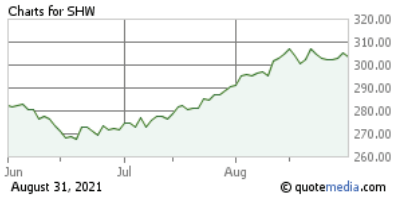
Research for SHW

Chart for SHW



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	5.50B	4.83B	20.44B	21.71B
# of Estimates	3	3	6	6
High Estimate	5.51B	4.90B	20.60B	22.11B
Low Estimate	5.49B	4.76B	20.28B	21.34B
Year ago Sales	5.12B	4.49B	18.36B	20.44B
Year over Year Growth Est.	7.35%	7.61%	11.32%	6.21%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	2.68	1.97	9.38	10.79
# of Estimates	7	6	9	8
Most Recent Consensus	2.62	1.98	9.30	10.66
High Estimate	2.80	2.04	9.45	11.75
Low Estimate	2.58	1.89	9.30	10.55
Year ago EPS	2.76	1.70	8.19	9.38
Year over Year Growth Est.	-2.90%	15.88%	14.53%	14.93%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	1	1	1
Up Last 60 Days	0	4	1	4
Down Last 7 Days	0	0	0	0
Down Last 30 Days	1	0	0	0
Down Last 60 Days	5	1	6	1

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	2.68	1.97	9.38	10.79
7 Days Ago	2.68	1.97	9.38	10.79
30 Days Ago	2.69	1.94	9.38	10.78
60 Days Ago	2.85	1.89	9.48	10.76
90 Days Ago	2.85	1.87	9.26	10.36

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	2.62	1.98	9.30	10.66
Zacks Consensus Estimate	2.68	1.97	9.38	10.79
Earnings ESP	-2.08%	0.34%	-0.90%	-1.16%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	2.65	2.06	1.70	2.76	NA

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Estimate	2.68	1.65	1.62	2.60	NA
Difference	-0.03	0.41	0.08	0.16	0.16
Surprise	-1.12%	24.85%	4.95%	6.28%	8.74%

Quarterly Estimates By Analyst

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Selective Insurance Group, Inc. (SIGI)

(Real Time Quote from BATS)

$84.04 USD

+0.02 (0.02%)

Updated Aug 31, 2021 10:09 AM ET

Add to portfo Trades from $1

Zacks Rank:
2-Buy

Style Scores:
B Value | C Growth | A Momentum | A VGM

Industry Rank:
Top 20% (51 out of 253)

Industry: Insurance - Property and Casualty

View All Zacks #1 Ranked Stocks

Selective Insurance Group, Inc. (SIGI) Quote Overview » Estimates » Selective Insurance Group, Inc. (SIGI) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

ABR	3.00	P/E (F1)	13.34

Growth Estimates	SIGI	IND	S&P
Current Qtr (09/2021)	33.02	-79.01	186.03
Next Qtr (12/2021)	-28.26	-83.62	57.67
Current Year (12/2021)	51.81	18.00	55.37
Next Year (12/2022)	-13.49	7.80	13.08
Past 5 Years	10.20	1.10	2.80
Next 5 Years	12.40	9.20	NA
PE	13.34	-23.60	23.82
PEG Ratio	1.07	-2.57	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for SIGI

Zacks Rank	**Buy 2**
Zacks Industry Rank	Top 20% (51 out of 253)
Zacks Sector Rank	Top 25% (4 out of 16)
Style Scores	**B Value | C Growth | A Momentum | A VGM**
Earnings ESP	0.00%
Research Reports for SIGI	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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Research for SIGI

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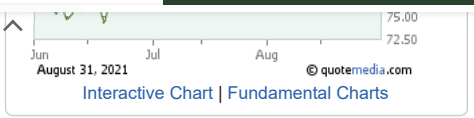
Chart for SIGI



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	827.78M	839.41M	3.30B	3.52B
# of Estimates	2	2	2	2
High Estimate	830.45M	839.81M	3.31B	3.52B
Low Estimate	825.10M	839.00M	3.28B	3.52B
Year ago Sales	768.80M	778.30M	2.93B	3.30B
Year over Year Growth Est.	7.67%	7.85%	12.62%	6.76%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.41	1.32	6.30	5.45
# of Estimates	2	1	2	2
Most Recent Consensus	1.48	1.32	6.35	5.40
High Estimate	1.48	1.32	6.35	5.50
Low Estimate	1.34	1.32	6.25	5.40
Year ago EPS	1.06	1.84	4.15	6.30
Year over Year Growth Est.	33.02%	-28.26%	51.81%	-13.49%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	0	1
Up Last 60 Days	1	0	2	2
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	0	1	0	0

Magnitude - Consensus Estimate Trend

30 Days Ago	1.36	1.37	6.05	5.30
60 Days Ago	0.84	1.38	5.35	5.18
90 Days Ago	0.84	1.38	5.35	5.18

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	1.41	1.32	6.30	5.50
Zacks Consensus Estimate	1.41	1.32	6.30	5.45
Earnings ESP	0.00%	0.00%	0.00%	0.92%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	1.85	1.70	1.84	1.06	NA
Estimate	1.36	0.97	1.10	1.18	NA
Difference	0.49	0.73	0.74	-0.12	0.46
Surprise	36.03%	75.26%	67.27%	-10.17%	42.10%

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Sirius XM Holdings Inc. (SIRI)

(Real Time Quote from BATS)

$6.30 USD

+0.03 (0.48%)

Updated Aug 31, 2021 02:38 PM ET

Add to portfo Trades from $1

Zacks Rank:
2-Buy

Style Scores:
C Value | B Growth | D Momentum | B VGM

Industry Rank:
Top 40% (100 out of 253)

Industry: Broadcast Radio and Television

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Sirius XM Holdings Inc. (SIRI) Quote Overview » Estimates » Sirius XM Holdings Inc. (SIRI) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/28/21	Earnings ESP	0.00%

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ABR	1.43	P/E (F1)	21.18

Growth Estimates	SIRI	IND	S&P
Current Qtr (09/2021)	16.67	926.04	186.03
Next Qtr (12/2021)	0.00	-4.98	57.67
Current Year (12/2021)	20.00	5.50	55.37
Next Year (12/2022)	10.00	12.20	13.08
Past 5 Years	17.60	19.80	2.80
Next 5 Years	12.20	18.20	NA
PE	21.18	24.70	23.82
PEG Ratio	1.73	1.36	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for SIRI

Zacks Rank	**Buy 2**
Zacks Industry Rank	Top 40% (100 out of 253)
Zacks Sector Rank	Top 44% (7 out of 16)
Style Scores	**C Value | B Growth | D Momentum | B VGM**
Earnings ESP	0.00%
Research Reports for SIRI	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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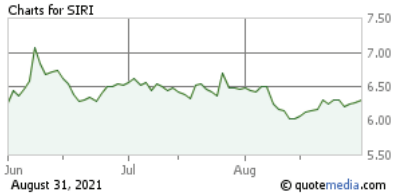
Research for SIRI

Chart for SIRI



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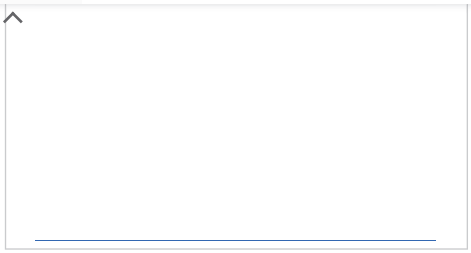

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	2.17B	2.22B	8.57B	8.98B
# of Estimates	3	3	5	5
High Estimate	2.19B	2.24B	8.68B	9.15B
Low Estimate	2.15B	2.20B	8.35B	8.74B
Year ago Sales	2.03B	2.19B	8.04B	8.57B
Year over Year Growth Est.	7.06%	1.40%	6.59%	4.78%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.07	0.07	0.30	0.33
# of Estimates	5	4	5	5
Most Recent Consensus	0.07	0.06	0.29	0.32
High Estimate	0.07	0.07	0.30	0.34
Low Estimate	0.07	0.06	0.29	0.32
Year ago EPS	0.06	0.07	0.25	0.30
Year over Year Growth Est.	16.67%	0.00%	20.00%	11.33%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	0	0
Up Last 60 Days	2	1	5	4
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	0	1	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	0.07	0.07	0.30	0.33
7 Days Ago	0.07	0.07	0.30	0.33
30 Days Ago	0.07	0.07	0.30	0.33
60 Days Ago	0.07	0.06	0.24	0.32
90 Days Ago	0.07	0.06	0.24	0.32

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$34.99 $47.99

Most Accurate Estimate	0.07	0.07	0.30	0.33
Zacks Consensus Estimate	0.07	0.07	0.30	0.33
Earnings ESP	0.00%	0.00%	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.10	0.07	0.07	0.06	NA
Estimate	0.07	0.06	0.05	0.06	NA
Difference	0.03	0.01	0.02	0.00	0.02
Surprise	42.86%	16.67%	40.00%	0.00%	24.88%

Quarterly Estimates By Analyst

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Synopsys, Inc. (SNPS)

(Real Time Quote from BATS)

$331.09 USD

-3.19 (-0.95%)

Updated Aug 31, 2021 02:39 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
D Value | B Growth | D Momentum | C VGM

Industry Rank:
Bottom 35% (164 out of 253)

Industry: Computer - Software

View All Zacks #1 Ranked Stocks
Synopsys, Inc. (SNPS) Quote Overview » Estimates » Synopsys, Inc. (SNPS) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	12/1/21	Earnings ESP	0.00%
Current Quarter	1.78	Current Year	6.81
EPS Last Quarter	1.81	Next Year	7.55
Last EPS Surprise	1.69%	EPS (TTM)	6.61
ABR	1.22	P/E (F1)	49.07

Growth Estimates	SNPS	IND	S&P
Current Qtr (10/2021)	12.66	5.47	186.03
Next Qtr (01/2022)	13.82	0.08	57.67
Current Year (10/2021)	22.70	3.40	55.37
Next Year (10/2022)	10.87	16.10	13.08
Past 5 Years	18.80	10.10	2.80
Next 5 Years	16.00	14.30	NA
PE	49.07	52.20	23.82
PEG Ratio	3.07	3.65	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for SNPS

Zacks Rank	**Hold 3**
Zacks Industry Rank	Bottom 35% (164 out of 253)
Zacks Sector Rank	Bottom 25% (12 out of 16)
Style Scores	**D Value | B Growth | D Momentum | C VGM**
Earnings ESP	0.00%
Research Reports for SNPS	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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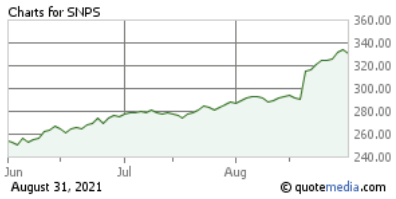
Research for SNPS

Chart for SNPS



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (10/2021)	Next Qtr (1/2022)	Current Year (10/2021)	Next Year (10/2022)
Zacks Consensus Estimate	1.15B	1.11B	4.20B	4.59B
# of Estimates	3	2	3	3
High Estimate	1.16B	1.13B	4.21B	4.61B
Low Estimate	1.15B	1.10B	4.20B	4.56B
Year ago Sales	1.03B	970.32M	3.69B	4.20B
Year over Year Growth Est.	12.29%	14.73%	14.06%	9.23%

Earnings Estimates

	Current Qtr (10/2021)	Next Qtr (1/2022)	Current Year (10/2021)	Next Year (10/2022)
Zacks Consensus Estimate	1.78	1.73	6.81	7.55
# of Estimates	5	2	5	5
Most Recent Consensus	1.78	1.85	6.81	7.57
High Estimate	1.79	1.85	6.82	7.65
Low Estimate	1.77	1.61	6.80	7.48
Year ago EPS	1.58	1.52	5.55	6.81
Year over Year Growth Est.	12.66%	13.82%	22.70%	10.87%

Agreement - Estimate Revisions

	Current Qtr (10/2021)	Next Qtr (1/2022)	Current Year (10/2021)	Next Year (10/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	3	2	5	4
Up Last 60 Days	3	2	5	4
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	0	0	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (10/2021)	Next Qtr (1/2022)	Current Year (10/2021)	Next Year (10/2022)
Current	1.78	1.73	6.81	7.55
7 Days Ago	1.78	1.73	6.81	7.55
30 Days Ago	1.45	1.66	6.45	7.29
60 Days Ago	1.45	1.66	6.45	7.29
90 Days Ago	1.45	1.66	6.45	7.29

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (10/2021)	Next Qtr (1/2022)	Current Year (10/2021)	Next Year (10/2022)
Most Accurate Estimate	1.78	1.73	6.81	7.57
Zacks Consensus Estimate	1.78	1.73	6.81	7.55
Earnings ESP	0.00%	0.00%	0.00%	0.17%

Surprise - Reported Earnings History

	Quarter Ending (7/2021)	Quarter Ending (4/2021)	Quarter Ending (1/2021)	Quarter Ending (10/2020)	Average Surprise
Reported	1.81	1.70	1.52	1.58	NA

	Quarter Ending (7/2021)	Quarter Ending (4/2021)	Quarter Ending (1/2021)	Quarter Ending (10/2020)	Average Surprise
Estimate	1.78	1.52	1.45	1.57	NA
Difference	0.03	0.18	0.07	0.01	0.07
Surprise	1.69%	11.84%	4.83%	0.64%	4.75%

Quarterly Estimates By Analyst

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Texas Instruments Incorporated (TXN)

(Real Time Quote from BATS)

$191.36 USD

-0.07 (-0.04%)

Updated Aug 31, 2021 02:50 PM ET

Add to portfo Trades from $1

Zacks Rank:
2-Buy
Style Scores:
D Value | B Growth | B Momentum | C VGM
Industry Rank:
Top 14% (36 out of 253)
Industry: Semiconductor - General

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Texas Instruments Incorporated (TXN) Quote Overview » Estimates » Texas Instruments Incorporated (TXN) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/19/21	Earnings ESP	0.00%
Current Quarter	2.04	Current Year	7.86
EPS Last Quarter	2.05	Next Year	8.18
Last EPS Surprise	12.64%	EPS (TTM)	7.17

ABR	1.89	P/E (F1)	24.36

Growth Estimates	TXN	IND	S&P
Current Qtr (09/2021)	40.69	26.28	186.03
Next Qtr (12/2021)	7.22	-9.63	57.67
Current Year (12/2021)	31.66	25.60	55.37
Next Year (12/2022)	4.07	16.30	13.08
Past 5 Years	15.70	26.30	2.80
Next 5 Years	9.30	11.50	NA
PE	24.36	25.20	23.82
PEG Ratio	2.61	2.19	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for TXN

Zacks Rank	**Buy 2**
Zacks Industry Rank	Top 14% (36 out of 253)
Zacks Sector Rank	Bottom 25% (12 out of 16)
Style Scores	**D Value | B Growth | B Momentum | C VGM**
Earnings ESP	0.00%
Research Reports for TXN	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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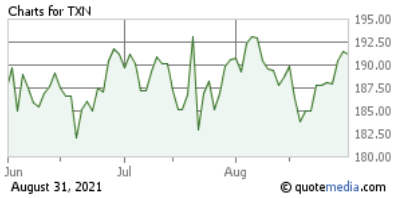
Research for TXN

Chart for TXN



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	4.65B	4.45B	17.94B	18.65B
# of Estimates	8	8	9	9
High Estimate	4.79B	4.72B	18.30B	19.71B
Low Estimate	4.58B	4.26B	17.71B	17.92B
Year ago Sales	3.82B	4.08B	14.46B	17.94B
Year over Year Growth Est.	21.73%	9.06%	24.05%	3.99%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	2.04	1.93	7.86	8.18
# of Estimates	10	9	10	11
Most Recent Consensus	1.98	1.88	7.79	8.01
High Estimate	2.13	2.13	8.14	8.98
Low Estimate	1.96	1.82	7.74	7.55
Year ago EPS	1.45	1.80	5.97	7.86
Year over Year Growth Est.	40.69%	7.22%	31.66%	4.03%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	1
Up Last 30 Days	0	0	0	1
Up Last 60 Days	7	8	10	10
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	2	1	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	2.04	1.93	7.86	8.18
7 Days Ago	2.04	1.93	7.86	8.17
30 Days Ago	2.04	1.93	7.86	8.17
60 Days Ago	1.95	1.79	7.38	7.79
90 Days Ago	1.95	1.79	7.38	7.79

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	2.04	1.93	7.86	8.15
Zacks Consensus Estimate	2.04	1.93	7.86	8.18
Earnings ESP	0.00%	0.00%	0.00%	-0.31%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	2.05	1.87	1.80	1.45	NA

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Estimate	1.82	1.56	1.34	1.27	NA
Difference	0.23	0.31	0.46	0.18	0.30
Surprise	12.64%	19.87%	34.33%	14.17%	20.25%

Quarterly Estimates By Analyst

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Amerco (UHAL)

(Real Time Quote from BATS)

$673.68 USD

+2.15 (0.32%)

Updated Aug 31, 2021 10:34 AM ET

Add to portfo Trades from $1

Zacks Rank:

Style Scores:
NA Value | NA Growth | NA Momentum | NA VGM
Industry Rank:
Top 14% (36 out of 253)
Industry: Transportation - Equipment and Leasing

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Amerco (UHAL) Quote Overview » Estimates » Amerco (UHAL) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/3/21	Earnings ESP	0.00%

ABR NA P/E (F1) 14.09

Growth Estimates	UHAL	IND	S&P
Current Qtr (09/2021)	13.99	48.79	186.03
Next Qtr (12/2021)	-10.08	80.40	57.67
Current Year (03/2022)	52.97	15.50	55.37
Next Year (03/2023)	NA	20.60	13.08
Past 5 Years	7.60	-1.80	2.80
Next 5 Years	NA	19.00	NA
PE	14.09	16.60	23.82
PEG Ratio	NA	0.87	NA

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Premium Research for UHAL

Zacks Rank	NA
Zacks Industry Rank	Top 14% (36 out of 253)
Zacks Sector Rank	Top 19% (3 out of 16)
Style Scores	**NA Value | NA Growth | NA Momentum | NA VGM**
Earnings ESP	0.00%
Research Report for UHAL	Snapshot

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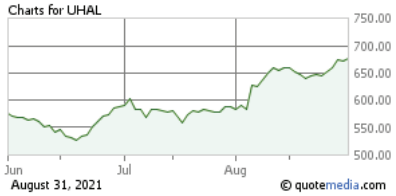
Chart for UHAL



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (3/2022)	Next Year (3/2023)
Zacks Consensus Estimate	1.57B	1.26B	5.42B	NA
# of Estimates	1	1	1	NA
High Estimate	1.57B	1.26B	5.42B	NA
Low Estimate	1.57B	1.26B	5.42B	NA
Year ago Sales	1.32B	1.17B	4.54B	5.42B
Year over Year Growth Est.	18.50%	7.63%	19.27%	NA

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (3/2022)	Next Year (3/2023)
Zacks Consensus Estimate	15.48	8.39	47.65	NA
# of Estimates	1	1	1	NA
Most Recent Consensus	15.48	8.39	47.65	NA
High Estimate	15.48	8.39	47.65	NA
Low Estimate	15.48	8.39	47.65	NA
Year ago EPS	13.58	9.33	31.15	47.65
Year over Year Growth Est.	13.99%	-10.08%	52.97%	NA

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (3/2022)	Next Year (3/2023)
Up Last 7 Days	0	0	0	NA
Up Last 30 Days	0	0	0	NA
Up Last 60 Days	0	0	0	NA
Down Last 7 Days	0	0	0	NA
Down Last 30 Days	0	0	0	NA
Down Last 60 Days	0	0	0	NA

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (3/2022)	Next Year (3/2023)
Current	15.48	8.39	47.65	NA
7 Days Ago	15.48	8.39	47.65	NA
30 Days Ago	NA	NA	NA	NA
60 Days Ago	NA	NA	NA	NA
90 Days Ago	12.75	8.00	33.72	NA

Most Accurate Estimate	15.48	8.39	47.65	NA
Zacks Consensus Estimate	15.48	8.39	47.65	NA
Earnings ESP	0.00%	0.00%	0.00%	NA

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	17.60	3.76	9.33	13.58	NA
Estimate	NA	5.07	7.08	4.58	NA
Difference	NA	-1.31	2.25	9.00	3.31
Surprise	NA	-25.84%	31.78%	196.51%	67.48%

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Zacks Research
Detailed Estimates

United Parcel Service, Inc. (UPS)

(Real Time Quote from BATS)

$195.09 USD

+1.08 (0.56%)

Updated Aug 31, 2021 02:51 PM ET

Add to portfo | Trades from $1

Zacks Rank:
3-Hold

Style Scores:
B Value | A Growth | C Momentum | A VGM

Industry Rank:
Top 34% (86 out of 253)

Industry: Transportation - Air Freight and Cargo

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United Parcel Service, Inc. (UPS) Quote Overview » Estimates » United Parcel Service, Inc. (UPS) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/27/21	Earnings ESP	0.00%
Current Quarter	2.53	Current Year	11.16
EPS Last Quarter	3.06	Next Year	11.55
Last EPS Surprise	11.27%	EPS (TTM)	10.77
ABR	2.02	P/E (F1)	17.38

Growth Estimates	UPS	IND	S&P
Current Qtr (09/2021)	10.96	14.65	186.03
Next Qtr (12/2021)	5.26	312.31	57.67
Current Year (12/2021)	35.60	9.50	55.37
Next Year (12/2022)	3.49	7.70	13.08
Past 5 Years	9.10	17.30	2.80
Next 5 Years	11.70	11.90	NA
PE	17.38	21.90	23.82
PEG Ratio	1.49	1.84	NA

Learn More About Estimate Research

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See Earnings Report Transcript

Premium Research for UPS

Zacks Rank	**Hold 3**
Zacks Industry Rank	Top 34% (86 out of 253)
Zacks Sector Rank	Top 19% (3 out of 16)
Style Scores	**B Value | A Growth | C Momentum | A VGM**
Earnings ESP	0.00%
Research Reports for UPS	Analyst | Snapshot

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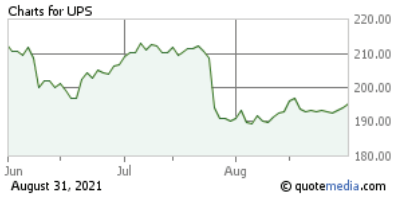
Research for UPS

Chart for UPS



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	22.71B	25.65B	94.69B	97.66B
# of Estimates	5	5	7	7
High Estimate	22.99B	26.13B	95.23B	99.89B
Low Estimate	22.52B	24.51B	93.74B	91.82B
Year ago Sales	21.24B	24.90B	84.63B	94.69B
Year over Year Growth Est.	6.93%	3.02%	11.89%	3.13%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	2.53	2.80	11.16	11.55
# of Estimates	8	6	11	11
Most Recent Consensus	2.54	2.85	11.22	11.71
High Estimate	2.64	2.90	11.28	12.04
Low Estimate	2.42	2.72	10.80	10.30
Year ago EPS	2.28	2.66	8.23	11.16
Year over Year Growth Est.	10.96%	5.26%	35.60%	3.47%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	1	1
Up Last 60 Days	2	3	8	6
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	3	2	1	2

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	2.53	2.80	11.16	11.55
7 Days Ago	2.53	2.80	11.16	11.55
30 Days Ago	2.53	2.80	11.14	11.36
60 Days Ago	2.53	2.68	10.82	11.24
90 Days Ago	2.54	2.70	10.85	10.87

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	2.53	2.80	11.25	11.50
Zacks Consensus Estimate	2.53	2.80	11.16	11.55
Earnings ESP	0.00%	0.00%	0.77%	-0.44%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	3.06	2.77	2.66	2.28	NA

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Estimate	2.75	1.67	2.11	1.86	NA
Difference	0.31	1.10	0.55	0.42	0.60
Surprise	11.27%	65.87%	26.07%	22.58%	31.45%

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VeriSign, Inc. (VRSN)
(Real Time Quote from BATS)

$215.58 USD

-0.57 (-0.26%)

Updated Aug 31, 2021 02:54 PM ET

Add to portfo Trades from $1

Zacks Rank:
3-Hold

Style Scores:
D Value | C Growth | C Momentum | C VGM

Industry Rank:
Top 47% (119 out of 253)

Industry: Internet - Software and Services

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VeriSign, Inc. (VRSN) Quote Overview » Estimates » VeriSign, Inc. (VRSN) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/28/21	Earnings ESP	0.00%
Current Quarter	1.35	Current Year	5.38
EPS Last Quarter	1.31	Next Year	6.02
Last EPS Surprise	-0.76%	EPS (TTM)	5.51
ABR	1.00	P/E (F1)	40.18

Growth Estimates	VRSN	IND	S&P
Current Qtr (09/2021)	-9.40	79.92	186.03
Next Qtr (12/2021)	0.00	1,533.61	57.67
Current Year (12/2021)	-23.90	16.70	55.37
Next Year (12/2022)	11.90	13.50	13.08
Past 5 Years	18.70	9.10	2.80
Next 5 Years	NA	17.50	NA
PE	40.18	6.00	23.82
PEG Ratio	NA	0.34	NA

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Premium Research for VRSN

Zacks Rank	▲ Hold 3
Zacks Industry Rank	Top 47% (119 out of 253)
Zacks Sector Rank	Bottom 25% (12 out of 16)
Style Scores	D Value | C Growth | C Momentum | C VGM
Earnings ESP	0.00%
Research Reports for VRSN	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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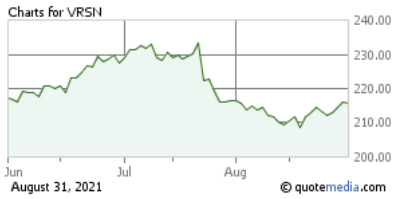
Research for VRSN

Chart for VRSN



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	333.20M	339.93M	1.33B	1.43B
# of Estimates	1	1	1	1
High Estimate	333.20M	339.93M	1.33B	1.43B
Low Estimate	333.20M	339.93M	1.33B	1.43B
Year ago Sales	317.88M	320.28M	1.27B	1.33B
Year over Year Growth Est.	4.82%	6.14%	4.83%	7.83%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.35	1.38	5.38	6.02
# of Estimates	1	1	1	1
Most Recent Consensus	NA	NA	NA	NA
High Estimate	1.35	1.38	5.38	6.02
Low Estimate	1.35	1.38	5.38	6.02
Year ago EPS	1.49	1.38	7.07	5.38
Year over Year Growth Est.	-9.40%	0.00%	-23.90%	11.90%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	0	0
Up Last 60 Days	1	1	1	0
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	0	0	0	1

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	1.35	1.38	5.38	6.02
7 Days Ago	1.35	1.38	5.38	6.02
30 Days Ago	1.35	1.38	5.38	6.02
60 Days Ago	1.34	1.37	5.35	6.03
90 Days Ago	1.34	1.37	5.35	6.03

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	1.35	1.38	5.38	6.02
Zacks Consensus Estimate	1.35	1.38	5.38	6.02
Earnings ESP	0.00%	0.00%	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	1.31	1.33	1.38	1.49	NA

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Estimate	1.32	1.29	1.29	1.26	NA
Difference	-0.01	0.04	0.09	0.23	0.09
Surprise	-0.76%	3.10%	6.98%	18.25%	6.89%

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return. The monthly returns are then compounded to arrive at the annual return. Only Zacks Rank stocks included in Zacks hypothetical portfolios at the beginning of each month are included in the return calculations. Zacks Ranks stocks can, and often do, change throughout the month. Certain Zacks Rank stocks for which no month-end price was available, pricing information was not collected, or for certain other reasons have been excluded from these return calculations.

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Waters Corporation (WAT)

(Real Time Quote from BATS)

$411.19 USD

-1.87 (-0.45%)

Updated Aug 31, 2021 02:56 PM ET

Add to portfo | Trades from $1

Zacks Rank:
2-Buy

Style Scores:
F Value | C Growth | C Momentum | D VGM

Industry Rank:
Top 47% (119 out of 253)

Industry: Instruments - Scientific

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Waters Corporation (WAT) Quote Overview » Estimates » Waters Corporation (WAT) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/26/21	Earnings ESP	0.00%
Current Quarter	2.36	Current Year	10.66
EPS Last Quarter	2.60	Next Year	11.64
Last EPS Surprise	16.07%	EPS (TTM)	10.70
ABR	2.92	P/E (F1)	38.75

Growth Estimates	WAT	IND	S&P
Current Qtr (09/2021)	9.26	13.76	186.03
Next Qtr (12/2021)	-6.58	-18.33	57.67
Current Year (12/2021)	17.79	26.80	55.37
Next Year (12/2022)	9.19	7.20	13.08
Past 5 Years	8.50	9.50	2.80
Next 5 Years	9.40	20.20	NA
PE	38.75	31.00	23.82
PEG Ratio	4.13	1.53	NA

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Premium Research for WAT

Zacks Rank	▲ Buy 2
Zacks Industry Rank	Top 47% (119 out of 253)
Zacks Sector Rank	Bottom 25% (12 out of 16)
Style Scores	F Value | C Growth | C Momentum | D VGM
Earnings ESP	0.00%
Research Reports for WAT	Analyst | Snapshot

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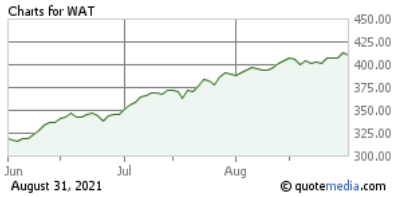
Research for WAT

Chart for WAT



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	652.28M	820.21M	2.76B	2.91B
# of Estimates	5	5	5	4
High Estimate	653.30M	832.46M	2.78B	2.93B
Low Estimate	650.92M	802.21M	2.74B	2.88B
Year ago Sales	593.78M	786.66M	2.37B	2.76B
Year over Year Growth Est.	9.85%	4.27%	16.80%	5.27%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	2.36	3.41	10.66	11.64
# of Estimates	7	5	7	6
Most Recent Consensus	2.34	3.43	10.65	11.55
High Estimate	2.45	3.48	10.83	12.14
Low Estimate	2.28	3.29	10.50	11.45
Year ago EPS	2.16	3.65	9.05	10.66
Year over Year Growth Est.	9.26%	-6.58%	17.79%	9.20%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	5	5	7	6
Up Last 60 Days	5	5	7	6
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	0	0	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	2.36	3.41	10.66	11.64
7 Days Ago	2.36	3.41	10.66	11.64
30 Days Ago	2.24	3.26	10.04	10.90
60 Days Ago	2.24	3.26	10.01	10.86
90 Days Ago	2.27	3.27	9.96	10.87

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	2.36	3.41	10.66	11.64
Zacks Consensus Estimate	2.36	3.41	10.66	11.64
Earnings ESP	0.00%	0.00%	0.00%	0.00%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	2.60	2.29	3.65	2.16	NA

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Estimate	2.24	1.57	2.87	1.91	NA
Difference	0.36	0.72	0.78	0.25	0.53
Surprise	16.07%	45.86%	27.18%	13.09%	25.55%

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Zacks Research
Detailed Estimates

Watsco, Inc. (WSO)

(Real Time Quote from BATS)

$278.78 USD

-2.71 (-0.96%)

Updated Aug 31, 2021 02:56 PM ET

Add to portfo Trades from $1

Zacks Rank:
2-Buy 2

Style Scores:
C Value | A Growth | D Momentum | B VGM

Industry Rank:
Top 22% (56 out of 253)

Industry: Building Products - Air Conditioner and Heating

View All Zacks #1 Ranked Stocks

Watsco, Inc. (WSO) Quote Overview » Estimates » Watsco, Inc. (WSO) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	10/28/21	Earnings ESP	0.00%
Current Quarter	3.34	Current Year	10.02
EPS Last Quarter	3.71	Next Year	10.51
Last EPS Surprise	17.78%	EPS (TTM)	9.00
ABR	2.50	P/E (F1)	28.09

Growth Estimates	WSO	IND	S&P
Current Qtr (09/2021)	21.01	51.46	186.03
Next Qtr (12/2021)	28.95	-5.04	57.67
Current Year (12/2021)	42.94	20.00	55.37
Next Year (12/2022)	4.89	5.10	13.08
Past 5 Years	7.90	14.20	2.80
Next 5 Years	NA	NA	NA
PE	28.09	35.70	23.82
PEG Ratio	NA	NA	NA

Learn More About Estimate Research

See Brokerage Recommendations

See Earnings Report Transcript

Premium Research for WSO

Zacks Rank	▼ Buy 2
Zacks Industry Rank	Top 22% (56 out of 253)
Zacks Sector Rank	Top 50% (8 out of 16)
Style Scores	C Value | A Growth | D Momentum | B VGM
Earnings ESP	0.00%
Research Reports for WSO	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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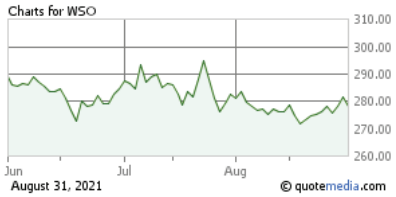
Research for WSO

Chart for WSO



Interactive Chart | Fundamental Charts

Sales Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	1.79B	1.33B	6.08B	6.37B
# of Estimates	5	5	6	6
High Estimate	1.83B	1.36B	6.16B	6.53B
Low Estimate	1.76B	1.32B	5.97B	5.94B
Year ago Sales	1.54B	1.15B	5.05B	6.08B
Year over Year Growth Est.	16.63%	15.28%	20.34%	4.78%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	3.34	1.47	10.02	10.51
# of Estimates	6	6	7	7
Most Recent Consensus	3.40	1.69	10.18	10.57
High Estimate	3.44	1.69	10.30	11.00
Low Estimate	3.10	1.31	9.63	9.45
Year ago EPS	2.76	1.14	7.01	10.02
Year over Year Growth Est.	21.01%	28.95%	42.94%	4.92%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	0	0	1	1
Up Last 60 Days	5	5	7	7
Down Last 7 Days	0	0	0	0
Down Last 30 Days	0	0	0	0
Down Last 60 Days	0	1	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	3.34	1.47	10.02	10.51
7 Days Ago	3.34	1.47	10.02	10.51
30 Days Ago	3.34	1.47	9.78	10.25
60 Days Ago	3.04	1.28	8.79	9.12
90 Days Ago	2.96	1.27	8.77	9.10

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	3.34	1.47	10.24	10.58
Zacks Consensus Estimate	3.34	1.47	10.02	10.51
Earnings ESP	0.00%	0.00%	2.19%	0.63%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	3.71	1.39	1.14	2.76	NA

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Estimate	3.15	0.91	1.01	2.53	NA
Difference	0.56	0.48	0.13	0.23	0.35
Surprise	17.78%	52.75%	12.87%	9.09%	23.12%

Quarterly Estimates By Analyst

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The Western Union Company (WU)
(Real Time Quote from BATS)

$21.39 USD
+0.12 (0.56%)
Updated Aug 31, 2021 10:09 AM ET

Zacks Rank:
3-Hold
Style Scores:
A Value | D Growth | A Momentum | B VGM
Industry Rank:
Top 43% (110 out of 253)
Industry: Financial Transaction Services

View All Zacks #1 Ranked Stocks

The Western Union Company (WU) Quote Overview » Estimates » The Western Union Company (WU) Detailed Estimates

Detailed Estimates

Enter Symbol

Estimates

Next Report Date	11/4/21	Earnings ESP	0.04%
Current Quarter	0.57	Current Year	2.08
EPS Last Quarter	0.48	Next Year	2.30
Last EPS Surprise	2.13%	EPS (TTM)	1.94
ABR	2.70	P/E (F1)	10.24

Growth Estimates	WU	IND	S&P
Current Qtr (09/2021)	0.00	85.80	186.03
Next Qtr (12/2021)	28.89	63.12	57.67
Current Year (12/2021)	11.23	19.80	55.37
Next Year (12/2022)	10.58	22.20	13.08
Past 5 Years	2.30	7.50	2.80
Next 5 Years	NA	20.50	NA
PE	10.24	38.60	23.82
PEG Ratio	NA	1.88	NA

Premium Research for WU

Zacks Rank	Hold 3
Zacks Industry Rank	Top 43% (110 out of 253)
Zacks Sector Rank	Bottom 13% (14 out of 16)
Style Scores	A Value | D Growth | A Momentum | B VGM
Earnings ESP	0.04%
Research Reports for WU	Analyst | Snapshot

(▲▼ = Change in last 30 days)

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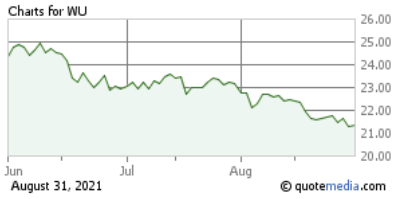
Research for WU

Chart for WU



Interactive Chart | Fundamental Charts

Sales Estimates

High Estimate	1.35B	1.36B	5.20B	5.46B
Low Estimate	1.29B	1.31B	5.10B	5.15B
Year ago Sales	1.26B	1.27B	4.84B	5.15B
Year over Year Growth Est.	4.09%	4.92%	6.46%	3.43%

Earnings Estimates

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Zacks Consensus Estimate	0.57	0.58	2.08	2.30
# of Estimates	8	7	8	8
Most Recent Consensus	0.57	0.55	2.09	2.35
High Estimate	0.60	0.60	2.09	2.35
Low Estimate	0.54	0.55	2.05	2.24
Year ago EPS	0.57	0.45	1.87	2.08
Year over Year Growth Est.	0.00%	28.89%	11.23%	10.94%

Agreement - Estimate Revisions

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Up Last 7 Days	0	0	0	0
Up Last 30 Days	1	3	5	5
Up Last 60 Days	1	3	5	5
Down Last 7 Days	0	0	0	0
Down Last 30 Days	3	2	0	0
Down Last 60 Days	3	2	0	0

Magnitude - Consensus Estimate Trend

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Current	0.57	0.58	2.08	2.30
7 Days Ago	0.57	0.58	2.08	2.30
30 Days Ago	0.58	0.57	2.06	2.28
60 Days Ago	0.58	0.57	2.06	2.28
90 Days Ago	0.58	0.57	2.06	2.28

Upside - Most Accurate Estimate Versus Zacks Consensus

	Current Qtr (9/2021)	Next Qtr (12/2021)	Current Year (12/2021)	Next Year (12/2022)
Most Accurate Estimate	0.57	0.57	2.08	2.30
Zacks Consensus Estimate	0.57	0.58	2.08	2.30
Earnings ESP	0.04%	-0.54%	0.37%	-0.08%

Surprise - Reported Earnings History

	Quarter Ending (6/2021)	Quarter Ending (3/2021)	Quarter Ending (12/2020)	Quarter Ending (9/2020)	Average Surprise
Reported	0.48	0.44	0.45	0.57	NA

Surprise	2.13%	-2.22%	7.14%	21.28%	7.08%

Quarterly Estimates By Analyst

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Dependent Variable: RP
Method: ML - ARCH (Marquardt) - Student's t distribution
Date: 09/10/21 Time: 16:35
Sample: 1 1148
Included observations: 1148
Convergence achieved after 13 iterations
Presample variance: backcast (parameter = 0.7)
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)

Variable	Coefficient	Std. Error	z-Statistic	Prob.
GARCH	3.165594	0.515875	6.136360	0.0000
Variance Equation				
C	0.000122	3.90E-05	3.125960	0.0018
RESID(-1)^2	0.127358	0.026097	4.880135	0.0000
GARCH(-1)	0.821330	0.032779	25.05649	0.0000
T-DIST. DOF	8.694968	1.961847	4.432033	0.0000

R-squared	-0.019646	Mean dependent var	0.005641
Adjusted R-squared	-0.019646	S.D. dependent var	0.053814
S.E. of regression	0.054340	Akaike info criterion	-3.361692
Sum squared resid	3.386896	Schwarz criterion	-3.339716
Log likelihood	1934.611	Hannan-Quinn criter.	-3.353396
Durbin-Watson stat	1.776188		

Dependent Variable: RP
Method: ML - ARCH (Marquardt) - Student's t distribution
Date: 09/10/21 Time: 16:37
Sample (adjusted): 25 1148
Included observations: 1124 after adjustments
Convergence achieved after 13 iterations
Presample variance: backcast (parameter = 0.7)
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)

Variable	Coefficient	Std. Error	z-Statistic	Prob.
GARCH	1.555855	0.508780	3.058012	0.0022
Variance Equation				
C	5.50E-05	2.10E-05	2.619717	0.0088
RESID(-1)^2	0.107730	0.020991	5.132137	0.0000
GARCH(-1)	0.870184	0.022871	38.04678	0.0000
T-DIST. DOF	10.66030	3.222181	3.308410	0.0009

R-squared	-0.015814	Mean dependent var	0.003269
Adjusted R-squared	-0.015814	S.D. dependent var	0.054793
S.E. of regression	0.055224	Akaike info criterion	-3.367600
Sum squared resid	3.424821	Schwarz criterion	-3.345248
Log likelihood	1897.591	Hannan-Quinn criter.	-3.359153
Durbin-Watson stat	1.760763		

Dependent Variable: RP
Method: ML - ARCH (Marquardt) - Student's t distribution
Date: 09/10/21 Time: 16:41
Sample (adjusted): 25 1148
Included observations: 1124 after adjustments
Convergence achieved after 15 iterations
Presample variance: backcast (parameter = 0.7)
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)

Variable	Coefficient	Std. Error	z-Statistic	Prob.
GARCH	2.813867	0.515399	5.459586	0.0000
Variance Equation				
C	0.000113	3.76E-05	3.008123	0.0026
RESID(-1)^2	0.129127	0.026560	4.861699	0.0000
GARCH(-1)	0.824422	0.032149	25.64375	0.0000
T-DIST. DOF	8.398069	1.890016	4.443385	0.0000

R-squared	-0.015422	Mean dependent var	0.004690
Adjusted R-squared	-0.015422	S.D. dependent var	0.054129
S.E. of regression	0.054545	Akaike info criterion	-3.355831
Sum squared resid	3.341133	Schwarz criterion	-3.333479
Log likelihood	1890.977	Hannan-Quinn criter.	-3.347384
Durbin-Watson stat	1.784764		

Dependent Variable: RP
Method: ML - ARCH (Marquardt) - Normal distribution
Date: 09/10/21 Time: 16:42
Sample (adjusted): 325 1148
Included observations: 824 after adjustments
Convergence achieved after 22 iterations
Presample variance: backcast (parameter = 0.7)
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)

Variable	Coefficient	Std. Error	z-Statistic	Prob.
GARCH	2.038320	0.688394	2.960978	0.0031
Variance Equation				
C	0.000175	6.86E-05	2.547846	0.0108
RESID(-1)^2	0.097892	0.025829	3.790027	0.0002
GARCH(-1)	0.828887	0.050625	16.37298	0.0000

R-squared	-0.000019	Mean dependent var	0.004187
Adjusted R-squared	-0.000019	S.D. dependent var	0.047786
S.E. of regression	0.047787	Akaike info criterion	-3.297565
Sum squared resid	1.879391	Schwarz criterion	-3.274680
Log likelihood	1362.597	Hannan-Quinn criter.	-3.288786
Durbin-Watson stat	2.088822		

Dependent Variable: RP
Method: ML - ARCH (Marquardt) - Normal distribution
Date: 09/10/21 Time: 16:43
Sample (adjusted): 322 1148
Included observations: 827 after adjustments
Convergence not achieved after 500 iterations
Presample variance: backcast (parameter = 0.7)
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)

Variable	Coefficient	Std. Error	z-Statistic	Prob.
GARCH	0.994391	0.505636	1.966616	0.0492
Variance Equation				
C	4.30E-05	1.38E-05	3.107679	0.0019
RESID(-1)^2	0.125911	0.018669	6.744423	0.0000
GARCH(-1)	0.882626	0.015587	56.62644	0.0000

R-squared	-0.051997	Mean dependent var	0.004234
Adjusted R-squared	-0.051997	S.D. dependent var	0.062597
S.E. of regression	0.064204	Akaike info criterion	-3.079925
Sum squared resid	3.404879	Schwarz criterion	-3.057107
Log likelihood	1277.549	Hannan-Quinn criter.	-3.071173
Durbin-Watson stat	1.974638		

Dependent Variable: RP
Method: ML - ARCH (Marquardt) - Normal distribution
Date: 09/10/21 Time: 16:45
Sample (adjusted): 565 1148
Included observations: 584 after adjustments
Convergence achieved after 19 iterations
Presample variance: backcast (parameter = 0.7)
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)

Variable	Coefficient	Std. Error	z-Statistic	Prob.
GARCH	1.566885	0.625519	2.504936	0.0122
Variance Equation				
C	0.000323	0.000120	2.689874	0.0071
RESID(-1)^2	0.091100	0.026744	3.406366	0.0007
GARCH(-1)	0.834826	0.046591	17.91799	0.0000

R-squared	-0.004111	Mean dependent var	0.007313
Adjusted R-squared	-0.004111	S.D. dependent var	0.065837
S.E. of regression	0.065972	Akaike info criterion	-2.671105
Sum squared resid	2.537411	Schwarz criterion	-2.641174
Log likelihood	783.9627	Hannan-Quinn criter.	-2.659439
Durbin-Watson stat	2.063470		

Dependent Variable: RP
Method: ML - ARCH (Marquardt) - Normal distribution
Date: 09/10/21 Time: 16:46
Sample (adjusted): 255 1148
Included observations: 894 after adjustments
Convergence achieved after 16 iterations
Presample variance: backcast (parameter = 0.7)
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)

Variable	Coefficient	Std. Error	z-Statistic	Prob.
GARCH	1.632017	0.374440	4.358550	0.0000
Variance Equation				
C	0.000109	2.89E-05	3.772174	0.0002
RESID(-1)^2	0.168403	0.020853	8.075878	0.0000
GARCH(-1)	0.821515	0.020903	39.30075	0.0000

R-squared	-0.025273	Mean dependent var	0.003589
Adjusted R-squared	-0.025273	S.D. dependent var	0.070792
S.E. of regression	0.071681	Akaike info criterion	-2.884579
Sum squared resid	4.588318	Schwarz criterion	-2.863122
Log likelihood	1293.407	Hannan-Quinn criter.	-2.876379
Durbin-Watson stat	1.781706		

Dependent Variable: RP
Method: ML - ARCH (Marquardt) - Normal distribution
Date: 09/10/21 Time: 16:46
Sample (adjusted): 428 1148
Included observations: 721 after adjustments
Convergence achieved after 25 iterations
Presample variance: backcast (parameter = 0.7)
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)

Variable	Coefficient	Std. Error	z-Statistic	Prob.
GARCH	1.866857	0.622750	2.997765	0.0027
Variance Equation				
C	0.000209	7.26E-05	2.874020	0.0041
RESID(-1)^2	0.120409	0.029166	4.128344	0.0000
GARCH(-1)	0.811781	0.049092	16.53586	0.0000

R-squared	-0.003962	Mean dependent var	0.003974
Adjusted R-squared	-0.003962	S.D. dependent var	0.056099
S.E. of regression	0.056210	Akaike info criterion	-3.046578
Sum squared resid	2.274901	Schwarz criterion	-3.021165
Log likelihood	1102.291	Hannan-Quinn criter.	-3.036768
Durbin-Watson stat	2.084340		

Dependent Variable: RP
Method: ML - ARCH (Marquardt) - Normal distribution
Date: 09/10/21 Time: 16:47
Sample: 1 1148
Included observations: 1148
Convergence achieved after 31 iterations
Presample variance: backcast (parameter = 0.7)
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)

Variable	Coefficient	Std. Error	z-Statistic	Prob.
GARCH	1.546617	0.428730	3.607440	0.0003
Variance Equation				
C	9.12E-05	2.14E-05	4.262826	0.0000
RESID(-1)^2	0.130257	0.008762	14.86608	0.0000
GARCH(-1)	0.858263	0.009286	92.42264	0.0000

R-squared	-0.010690	Mean dependent var	0.005505
Adjusted R-squared	-0.010690	S.D. dependent var	0.065135
S.E. of regression	0.065482	Akaike info criterion	-2.908394
Sum squared resid	4.918259	Schwarz criterion	-2.890813
Log likelihood	1673.418	Hannan-Quinn criter.	-2.901757
Durbin-Watson stat	1.872380		

Dependent Variable: RP
Method: ML - ARCH (Marquardt) - Normal distribution
Date: 09/10/21 Time: 16:48
Sample (adjusted): 495 1148
Included observations: 654 after adjustments
Convergence achieved after 24 iterations
Presample variance: backcast (parameter = 0.7)
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)

Variable	Coefficient	Std. Error	z-Statistic	Prob.
GARCH	1.689958	0.706100	2.393371	0.0167
Variance Equation				
C	0.000137	4.68E-05	2.932901	0.0034
RESID(-1)^2	0.108745	0.025506	4.263447	0.0000
GARCH(-1)	0.847677	0.036198	23.41753	0.0000

R-squared	-0.002255	Mean dependent var	0.004064
Adjusted R-squared	-0.002255	S.D. dependent var	0.055219
S.E. of regression	0.055281	Akaike info criterion	-3.085767
Sum squared resid	1.995580	Schwarz criterion	-3.058347
Log likelihood	1013.046	Hannan-Quinn criter.	-3.075135
Durbin-Watson stat	1.863107		

Dependent Variable: RP
Method: ML - ARCH (Marquardt) - Normal distribution
Date: 09/10/21 Time: 16:49
Sample (adjusted): 565 1148
Included observations: 584 after adjustments
Convergence achieved after 15 iterations
Presample variance: backcast (parameter = 0.7)
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)

Variable	Coefficient	Std. Error	z-Statistic	Prob.
GARCH	2.617070	0.870792	3.005392	0.0027
Variance Equation				
C	0.002225	0.000615	3.616570	0.0003
RESID(-1)^2	0.127712	0.048261	2.646268	0.0081
GARCH(-1)	-0.048137	0.258667	-0.186099	0.8524

R-squared	-0.000519	Mean dependent var	0.005870
Adjusted R-squared	-0.000519	S.D. dependent var	0.049175
S.E. of regression	0.049188	Akaike info criterion	-3.192814
Sum squared resid	1.410539	Schwarz criterion	-3.162883
Log likelihood	936.3017	Hannan-Quinn criter.	-3.181148
Durbin-Watson stat	2.359371		

Dependent Variable: RP
Method: ML - ARCH (Marquardt) - Normal distribution
Date: 09/10/21 Time: 16:50
Sample (adjusted): 948 1148
Included observations: 201 after adjustments
Convergence achieved after 57 iterations
Presample variance: backcast (parameter = 0.7)
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)

Variable	Coefficient	Std. Error	z-Statistic	Prob.
GARCH	2.374687	1.206601	1.968079	0.0491
Variance Equation				
C	0.000920	0.000374	2.458883	0.0139
RESID(-1)^2	0.358744	0.141815	2.529664	0.0114
GARCH(-1)	0.400881	0.175279	2.287102	0.0222

R-squared	-0.006995	Mean dependent var	0.006700
Adjusted R-squared	-0.006995	S.D. dependent var	0.056043
S.E. of regression	0.056239	Akaike info criterion	-2.944137
Sum squared resid	0.632554	Schwarz criterion	-2.878400
Log likelihood	299.8858	Hannan-Quinn criter.	-2.917537
Durbin-Watson stat	2.074451		

Dependent Variable: RP
Method: ML - ARCH (Marquardt) - Normal distribution
Date: 09/10/21 Time: 16:51
Sample (adjusted): 268 1148
Included observations: 881 after adjustments
Convergence achieved after 18 iterations
Presample variance: backcast (parameter = 0.7)
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)

Variable	Coefficient	Std. Error	z-Statistic	Prob.
GARCH	2.407147	0.579359	4.154844	0.0000
Variance Equation				
C	8.08E-05	2.89E-05	2.799414	0.0051
RESID(-1)^2	0.090634	0.015256	5.941039	0.0000
GARCH(-1)	0.886843	0.018662	47.52012	0.0000

R-squared	-0.003076	Mean dependent var	0.005279
Adjusted R-squared	-0.003076	S.D. dependent var	0.053822
S.E. of regression	0.053905	Akaike info criterion	-3.083278
Sum squared resid	2.557020	Schwarz criterion	-3.061570
Log likelihood	1362.184	Hannan-Quinn criter.	-3.074977
Durbin-Watson stat	2.119864		

Dependent Variable: RP
Method: ML - ARCH (Marquardt) - Normal distribution
Date: 09/10/21 Time: 16:52
Sample (adjusted): 47 1148
Included observations: 1102 after adjustments
Convergence achieved after 23 iterations
Presample variance: backcast (parameter = 0.7)
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)

Variable	Coefficient	Std. Error	z-Statistic	Prob.
GARCH	0.978019	0.276593	3.535953	0.0004
Variance Equation				
C	4.24E-05	1.61E-05	2.635402	0.0084
RESID(-1)^2	0.097683	0.011882	8.221174	0.0000
GARCH(-1)	0.897222	0.010217	87.81637	0.0000

R-squared	-0.044099	Mean dependent var	0.007853
Adjusted R-squared	-0.044099	S.D. dependent var	0.111123
S.E. of regression	0.113547	Akaike info criterion	-2.495885
Sum squared resid	14.19504	Schwarz criterion	-2.477718
Log likelihood	1379.233	Hannan-Quinn criter.	-2.489013
Durbin-Watson stat	2.012901		

Dependent Variable: RP
Method: ML - ARCH (Marquardt) - Normal distribution
Date: 09/10/21 Time: 16:53
Sample (adjusted): 264 1148
Included observations: 885 after adjustments
Convergence achieved after 11 iterations
Presample variance: backcast (parameter = 0.7)
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)

Variable	Coefficient	Std. Error	z-Statistic	Prob.
GARCH	3.009788	0.707103	4.256505	0.0000
Variance Equation				
C	0.000235	0.000132	1.779484	0.0752
RESID(-1)^2	0.055684	0.021398	2.602250	0.0093
GARCH(-1)	0.841657	0.071549	11.76341	0.0000

R-squared	-0.000824	Mean dependent var	0.006251
Adjusted R-squared	-0.000824	S.D. dependent var	0.047658
S.E. of regression	0.047677	Akaike info criterion	-3.257392
Sum squared resid	2.009434	Schwarz criterion	-3.235762
Log likelihood	1445.396	Hannan-Quinn criter.	-3.249122
Durbin-Watson stat	2.230026		

Dependent Variable: RP
Method: ML - ARCH (Marquardt) - Normal distribution
Date: 09/10/21 Time: 16:33
Sample (adjusted): 279 1148
Included observations: 870 after adjustments
Convergence achieved after 16 iterations
Presample variance: backcast (parameter = 0.7)
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)

Variable	Coefficient	Std. Error	z-Statistic	Prob.
GARCH	2.825029	0.626652	4.508134	0.0000
Variance Equation				
C	0.000220	5.98E-05	3.678351	0.0002
RESID(-1)^2	0.161540	0.017374	9.297734	0.0000
GARCH(-1)	0.753639	0.034435	21.88600	0.0000

R-squared	0.014491	Mean dependent var	0.005727
Adjusted R-squared	0.014491	S.D. dependent var	0.053523
S.E. of regression	0.053133	Akaike info criterion	-3.269320
Sum squared resid	2.453333	Schwarz criterion	-3.247396
Log likelihood	1426.154	Hannan-Quinn criter.	-3.260931
Durbin-Watson stat	2.020615		

Ameren Corporation | Credit Ratings

NYSE:AEE (MI KEY: 4007308; SPCIQ KEY: 373264)

BBB+

S&P Global Ratings

Issuer Credit Rating (Foreign Currency LT)
12/4/2013

CreditWatch/Outlook: Stable
11/29/2018

Baa1

Moody's

Long Term Rating (LT Issuer Rating)
3/28/2019

Outlook:

Current Ratings

S&P GLOBAL RATINGS (S&P Entity Name:Ameren Corp.)

RATING TYPE	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating							
Foreign Currency LT	BBB+	12/4/2013	4/9/2021	BBB+	CreditWatch/Outlook	Stable	11/29/2018
Local Currency LT	BBB+	12/4/2013	4/9/2021	BBB+	CreditWatch/Outlook	Stable	11/29/2018
Foreign Currency ST	A-2	3/14/2013	4/9/2021	A-3	Upgrade		
Local Currency ST	A-2	3/14/2013	4/9/2021	A-3	Upgrade		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
Ratings Summary				
Long Term Rating (LT Issuer Rating)	Baa1	3/28/2019		
Short Term Rating (Commercial Paper Domestic)	P-2	3/28/2019		
Outlook		3/28/2019		Stable
Ratings Detail				
Senior Unsec. Shelf (Domestic)	(P)Baa1	10/28/2020	New	
LT Issuer Rating	Baa1	3/28/2019		
Senior Unsecured (Domestic)	Baa1	3/28/2019	Rating Affirmation	
Commercial Paper (Domestic)	P-2	3/28/2019		
Subordinate Shelf (Domestic)	WR	11/17/2016	Withdrawn	
Pref. Shelf (Domestic)	WR	4/2/2014	Withdrawn	
Senior Unsecured Bank Credit Facility (Domestic)	WR	7/17/2006	Withdrawn	

Ratings History

S&P GLOBAL RATINGS (S&P Entity Name:Ameren Corp.)

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Foreign Currency LT					
Issuer Credit Rating	BBB+	12/4/2013	CreditWatch/Outlook	Stable	11/29/2018
Issuer Credit Rating	BBB+	12/4/2013	CreditWatch/Outlook	Positive	11/22/2017
Issuer Credit Rating	BBB+	12/4/2013	Upgrade | CreditWatch/Outlook	Stable	12/4/2013
Issuer Credit Rating	BBB	3/14/2013	Upgrade | CreditWatch/Outlook	Watch Pos	3/14/2013
Issuer Credit Rating	BBB-	4/23/2007	CreditWatch/Outlook	Stable	4/3/2012
Issuer Credit Rating	BBB-	4/23/2007	CreditWatch/Outlook	Positive	11/22/2011
Issuer Credit Rating	BBB-	4/23/2007	CreditWatch/Outlook	Stable	8/29/2007
Issuer Credit Rating	BBB-	4/23/2007	Downgrade | CreditWatch/Outlook	Watch Neg	4/23/2007
Issuer Credit Rating	BBB	10/5/2006	Downgrade | CreditWatch/Outlook	Watch Neg	10/5/2006
Issuer Credit Rating	BBB+	10/3/2005	Downgrade | CreditWatch/Outlook	Watch Neg	10/3/2005
Issuer Credit Rating	A-	1/31/2003	CreditWatch/Outlook	Negative	7/30/2004
Issuer Credit Rating	A-	1/31/2003	CreditWatch/Outlook	Watch Neg	2/3/2004
Issuer Credit Rating	A-	1/31/2003	Downgrade | CreditWatch/Outlook	Stable	1/31/2003
Issuer Credit Rating	A+	1/5/1998	CreditWatch/Outlook	Watch Neg	4/29/2002
Issuer Credit Rating	A+	1/5/1998	CreditWatch/Outlook	Negative	10/5/2001
Issuer Credit Rating	A+	1/5/1998	CreditWatch/Outlook	Stable	9/25/2000
Issuer Credit Rating	A+	1/5/1998	CreditWatch/Outlook	Negative	1/27/2000
Issuer Credit Rating	A+	1/5/1998	New Rating | CreditWatch/Outlook	Stable	1/5/1998
Local Currency LT					

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating	BBB+	12/4/2013	CreditWatch/Outlook	Stable	11/29/2018
Issuer Credit Rating	BBB+	12/4/2013	CreditWatch/Outlook	Positive	11/22/2017
Issuer Credit Rating	BBB+	12/4/2013	Upgrade | CreditWatch/Outlook	Stable	12/4/2013
Issuer Credit Rating	BBB	3/14/2013	Upgrade | CreditWatch/Outlook	Watch Pos	3/14/2013
Issuer Credit Rating	BBB-	4/23/2007	CreditWatch/Outlook	Stable	4/3/2012
Issuer Credit Rating	BBB-	4/23/2007	CreditWatch/Outlook	Positive	11/22/2011
Issuer Credit Rating	BBB-	4/23/2007	CreditWatch/Outlook	Stable	8/29/2007
Issuer Credit Rating	BBB-	4/23/2007	Downgrade | CreditWatch/Outlook	Watch Neg	4/23/2007
Issuer Credit Rating	BBB	10/5/2006	Downgrade | CreditWatch/Outlook	Watch Neg	10/5/2006
Issuer Credit Rating	BBB+	10/3/2005	Downgrade | CreditWatch/Outlook	Watch Neg	10/3/2005
Issuer Credit Rating	A-	1/31/2003	CreditWatch/Outlook	Negative	7/30/2004
Issuer Credit Rating	A-	1/31/2003	CreditWatch/Outlook	Watch Neg	2/3/2004
Issuer Credit Rating	A-	1/31/2003	Downgrade | CreditWatch/Outlook	Stable	1/31/2003
Issuer Credit Rating	A+	1/5/1998	CreditWatch/Outlook	Watch Neg	4/29/2002
Issuer Credit Rating	A+	1/5/1998	CreditWatch/Outlook	Negative	10/5/2001
Issuer Credit Rating	A+	1/5/1998	CreditWatch/Outlook	Stable	9/25/2000
Issuer Credit Rating	A+	1/5/1998	CreditWatch/Outlook	Negative	1/27/2000
Issuer Credit Rating	A+	1/5/1998	New Rating | CreditWatch/Outlook	Stable	1/5/1998
Foreign Currency ST					
Issuer Credit Rating	A-2	3/14/2013	Upgrade		
Issuer Credit Rating	A-3	10/5/2006	CreditWatch/Outlook	NM	8/29/2007
Issuer Credit Rating	A-3	10/5/2006	Downgrade | CreditWatch/Outlook	Watch Neg	10/5/2006
Issuer Credit Rating	A-2	1/31/2003	CreditWatch/Outlook	Watch Neg	10/3/2005
Issuer Credit Rating	A-2	1/31/2003	Downgrade | CreditWatch/Outlook	NM	1/31/2003
Issuer Credit Rating	A-1	2/1/2000	CreditWatch/Outlook	Watch Neg	4/29/2002
Issuer Credit Rating	A-1	2/1/2000	New Rating		
Local Currency ST					
Issuer Credit Rating	A-2	3/14/2013	Upgrade		
Issuer Credit Rating	A-3	10/5/2006	CreditWatch/Outlook	NM	8/29/2007
Issuer Credit Rating	A-3	10/5/2006	Downgrade | CreditWatch/Outlook	Watch Neg	10/5/2006
Issuer Credit Rating	A-2	1/31/2003	CreditWatch/Outlook	Watch Neg	10/3/2005
Issuer Credit Rating	A-2	1/31/2003	Downgrade | CreditWatch/Outlook	NM	1/31/2003
Issuer Credit Rating	A-1	12/10/1999	CreditWatch/Outlook	Watch Neg	4/29/2002
Issuer Credit Rating	A-1	12/10/1999	New Rating		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
LT Issuer Rating	**Baa1**	**3/28/2019**	**Rating Affirmation**	
LT Issuer Rating	Baa1	11/20/2015	Rating Affirmation	
LT Issuer Rating	Baa1	4/7/2015	Upgrade	
LT Issuer Rating	Baa2	1/31/2014	Upgrade	
LT Issuer Rating	Baa3	11/8/2013	On Watch - Possible Upgrade	
LT Issuer Rating	Baa3	8/13/2008	Downgrade	
LT Issuer Rating	Baa2	5/21/2008	On Watch - Possible Downgrade	
LT Issuer Rating	Baa2	8/29/2007	On Watch - Confirm Only (P.R.)	
LT Issuer Rating	Baa2	3/12/2007	Downgrade	
LT Issuer Rating	Baa2	3/12/2007	On Watch - Possible Downgrade	
LT Issuer Rating	Baa1	10/10/2006	On Watch - Possible Downgrade	
LT Issuer Rating	Baa1	7/26/2006	On Watch - Confirm Only (P.R.)	
LT Issuer Rating	Baa1	12/15/2005	Downgrade	
LT Issuer Rating	Baa1	12/15/2005	On Watch - Possible Downgrade	
LT Issuer Rating	A3	9/30/2005	On Watch - Possible Downgrade	
LT Issuer Rating	A3	7/8/2004	On Watch - Confirm Only (P.R.)	
LT Issuer Rating	A3	2/4/2004	On Watch - Possible Downgrade	
LT Issuer Rating	A3	2/10/2003	Downgrade	
LT Issuer Rating	A2	4/29/2002	On Watch - Possible Downgrade	
LT Issuer Rating	A2	11/3/2000	On Watch - Confirm Only (P.R.)	

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
LT Issuer Rating	A2	12/10/1999	New	
Outlook		**3/28/2019**		**Stable**
Outlook		11/20/2015		Stable
Outlook		4/7/2015		Stable
Outlook		1/31/2014		Stable
Outlook		11/8/2013		Ratings Under Review
Outlook		8/13/2008		Stable
Outlook		5/21/2008		Ratings Under Review
Outlook		2/12/2008		Negative
Outlook		8/29/2007		Stable
Outlook		10/10/2006		Ratings Under Review
Outlook		7/26/2006		Negative
Outlook		9/30/2005		Ratings Under Review
Outlook		7/8/2004		Stable
Outlook		2/4/2004		Ratings Under Review
Outlook		11/15/2003		Stable

Subsidiaries

SUBSIDIARY	AGENCY	DEBT TYPE (RATING TYPE)	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	CREDITWATCH / OUTLOOK	CREDITWATCH / OUTLOOK DATE
Ameren Capital Trust I	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	1/31/2014				
Ameren Capital Trust II	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	1/31/2014				
Ameren Illinois Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	BBB+	12/4/2013	4/9/2021	BBB+	Stable	11/29/2018
	Moody's	Long Term Rating (LT Issuer Rating)	A3	3/28/2019				
Ameren Transmission Co. of Illinois	Moody's	Long Term Rating (LT Issuer Rating Domestic)	A2	6/20/2017				
Central Illinois Light Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	12/27/2010		BBB-	NR	12/27/2010
	Moody's	Long Term Rating (BACKED Senior Secured Domestic)	A1	3/28/2019				
Illinois Power Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	12/27/2010		BBB-	NR	12/27/2010
	Moody's	Long Term Rating (Pref. Stock Domestic)	Baa2	3/28/2019				
Illinois Power Financing I	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	11/4/1998		BBB-	NR	11/4/1998
	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	7/30/2004				
Missouri Edison Co.	Moody's	Long Term Rating (First Mortgage Bonds Domestic)	WR	6/1/1995				
Missouri Power & Light Company	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	9/26/2000		AA-	NR	9/26/2000
	Moody's	Long Term Rating (First Mortgage Bonds Domestic)	WR	4/1/1997				
Union Electric Capital Trust I	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	8/11/2011				
Union Electric Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	BBB+	12/4/2013	4/9/2021	BBB+	Stable	11/29/2018
	Moody's	Long Term Rating (LT Issuer Rating)	Baa1	3/28/2019				

Market Intelligence News

HEADLINE	DATE
"[U.S.] investor-owned utilities will likely face higher underfunded pension liabilities as a result of the market turmoil caused by the coronavirus outbreak," Moody's analysts wrote in an April 16 report. Coronavirus could increase US utilities' pension liabilities – Moody's	4/17/2020 11:44:00 AM ET
"You have a variety of players who are interested, whether it be infrastructure players or whether it be traditional utility companies or utility holding companies," Glenrock Associates analyst Paul Patterson said. Evergy strategic review could be setting up utility for M&A	3/11/2020 8:44:00 AM ET
After falling dramatically along with the broader sell-off on March 9, U.S. utility stocks rallied on March 10 before ending the day mixed. US utilities still offer shelter in turbulent market, analysts say	3/10/2020 5:06:00 PM ET
"We think that the economics make sense that the utilities in general should be pursuing this just because it seems to benefit everybody," Morgan Stanley analyst Stephen Byrd said in a Feb. 11 phone interview. Morgan Stanley: $64B capex upside for utilities replacing coal with renewables	2/18/2020 9:16:00 AM ET
Activist investor Elliott Management is pushing Evergy to explore alternative financial plans, including a potential merger, to unlock up to $5 billion in value. Analyst sees Ameren, NextEra as 'logical suitors' for Evergy	1/27/2020 4:10:00 PM ET

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Avista Corporation | Credit Ratings

NYSE:AVA (MI KEY: 4057075; SPCIQ KEY: 100918)

BBB

S&P Global Ratings

Issuer Credit Rating (Foreign Currency LT)
3/2/2011

CreditWatch/Outlook: Stable
12/10/2018

Baa2

Moody's

Long Term Rating (LT Issuer Rating)
12/20/2018

Outlook:

Current Ratings

S&P GLOBAL RATINGS (S&P Entity Name:Avista Corp.)

RATING TYPE	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating							
Foreign Currency LT	BBB	3/2/2011	5/20/2021	BBB	CreditWatch/Outlook	Stable	12/10/2018
Local Currency LT	BBB	3/2/2011	5/20/2021	BBB	CreditWatch/Outlook	Stable	12/10/2018
Foreign Currency ST	A-2	3/2/2011	5/20/2021	A-2	CreditWatch/Outlook	NM	12/10/2018
Local Currency ST	A-2	3/2/2011	5/20/2021	A-2	CreditWatch/Outlook	NM	12/10/2018

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
Ratings Summary				
Long Term Rating (LT Issuer Rating)	Baa2	12/20/2018	Downgrade	
Short Term Rating (Commercial Paper Domestic)	WR	12/22/1994	Withdrawn	
Outlook		12/20/2018		Stable
Ratings Detail				
First Mortgage Bonds (Domestic)	A3	12/20/2018	Downgrade	
Senior Secured (Domestic)	A3	12/20/2018	Downgrade	
Senior Secured MTN (Domestic)	(P)A3	12/20/2018	Downgrade	
Senior Unsecured MTN (Domestic)	(P)Baa2	12/20/2018	Downgrade	
LT Issuer Rating	Baa2	12/20/2018	Downgrade	
Underlying First Mortgage Bonds (Domestic)	A3	12/20/2018	Downgrade	
Senior Secured Shelf (Domestic)	WR	11/18/2016	Withdrawn	
Senior Unsec. Shelf (Domestic)	WR	11/18/2016	Withdrawn	
Pref. Shelf (Domestic)	WR	12/8/2012	Withdrawn	
BACKED Senior Secured (Domestic)	WR	1/2/2012	Withdrawn	
Underlying Senior Secured (Domestic)	WR	1/2/2012	Withdrawn	
Senior Secured Bank Credit Facility (Domestic)	WR	12/14/2011	Withdrawn	
Senior Unsecured (Domestic)	WR	6/1/2008	Withdrawn	
Pref. Stock (Domestic)	WR	12/3/2007	Withdrawn	
BACKED LT IRB/PC (Domestic)	WR	5/13/2005	Withdrawn	
Subordinate Shelf (Domestic)	WR	7/27/2001	Withdrawn	
Junior Subordinate (Domestic)	WR	7/27/2001	Withdrawn	
Senior Unsecured Bank Credit Facility (Domestic)	WR	6/30/2001	Withdrawn	
Commercial Paper (Domestic)	WR	12/22/1994	Withdrawn	

Ratings History

S&P GLOBAL RATINGS (S&P Entity Name:Avista Corp.)

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Foreign Currency LT					
Issuer Credit Rating	BBB	3/2/2011	CreditWatch/Outlook	Stable	12/10/2018
Issuer Credit Rating	BBB	3/2/2011	CreditWatch/Outlook	Watch Pos	6/15/2018
Issuer Credit Rating	BBB	3/2/2011	CreditWatch/Outlook	Positive	7/19/2017
Issuer Credit Rating	BBB	3/2/2011	Upgrade | CreditWatch/Outlook	Stable	3/2/2011

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating	BBB-	2/7/2008	CreditWatch/Outlook	Positive	8/10/2009
Issuer Credit Rating	BBB-	2/7/2008	Upgrade | CreditWatch/Outlook	Stable	2/7/2008
Issuer Credit Rating	BB+	10/10/2001	CreditWatch/Outlook	Positive	4/17/2007
Issuer Credit Rating	BB+	10/10/2001	CreditWatch/Outlook	Stable	12/18/2002
Issuer Credit Rating	BB+	10/10/2001	Downgrade | CreditWatch/Outlook	Negative	10/10/2001
Issuer Credit Rating	BBB-	8/2/2001	Downgrade | CreditWatch/Outlook	Watch Neg	8/2/2001
Issuer Credit Rating	BBB	8/1/2000	Downgrade | CreditWatch/Outlook	Negative	8/1/2000
Issuer Credit Rating	BBB+	8/24/1999	Downgrade | CreditWatch/Outlook	Watch Neg	8/24/1999
Issuer Credit Rating	A	7/1/1996	CreditWatch/Outlook	Negative	8/18/1998
Issuer Credit Rating	A	7/1/1996	Upgrade | CreditWatch/Outlook	Stable	7/1/1996
Issuer Credit Rating	A-	4/9/1986	CreditWatch/Outlook	Stable	6/8/1988
Issuer Credit Rating	A-	4/9/1986	Upgrade | CreditWatch/Outlook	Negative	4/9/1986
Issuer Credit Rating	BBB+	3/10/1982	Downgrade		
Issuer Credit Rating	A-	12/21/1979	Downgrade		
Issuer Credit Rating	A	4/10/1970	Upgrade		
Issuer Credit Rating	BBB	12/1/1965	Downgrade		
Issuer Credit Rating	A	6/20/1957	Downgrade		
Issuer Credit Rating	AA	9/9/1952	New Rating		
Local Currency LT					
Issuer Credit Rating	BBB	3/2/2011	CreditWatch/Outlook	Stable	12/10/2018
Issuer Credit Rating	BBB	3/2/2011	CreditWatch/Outlook	Watch Pos	6/15/2018
Issuer Credit Rating	BBB	3/2/2011	CreditWatch/Outlook	Positive	7/19/2017
Issuer Credit Rating	BBB	3/2/2011	Upgrade | CreditWatch/Outlook	Stable	3/2/2011
Issuer Credit Rating	BBB-	2/7/2008	CreditWatch/Outlook	Positive	8/10/2009
Issuer Credit Rating	BBB-	2/7/2008	Upgrade | CreditWatch/Outlook	Stable	2/7/2008
Issuer Credit Rating	BB+	10/10/2001	CreditWatch/Outlook	Positive	4/17/2007
Issuer Credit Rating	BB+	10/10/2001	CreditWatch/Outlook	Stable	12/18/2002
Issuer Credit Rating	BB+	10/10/2001	Downgrade | CreditWatch/Outlook	Negative	10/10/2001
Issuer Credit Rating	BBB-	8/2/2001	Downgrade | CreditWatch/Outlook	Watch Neg	8/2/2001
Issuer Credit Rating	BBB	8/1/2000	Downgrade | CreditWatch/Outlook	Negative	8/1/2000
Issuer Credit Rating	BBB+	8/24/1999	Downgrade | CreditWatch/Outlook	Watch Neg	8/24/1999
Issuer Credit Rating	A	7/1/1996	CreditWatch/Outlook	Negative	8/18/1998
Issuer Credit Rating	A	7/1/1996	Upgrade | CreditWatch/Outlook	Stable	7/1/1996
Issuer Credit Rating	A-	4/9/1986	CreditWatch/Outlook	Stable	6/8/1988
Issuer Credit Rating	A-	4/9/1986	Upgrade | CreditWatch/Outlook	Negative	4/9/1986
Issuer Credit Rating	BBB+	3/10/1982	Downgrade		
Issuer Credit Rating	A-	12/21/1979	Downgrade		
Issuer Credit Rating	A	4/10/1970	Upgrade		
Issuer Credit Rating	BBB	12/1/1965	Downgrade		
Issuer Credit Rating	A	6/20/1957	Downgrade		
Issuer Credit Rating	AA	9/9/1952	New Rating		
Foreign Currency ST					
Issuer Credit Rating	A-2	3/2/2011	CreditWatch/Outlook	NM	12/10/2018
Issuer Credit Rating	A-2	3/2/2011	CreditWatch/Outlook	Watch Pos	6/15/2018
Issuer Credit Rating	A-2	3/2/2011	Upgrade		
Issuer Credit Rating	A-3	2/7/2008	Upgrade		
Issuer Credit Rating	B-1	9/22/2005	Upgrade		
Issuer Credit Rating	B-2	4/19/2005	New Rating		
Local Currency ST					
Issuer Credit Rating	A-2	3/2/2011	CreditWatch/Outlook	NM	12/10/2018
Issuer Credit Rating	A-2	3/2/2011	CreditWatch/Outlook	Watch Pos	6/15/2018
Issuer Credit Rating	A-2	3/2/2011	Upgrade		

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating	A-3	2/7/2008	Upgrade		
Issuer Credit Rating	B-1	9/22/2005	Upgrade		
Issuer Credit Rating	B-2	4/19/2005	New Rating		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
LT Issuer Rating	**Baa2**	**12/20/2018**	**Downgrade**	
LT Issuer Rating	Baa1	1/19/2018	Rating Affirmation	
LT Issuer Rating	Baa1	7/19/2017	Rating Affirmation	
LT Issuer Rating	Baa1	1/30/2014	Upgrade	
LT Issuer Rating	Baa2	11/8/2013	On Watch - Possible Upgrade	
LT Issuer Rating	Baa2	3/16/2011	Upgrade	
LT Issuer Rating	Baa3	2/3/2011	On Watch - Possible Upgrade	
LT Issuer Rating	Baa3	12/20/2007	Upgrade	
LT Issuer Rating	Ba1	6/22/2007	On Watch - Possible Upgrade	
LT Issuer Rating	Ba1	10/8/2001	Downgrade	
LT Issuer Rating	Baa2	3/22/2001	On Watch - Confirm Only (P.R.)	
LT Issuer Rating	Baa2	7/27/2000	Downgrade	
LT Issuer Rating	Baa2	7/27/2000	On Watch - Possible Downgrade	
LT Issuer Rating	Baa1	6/22/2000	On Watch - Possible Downgrade	
LT Issuer Rating	Baa1	11/23/1999	On Watch - Confirm Only (P.R.)	
LT Issuer Rating	Baa1	8/17/1998	On Watch - Confirm Only (P.R.)	
LT Issuer Rating	Baa1	6/3/1997	On Watch - Confirm Only (P.R.)	
LT Issuer Rating	Baa1	7/1/1996	On Watch - Confirm Only (P.R.)	
LT Issuer Rating	Baa1	5/11/1995	New	
Outlook		**12/20/2018**		**Stable**
Outlook		1/19/2018		Negative
Outlook		7/19/2017		Stable
Outlook		1/30/2014		Stable
Outlook		11/8/2013		Ratings Under Review
Outlook		3/16/2011		Stable
Outlook		2/3/2011		Ratings Under Review
Outlook		8/12/2009		Positive
Outlook		12/20/2007		Stable
Outlook		6/22/2007		Ratings Under Review
Outlook		3/12/2004		Stable
Outlook		11/15/2003		Negative

Subsidiaries

SUBSIDIARY	AGENCY	DEBT TYPE (RATING TYPE)	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	CREDITWATCH / OUTLOOK	CREDITWATCH / OUTLOOK DATE
Alaska Electric Light and Power Co.	Moody's	Long Term Rating (LT Issuer Rating Domestic)	Baa3	7/27/2015				
AVA Capital Trust III	Moody's	Long Term Rating (BACKED Subordinate Shelf Domestic)	WR	6/4/2004				
Avista Capital I	Moody's	Long Term Rating (BACKED Subordinate Shelf Domestic)	WR	6/24/1997				
Avista Capital II	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	Baa3	12/20/2018				

Market Intelligence News

HEADLINE	DATE
The Williams Capital Group lowered its rating on Avista Corp. to "sell" from "hold," citing valuation and an unfavorable recommendation for refunds by Washington Utilities and Transportation Commission staff. Williams Capital Group downgrades Avista to 'sell'	9/18/2019 6:29:00 AM ET

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Black Hills Corporation | Credit Ratings

NYSE:BKH (MI KEY: 4010420; SPCIQ KEY: 255902)

BBB+

S&P Global Ratings

Issuer Credit Rating (Foreign Currency LT)
8/9/2018

Upgrade | CreditWatch/Outlook: Stable
8/9/2018

Baa2

Moody's

Long Term Rating (LT Issuer Rating)
12/19/2019

Outlook:

Current Ratings

S&P GLOBAL RATINGS (S&P Entity Name:Black Hills Corp.)

RATING TYPE	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating							
Foreign Currency LT	BBB+	8/9/2018	7/1/2021	BBB	Upgrade | CreditWatch/Outlook	Stable	8/9/2018
Local Currency LT	BBB+	8/9/2018	7/1/2021	BBB	Upgrade | CreditWatch/Outlook	Stable	8/9/2018
Foreign Currency ST	A-2	12/22/2016	7/1/2021	NR	New Rating		
Local Currency ST	A-2	12/22/2016	7/1/2021	NR	New Rating		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
Ratings Summary				
Long Term Rating (LT Issuer Rating)	Baa2	12/19/2019		
Short Term Rating (Commercial Paper Domestic)	P-2	12/19/2019		
Outlook		12/19/2019		Stable
Ratings Detail				
Senior Unsecured Bank Credit Facility (Domestic)	Baa2	7/20/2021	New	
Senior Unsec. Shelf (Domestic)	(P)Baa2	8/14/2020	New	
Subordinate Shelf (Domestic)	(P)Baa3	8/14/2020	New	
Pref. Shelf (Domestic)	(P)Ba1	8/14/2020	New	
Commercial Paper (Domestic)	P-2	12/19/2019		
Senior Unsecured (Domestic)	Baa2	12/19/2019		
LT Issuer Rating	Baa2	12/19/2019		
Senior Secured Bank Credit Facility (Domestic)	WR	7/30/2018	Withdrawn	

Ratings History

S&P GLOBAL RATINGS (S&P Entity Name:Black Hills Corp.)

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Foreign Currency LT					
Issuer Credit Rating	BBB+	8/9/2018	Upgrade | CreditWatch/Outlook	Stable	8/9/2018
Issuer Credit Rating	BBB	7/24/2013	CreditWatch/Outlook	Positive	3/8/2018
Issuer Credit Rating	BBB	7/24/2013	Upgrade | CreditWatch/Outlook	Stable	7/24/2013
Issuer Credit Rating	BBB-	5/13/2003	CreditWatch/Outlook	Positive	10/16/2012
Issuer Credit Rating	BBB-	5/13/2003	CreditWatch/Outlook	Stable	2/15/2007
Issuer Credit Rating	BBB-	5/13/2003	CreditWatch/Outlook	Negative	5/1/2006
Issuer Credit Rating	BBB-	5/13/2003	CreditWatch/Outlook	Watch Neg	2/9/2006
Issuer Credit Rating	BBB-	5/13/2003	CreditWatch/Outlook	Negative	12/11/2003
Issuer Credit Rating	BBB-	5/13/2003	Downgrade | CreditWatch/Outlook	Stable	5/13/2003
Issuer Credit Rating	BBB	12/4/2001	New Rating | CreditWatch/Outlook	Stable	12/4/2001
Local Currency LT					
Issuer Credit Rating	BBB+	8/9/2018	Upgrade | CreditWatch/Outlook	Stable	8/9/2018
Issuer Credit Rating	BBB	7/24/2013	CreditWatch/Outlook	Positive	3/8/2018
Issuer Credit Rating	BBB	7/24/2013	Upgrade | CreditWatch/Outlook	Stable	7/24/2013
Issuer Credit Rating	BBB-	5/13/2003	CreditWatch/Outlook	Positive	10/16/2012

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating	BBB-	5/13/2003	CreditWatch/Outlook	Stable	2/15/2007
Issuer Credit Rating	BBB-	5/13/2003	CreditWatch/Outlook	Negative	5/1/2006
Issuer Credit Rating	BBB-	5/13/2003	CreditWatch/Outlook	Watch Neg	2/9/2006
Issuer Credit Rating	BBB-	5/13/2003	CreditWatch/Outlook	Negative	12/11/2003
Issuer Credit Rating	BBB-	5/13/2003	Downgrade | CreditWatch/Outlook	Stable	5/13/2003
Issuer Credit Rating	BBB	12/4/2001	New Rating | CreditWatch/Outlook	Stable	12/4/2001
Foreign Currency ST					
Issuer Credit Rating	A-2	12/22/2016	New Rating		
Issuer Credit Rating	NR	5/13/2003	Not Rated		
Issuer Credit Rating	A-2	12/4/2001	New Rating		
Local Currency ST					
Issuer Credit Rating	A-2	12/22/2016	New Rating		
Issuer Credit Rating	NR	5/13/2003	Not Rated		
Issuer Credit Rating	A-2	12/4/2001	New Rating		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
LT Issuer Rating	**Baa2**	**12/19/2019**	**Rating Affirmation**	
LT Issuer Rating	Baa2	12/9/2016	Downgrade	
LT Issuer Rating	Baa1	2/12/2016	Rating Affirmation	
LT Issuer Rating	Baa1	7/14/2015	Rating Affirmation	
LT Issuer Rating	Baa1	1/30/2014	Upgrade	
LT Issuer Rating	Baa2	11/8/2013	On Watch - Possible Upgrade	
LT Issuer Rating	Baa2	9/25/2013	Upgrade	
LT Issuer Rating	Baa3	5/13/2003	On Watch - Confirm Only (P.R.)	
LT Issuer Rating	Baa3	12/20/2002	Downgrade	
LT Issuer Rating	A3	7/26/2002	On Watch - Possible Downgrade	
LT Issuer Rating	A3	6/26/2001	New	
Outlook		**12/19/2019**		**Stable**
Outlook		12/9/2016		Stable
Outlook		2/12/2016		Negative
Outlook		7/14/2015		Negative
Outlook		1/30/2014		Stable
Outlook		11/8/2013		Ratings Under Review
Outlook		9/25/2013		Positive
Outlook		10/18/2012		Positive
Outlook		7/15/2008		Stable
Outlook		2/7/2007		Negative
Outlook		6/2/2005		Stable
Outlook		11/15/2003		Negative

Subsidiaries

SUBSIDIARY	AGENCY	DEBT TYPE (RATING TYPE)	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	CREDITWATCH / OUTLOOK	CREDITWATCH / OUTLOOK DATE
Black Hills Gas LLC	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	7/21/2017		BBB	NR	7/21/2017
	Moody's	Long Term Rating (LT Corporate Family Ratings Domestic)	WR	12/1/2011				
Black Hills Power Inc.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	BBB+	8/9/2018	7/1/2021	BBB	Stable	8/9/2018
	Moody's	Long Term Rating (LT Issuer Rating)	A3	12/19/2019				

Market Intelligence News

HEADLINE	DATE
Governance risks are a key factor in the credit quality for all debt issuers, including for publicly traded companies, the bond credit rating agency found. Moody's: North American utilities generally practice credit-friendly governance	9/20/2019 3:33:00 PM ET

S&P Credit Ratings and Research provided by

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Ratings

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CMS Energy Corporation | Credit Ratings

NYSE:CMS (MI KEY: 4004172; SPCIQ KEY: 257682)

BBB+

S&P Global Ratings

Issuer Credit Rating (Foreign Currency LT)
12/3/2014

Upgrade | CreditWatch/Outlook: Stable
12/3/2014

Baa2

Moody's

Long Term Rating (Senior Unsecured Domestic)
5/3/2021

Outlook:

Current Ratings

S&P GLOBAL RATINGS (S&P Entity Name:CMS Energy Corp.)

RATING TYPE	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	ACTION	CREDITWATCH/ OUTLOOK
Issuer Credit Rating						
Foreign Currency LT	BBB+	12/3/2014	6/14/2021	BBB	Upgrade | CreditWatch/Outlook	Stable
Local Currency LT	BBB+	12/3/2014	6/14/2021	BBB	Upgrade | CreditWatch/Outlook	Stable
Foreign Currency ST	A-2	3/18/2013	6/14/2021	A-3	Upgrade	
Local Currency ST	A-2	3/18/2013	6/14/2021	A-3	Upgrade	

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
Ratings Summary				
Long Term Rating (Senior Unsecured Domestic)	Baa2	5/3/2021	Downgrade	
Short Term Rating (Speculative Grade Liquidity Rating)	WR	6/8/2007	Withdrawn	
Outlook		5/3/2021		Stable
Ratings Detail				
Senior Secured Bank Credit Facility (Domestic)	A1	7/13/2021	New	
Pref. Stock (Domestic)	Ba1	6/25/2021	New	
Senior Unsecured (Domestic)	Baa2	5/3/2021	Downgrade	
Senior Unsecured Bank Credit Facility (Domestic)	Baa2	5/3/2021	Downgrade	
Junior Subordinate (Domestic)	Baa3	5/3/2021	Downgrade	
Senior Unsec. Shelf (Domestic)	WR	3/1/2020	Withdrawn	
Subordinate Shelf (Domestic)	WR	6/14/2014	Withdrawn	
Pref. Shelf (Domestic)	WR	6/14/2014	Withdrawn	
Speculative Grade Liquidity Rating	WR	6/8/2007	Withdrawn	
LT Corporate Family Ratings (Domestic)	WR	6/8/2007	Withdrawn	
LGD Senior Unsecured (Domestic)	WR	6/8/2007	Withdrawn	
LGD Pref. Stock (Domestic)	WR	6/8/2007	Withdrawn	
LGD Pref. Shelf (Domestic)	WR	6/8/2007	Withdrawn	
Probability of Default	WR	6/8/2007	Withdrawn	
LGD Senior Secured Bank Credit Facility (Domestic)	WR	6/8/2007	Withdrawn	
Senior Unsecured MTN (Domestic)	WR	9/26/2006	Withdrawn	
Subordinate (Domestic)	WR	8/10/2006	Withdrawn	
Junior Subord. Shelf (Domestic)	WR	6/27/2006	Withdrawn	
Senior Subordinate Shelf (Domestic)	WR	6/27/2006	Withdrawn	
Senior Secured Shelf (Domestic)	WR	6/11/2002	Withdrawn	
Senior Secured (Domestic)	WR	10/1/1999	Withdrawn	

Ratings History

S&P GLOBAL RATINGS (S&P Entity Name:CMS Energy Corp.)

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CI O
Foreign Currency LT					
Issuer Credit Rating	BBB+	12/3/2014	Upgrade | CreditWatch/Outlook	Stable	1
Issuer Credit Rating	BBB	3/18/2013	CreditWatch/Outlook	Positive	3
Issuer Credit Rating	BBB	3/18/2013	Upgrade | CreditWatch/Outlook	Stable	3
Issuer Credit Rating	BBB-	5/9/2007	CreditWatch/Outlook	Positive	5
Issuer Credit Rating	BBB-	5/9/2007	Upgrade | CreditWatch/Outlook	Stable	5
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Watch Pos	2
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Stable	1

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CI O
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Watch Neg	1
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Stable	1
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Negative	7
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Watch Neg	5
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Positive	3
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Stable	7
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Positive	1
Issuer Credit Rating	BB	6/16/1994	Downgrade | CreditWatch/Outlook	Stable	6
Issuer Credit Rating	BB+	9/18/1992	CreditWatch/Outlook	Stable	6
Issuer Credit Rating	BB+	9/18/1992	CreditWatch/Outlook	Negative	1
Issuer Credit Rating	BB+	9/18/1992	CreditWatch/Outlook	Stable	5
Issuer Credit Rating	BB+	9/18/1992	New Rating | CreditWatch/Outlook	Watch Neg	9
Local Currency LT					
Issuer Credit Rating	BBB+	12/3/2014	Upgrade | CreditWatch/Outlook	Stable	1
Issuer Credit Rating	BBB	3/18/2013	CreditWatch/Outlook	Positive	3
Issuer Credit Rating	BBB	3/18/2013	Upgrade | CreditWatch/Outlook	Stable	3
Issuer Credit Rating	BBB-	5/9/2007	CreditWatch/Outlook	Positive	5
Issuer Credit Rating	BBB-	5/9/2007	Upgrade | CreditWatch/Outlook	Stable	5
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Watch Pos	2
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Stable	1
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Watch Neg	1
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Stable	1
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Negative	7
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Watch Neg	5
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Positive	3
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Stable	7
Issuer Credit Rating	BB	6/16/1994	CreditWatch/Outlook	Positive	1
Issuer Credit Rating	BB	6/16/1994	Downgrade | CreditWatch/Outlook	Stable	6
Issuer Credit Rating	BB+	9/18/1992	CreditWatch/Outlook	Stable	6
Issuer Credit Rating	BB+	9/18/1992	CreditWatch/Outlook	Negative	1
Issuer Credit Rating	BB+	9/18/1992	CreditWatch/Outlook	Stable	5
Issuer Credit Rating	BB+	9/18/1992	New Rating | CreditWatch/Outlook	Watch Neg	9
Foreign Currency ST					
Issuer Credit Rating	A-2	3/18/2013	Upgrade		
Issuer Credit Rating	A-3	5/9/2007	Upgrade | CreditWatch/Outlook	NM	5
Issuer Credit Rating	B-1	4/19/2005	CreditWatch/Outlook	Watch Pos	2
Issuer Credit Rating	B-1	4/19/2005	CreditWatch/Outlook	NM	1
Issuer Credit Rating	B-1	4/19/2005	CreditWatch/Outlook	Watch Neg	1
Issuer Credit Rating	B-1	4/19/2005	New Rating		
Local Currency ST					
Issuer Credit Rating	A-2	3/18/2013	Upgrade		
Issuer Credit Rating	A-3	5/9/2007	Upgrade | CreditWatch/Outlook	NM	5
Issuer Credit Rating	B-1	4/19/2005	CreditWatch/Outlook	Watch Pos	2
Issuer Credit Rating	B-1	4/19/2005	CreditWatch/Outlook	NM	1
Issuer Credit Rating	B-1	4/19/2005	CreditWatch/Outlook	Watch Neg	1
Issuer Credit Rating	B-1	4/19/2005	New Rating		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
LT Corporate Family Ratings (Domestic)	**WR**	**6/8/2007**	**Withdrawn**	
LT Corporate Family Ratings (Domestic)	Ba1	8/10/2006	Upgrade	
LT Corporate Family Ratings (Domestic)	Ba3	6/28/2006	On Watch - Possible Upgrade	
LT Corporate Family Ratings (Domestic)	Ba3	12/22/2004	Upgrade	
LT Corporate Family Ratings (Domestic)	B2	7/26/2004	On Watch - Possible Upgrade	
LT Corporate Family Ratings (Domestic)	B2	5/30/2003	On Watch - Confirm Only (P.R.)	
LT Corporate Family Ratings (Domestic)	B2	6/12/2002	New	
LT Corporate Family Ratings (Domestic)	B2	6/12/2002	On Watch - Possible Downgrade	
Probability of Default	**WR**	**6/8/2007**	**Withdrawn**	
Probability of Default	Ba2-PD	9/27/2006	New	

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
Speculative Grade Liquidity Rating	**WR**	**6/8/2007**	**Withdrawn**	
Speculative Grade Liquidity Rating	SGL-2	12/22/2004	Upgrade	
Speculative Grade Liquidity Rating	SGL-3	8/5/2004	Upgrade	
Speculative Grade Liquidity Rating	SGL-4	7/26/2004	On Watch - Confirm Only (P.R.)	
Speculative Grade Liquidity Rating	SGL-4	5/30/2003	New	
Outlook		**5/3/2021**		**Stable**
Outlook		7/1/2020		Negative
Outlook		4/18/2017		Stable
Outlook		3/14/2016		Positive
Outlook		1/31/2014		Stable
Outlook		11/8/2013		Ratings Under Review
Outlook		3/15/2013		Stable
Outlook		3/9/2012		Positive
Outlook		6/8/2007		Stable
Outlook		2/13/2007		Positive
Outlook		8/10/2006		Stable
Outlook		6/28/2006		Ratings Under Review
Outlook		12/22/2004		Stable
Outlook		7/26/2004		Ratings Under Review
Outlook		11/15/2003		Stable

Subsidiaries

SUBSIDIARY	AGENCY	DEBT TYPE (RATING TYPE)	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	CREDITWAT / OUTLOOK
CMS Energy Michigan L.P.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	12/3/2014		BBB	NR
	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	1/30/2004			
CMS Energy Trust I	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	3/14/2016			
CMS Energy Trust II	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	7/1/2002			
CMS Energy Trust III	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	8/18/2003			
CMS Energy Trust IV	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	6/14/2014			
CMS Energy Trust V	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	6/14/2014			
CMS Energy X-Tras Pass-through Trust I	Moody's	Long Term Rating (Senior Unsecured Domestic)	WR	1/15/2005			
CMS Enterprises Co.	Moody's	Long Term Rating (BACKED Senior Secured Bank Credit Facility Domestic)	WR	1/30/2004			
Consumers Energy Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	10/30/2019	6/14/2021	BBB+	Stable
	Moody's	Long Term Rating (Pref. Stock Domestic)	Baa1	5/3/2021			
Consumers Energy Company Financing II	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	2/25/2005			
Consumers Energy Company Financing III	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	1/24/2005			
Consumers Energy Company Financing IV	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	6/30/2006			
Consumers Energy Company Financing V	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	9/18/2008			
Consumers Energy Company Financing VI	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	9/18/2008			
Consumers Power Company Financing I	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	12/3/2014		BBB	NR
	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	2/1/2005			

Market Intelligence News

HEADLINE	DATE
J.D. Power released a 2021 sustainability index report that showed utility companies have work to do in order to inform consumers about efforts to reduce greenhouse emissions. JD Power study finds few customers aware of utility clean energy goals	7/23/2021 12:30:00 PM ET
Although CMS and its principal subsidiary Consumers Energy have had consistent financial results, their regulatory equity capitalization has declined over the past three years, Moody's said. Moody's downgrades CMS, Consumers Energy	5/4/2021 4:42:00 PM ET
Warm weather, residential power sales help utilities offset demand declines While major questions about public health and the strength of the economy loom over the second half of 2020, even those utilities that experienced large demand declines in April saw power sales improve in subsequent months.	8/4/2020 12:06:00 PM ET
All the ratings were affirmed, including the Baa1 senior unsecured rating of CMS Energy and the Aa3 senior secured and Prime-1 short-term commercial paper ratings of Consumers Energy. Moody's lowers outlook on CMS, Consumers Energy to negative	7/2/2020 4:48:00 PM ET
CreditSights downgrades Duke Energy bonds to 'underperform' CreditSights on April 16 downgraded Duke Energy's holding company bonds to "underperform" based mostly on valuation but also on potential Atlantic Coast pipeline and coal ash recovery concerns.	4/16/2020 12:16:00 PM ET

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'Last Review Date' indicates the date on which an Issue/Issuer Credit Rating was last formally reviewed within a twelve-month period or when a Credit Rating Action was last published. For certain dependent instruments, t
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Duke Energy Corporation | Credit Ratings

NYSE:DUK (MI KEY: 4121470; SPCIQ KEY: 267850)

BBB+

S&P Global Ratings

Issuer Credit Rating (Foreign Currency LT)
1/26/2021

Downgrade | CreditWatch/Outlook: Stable
1/26/2021

Baa2

Moody's

Long Term Rating (LT Issuer Rating Domestic)
3/26/2021

Outlook:

Current Ratings

S&P GLOBAL RATINGS (S&P Entity Name:Duke Energy Corp.)

RATING TYPE	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating							
Foreign Currency LT	BBB+	1/26/2021	4/21/2021	A-	Downgrade | CreditWatch/Outlook	Stable	1/26/2021
Local Currency LT	BBB+	1/26/2021	4/21/2021	A-	Downgrade | CreditWatch/Outlook	Stable	1/26/2021
Foreign Currency ST	A-2	9/26/2008	4/21/2021	A-2	CreditWatch/Outlook	NM	7/25/2012
Local Currency ST	A-2	9/26/2008	4/21/2021	A-2	CreditWatch/Outlook	NM	7/25/2012

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
Ratings Summary				
Long Term Rating (LT Issuer Rating Domestic)	Baa2	3/26/2021	Downgrade	
Short Term Rating (Commercial Paper Domestic)	P-2	3/26/2021	Rating Affirmation	
Outlook		3/26/2021		Stable
Ratings Detail				
Senior Unsecured Bank Credit Facility (Domestic)	Baa2	4/7/2021	New	
LT Issuer Rating (Domestic)	Baa2	3/26/2021	Downgrade	
Junior Subordinate (Domestic)	Baa3	3/26/2021	Downgrade	
Pref. Stock (Domestic)	Ba1	3/26/2021	Downgrade	
Senior Unsec. Shelf (Domestic)	(P)Baa2	3/26/2021	Downgrade	
Senior Unsecured (Domestic)	Baa2	3/26/2021	Downgrade	
Pref. Shelf (Domestic)	(P)Ba1	3/26/2021	Downgrade	
Commercial Paper (Domestic)	P-2	3/26/2021	Rating Affirmation	
Senior Unsecured MTN (Domestic)	WR	11/16/2016	Withdrawn	
Subordinate Shelf (Domestic)	WR	9/29/2016	Withdrawn	

Ratings History

S&P GLOBAL RATINGS (S&P Entity Name:Duke Energy Corp.)

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Foreign Currency LT					
Issuer Credit Rating	BBB+	1/26/2021	Downgrade | CreditWatch/Outlook	Stable	1/26/2021
Issuer Credit Rating	A-	4/2/2015	CreditWatch/Outlook	Negative	12/15/2020
Issuer Credit Rating	A-	4/2/2015	CreditWatch/Outlook	Stable	11/20/2019
Issuer Credit Rating	A-	4/2/2015	CreditWatch/Outlook	Negative	5/20/2019
Issuer Credit Rating	A-	4/2/2015	CreditWatch/Outlook	Stable	1/12/2017
Issuer Credit Rating	A-	4/2/2015	CreditWatch/Outlook	Negative	10/27/2015
Issuer Credit Rating	A-	4/2/2015	Upgrade | CreditWatch/Outlook	Stable	4/2/2015
Issuer Credit Rating	BBB+	7/25/2012	CreditWatch/Outlook	Positive	11/5/2014
Issuer Credit Rating	BBB+	7/25/2012	CreditWatch/Outlook	Stable	5/13/2013
Issuer Credit Rating	BBB+	7/25/2012	Downgrade | CreditWatch/Outlook	Negative	7/25/2012
Issuer Credit Rating	A-	5/21/2007	CreditWatch/Outlook	Watch Neg	7/3/2012
Issuer Credit Rating	A-	5/21/2007	CreditWatch/Outlook	Stable	7/23/2010
Issuer Credit Rating	A-	5/21/2007	CreditWatch/Outlook	Positive	9/26/2008
Issuer Credit Rating	A-	5/21/2007	Upgrade | CreditWatch/Outlook	Stable	5/21/2007
Issuer Credit Rating	BBB	2/10/2004	CreditWatch/Outlook	Positive	5/25/2006
Issuer Credit Rating	BBB	2/10/2004	CreditWatch/Outlook	Stable	9/15/2005
Issuer Credit Rating	BBB	2/10/2004	CreditWatch/Outlook	Watch Neg	5/10/2005
Issuer Credit Rating	BBB	2/10/2004	CreditWatch/Outlook	Stable	2/24/2005

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating	BBB	2/10/2004	CreditWatch/Outlook	Positive	12/22/2004
Issuer Credit Rating	BBB	2/10/2004	Downgrade | CreditWatch/Outlook	Stable	2/10/2004
Issuer Credit Rating	BBB+	6/17/2003	Downgrade | CreditWatch/Outlook	Negative	6/17/2003
Issuer Credit Rating	A-	1/31/2003	Downgrade | CreditWatch/Outlook	Negative	1/31/2003
Issuer Credit Rating	A	8/14/2002	CreditWatch/Outlook	Negative	12/13/2002
Issuer Credit Rating	A	8/14/2002	Downgrade | CreditWatch/Outlook	Stable	8/14/2002
Issuer Credit Rating	A+	6/20/1997	CreditWatch/Outlook	Watch Neg	7/16/2002
Issuer Credit Rating	A+	6/20/1997	CreditWatch/Outlook	Stable	5/31/2001
Issuer Credit Rating	A+	6/20/1997	CreditWatch/Outlook	Negative	9/8/1999
Issuer Credit Rating	A+	6/20/1997	CreditWatch/Outlook	Watch Neg	7/28/1999
Issuer Credit Rating	A+	6/20/1997	CreditWatch/Outlook	Stable	4/22/1999
Issuer Credit Rating	A+	6/20/1997	CreditWatch/Outlook	Watch Neg	4/19/1999
Issuer Credit Rating	A+	6/20/1997	Downgrade | CreditWatch/Outlook	Stable	6/20/1997
Issuer Credit Rating	AA-	10/19/1983	CreditWatch/Outlook	Watch Neg	11/25/1996
Issuer Credit Rating	AA-	10/19/1983	CreditWatch/Outlook	Stable	3/5/1990
Issuer Credit Rating	AA-	10/19/1983	CreditWatch/Outlook	Negative	1/31/1990
Issuer Credit Rating	AA-	10/19/1983	Upgrade | CreditWatch/Outlook	Stable	10/19/1983
Issuer Credit Rating	A+	9/26/1979	Upgrade		
Issuer Credit Rating	A	11/27/1972	Downgrade		
Issuer Credit Rating	AA	2/13/1970	Downgrade		
Issuer Credit Rating	AAA	12/8/1954	New Rating		
Local Currency LT					
Issuer Credit Rating	BBB+	1/26/2021	Downgrade | CreditWatch/Outlook	Stable	1/26/2021
Issuer Credit Rating	A-	4/2/2015	CreditWatch/Outlook	Negative	12/15/2020
Issuer Credit Rating	A-	4/2/2015	CreditWatch/Outlook	Stable	11/20/2019
Issuer Credit Rating	A-	4/2/2015	CreditWatch/Outlook	Negative	5/20/2019
Issuer Credit Rating	A-	4/2/2015	CreditWatch/Outlook	Stable	1/12/2017
Issuer Credit Rating	A-	4/2/2015	CreditWatch/Outlook	Negative	10/27/2015
Issuer Credit Rating	A-	4/2/2015	Upgrade | CreditWatch/Outlook	Stable	4/2/2015
Issuer Credit Rating	BBB+	7/25/2012	CreditWatch/Outlook	Positive	11/5/2014
Issuer Credit Rating	BBB+	7/25/2012	CreditWatch/Outlook	Stable	5/13/2013
Issuer Credit Rating	BBB+	7/25/2012	Downgrade | CreditWatch/Outlook	Negative	7/25/2012
Issuer Credit Rating	A-	5/21/2007	CreditWatch/Outlook	Watch Neg	7/3/2012
Issuer Credit Rating	A-	5/21/2007	CreditWatch/Outlook	Stable	7/23/2010
Issuer Credit Rating	A-	5/21/2007	CreditWatch/Outlook	Positive	9/26/2008
Issuer Credit Rating	A-	5/21/2007	Upgrade | CreditWatch/Outlook	Stable	5/21/2007
Issuer Credit Rating	BBB	2/10/2004	CreditWatch/Outlook	Positive	5/25/2006
Issuer Credit Rating	BBB	2/10/2004	CreditWatch/Outlook	Stable	9/15/2005
Issuer Credit Rating	BBB	2/10/2004	CreditWatch/Outlook	Watch Neg	5/10/2005
Issuer Credit Rating	BBB	2/10/2004	CreditWatch/Outlook	Stable	2/24/2005
Issuer Credit Rating	BBB	2/10/2004	CreditWatch/Outlook	Positive	12/22/2004
Issuer Credit Rating	BBB	2/10/2004	Downgrade | CreditWatch/Outlook	Stable	2/10/2004
Issuer Credit Rating	BBB+	6/17/2003	Downgrade | CreditWatch/Outlook	Negative	6/17/2003
Issuer Credit Rating	A-	1/31/2003	Downgrade | CreditWatch/Outlook	Negative	1/31/2003
Issuer Credit Rating	A	8/14/2002	CreditWatch/Outlook	Negative	12/13/2002
Issuer Credit Rating	A	8/14/2002	Downgrade | CreditWatch/Outlook	Stable	8/14/2002
Issuer Credit Rating	A+	6/20/1997	CreditWatch/Outlook	Watch Neg	7/16/2002
Issuer Credit Rating	A+	6/20/1997	CreditWatch/Outlook	Stable	5/31/2001
Issuer Credit Rating	A+	6/20/1997	CreditWatch/Outlook	Negative	9/8/1999
Issuer Credit Rating	A+	6/20/1997	CreditWatch/Outlook	Watch Neg	7/28/1999
Issuer Credit Rating	A+	6/20/1997	CreditWatch/Outlook	Stable	4/22/1999
Issuer Credit Rating	A+	6/20/1997	CreditWatch/Outlook	Watch Neg	4/19/1999
Issuer Credit Rating	A+	6/20/1997	Downgrade | CreditWatch/Outlook	Stable	6/20/1997
Issuer Credit Rating	AA-	10/19/1983	CreditWatch/Outlook	Watch Neg	11/25/1996
Issuer Credit Rating	AA-	10/19/1983	CreditWatch/Outlook	Stable	3/5/1990
Issuer Credit Rating	AA-	10/19/1983	CreditWatch/Outlook	Negative	1/31/1990
Issuer Credit Rating	AA-	10/19/1983	Upgrade | CreditWatch/Outlook	Stable	10/19/1983

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating	A+	9/26/1979	Upgrade		
Issuer Credit Rating	A	11/27/1972	Downgrade		
Issuer Credit Rating	AA	2/13/1970	Downgrade		
Issuer Credit Rating	AAA	12/8/1954	New Rating		
Foreign Currency ST					
Issuer Credit Rating	A-2	9/26/2008	CreditWatch/Outlook	NM	7/25/2012
Issuer Credit Rating	A-2	9/26/2008	CreditWatch/Outlook	Watch Neg	7/3/2012
Issuer Credit Rating	A-2	9/26/2008	New Rating		
Issuer Credit Rating	NR	4/4/2006	Not Rated		
Issuer Credit Rating	A-2	1/31/2003	CreditWatch/Outlook	NM	9/15/2005
Issuer Credit Rating	A-2	1/31/2003	CreditWatch/Outlook	Watch Neg	5/10/2005
Issuer Credit Rating	A-2	1/31/2003	Downgrade		
Issuer Credit Rating	A-1	6/20/1997	CreditWatch/Outlook	NM	8/14/2002
Issuer Credit Rating	A-1	6/20/1997	CreditWatch/Outlook	Watch Neg	7/16/2002
Issuer Credit Rating	A-1	6/20/1997	Downgrade | CreditWatch/Outlook	NM	6/20/1997
Issuer Credit Rating	A-1+	11/23/1981	CreditWatch/Outlook	Watch Neg	11/25/1996
Issuer Credit Rating	A-1+	11/23/1981	Upgrade		
Issuer Credit Rating	A-1	1/1/1981	New Rating		
Local Currency ST					
Issuer Credit Rating	A-2	9/26/2008	CreditWatch/Outlook	NM	7/25/2012
Issuer Credit Rating	A-2	9/26/2008	CreditWatch/Outlook	Watch Neg	7/3/2012
Issuer Credit Rating	A-2	9/26/2008	New Rating		
Issuer Credit Rating	NR	4/4/2006	Not Rated		
Issuer Credit Rating	A-2	1/31/2003	CreditWatch/Outlook	NM	9/15/2005
Issuer Credit Rating	A-2	1/31/2003	CreditWatch/Outlook	Watch Neg	5/10/2005
Issuer Credit Rating	A-2	1/31/2003	Downgrade		
Issuer Credit Rating	A-1	6/20/1997	CreditWatch/Outlook	NM	8/14/2002
Issuer Credit Rating	A-1	6/20/1997	CreditWatch/Outlook	Watch Neg	7/16/2002
Issuer Credit Rating	A-1	6/20/1997	Downgrade | CreditWatch/Outlook	NM	6/20/1997
Issuer Credit Rating	A-1+	11/23/1981	CreditWatch/Outlook	Watch Neg	11/25/1996
Issuer Credit Rating	A-1+	11/23/1981	Upgrade		
Issuer Credit Rating	A-1	1/1/1981	New Rating		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
LT Issuer Rating (Domestic)	**Baa2**	**3/26/2021**	**Downgrade**	
LT Issuer Rating (Domestic)	Baa1	2/16/2021	On Watch - Possible Downgrade	
LT Issuer Rating (Domestic)	Baa1	10/28/2020	Rating Affirmation	
LT Issuer Rating (Domestic)	Baa1	8/1/2018	Rating Affirmation	
LT Issuer Rating (Domestic)	Baa1	1/19/2018	Rating Affirmation	
LT Issuer Rating (Domestic)	Baa1	5/12/2017	Rating Affirmation	
LT Issuer Rating (Domestic)	Baa1	8/5/2016	Rating Affirmation	
LT Issuer Rating (Domestic)	Baa1	1/13/2016	Downgrade	
LT Issuer Rating (Domestic)	A3	10/27/2015	On Watch - Possible Downgrade	
LT Issuer Rating (Domestic)	A3	6/5/2015	Rating Affirmation	
LT Issuer Rating (Domestic)	A3	1/31/2014	Upgrade	
LT Issuer Rating (Domestic)	Baa1	11/8/2013	On Watch - Possible Upgrade	
LT Issuer Rating (Domestic)	Baa1	9/25/2013	Upgrade	
LT Issuer Rating (Domestic)	Baa2	7/9/2013	On Watch - Possible Upgrade	
LT Issuer Rating (Domestic)	Baa2	4/6/2006	New	
Outlook		**3/26/2021**		**Stable**
Outlook		2/16/2021		Ratings Under Review
Outlook		10/28/2020		Negative
Outlook		8/1/2018		Stable
Outlook		1/19/2018		Negative
Outlook		5/12/2017		Stable
Outlook		8/5/2016		Negative
Outlook		1/13/2016		Negative
Outlook		10/27/2015		Ratings Under Review

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
Outlook		6/5/2015		Negative
Outlook		1/31/2014		Stable
Outlook		11/8/2013		Ratings Under Review
Outlook		9/25/2013		Stable
Outlook		7/9/2013		Ratings Under Review
Outlook		1/18/2008		Stable
Outlook		4/6/2006		Positive

Subsidiaries

SUBSIDIARY	AGENCY	DEBT TYPE (RATING TYPE)	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	CREDITWATCH / OUTLOOK	CREDITWATCH / OUTLOOK DATE
Cinergy Global Resources	Moody's	Long Term Rating (BACKED Senior Unsecured Domestic)	WR	11/3/2008				
DATC Holdings Path 15 LLC	Moody's	Long Term Rating (Senior Secured Domestic)	Baa1	4/27/2018				
DATC Path 15 LLC	Moody's	Long Term Rating (Senior Secured Domestic)	A2	4/27/2018				
Dixilyn-Field Drilling Company	Moody's	Long Term Rating (Subordinate Domestic)	WR	5/15/1981				
Duke Energy Capital Trust I	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	3/26/2004				
Duke Energy Capital Trust II	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	6/30/2004				
Duke Energy Capital Trust III	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	5/15/2007				
Duke Energy Capital Trust IV	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	5/15/2007				
Duke Energy Carolinas LLC	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	BBB+	1/26/2021	4/21/2021	A-	Stable	1/26/2021
	Moody's	Long Term Rating (LT Issuer Rating)	A2	3/26/2021				
Duke Energy Florida LLC	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	BBB+	1/26/2021	4/21/2021	A-	Stable	1/26/2021
	Moody's	Long Term Rating (LT Issuer Rating)	A3	8/1/2018				
Duke Energy Indiana LLC	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	BBB+	1/26/2021	4/21/2021	A-	Stable	1/26/2021
	Moody's	Long Term Rating (LT Issuer Rating)	A2	8/1/2018				
Duke Energy Kentucky Inc.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	BBB+	1/26/2021	4/21/2021	A-	Stable	1/26/2021
	Moody's	Long Term Rating (Senior Unsecured Domestic)	Baa1	8/1/2018				
Duke Energy Ohio Inc.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	BBB+	1/26/2021	4/21/2021	A-	Stable	1/26/2021
	Moody's	Long Term Rating (LT Issuer Rating)	Baa1	8/1/2018				
Duke Energy Progress LLC	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	BBB+	1/26/2021	4/21/2021	A-	Stable	1/26/2021
	Moody's	Long Term Rating (LT Issuer Rating)	A2	10/28/2020				
Duke Energy Trading & Marketing LLC	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	5/21/2007		BBB-	NR	5/21/2007
Florida Progress Corp.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	BBB+	1/26/2021	4/21/2021	A-	Stable	1/26/2021
Florida Progress Funding Corp	Moody's	Long Term Rating (Junior Subord. Shelf Domestic)	WR	4/8/1999				
FPC Capital I	Moody's	Long Term Rating (Pref. Shelf Domestic)	WR	4/8/1999				
FPC Capital II	Moody's	Long Term Rating (Pref. Shelf Domestic)	WR	4/8/1999				
Market Hub Partners Storage, L.P.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	8/25/2003		BBB+	NR	8/25/2003
	Moody's	Long Term Rating (LT Corporate Family Ratings Domestic)	WR	1/29/2003				
Nashville Gas Co.	Moody's	Long Term Rating (First Mortgage Bonds Domestic)	WR	7/1/1975				
PanEnergy Corp	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	10/18/2006		BBB	NR	10/18/2006
	Moody's	Long Term Rating (LT Issuer Rating)	WR	5/8/1998				
Piedmont Natural Gas Co. Inc.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	BBB+	1/26/2021	4/22/2021	A-	Stable	1/26/2021
	Moody's	Long Term Rating (Senior Unsecured Domestic)	A3	8/1/2018				
Progress Capital Holdings Inc.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	8/23/1999		A	NR	8/23/1999
	Moody's	Long Term Rating (Senior Unsecured Domestic)	WR	11/1/2006				
Progress Energy Capital Trust I	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	6/28/2013				
Progress Energy Capital Trust II	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	2/24/2016				
Progress Energy Capital Trust III	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	6/28/2013				
Progress Energy Inc.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	BBB+	1/26/2021	4/21/2021	A-	Stable	1/26/2021
	Moody's	Long Term Rating (Senior Unsecured Domestic)	Baa1	8/1/2018				
Texas Eastern Corporation	Moody's	Long Term Rating (Senior Unsecured Domestic)	WR	1/15/1993				

Market Intelligence News

HEADLINE	DATE
Analysts see potential FirstEnergy transmission sale satisfying equity needs FirstEnergy is working with advisers on a 20% equity sale of its transmission business, Bloomberg News reported Aug. 10.	8/11/2021 12:10:00 PM ET
"[W]e have just not seen anything at this point that makes sense for us," Duke Energy CFO Steven Young told S&P Global Market Intelligence regarding Elliott Investment Management's calls for leadership and strategy changes at the utility. Duke Energy CFO says activist's proposals lack 'financial or strategic benefits'	7/20/2021 5:10:00 PM ET

HEADLINE	DATE
CreditSights also believes FirstEnergy should be able to absorb a potential $500 million fine from its role in an alleged bribery scheme in Ohio. CreditSights upgrades FirstEnergy bonds on expected utility sale	6/24/2021 3:44:00 PM ET
"While various factors impacted the deal market in the last 12 months — including the broad impacts of the pandemic — dealmakers nevertheless managed to strategically approach the deals market," PwC wrote. PwC sees utility deal activity continuing rebound in 2021	6/23/2021 4:33:00 PM ET
House Bill 951 also establishes multiyear rate plans and performance-based ratemaking long supported by investor-owned utility Duke Energy. NC legislation mandates coal retirements in favor of natural gas, renewables	6/16/2021 4:10:00 PM ET

S&P Credit Ratings and Research provided by S&P Global Ratings

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Consolidated Edison, Inc. | Credit Ratings

NYSE:ED (MI KEY: 4057041; SPCIQ KEY: 263295)

A-

S&P Global Ratings

Issuer Credit Rating (Foreign Currency LT)
3/25/2008

CreditWatch/Outlook: Negative
11/24/2020

Baa2

Moody's

Long Term Rating (LT Issuer Rating)
3/17/2020

Outlook:

Current Ratings

S&P GLOBAL RATINGS (S&P Entity Name:Consolidated Edison Inc.)

RATING TYPE	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating							
Foreign Currency LT	A-	3/25/2008	8/25/2021	A-	CreditWatch/Outlook	Negative	11/24/2020
Local Currency LT	A-	3/25/2008	8/25/2021	A-	CreditWatch/Outlook	Negative	11/24/2020
Foreign Currency ST	A-2	6/6/2006	8/25/2021	A-1	Downgrade		
Local Currency ST	A-2	6/6/2006	8/25/2021	A-1	Downgrade		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
Ratings Summary				
Long Term Rating (LT Issuer Rating)	Baa2	3/17/2020	Downgrade	
Short Term Rating (Commercial Paper Domestic)	P-2	3/17/2020		
Outlook		3/17/2020		Stable
Ratings Detail				
Senior Unsec. Shelf (Domestic)	WR	8/2/2021	Withdrawn	
Senior Unsecured (Domestic)	Baa2	12/1/2020	New	
LT Issuer Rating	Baa2	3/17/2020	Downgrade	
Commercial Paper (Domestic)	P-2	3/17/2020		
Subordinate Shelf (Domestic)	WR	8/1/2015	Withdrawn	
Pref. Shelf (Domestic)	WR	3/13/2012	Withdrawn	
Senior Unsecured Bank Credit Facility (Domestic)	WR	12/3/2003	Withdrawn	

Ratings History

S&P GLOBAL RATINGS (S&P Entity Name:Consolidated Edison Inc.)

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Foreign Currency LT					
Issuer Credit Rating	A-	3/25/2008	CreditWatch/Outlook	Negative	11/24/2020
Issuer Credit Rating	A-	3/25/2008	CreditWatch/Outlook	Stable	1/26/2017
Issuer Credit Rating	A-	3/25/2008	CreditWatch/Outlook	Negative	11/23/2015
Issuer Credit Rating	A-	3/25/2008	Downgrade | CreditWatch/Outlook	Stable	3/25/2008
Issuer Credit Rating	A	5/16/2003	CreditWatch/Outlook	Negative	6/6/2006
Issuer Credit Rating	A	5/16/2003	Downgrade | CreditWatch/Outlook	Stable	5/16/2003
Issuer Credit Rating	A+	4/30/2002	Upgrade | CreditWatch/Outlook	Stable	4/30/2002
Issuer Credit Rating	A	4/6/1999	CreditWatch/Outlook	Stable	3/20/2002
Issuer Credit Rating	A	4/6/1999	CreditWatch/Outlook	Watch Neg	10/13/1999
Issuer Credit Rating	A	4/6/1999	New Rating | CreditWatch/Outlook	Stable	4/6/1999
Local Currency LT					
Issuer Credit Rating	A-	3/25/2008	CreditWatch/Outlook	Negative	11/24/2020
Issuer Credit Rating	A-	3/25/2008	CreditWatch/Outlook	Stable	1/26/2017
Issuer Credit Rating	A-	3/25/2008	CreditWatch/Outlook	Negative	11/23/2015
Issuer Credit Rating	A-	3/25/2008	Downgrade | CreditWatch/Outlook	Stable	3/25/2008
Issuer Credit Rating	A	5/16/2003	CreditWatch/Outlook	Negative	6/6/2006
Issuer Credit Rating	A	5/16/2003	Downgrade | CreditWatch/Outlook	Stable	5/16/2003
Issuer Credit Rating	A+	4/30/2002	Upgrade | CreditWatch/Outlook	Stable	4/30/2002
Issuer Credit Rating	A	4/6/1999	CreditWatch/Outlook	Stable	3/20/2002
Issuer Credit Rating	A	4/6/1999	CreditWatch/Outlook	Watch Neg	10/13/1999

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating	A	4/6/1999	New Rating | CreditWatch/Outlook	Stable	4/6/1999
Foreign Currency ST					
Issuer Credit Rating	A-2	6/6/2006	Downgrade		
Issuer Credit Rating	A-1	12/31/1998	CreditWatch/Outlook	NM	3/20/2002
Issuer Credit Rating	A-1	12/31/1998	CreditWatch/Outlook	Watch Neg	10/13/1999
Issuer Credit Rating	A-1	12/31/1998	New Rating		
Local Currency ST					
Issuer Credit Rating	A-2	6/6/2006	Downgrade		
Issuer Credit Rating	A-1	12/31/1998	CreditWatch/Outlook	NM	3/20/2002
Issuer Credit Rating	A-1	12/31/1998	CreditWatch/Outlook	Watch Neg	10/13/1999
Issuer Credit Rating	A-1	12/31/1998	New Rating		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
LT Issuer Rating	**Baa2**	**3/17/2020**	**Downgrade**	
LT Issuer Rating	Baa1	12/23/2019	Rating Affirmation	
LT Issuer Rating	Baa1	10/30/2018	Downgrade	
LT Issuer Rating	A3	1/19/2018	Rating Affirmation	
LT Issuer Rating	A3	4/21/2016	Rating Affirmation	
LT Issuer Rating	A3	1/30/2014	Upgrade	
LT Issuer Rating	Baa1	11/8/2013	On Watch - Possible Upgrade	
LT Issuer Rating	Baa1	7/30/2013	Rating Affirmation	
LT Issuer Rating	Baa1	6/29/2009	Downgrade	
LT Issuer Rating	A2	3/17/2009	On Watch - Possible Downgrade	
LT Issuer Rating	A2	3/19/2002	New	
Outlook		**3/17/2020**		**Stable**
Outlook		12/23/2019		Negative
Outlook		10/30/2018		Stable
Outlook		1/19/2018		Negative
Outlook		4/21/2016		Stable
Outlook		1/30/2014		Stable
Outlook		11/8/2013		Ratings Under Review
Outlook		7/30/2013		Positive
Outlook		6/29/2009		Stable
Outlook		3/17/2009		Ratings Under Review
Outlook		3/20/2008		Negative
Outlook		7/20/2004		Stable
Outlook		11/15/2003		Negative

Subsidiaries

SUBSIDIARY	AGENCY	DEBT TYPE (RATING TYPE)	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	CREDITWATCH / OUTLOOK	CREDITWATCH / OUTLOOK DATE
Consolidated Edison Co. of New York Inc.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	3/25/2008	8/25/2021	A-	Negative	11/24/2020
	Moody's	Long Term Rating (LT Issuer Rating)	Baa1	3/17/2020				
Orange and Rockland Utilities Inc.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	3/25/2008	8/25/2021	A-	Negative	11/24/2020
	Moody's	Long Term Rating (LT Issuer Rating)	Baa2	1/26/2021				
Rockland Electric Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	3/25/2008	8/25/2021	A-	Negative	11/24/2020
	Moody's	Long Term Rating (First Mortgage Bonds Domestic)	WR	2/1/2007				

Market Intelligence News

HEADLINE	DATE
Moody's cuts long-term ratings of Orange and Rockland Utilities Moody's downgraded the senior unsecured and long-term issuer ratings of Orange and Rockland Utilities to Baa2 from Baa1, citing its weakening financial profile and rising political and regulatory risks in New York.	1/27/2021 5:28:00 AM ET
S&P Global Ratings revised its outlook on Consolidated Edison and its subsidiaries to negative from stable, citing potential political headwinds in New York. S&P lowers outlook on Consolidated Edison, subsidiaries to negative	11/25/2020 9:56:00 AM ET
"[U.S.] investor-owned utilities will likely face higher underfunded pension liabilities as a result of the market turmoil caused by the coronavirus outbreak," Moody's analysts wrote in an April 16 report. Coronavirus could increase US utilities' pension liabilities – Moody's	4/17/2020 11:44:00 AM ET

HEADLINE	DATE
Fitch lowers outlooks for Con Edison, subsidiaries citing coronavirus impact The revised outlook reflects an expectation that the coronavirus outbreak has "severely impacted" New York's power market, which will likely cause weakening credit metrics for Consolidated Edison and Consolidated Edison Co. of New York.	3/26/2020 4:13:00 PM ET
"CenterPoint is far away the outlier in the sector with equity needs equal to around 13%" of its market cap, CreditSights analyst Andrew DeVries wrote in a March 19 research report. Few utilities have equity needs threatened by current sell-off – CreditSights	3/19/2020 12:34:00 PM ET

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Eversource Energy | Credit Ratings

NYSE:ES (MI KEY: 4057052; SPCIQ KEY: 292525)

A-

S&P Global Ratings

Issuer Credit Rating (Foreign Currency LT)
7/25/2019

Downgrade | CreditWatch/Outlook: Stable
7/25/2019

Baa1

Moody's

Long Term Rating (LT Issuer Rating)
6/14/2021

Outlook:

Current Ratings

S&P GLOBAL RATINGS (S&P Entity Name:Eversource Energy)

RATING TYPE	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating							
Foreign Currency LT	A-	7/25/2019	5/6/2021	A+	Downgrade | CreditWatch/Outlook	Stable	7/25/2019
Local Currency LT	A-	7/25/2019	5/6/2021	A+	Downgrade | CreditWatch/Outlook	Stable	7/25/2019
Foreign Currency ST	A-2	7/25/2019	5/6/2021	A-1	Downgrade		
Local Currency ST	A-2	7/25/2019	5/6/2021	A-1	Downgrade		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
Ratings Summary				
Long Term Rating (LT Issuer Rating)	Baa1	6/14/2021	Rating Affirmation	
Short Term Rating (Commercial Paper Domestic)	P-2	6/14/2021	Rating Affirmation	
Outlook		6/14/2021		Negative
Ratings Detail				
Senior Unsecured (Domestic)	Baa1	6/14/2021	Rating Affirmation	
LT Issuer Rating	Baa1	6/14/2021	Rating Affirmation	
Senior Unsec. Shelf (Domestic)	(P)Baa1	6/14/2021	Rating Affirmation	
Pref. Shelf (Domestic)	(P)Baa3	6/14/2021	Rating Affirmation	
Commercial Paper (Domestic)	P-2	6/14/2021	Rating Affirmation	
Senior Unsecured Bank Credit Facility (Domestic)	WR	5/10/1999	Withdrawn	

Ratings History

S&P GLOBAL RATINGS (S&P Entity Name:Eversource Energy)

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Foreign Currency LT					
Issuer Credit Rating	A-	7/25/2019	Downgrade | CreditWatch/Outlook	Stable	7/25/2019
Issuer Credit Rating	A+	12/5/2017	CreditWatch/Outlook	Negative	2/12/2019
Issuer Credit Rating	A+	12/5/2017	Upgrade | CreditWatch/Outlook	Stable	12/5/2017
Issuer Credit Rating	A	4/23/2015	CreditWatch/Outlook	Positive	7/12/2016
Issuer Credit Rating	A	4/23/2015	Upgrade | CreditWatch/Outlook	Stable	4/23/2015
Issuer Credit Rating	A-	4/5/2012	CreditWatch/Outlook	Positive	4/25/2014
Issuer Credit Rating	A-	4/5/2012	Upgrade | CreditWatch/Outlook	Stable	4/5/2012
Issuer Credit Rating	BBB+	5/16/2011	Upgrade | CreditWatch/Outlook	Watch Pos	5/16/2011
Issuer Credit Rating	BBB	5/27/2005	CreditWatch/Outlook	Watch Pos	10/18/2010
Issuer Credit Rating	BBB	5/27/2005	Downgrade | CreditWatch/Outlook	Stable	5/27/2005
Issuer Credit Rating	BBB+	1/31/2001	CreditWatch/Outlook	Negative	4/14/2004
Issuer Credit Rating	BBB+	1/31/2001	CreditWatch/Outlook	Stable	11/8/2001
Issuer Credit Rating	BBB+	1/31/2001	Upgrade | CreditWatch/Outlook	Watch Pos	1/31/2001
Issuer Credit Rating	BBB-	12/21/1999	Upgrade | CreditWatch/Outlook	Watch Pos	12/21/1999
Issuer Credit Rating	BB+	5/24/1999	Upgrade | CreditWatch/Outlook	Watch Pos	5/24/1999
Issuer Credit Rating	B+	1/5/1998	CreditWatch/Outlook	Positive	3/30/1999
Issuer Credit Rating	B+	1/5/1998	CreditWatch/Outlook	Stable	9/18/1998
Issuer Credit Rating	B+	1/5/1998	CreditWatch/Outlook	Negative	7/21/1998
Issuer Credit Rating	B+	1/5/1998	Downgrade | CreditWatch/Outlook	Watch Neg	1/5/1998
Issuer Credit Rating	BB-	3/5/1997	Downgrade | CreditWatch/Outlook	Watch Neg	3/5/1997
Issuer Credit Rating	BB	10/11/1996	Downgrade | CreditWatch/Outlook	Watch Neg	10/11/1996
Issuer Credit Rating	BB+	5/28/1996	Downgrade | CreditWatch/Outlook	Watch Neg	5/28/1996

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating	BBB-	11/15/1991	CreditWatch/Outlook	Watch Neg	4/8/1996
Issuer Credit Rating	BBB-	11/15/1991	CreditWatch/Outlook	Negative	2/15/1996
Issuer Credit Rating	BBB-	11/15/1991	CreditWatch/Outlook	Stable	2/8/1995
Issuer Credit Rating	BBB-	11/15/1991	CreditWatch/Outlook	Negative	3/1/1994
Issuer Credit Rating	BBB-	11/15/1991	CreditWatch/Outlook	Stable	9/27/1993
Issuer Credit Rating	BBB-	11/15/1991	New Rating | CreditWatch/Outlook	Positive	11/18/1991
Local Currency LT					
Issuer Credit Rating	A-	7/25/2019	Downgrade | CreditWatch/Outlook	Stable	7/25/2019
Issuer Credit Rating	A+	12/5/2017	CreditWatch/Outlook	Negative	2/12/2019
Issuer Credit Rating	A+	12/5/2017	Upgrade | CreditWatch/Outlook	Stable	12/5/2017
Issuer Credit Rating	A	4/23/2015	CreditWatch/Outlook	Positive	7/12/2016
Issuer Credit Rating	A	4/23/2015	Upgrade | CreditWatch/Outlook	Stable	4/23/2015
Issuer Credit Rating	A-	4/5/2012	CreditWatch/Outlook	Positive	4/25/2014
Issuer Credit Rating	A-	4/5/2012	Upgrade | CreditWatch/Outlook	Stable	4/5/2012
Issuer Credit Rating	BBB+	5/16/2011	Upgrade | CreditWatch/Outlook	Watch Pos	5/16/2011
Issuer Credit Rating	BBB	5/27/2005	CreditWatch/Outlook	Watch Pos	10/18/2010
Issuer Credit Rating	BBB	5/27/2005	Downgrade | CreditWatch/Outlook	Stable	5/27/2005
Issuer Credit Rating	BBB+	1/31/2001	CreditWatch/Outlook	Negative	4/14/2004
Issuer Credit Rating	BBB+	1/31/2001	CreditWatch/Outlook	Stable	11/8/2001
Issuer Credit Rating	BBB+	1/31/2001	Upgrade | CreditWatch/Outlook	Watch Pos	1/31/2001
Issuer Credit Rating	BBB-	12/21/1999	Upgrade | CreditWatch/Outlook	Watch Pos	12/21/1999
Issuer Credit Rating	BB+	5/24/1999	Upgrade | CreditWatch/Outlook	Watch Pos	5/24/1999
Issuer Credit Rating	B+	1/5/1998	CreditWatch/Outlook	Positive	3/30/1999
Issuer Credit Rating	B+	1/5/1998	CreditWatch/Outlook	Stable	9/18/1998
Issuer Credit Rating	B+	1/5/1998	CreditWatch/Outlook	Negative	7/21/1998
Issuer Credit Rating	B+	1/5/1998	Downgrade | CreditWatch/Outlook	Watch Neg	1/5/1998
Issuer Credit Rating	BB-	3/5/1997	Downgrade | CreditWatch/Outlook	Watch Neg	3/5/1997
Issuer Credit Rating	BB	10/11/1996	Downgrade | CreditWatch/Outlook	Watch Neg	10/11/1996
Issuer Credit Rating	BB+	5/28/1996	Downgrade | CreditWatch/Outlook	Watch Neg	5/28/1996
Issuer Credit Rating	BBB-	11/15/1991	CreditWatch/Outlook	Watch Neg	4/8/1996
Issuer Credit Rating	BBB-	11/15/1991	CreditWatch/Outlook	Negative	2/15/1996
Issuer Credit Rating	BBB-	11/15/1991	CreditWatch/Outlook	Stable	2/8/1995
Issuer Credit Rating	BBB-	11/15/1991	CreditWatch/Outlook	Negative	3/1/1994
Issuer Credit Rating	BBB-	11/15/1991	CreditWatch/Outlook	Stable	9/27/1993
Issuer Credit Rating	BBB-	11/15/1991	New Rating | CreditWatch/Outlook	Positive	11/18/1991
Foreign Currency ST					
Issuer Credit Rating	A-2	7/25/2019	Downgrade		
Issuer Credit Rating	A-1	4/23/2015	Upgrade		
Issuer Credit Rating	A-2	7/19/2012	New Rating		
Local Currency ST					
Issuer Credit Rating	A-2	7/25/2019	Downgrade		
Issuer Credit Rating	A-1	4/23/2015	Upgrade		
Issuer Credit Rating	A-2	7/19/2012	New Rating		
Issuer Credit Rating	NR	12/31/1996	Not Rated | CreditWatch/Outlook	NM	12/31/1996
Issuer Credit Rating	B	5/28/1996	Downgrade | CreditWatch/Outlook	Watch Neg	5/28/1996
Issuer Credit Rating	A-3	12/22/1992	CreditWatch/Outlook	Watch Neg	4/8/1996
Issuer Credit Rating	A-3	12/22/1992	New Rating		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
LT Issuer Rating	**Baa1**	**6/14/2021**	**Rating Affirmation**	
LT Issuer Rating	Baa1	6/14/2018	Rating Affirmation	
LT Issuer Rating	Baa1	1/31/2014	Upgrade	
LT Issuer Rating	Baa2	11/8/2013	On Watch - Possible Upgrade	
LT Issuer Rating	Baa2	2/16/2005	Downgrade	
LT Issuer Rating	Baa1	1/19/2005	On Watch - Possible Downgrade	
LT Issuer Rating	Baa1	5/16/2003	On Watch - Confirm Only (P.R.)	
LT Issuer Rating	Baa1	11/12/2001	Upgrade	
LT Issuer Rating	Baa3	1/23/2001	On Watch - Possible Upgrade	

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
LT Issuer Rating	Baa3	1/23/2001	Upgrade	
LT Issuer Rating	Ba1	4/4/2000	On Watch - Possible Upgrade	
LT Issuer Rating	Ba1	4/4/2000	Upgrade	
LT Issuer Rating	Ba3	6/16/1999	On Watch - Possible Upgrade	
LT Issuer Rating	Ba3	5/25/1999	Upgrade	
LT Issuer Rating	B1	5/10/1999	On Watch - Possible Upgrade	
LT Issuer Rating	B1	7/22/1998	Upgrade	
LT Issuer Rating	B2	4/21/1998	Downgrade	
LT Issuer Rating	B2	4/21/1998	On Watch - Uncertain	
LT Issuer Rating	B1	3/3/1997	Downgrade	
LT Issuer Rating	B1	3/3/1997	On Watch - Possible Downgrade	
LT Issuer Rating	Ba3	1/21/1997	On Watch - Possible Downgrade	
LT Issuer Rating	Ba3	10/8/1996	Downgrade	
LT Issuer Rating	Ba2	9/5/1996	On Watch - Possible Downgrade	
LT Issuer Rating	Ba2	7/24/1996	On Watch - Confirm Only (P.R.)	
LT Issuer Rating	Ba2	5/28/1996	Downgrade	
LT Issuer Rating	Ba1	4/8/1996	On Watch - Possible Downgrade	
LT Issuer Rating	Ba1	5/11/1995	New	
Outlook		**6/14/2021**		**Negative**
Outlook		6/14/2018		Stable
Outlook		1/31/2014		Stable
Outlook		11/8/2013		Ratings Under Review
Outlook		2/16/2005		Stable
Outlook		1/19/2005		Ratings Under Review
Outlook		11/15/2003		Negative

Subsidiaries

SUBSIDIARY	AGENCY	DEBT TYPE (RATING TYPE)	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	CREDITWATCH / OUTLOOK	CREDITWATCH / OUTLOOK DATE
Aquarion Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	7/25/2019	5/6/2021	A+	Stable	7/25/2019
	Moody's	Long Term Rating (LT Issuer Rating Domestic)	Baa2	5/17/2018				
Aquarion Water Co. of Connecticut Inc.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	3/2/2007		A	NR	3/2/2007
	Moody's	Long Term Rating (LT Issuer Rating Domestic)	A3	5/17/2018				
Aquarion Water Co. of Massachusetts	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	3/2/2007		A	NR	3/2/2007
Commonwealth Energy System	Moody's	Long Term Rating (Senior Secured Domestic)	WR	7/1/1971				
Eversource Gas Company of MA	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	BBB+	6/18/2015	2/22/2021	BBB+	Stable	2/28/2020
	Moody's	Long Term Rating (Senior Unsecured Domestic)	Baa2	2/28/2018				
Eversource Gas Company Of Massachusetts	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	7/22/2020	5/6/2021	New	Stable	7/22/2020
Hartford Electric Light Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	10/4/2000		BBB+	NR	10/4/2000
	Moody's	Long Term Rating (Senior Unsecured Domestic)	WR	7/1/1971				
North Atlantic Energy Corp.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	9/20/2001		BBB+	NR	9/20/2001
	Moody's	Long Term Rating (Senior Unsecured Domestic)	WR	12/11/1995				
NSTAR Electric Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A	7/25/2019	5/6/2021	A+	Stable	7/25/2019
	Moody's	Long Term Rating (LT Issuer Rating)	A1	6/5/2019				
NSTAR Gas Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	7/25/2019	5/6/2021	A+	Stable	7/25/2019
	Moody's	Long Term Rating (First Mortgage Bonds Domestic)	WR	8/15/1982				
Nstar LLC	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	11/5/2013		A-	NR	11/5/2013
	Moody's	Long Term Rating (LT Issuer Rating)	WR	11/5/2013				
Public Service Co. of New Hampshire	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A	7/25/2019	5/6/2021	A+	Stable	7/25/2019
	Moody's	Long Term Rating (LT Issuer Rating)	A3	7/16/2021				
Stamford Water Company	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	5/5/1998		A+	NR	5/5/1998
The Connecticut Light and Power Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A	7/25/2019	5/6/2021	A	Negative	5/6/2021
	Moody's	Long Term Rating (LT Issuer Rating)	A3	6/14/2021				
Yankee Gas Services Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	7/25/2019	5/6/2021	A+	Stable	7/25/2019
	Moody's	Long Term Rating (LT Issuer Rating Domestic)	Baa1	6/8/2018				

Market Intelligence News

HEADLINE	DATE

HEADLINE	DATE
S&P affirms Eversource ratings, revises outlook of Conn. subsidiary to negative The ratings action came after the Connecticut Public Utilities Regulatory Authority on April 28 issued an order for Connecticut Light and Power authorizing a reduction of its return on equity by 90 basis points.	5/10/2021 8:44:00 AM ET
Warm weather, residential power sales help utilities offset demand declines While major questions about public health and the strength of the economy loom over the second half of 2020, even those utilities that experienced large demand declines in April saw power sales improve in subsequent months.	8/4/2020 12:06:00 PM ET
"With the onset of the COVID-19 global pandemic in the first half of 2020, merger and acquisition activity in the [Power & Utilities] sector saw reductions in both deal activity and total deal value," PwC wrote in its mid-year report. North American power, utilities deals fall amid pandemic, PwC report shows	7/31/2020 11:00:00 AM ET
CreditSights analysts said nearly one-third of 58 utilities with at least 100,000 customers are at higher risk of regulatory and political pushback against natural gas use, evident in building gas bans and pipeline opposition. Report identifies 20 utilities most at risk from rising anti-gas sentiment	7/13/2020 1:12:00 PM ET
"It's a good business and these are going to be good, long-term contracted assets," one Wall Street analyst said. "I just don't want to be first." Utilities testing offshore wind face nervous investors, skeptical regulators	12/27/2019 12:27:00 PM ET

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MGE Energy, Inc. | Credit Ratings

NASDAQGS:MGEE (MI KEY: 4072883; SPCIQ KEY: 285723)

Subsidiaries

SUBSIDIARY	AGENCY	DEBT TYPE (RATING TYPE)	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	CREDITWATCH / OUTLOOK	CREDITWATCH / OUTLOOK DATE
Madison Gas and Electric Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	AA-	8/29/2005	9/15/2020	AA	Stable	8/29/2005
	Moody's	Long Term Rating (LT Issuer Rating)	A1	10/24/2018				

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NorthWestern Corporation | Credit Ratings

NASDAQGS:NWE (MI KEY: 4057053; SPCIQ KEY: 184841)

BBB

S&P Global Ratings

Issuer Credit Rating (Foreign Currency LT)
3/14/2008

Upgrade | CreditWatch/Outlook: Stable
3/14/2008

Baa2

Moody's

Long Term Rating (Senior Unsecured Bank Credit Facility Domestic)
3/12/2021

Outlook:

Current Ratings

S&P GLOBAL RATINGS (S&P Entity Name:NorthWestern Corp.)

RATING TYPE	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating							
Foreign Currency LT	BBB	3/14/2008	2/23/2021	BB+	Upgrade | CreditWatch/Outlook	Stable	3/14/2008
Local Currency LT	BBB	3/14/2008	2/23/2021	BB+	Upgrade | CreditWatch/Outlook	Stable	3/14/2008
Foreign Currency ST	A-2	2/3/2011	2/23/2021	New	New Rating		
Local Currency ST	A-2	2/3/2011	2/23/2021	New	New Rating		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
Ratings Summary				
Long Term Rating (Senior Unsecured Bank Credit Facility Domestic)	Baa2	3/12/2021	Rating Affirmation	
Short Term Rating (Commercial Paper Domestic)	P-2	3/12/2021	Rating Affirmation	
Outlook		3/12/2021		Negative
Ratings Detail				
Senior Secured Shelf (Domestic)	(P)A3	3/22/2021	New	
Commercial Paper (Domestic)	P-2	3/12/2021	Rating Affirmation	
Senior Unsecured Bank Credit Facility (Domestic)	Baa2	3/12/2021	Rating Affirmation	
First Mortgage Bonds (Domestic)	A3	3/12/2021	Rating Affirmation	
Senior Secured (Domestic)	A3	3/12/2021	Rating Affirmation	
Underlying Senior Secured (Domestic)	WR	3/9/2017	Withdrawn	
Underlying First Mortgage Bonds (Domestic)	WR	6/24/2015	Withdrawn	
LT Corporate Family Ratings (Domestic)	WR	8/29/2006	Withdrawn	
Speculative Grade Liquidity Rating	WR	8/29/2006	Withdrawn	
LT Issuer Rating	WR	7/7/2005	Withdrawn	
Senior Secured Bank Credit Facility (Domestic)	WR	6/28/2005	Withdrawn	

Ratings History

S&P GLOBAL RATINGS (S&P Entity Name:NorthWestern Corp.)

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Foreign Currency LT					
Issuer Credit Rating	BBB	3/14/2008	Upgrade | CreditWatch/Outlook	Stable	3/14/2008
Issuer Credit Rating	BB+	4/7/2006	CreditWatch/Outlook	Positive	9/21/2007
Issuer Credit Rating	BB+	4/7/2006	CreditWatch/Outlook	Stable	7/31/2007
Issuer Credit Rating	BB+	4/7/2006	CreditWatch/Outlook	Watch Neg	4/26/2006
Issuer Credit Rating	BB+	4/7/2006	Upgrade | CreditWatch/Outlook	Watch Dev	4/7/2006
Issuer Credit Rating	BB	6/30/2005	CreditWatch/Outlook	Watch Dev	12/6/2005
Issuer Credit Rating	BB	6/30/2005	CreditWatch/Outlook	Watch Neg	7/1/2005
Issuer Credit Rating	BB	6/30/2005	Upgrade | CreditWatch/Outlook	Positive	6/30/2005
Issuer Credit Rating	BB-	10/21/2004	Upgrade | CreditWatch/Outlook	Positive	10/21/2004
Issuer Credit Rating	D	9/15/2003	Downgrade | CreditWatch/Outlook	NM	9/15/2003
Issuer Credit Rating	CCC-	7/28/2003	Downgrade | CreditWatch/Outlook	Negative	7/28/2003
Issuer Credit Rating	B	4/21/2003	Downgrade | CreditWatch/Outlook	Watch Neg	4/21/2003
Issuer Credit Rating	BB+	12/30/2002	CreditWatch/Outlook	Watch Neg	4/3/2003

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating	BB+	12/30/2002	Downgrade | CreditWatch/Outlook	Negative	12/30/2002
Issuer Credit Rating	BBB+	11/14/2001	CreditWatch/Outlook	Negative	9/3/2002
Issuer Credit Rating	BBB+	11/14/2001	Downgrade | CreditWatch/Outlook	Stable	11/14/2001
Issuer Credit Rating	A+	12/18/1996	CreditWatch/Outlook	Watch Neg	10/2/2000
Issuer Credit Rating	A+	12/18/1996	Upgrade | CreditWatch/Outlook	Stable	12/18/1996
Issuer Credit Rating	A	7/20/1995	CreditWatch/Outlook	Watch Pos	10/16/1996
Issuer Credit Rating	A	7/20/1995	Downgrade | CreditWatch/Outlook	Stable	7/20/1995
Issuer Credit Rating	A+	5/2/1986	CreditWatch/Outlook	Watch Neg	5/18/1995
Issuer Credit Rating	A+	5/2/1986	CreditWatch/Outlook	Stable	8/4/1994
Issuer Credit Rating	A+	5/2/1986	CreditWatch/Outlook	Negative	10/26/1993
Issuer Credit Rating	A+	5/2/1986	Upgrade | CreditWatch/Outlook	Stable	5/2/1986
Issuer Credit Rating	A	5/31/1984	Upgrade		
Issuer Credit Rating	BBB+	5/18/1982	Upgrade		
Issuer Credit Rating	BBB	7/19/1961	Downgrade		
Issuer Credit Rating	A	7/15/1946	New Rating		
Local Currency LT					
Issuer Credit Rating	BBB	3/14/2008	Upgrade | CreditWatch/Outlook	Stable	3/14/2008
Issuer Credit Rating	BB+	4/7/2006	CreditWatch/Outlook	Positive	9/21/2007
Issuer Credit Rating	BB+	4/7/2006	CreditWatch/Outlook	Stable	7/31/2007
Issuer Credit Rating	BB+	4/7/2006	CreditWatch/Outlook	Watch Neg	4/26/2006
Issuer Credit Rating	BB+	4/7/2006	Upgrade | CreditWatch/Outlook	Watch Dev	4/7/2006
Issuer Credit Rating	BB	6/30/2005	CreditWatch/Outlook	Watch Dev	12/6/2005
Issuer Credit Rating	BB	6/30/2005	CreditWatch/Outlook	Watch Neg	7/1/2005
Issuer Credit Rating	BB	6/30/2005	Upgrade | CreditWatch/Outlook	Positive	6/30/2005
Issuer Credit Rating	BB-	10/21/2004	Upgrade | CreditWatch/Outlook	Positive	10/21/2004
Issuer Credit Rating	D	9/15/2003	Downgrade | CreditWatch/Outlook	NM	9/15/2003
Issuer Credit Rating	CCC-	7/28/2003	Downgrade | CreditWatch/Outlook	Negative	7/28/2003
Issuer Credit Rating	B	4/21/2003	Downgrade | CreditWatch/Outlook	Watch Neg	4/21/2003
Issuer Credit Rating	BB+	12/30/2002	CreditWatch/Outlook	Watch Neg	4/3/2003
Issuer Credit Rating	BB+	12/30/2002	Downgrade | CreditWatch/Outlook	Negative	12/30/2002
Issuer Credit Rating	BBB+	11/14/2001	CreditWatch/Outlook	Negative	9/3/2002
Issuer Credit Rating	BBB+	11/14/2001	Downgrade | CreditWatch/Outlook	Stable	11/14/2001
Issuer Credit Rating	A+	12/18/1996	CreditWatch/Outlook	Watch Neg	10/2/2000
Issuer Credit Rating	A+	12/18/1996	Upgrade | CreditWatch/Outlook	Stable	12/18/1996
Issuer Credit Rating	A	7/20/1995	CreditWatch/Outlook	Watch Pos	10/16/1996
Issuer Credit Rating	A	7/20/1995	Downgrade | CreditWatch/Outlook	Stable	7/20/1995
Issuer Credit Rating	A+	5/2/1986	CreditWatch/Outlook	Watch Neg	5/18/1995
Issuer Credit Rating	A+	5/2/1986	CreditWatch/Outlook	Stable	8/4/1994
Issuer Credit Rating	A+	5/2/1986	CreditWatch/Outlook	Negative	10/26/1993
Issuer Credit Rating	A+	5/2/1986	Upgrade | CreditWatch/Outlook	Stable	5/2/1986
Issuer Credit Rating	A	5/31/1984	Upgrade		
Issuer Credit Rating	BBB+	5/18/1982	Upgrade		
Issuer Credit Rating	BBB	7/19/1961	Downgrade		
Issuer Credit Rating	A	7/15/1946	New Rating		
Foreign Currency ST					
Issuer Credit Rating	A-2	2/3/2011	New Rating		
Local Currency ST					
Issuer Credit Rating	A-2	2/3/2011	New Rating		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
LT Corporate Family Ratings (Domestic)	**WR**	**8/29/2006**	**Withdrawn**	
LT Corporate Family Ratings (Domestic)	Ba1	10/20/2004	New	
Speculative Grade Liquidity Rating	**WR**	**8/29/2006**	**Withdrawn**	
Speculative Grade Liquidity Rating	SGL-2	10/20/2004	New	

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
LT Issuer Rating	**WR**	**7/7/2005**	**Withdrawn**	
LT Issuer Rating	Ba2	10/20/2004	New	
Outlook		**3/12/2021**		**Negative**
Outlook		6/21/2019		Stable
Outlook		5/18/2018		Stable
Outlook		3/10/2017		Negative
Outlook		1/22/2016		Negative
Outlook		11/5/2014		Stable
Outlook		1/30/2014		Stable
Outlook		11/8/2013		Ratings Under Review
Outlook		1/21/2011		Stable
Outlook		7/8/2008		Positive
Outlook		12/12/2007		Ratings Under Review
Outlook		8/29/2006		Stable
Outlook		8/22/2006		Ratings Under Review
Outlook		6/29/2005		Positive
Outlook		10/20/2004		Stable

Subsidiaries

SUBSIDIARY	AGENCY	DEBT TYPE (RATING TYPE)	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	CREDITWATCH / OUTLOOK	CREDITWATCH / OUTLOOK DATE
Clark Fork & Blackfoot LLC	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	10/24/2003		D	NR	10/24/2003
	Moody's	Long Term Rating (LT Issuer Rating)	WR	12/20/2002				
Montana Power Capital I	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	11/10/2003				
Northwestern Capital Financing IV	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	11/10/2003				
Synergy Group Inc.	Moody's	Long Term Rating (Subordinate Domestic)	WR	8/23/1994				

Market Intelligence News

HEADLINE	DATE
Moody's lowers NorthWestern Corp.'s outlook to negative The rating agency said the negative outlook reflected the potential for "sustained financial metric deterioration."	3/15/2021 11:31:00 AM ET
Fitch expects that following the settlement, NorthWestern's funds from operations adjusted leverage metrics will remain below the 5.0x "negative sensitivity threshold" over the next four years. Fitch raises NorthWestern's outlook to stable, affirms BBB+ rating	10/23/2020 4:39:00 PM ET

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Public Service Enterprise Group Incorporated | Credit Ratings

NYSE:PEG (MI KEY: 4050911; SPCIQ KEY: 298482)

BBB+

S&P Global Ratings

Issuer Credit Rating (Foreign Currency LT)
4/23/2013

CreditWatch/Outlook: Stable
5/5/2015

Baa1

Moody's

Long Term Rating (Senior Unsecured Domestic)
8/18/2021

Outlook:

Current Ratings

S&P GLOBAL RATINGS (S&P Entity Name:Public Service Enterprise Group Inc.)

RATING TYPE	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating							
Foreign Currency LT	BBB+	4/23/2013	4/21/2021	BBB+	CreditWatch/Outlook	Stable	5/5/2015
Local Currency LT	BBB+	4/23/2013	4/21/2021	BBB+	CreditWatch/Outlook	Stable	5/5/2015
Foreign Currency ST	A-2	6/22/2007	4/21/2021	A-3	Upgrade		
Local Currency ST	A-2	6/22/2007	4/21/2021	A-3	Upgrade		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
Ratings Summary				
Long Term Rating (Senior Unsecured Domestic)	Baa1	8/18/2021		
Short Term Rating (Commercial Paper Domestic)	P-2	8/18/2021		
Outlook		8/18/2021		Negative
Ratings Detail				
Senior Unsecured (Domestic)	Baa1	8/18/2021		
Senior Unsec. Shelf (Domestic)	(P)Baa1	8/18/2021		
Subordinate Shelf (Domestic)	(P)Baa2	8/18/2021		
Pref. Shelf (Domestic)	(P)Baa3	8/18/2021		
Commercial Paper (Domestic)	P-2	8/18/2021		
Senior Unsecured Bank Credit Facility (Domestic)	WR	4/15/2011	Withdrawn	
Junior Subord. Shelf (Domestic)	WR	12/23/2004	Withdrawn	
Subordinate (Domestic)	WR	7/27/2001	Withdrawn	
Junior Subordinate (Domestic)	WR	7/27/2001	Withdrawn	

Ratings History

S&P GLOBAL RATINGS (S&P Entity Name:Public Service Enterprise Group Inc.)

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Foreign Currency LT					
Issuer Credit Rating	BBB+	4/23/2013	CreditWatch/Outlook	Stable	5/5/2015
Issuer Credit Rating	BBB+	4/23/2013	CreditWatch/Outlook	Positive	5/1/2014
Issuer Credit Rating	BBB+	4/23/2013	Upgrade | CreditWatch/Outlook	Stable	4/23/2013
Issuer Credit Rating	BBB	1/17/1994	CreditWatch/Outlook	Positive	4/11/2011
Issuer Credit Rating	BBB	1/17/1994	CreditWatch/Outlook	Stable	6/22/2007
Issuer Credit Rating	BBB	1/17/1994	CreditWatch/Outlook	Negative	9/15/2006
Issuer Credit Rating	BBB	1/17/1994	CreditWatch/Outlook	Watch Dev	12/20/2004
Issuer Credit Rating	BBB	1/17/1994	CreditWatch/Outlook	Negative	7/30/2004
Issuer Credit Rating	BBB	1/17/1994	CreditWatch/Outlook	Stable	8/28/1998
Issuer Credit Rating	BBB	1/17/1994	CreditWatch/Outlook	Negative	2/23/1996
Issuer Credit Rating	BBB	1/17/1994	New Rating | CreditWatch/Outlook	Stable	1/17/1994
Local Currency LT					
Issuer Credit Rating	BBB+	4/23/2013	CreditWatch/Outlook	Stable	5/5/2015
Issuer Credit Rating	BBB+	4/23/2013	CreditWatch/Outlook	Positive	5/1/2014
Issuer Credit Rating	BBB+	4/23/2013	Upgrade | CreditWatch/Outlook	Stable	4/23/2013
Issuer Credit Rating	BBB	1/17/1994	CreditWatch/Outlook	Positive	4/11/2011
Issuer Credit Rating	BBB	1/17/1994	CreditWatch/Outlook	Stable	6/22/2007
Issuer Credit Rating	BBB	1/17/1994	CreditWatch/Outlook	Negative	9/15/2006
Issuer Credit Rating	BBB	1/17/1994	CreditWatch/Outlook	Watch Dev	12/20/2004

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating	BBB	1/17/1994	CreditWatch/Outlook	Negative	7/30/2004
Issuer Credit Rating	BBB	1/17/1994	CreditWatch/Outlook	Stable	8/28/1998
Issuer Credit Rating	BBB	1/17/1994	CreditWatch/Outlook	Negative	2/23/1996
Issuer Credit Rating	BBB	1/17/1994	New Rating | CreditWatch/Outlook	Stable	1/17/1994
Foreign Currency ST					
Issuer Credit Rating	A-2	6/22/2007	Upgrade		
Issuer Credit Rating	A-3	7/30/2004	CreditWatch/Outlook	NM	9/15/2006
Issuer Credit Rating	A-3	7/30/2004	CreditWatch/Outlook	Watch Dev	12/20/2004
Issuer Credit Rating	A-3	7/30/2004	Downgrade		
Issuer Credit Rating	A-2	4/10/2000	New Rating		
Local Currency ST					
Issuer Credit Rating	A-2	6/22/2007	Upgrade		
Issuer Credit Rating	A-3	7/30/2004	CreditWatch/Outlook	NM	9/15/2006
Issuer Credit Rating	A-3	7/30/2004	CreditWatch/Outlook	Watch Dev	12/20/2004
Issuer Credit Rating	A-3	7/30/2004	Downgrade		
Issuer Credit Rating	A-2	4/10/2000	New Rating		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
Outlook		**8/18/2021**		**Negative**
Outlook		5/1/2019		Stable
Outlook		7/24/2017		Stable
Outlook		9/9/2015		Positive
Outlook		7/17/2008		Stable
Outlook		9/15/2006		Negative
Outlook		12/20/2004		Stable
Outlook		11/15/2003		Negative

Subsidiaries

SUBSIDIARY	AGENCY	DEBT TYPE (RATING TYPE)	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	CREDITWATCH / OUTLOOK	CREDITWATCH / OUTLOOK DATE
Enterprise Capital Trust I	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	10/7/2005				
Enterprise Capital Trust II	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	2/27/2006				
Enterprise Capital Trust III	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	10/20/2005				
PSE&G Fuel Corp.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency ST)	NR	5/16/2017		A-2		
PSEG Capital Corp.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	8/28/2003		BBB	NR	8/28/2003
	Moody's	Long Term Rating (Senior Unsecured MTN Domestic)	WR	9/12/2003				
PSEG Energy Holdings LLC	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	3/24/2010		BB	NR	3/24/2010
	Moody's	Long Term Rating (LT Corporate Family Ratings Domestic)	WR	7/20/2010				
PSEG Funding Trust I	Moody's	Long Term Rating (Pref. Stock Domestic)	WR	11/16/2005				
PSEG Funding Trust II	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	12/17/2007				
PSEG Funding Trust III	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	9/2/2011				
PSEG Funding Trust IV	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	9/2/2011				
PSEG Power LLC	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	BBB	8/5/2020	4/1/2021	BBB+	Stable	8/5/2020
	Moody's	Long Term Rating (Senior Unsecured Domestic)	Baa1	8/18/2021				
Public Service Electric and Gas Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	12/11/2019	4/21/2021	BBB+	Stable	12/11/2019
	Moody's	Long Term Rating (LT Issuer Rating)	A2	5/18/2021				
Public Svc Elec & Gas Cap LP	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	5/28/2002		A-	NR	5/28/2002
	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	12/31/2003				

Market Intelligence News

HEADLINE	DATE
PSEG targets cleaner, clearer growth with fossil fleet sale Public Service Enterprise Group on Aug. 12 announced the sale of its 6,750-MW fossil generation portfolio to a fund controlled by ArcLight Capital Partners for about $1.92 billion.	8/12/2021 4:07:00 PM ET
Industry observers await the results of the PJM Interconnection's first capacity auction since May 2018, which will set prices for the 2022-2023 delivery year. Results of delayed PJM auction should clarify impact of new rule, Dominion exit	6/1/2021 1:03:00 PM ET
Power and utility companies are "proactively looking at their business and figuring out ways that they can be more disciplined and get rid of noncore businesses," said Miles Huq, Ernst & Young LLP partner for strategy and transactions. Surge in US utility deal activity to continue at steady pace – Ernst & Young	11/25/2020 9:09:00 AM ET

HEADLINE	DATE
Investors are questioning "well what about other utilities that are very powerful?" Guggenheim analyst Shahriar Pourreza said. "I think investors will increasingly push for that disclosure and [companies] will be forced to do it." Ohio bribery scandal increases scrutiny of how utilities use 'dark money' groups	8/31/2020 9:01:00 AM ET
S&P downgrades PSEG Power on planned sale of non-nuclear assets S&P Global Ratings expects PSEG to successfully complete the sale process, leaving PSEG Power with effectively only its nuclear assets.	8/6/2020 3:46:00 PM ET

S&P Credit Ratings and Research provided by S&P Global Ratings

'Last Review Date' indicates the date on which an Issue/Issuer Credit Rating was last formally reviewed within a twelve-month period or when a Credit Rating Action was last published. For certain dependent instruments, the 'Last Review Date' will only be updated in the event of a Credit Rating change of the linked organization.

Latest S&P Ratings available unless you are a subscriber of S&P Ratings history.

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The Southern Company | Credit Ratings

NYSE:SO (MI KEY: 4004298; SPCIQ KEY: 120623)

A-

S&P Global Ratings

Issuer Credit Rating (Foreign Currency LT)
8/17/2015

CreditWatch/Outlook: Negative
9/28/2018

Baa2

Moody's

Long Term Rating (Senior Unsecured Domestic)
9/28/2018

Outlook:

Current Ratings

S&P GLOBAL RATINGS (S&P Entity Name:Southern Co.)

RATING TYPE	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating							
Foreign Currency LT	A-	8/17/2015	8/31/2021	A-	CreditWatch/Outlook	Negative	9/28/2018
Local Currency LT	A-	8/17/2015	8/31/2021	A-	CreditWatch/Outlook	Negative	9/28/2018
Foreign Currency ST	A-2	8/17/2015	8/31/2021	A-2	CreditWatch/Outlook	NM	9/28/2018
Local Currency ST	A-2	8/17/2015	8/31/2021	A-2	CreditWatch/Outlook	NM	9/28/2018

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
Ratings Summary				
Long Term Rating (Senior Unsecured Domestic)	Baa2	9/28/2018		
Short Term Rating (Commercial Paper Domestic)	P-2	9/28/2018		
Outlook		9/28/2018		Stable
Ratings Detail				
Senior Unsecured Bank Credit Facility (Domestic)	Baa2	7/21/2021	New	
Senior Unsec. Shelf (Domestic)	WR	2/21/2021	Withdrawn	
Junior Subord. Shelf (Domestic)	WR	2/21/2021	Withdrawn	
Commercial Paper (Domestic)	P-2	9/28/2018		
Junior Subordinate (Domestic)	Baa3	9/28/2018	Rating Affirmation	
Senior Unsecured (Domestic)	Baa2	9/28/2018	Rating Affirmation	
Other Short Term (Domestic)	WR	11/19/2008	Withdrawn	

Ratings History

S&P GLOBAL RATINGS (S&P Entity Name:Southern Co.)

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Foreign Currency LT					
Issuer Credit Rating	A-	8/17/2015	CreditWatch/Outlook	Negative	9/28/2018
Issuer Credit Rating	A-	8/17/2015	CreditWatch/Outlook	Watch Neg	8/10/2018
Issuer Credit Rating	A-	8/17/2015	CreditWatch/Outlook	Negative	3/24/2017
Issuer Credit Rating	A-	8/17/2015	CreditWatch/Outlook	Stable	1/10/2017
Issuer Credit Rating	A-	8/17/2015	CreditWatch/Outlook	Negative	8/24/2015
Issuer Credit Rating	A-	8/17/2015	Downgrade | CreditWatch/Outlook	Stable	8/17/2015
Issuer Credit Rating	A	1/24/1997	CreditWatch/Outlook	Watch Neg	7/8/2015
Issuer Credit Rating	A	1/24/1997	CreditWatch/Outlook	Negative	5/24/2013
Issuer Credit Rating	A	1/24/1997	CreditWatch/Outlook	Stable	12/21/2000
Issuer Credit Rating	A	1/24/1997	CreditWatch/Outlook	Watch Neg	11/30/1998
Issuer Credit Rating	A	1/24/1997	New Rating | CreditWatch/Outlook	Stable	1/24/1997
Local Currency LT					
Issuer Credit Rating	A-	8/17/2015	CreditWatch/Outlook	Negative	9/28/2018
Issuer Credit Rating	A-	8/17/2015	CreditWatch/Outlook	Watch Neg	8/10/2018
Issuer Credit Rating	A-	8/17/2015	CreditWatch/Outlook	Negative	3/24/2017
Issuer Credit Rating	A-	8/17/2015	CreditWatch/Outlook	Stable	1/10/2017
Issuer Credit Rating	A-	8/17/2015	CreditWatch/Outlook	Negative	8/24/2015
Issuer Credit Rating	A-	8/17/2015	Downgrade | CreditWatch/Outlook	Stable	8/17/2015
Issuer Credit Rating	A	1/24/1997	CreditWatch/Outlook	Watch Neg	7/8/2015
Issuer Credit Rating	A	1/24/1997	CreditWatch/Outlook	Negative	5/24/2013
Issuer Credit Rating	A	1/24/1997	CreditWatch/Outlook	Stable	12/21/2000

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATCH/ OUTLOOK DATE
Issuer Credit Rating	A	1/24/1997	CreditWatch/Outlook	Watch Neg	11/30/1998
Issuer Credit Rating	A	1/24/1997	New Rating | CreditWatch/Outlook	Stable	1/24/1997
Foreign Currency ST					
Issuer Credit Rating	A-2	8/17/2015	CreditWatch/Outlook	NM	9/28/2018
Issuer Credit Rating	A-2	8/17/2015	CreditWatch/Outlook	Watch Neg	8/10/2018
Issuer Credit Rating	A-2	8/17/2015	Downgrade | CreditWatch/Outlook	NM	8/17/2015
Issuer Credit Rating	A-1	9/27/1995	CreditWatch/Outlook	Watch Neg	7/8/2015
Issuer Credit Rating	A-1	9/27/1995	CreditWatch/Outlook	NM	12/21/2000
Issuer Credit Rating	A-1	9/27/1995	CreditWatch/Outlook	Watch Neg	11/30/1998
Issuer Credit Rating	A-1	9/27/1995	New Rating		
Local Currency ST					
Issuer Credit Rating	A-2	8/17/2015	CreditWatch/Outlook	NM	9/28/2018
Issuer Credit Rating	A-2	8/17/2015	CreditWatch/Outlook	Watch Neg	8/10/2018
Issuer Credit Rating	A-2	8/17/2015	Downgrade | CreditWatch/Outlook	NM	8/17/2015
Issuer Credit Rating	A-1	9/27/1995	CreditWatch/Outlook	Watch Neg	7/8/2015
Issuer Credit Rating	A-1	9/27/1995	CreditWatch/Outlook	NM	12/21/2000
Issuer Credit Rating	A-1	9/27/1995	CreditWatch/Outlook	Watch Neg	11/30/1998
Issuer Credit Rating	A-1	9/27/1995	New Rating		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
Outlook		**9/28/2018**		**Stable**
Outlook		8/8/2018		Negative
Outlook		1/19/2018		Negative
Outlook		1/5/2018		Stable
Outlook		3/20/2017		Stable
Outlook		7/11/2016		Stable
Outlook		5/13/2016		Stable
Outlook		11/5/2015		Negative
Outlook		10/5/2015		Negative
Outlook		8/24/2015		Negative
Outlook		8/14/2015		Stable
Outlook		5/27/2015		Stable
Outlook		2/19/2015		Stable
Outlook		8/6/2013		Stable
Outlook		8/12/2010		Stable
Outlook		6/17/2010		Ratings Under Review
Outlook		9/1/2009		Negative
Outlook		11/15/2003		Stable

Subsidiaries

SUBSIDIARY	AGENCY	DEBT TYPE (RATING TYPE)	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	CREDITWATCH / OUTLOOK	CREDITWATCH / OUTLOOK DATE
AGL Capital Trust I	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	7/20/2007				
AGL Capital Trust II	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	5/21/2006				
AGL Capital Trust III	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	4/2/2014				
Alabama Power Capital Trust IV	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	9/30/2007				
Alabama Power Capital Trust V	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	7/8/2021				
Alabama Power Capital Trust VI	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	6/14/2010				
Alabama Power Capital Trust VII	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	6/14/2010				
Alabama Power Capital Trust VIII	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	6/14/2010				
Alabama Power Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A	9/12/2019	8/31/2021	A-	Negative	9/12/2019
	Moody's	Long Term Rating (LT Issuer Rating)	A1	9/28/2018				
Atlanta Gas Light Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	6/30/2016	8/31/2021	A-	Negative	9/28/2018
	Moody's	Long Term Rating (Senior Unsecured Domestic)	WR	6/16/2014				
Georgia Power Capital LP	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	12/22/2000		NR	NR	1/30/2002
	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	12/20/1999				
Georgia Power Capital Trust IV	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	1/23/2004				
Georgia Power Capital Trust IX	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	6/14/2010				

SUBSIDIARY	AGENCY	DEBT TYPE (RATING TYPE)	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	CREDITWATCH / OUTLOOK	CREDITWATCH / OUTLOOK DATE
Georgia Power Capital Trust V	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	6/21/2007				
Georgia Power Capital Trust VI	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	11/1/2007				
Georgia Power Capital Trust VII	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	9/23/2011				
Georgia Power Capital Trust VIII	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	6/14/2010				
Georgia Power Capital Trust X	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	6/14/2010				
Georgia Power Capital Trust XI	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	6/14/2010				
Georgia Power Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	8/17/2015	8/31/2021	A-	Negative	9/28/2018
	Moody's	Long Term Rating (LT Issuer Rating)	Baa1	8/8/2018				
Mississippi Power Capital Trust II	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	4/6/2007				
Mississippi Power Capital Trust III	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	6/14/2010				
Mississippi Power Capital Trust IV	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	6/14/2010				
Mississippi Power Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	3/14/2018	8/31/2021	A-	Negative	9/28/2018
	Moody's	Long Term Rating (LT Issuer Rating Domestic)	Baa1	8/27/2020				
NUI Corp.	Moody's	Long Term Rating (Senior Unsecured Domestic)	WR	11/26/2003				
Ottawa Acquisition LLC	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	12/15/2011		BBB+	NR	12/15/2011
	Moody's	Long Term Rating (Senior Unsecured Domestic)	WR	8/1/1992				
Savannah Electric Capital Trust II	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	8/20/2007				
Southern Co. Capital Funding Inc.	Moody's	Long Term Rating (Junior Subordinate Domestic)	WR	7/27/2001				
Southern Co. Gas	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	6/30/2016	8/31/2021	A-	Negative	9/28/2018
	Moody's	Long Term Rating (Senior Unsec. Shelf Domestic)	WR	4/2/2014				
Southern Co. Services Inc.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	8/17/2015	8/31/2021	A-	Negative	9/28/2018
	Moody's	Long Term Rating (BACKED Senior Unsecured Domestic)	WR	1/30/2006				
Southern Company Capital Trust I	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	2/2/2007				
Southern Company Capital Trust II	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	2/16/2007				
Southern Company Capital Trust III	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	8/23/2002				
Southern Company Capital Trust IV	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	6/30/2003				
Southern Company Capital Trust V	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	12/23/2003				
Southern Company Capital Trust VI	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	7/31/2007				
Southern Company Capital Trust VII	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	6/14/2010				
Southern Company Funding Corp.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency ST)	A-2	8/17/2015	8/31/2021	A-2	NM	9/28/2018
Southern Company Gas Capital	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	7/11/2016	8/31/2021	A-	Negative	9/28/2018
	Moody's	Long Term Rating (BACKED Senior Unsecured Domestic)	Baa1	7/15/2020				
Southern Electric Generating Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	8/17/2015	8/31/2021	A-	Negative	9/28/2018
	Moody's	Long Term Rating (LT Issuer Rating)	A2	9/28/2018				
Southern Natural Gas Co. LLC	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	BBB+	9/2/2016	5/4/2021	BBB-	Stable	9/2/2016
	Moody's	Long Term Rating (Senior Unsecured Domestic)	Baa2	5/30/2017				
Southern Power Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	BBB+	10/30/2001	8/31/2021	BBB+	Negative	9/28/2018
	Moody's	Long Term Rating (LT Issuer Rating)	Baa1	5/25/2021				
Tenaska Alabama II Partners L.P.	Moody's	Long Term Rating (Senior Secured Domestic)	WR	11/2/2020				

Market Intelligence News

HEADLINE	DATE
"[W]e think we are making adjustments to unit 4 so that we will not, we should not, repeat any of these issues going forward," Southern Chairman, President and CEO Thomas Fanning said April 29. Southern executives warn Vogtle nuclear unit could face further delays	4/29/2021 5:37:00 PM ET
Georgia Power recently announced plans to "adjust key milestones" on the construction of unit 3 at the Alvin W. Vogtle Nuclear Plant expansion in response to an increase in COVID-19 cases. Wall Street braces for further delays, cost overruns at Vogtle nuke project	1/13/2021 11:15:00 AM ET
Fitch upgrades Mississippi Power, raises outlook for Southern, subsidiaries The rating agency also raised the outlooks of parent company Southern Co. and certain of its other subsidiaries to stable from negative. Fitch affirmed the issuer default rating of Georgia Power at "BBB+" and maintained a negative outlook.	9/25/2020 4:39:00 PM ET
Investors are questioning "well what about other utilities that are very powerful?" Guggenheim analyst Shahriar Pourreza said. "I think investors will increasingly push for that disclosure and [companies] will be forced to do it." Ohio bribery scandal increases scrutiny of how utilities use 'dark money' groups	8/31/2020 9:01:00 AM ET
Warm weather, residential power sales help utilities offset demand declines While major questions about public health and the strength of the economy loom over the second half of 2020, even those utilities that experienced large demand declines in April saw power sales improve in subsequent months.	8/4/2020 12:06:00 PM ET

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Ratings

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WEC Energy Group, Inc. | Credit Ratings

NYSE:WEC (MI KEY: 4009725; SPCIQ KEY: 315117)

A-

S&P Global Ratings

Issuer Credit Rating (Foreign Currency LT)
6/27/2011

CreditWatch/Outlook: Stable
6/29/2015

Baa1

Moody's

Long Term Rating (LT Issuer Rating)
7/12/2018

Outlook:

Current Ratings

S&P GLOBAL RATINGS (S&P Entity Name:WEC Energy Group Inc.)

RATING TYPE	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	ACTION	CREDITWATCH/ OUTLOOK	CREDITW OUTLOO DATE
Issuer Credit Rating							
Foreign Currency LT	A-	6/27/2011	8/19/2021	A-	CreditWatch/Outlook	Stable	6/29/201
Local Currency LT	A-	6/27/2011	8/19/2021	A-	CreditWatch/Outlook	Stable	6/29/201
Foreign Currency ST	A-2	10/18/2001	8/19/2021	A-1	Downgrade		
Local Currency ST	A-2	10/18/2001	8/19/2021	A-1	Downgrade		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
Ratings Summary				
Long Term Rating (LT Issuer Rating)	Baa1	7/12/2018	Downgrade	
Short Term Rating (Commercial Paper Domestic)	P-2	7/12/2018		
Outlook		7/12/2018		Stable
Ratings Detail				
Senior Unsec. Shelf (Domestic)	WR	2/3/2021	Withdrawn	
Junior Subord. Shelf (Domestic)	WR	2/3/2021	Withdrawn	
Commercial Paper (Domestic)	P-2	7/12/2018		
Senior Unsecured (Domestic)	Baa1	7/12/2018	Downgrade	
LT Issuer Rating	Baa1	7/12/2018	Downgrade	
Junior Subordinate (Domestic)	Baa2	7/12/2018	Downgrade	
Subordinate Shelf (Domestic)	WR	3/17/2003	Withdrawn	

Ratings History

S&P GLOBAL RATINGS (S&P Entity Name:WEC Energy Group Inc.)

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATC OUTLOOK DA
Foreign Currency LT					
Issuer Credit Rating	A-	6/27/2011	CreditWatch/Outlook	Stable	6/29/2015
Issuer Credit Rating	A-	6/27/2011	CreditWatch/Outlook	Negative	6/23/2014
Issuer Credit Rating	A-	6/27/2011	CreditWatch/Outlook	Stable	6/25/2013
Issuer Credit Rating	A-	6/27/2011	CreditWatch/Outlook	Positive	6/7/2012
Issuer Credit Rating	A-	6/27/2011	Upgrade | CreditWatch/Outlook	Stable	6/27/2011
Issuer Credit Rating	BBB+	3/7/2003	CreditWatch/Outlook	Positive	3/17/2011
Issuer Credit Rating	BBB+	3/7/2003	CreditWatch/Outlook	Stable	7/8/2009
Issuer Credit Rating	BBB+	3/7/2003	CreditWatch/Outlook	Positive	7/2/2008
Issuer Credit Rating	BBB+	3/7/2003	CreditWatch/Outlook	Stable	7/31/2007
Issuer Credit Rating	BBB+	3/7/2003	CreditWatch/Outlook	Negative	3/30/2005
Issuer Credit Rating	BBB+	3/7/2003	Downgrade | CreditWatch/Outlook	Stable	3/7/2003
Issuer Credit Rating	A-	10/18/2001	Downgrade | CreditWatch/Outlook	Stable	10/18/2001
Issuer Credit Rating	A+	4/19/2000	Downgrade | CreditWatch/Outlook	Negative	4/19/2000
Issuer Credit Rating	AA	6/28/1999	New Rating | CreditWatch/Outlook	Watch Neg	6/28/1999
Local Currency LT					
Issuer Credit Rating	A-	6/27/2011	CreditWatch/Outlook	Stable	6/29/2015
Issuer Credit Rating	A-	6/27/2011	CreditWatch/Outlook	Negative	6/23/2014
Issuer Credit Rating	A-	6/27/2011	CreditWatch/Outlook	Stable	6/25/2013
Issuer Credit Rating	A-	6/27/2011	CreditWatch/Outlook	Positive	6/7/2012
Issuer Credit Rating	A-	6/27/2011	Upgrade | CreditWatch/Outlook	Stable	6/27/2011
Issuer Credit Rating	BBB+	3/7/2003	CreditWatch/Outlook	Positive	3/17/2011

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATC OUTLOOK DA
Issuer Credit Rating	BBB+	3/7/2003	CreditWatch/Outlook	Stable	7/8/2009
Issuer Credit Rating	BBB+	3/7/2003	CreditWatch/Outlook	Positive	7/2/2008
Issuer Credit Rating	BBB+	3/7/2003	CreditWatch/Outlook	Stable	7/31/2007
Issuer Credit Rating	BBB+	3/7/2003	CreditWatch/Outlook	Negative	3/30/2005
Issuer Credit Rating	BBB+	3/7/2003	Downgrade | CreditWatch/Outlook	Stable	3/7/2003
Issuer Credit Rating	A-	10/18/2001	Downgrade | CreditWatch/Outlook	Stable	10/18/2001
Issuer Credit Rating	A+	4/19/2000	Downgrade | CreditWatch/Outlook	Negative	4/19/2000
Issuer Credit Rating	AA	6/28/1999	New Rating | CreditWatch/Outlook	Watch Neg	6/28/1999
Foreign Currency ST					
Issuer Credit Rating	A-2	10/18/2001	Downgrade		
Issuer Credit Rating	A-1	4/19/2000	Downgrade		
Issuer Credit Rating	A-1+	8/3/1998	New Rating		
Local Currency ST					
Issuer Credit Rating	A-2	10/18/2001	Downgrade		
Issuer Credit Rating	A-1	4/19/2000	Downgrade		
Issuer Credit Rating	A-1+	8/3/1998	New Rating		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
LT Issuer Rating	**Baa1**	**7/12/2018**	**Downgrade**	
LT Issuer Rating	A3	6/1/2018	On Watch - Possible Downgrade	
LT Issuer Rating	A3	7/6/2017	Rating Affirmation	
LT Issuer Rating	A3	6/29/2016	Rating Affirmation	
LT Issuer Rating	A3	5/21/2015	Downgrade	
LT Issuer Rating	A2	5/4/2015	On Watch - Possible Downgrade	
LT Issuer Rating	A2	6/23/2014	Rating Affirmation	
LT Issuer Rating	A2	1/31/2014	Upgrade	
LT Issuer Rating	A3	11/8/2013	On Watch - Possible Upgrade	
LT Issuer Rating	A3	10/14/2003	Downgrade	
LT Issuer Rating	A2	2/24/2003	On Watch - Possible Downgrade	
LT Issuer Rating	A2	3/21/2001	Downgrade	
LT Issuer Rating	A1	4/7/2000	New	
Outlook		**7/12/2018**		**Stable**
Outlook		6/1/2018		Ratings Under Review
Outlook		7/6/2017		Negative
Outlook		6/29/2016		Stable
Outlook		5/21/2015		Stable
Outlook		5/4/2015		Ratings Under Review
Outlook		6/23/2014		Negative
Outlook		1/31/2014		Stable
Outlook		11/8/2013		Ratings Under Review
Outlook		2/4/2004		Stable
Outlook		11/15/2003		Negative

Subsidiaries

SUBSIDIARY	AGENCY	DEBT TYPE (RATING TYPE)	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	CREDITWATCH / OUTLOOK	CREDITW / OUTLO DATE
American Transmission Company LLC	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A+	7/18/2005	4/26/2021	A+	Stable	6/29/20
	Moody's	Long Term Rating (LT Issuer Rating)	A2	12/9/2016				
Elm Road Generating Station Supercritical	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	2/26/2016	8/19/2021	New	Stable	2/26/20
	Moody's	Long Term Rating (Senior Unsecured Domestic)	A2	7/6/2017				
Integrys Holding	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	6/29/2015	8/19/2021	New	Stable	6/29/20
	Moody's	Long Term Rating (LT Issuer Rating Domestic)	Baa1	7/12/2018				
North Shore Gas Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	1/8/2018		A-	NR	1/8/201
	Moody's	Long Term Rating (LT Issuer Rating Domestic)	WR	4/13/2021				
Peoples Energy LLC	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	4/9/2013		A-	NR	4/9/201
	Moody's	Long Term Rating (Senior Unsecured Domestic)	WR	8/1/2002				
The Peoples Gas Light and Coke Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	1/24/2012	8/19/2021	A-	Stable	6/29/20
	Moody's	Long Term Rating (LT Issuer Rating Domestic)	A2	6/29/2016				
WEC Capital Trust I	Moody's	Long Term Rating (BACKED Pref. Stock Domestic)	WR	3/26/2004				

SUBSIDIARY	AGENCY	DEBT TYPE (RATING TYPE)	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	CREDITWATCH / OUTLOOK	CREDITW / OUTLO DATE
WEC Capital Trust II	Moody's	Long Term Rating (BACKED Pref. Shelf Domestic)	WR	6/2/2015				
Wisconsin Electric Power Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	3/7/2003	8/19/2021	A-	Stable	6/25/20
	Moody's	Long Term Rating (LT Issuer Rating)	A2	7/6/2017				
Wisconsin energy capital corp.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	1/8/2018		A-	NR	1/8/201
	Moody's	Long Term Rating (BACKED Senior Unsecured Domestic)	Baa1	7/12/2018				
Wisconsin Gas LLC	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A	12/9/2013	8/19/2021	A-	Stable	12/9/20
	Moody's	Long Term Rating (Senior Unsecured Domestic)	A3	11/20/2019				
Wisconsin Michigan Power Company	Moody's	Long Term Rating (First Mortgage Bonds Domestic)	WR	7/1/1978				
Wisconsin Public Service Corp.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	3/5/2009	8/19/2021	A-	Stable	1/26/20
	Moody's	Long Term Rating (LT Issuer Rating)	A2	7/6/2017				
WPS Resources Capital Corp.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	3/29/2002		A+	NR	3/29/20
	Moody's	Long Term Rating (BACKED Senior Unsecured MTN Domestic)	WR	2/7/2001				

Market Intelligence News

HEADLINE	DATE
Customer mix, regulatory support critical to how US utilities manage demand drop Dominion Energy and Entergy are among the US utilities that look "relatively insulated" from a drop in reduced commercial and industrial demand, according to Scotia Capital (USA) Inc. analyst Andrew Weisel.	4/2/2020 4:45:00 PM ET

S&P Credit Ratings and Research provided by S&P Global Ratings

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Xcel Energy Inc. | Credit Ratings

NASDAQGS:XEL (MI KEY: 4025308; SPCIQ KEY: 527542)

A-

S&P Global Ratings

Issuer Credit Rating (Foreign Currency LT)
6/23/2010

Upgrade | CreditWatch/Outlook: Stable
6/23/2010

Baa1

Moody's

Long Term Rating (LT Issuer Rating)
3/28/2019

Outlook:

Current Ratings

S&P GLOBAL RATINGS (S&P Entity Name:Xcel Energy Inc.)

RATING TYPE	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	ACTION	CREDITWATCH/ OUTLOOK	CREDITW OUTLOOK DATE
Issuer Credit Rating							
Foreign Currency LT	A-	6/23/2010	5/21/2021	BBB+	Upgrade | CreditWatch/Outlook	Stable	6/23/201
Local Currency LT	A-	6/23/2010	5/21/2021	BBB+	Upgrade | CreditWatch/Outlook	Stable	6/23/201
Foreign Currency ST	A-2	6/8/2005	5/21/2021	NR	New Rating		
Local Currency ST	A-2	6/8/2005	5/21/2021	NR	New Rating		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
Ratings Summary				
Long Term Rating (LT Issuer Rating)	Baa1	3/28/2019	Downgrade	
Short Term Rating (Commercial Paper Domestic)	P-2	3/28/2019		
Outlook		3/28/2019		Stable
Ratings Detail				
Senior Unsec. Shelf (Domestic)	WR	4/18/2021	Withdrawn	
Subordinate Shelf (Domestic)	WR	4/18/2021	Withdrawn	
Junior Subord. Shelf (Domestic)	WR	4/18/2021	Withdrawn	
Pref. Shelf (Domestic)	WR	4/18/2021	Withdrawn	
Senior Unsecured Bank Credit Facility (Domestic)	Baa1	7/19/2019	New	
LT Issuer Rating	Baa1	3/28/2019	Downgrade	
Commercial Paper (Domestic)	P-2	3/28/2019		
Senior Unsecured (Domestic)	Baa1	3/28/2019	Downgrade	
Junior Subordinate (Domestic)	WR	5/31/2013	Withdrawn	
Pref. Stock	WR	10/31/2011	Withdrawn	

Ratings History

S&P GLOBAL RATINGS (S&P Entity Name:Xcel Energy Inc.)

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATC OUTLOOK DA
Foreign Currency LT					
Issuer Credit Rating	A-	6/23/2010	Upgrade | CreditWatch/Outlook	Stable	6/23/2010
Issuer Credit Rating	BBB+	10/16/2007	CreditWatch/Outlook	Positive	6/10/2009
Issuer Credit Rating	BBB+	10/16/2007	Upgrade | CreditWatch/Outlook	Stable	10/16/2007
Issuer Credit Rating	BBB	6/24/2002	CreditWatch/Outlook	Stable	3/12/2004
Issuer Credit Rating	BBB	6/24/2002	CreditWatch/Outlook	Watch Pos	5/14/2003
Issuer Credit Rating	BBB	6/24/2002	CreditWatch/Outlook	Watch Dev	8/7/2002
Issuer Credit Rating	BBB	6/24/2002	CreditWatch/Outlook	Watch Neg	7/26/2002
Issuer Credit Rating	BBB	6/24/2002	Downgrade | CreditWatch/Outlook	Negative	6/24/2002
Issuer Credit Rating	A-	8/17/2000	CreditWatch/Outlook	Watch Neg	2/11/2002
Issuer Credit Rating	A-	8/17/2000	New Rating | CreditWatch/Outlook	Stable	8/17/2000
Local Currency LT					
Issuer Credit Rating	A-	6/23/2010	Upgrade | CreditWatch/Outlook	Stable	6/23/2010
Issuer Credit Rating	BBB+	10/16/2007	CreditWatch/Outlook	Positive	6/10/2009
Issuer Credit Rating	BBB+	10/16/2007	Upgrade | CreditWatch/Outlook	Stable	10/16/2007
Issuer Credit Rating	BBB	6/24/2002	CreditWatch/Outlook	Stable	3/12/2004
Issuer Credit Rating	BBB	6/24/2002	CreditWatch/Outlook	Watch Pos	5/14/2003
Issuer Credit Rating	BBB	6/24/2002	CreditWatch/Outlook	Watch Dev	8/7/2002
Issuer Credit Rating	BBB	6/24/2002	CreditWatch/Outlook	Watch Neg	7/26/2002

RATING TYPE	RATING	RATING DATE	ACTION	CREDITWATCH/ OUTLOOK	CREDITWATC OUTLOOK DA
Issuer Credit Rating	BBB	6/24/2002	Downgrade | CreditWatch/Outlook	Negative	6/24/2002
Issuer Credit Rating	A-	8/17/2000	CreditWatch/Outlook	Watch Neg	2/11/2002
Issuer Credit Rating	A-	8/17/2000	New Rating | CreditWatch/Outlook	Stable	8/17/2000
Foreign Currency ST					
Issuer Credit Rating	A-2	6/8/2005	New Rating		
Issuer Credit Rating	NR	6/1/2004	Not Rated		
Issuer Credit Rating	A-2	5/14/2003	Upgrade | CreditWatch/Outlook	NM	5/14/2003
Issuer Credit Rating	A-3	6/24/2002	CreditWatch/Outlook	Watch Dev	8/7/2002
Issuer Credit Rating	A-3	6/24/2002	CreditWatch/Outlook	Watch Neg	7/26/2002
Issuer Credit Rating	A-3	6/24/2002	Downgrade | CreditWatch/Outlook	NM	6/24/2002
Issuer Credit Rating	A-2	8/17/2000	CreditWatch/Outlook	Watch Neg	2/11/2002
Issuer Credit Rating	A-2	8/17/2000	New Rating		
Local Currency ST					
Issuer Credit Rating	A-2	6/8/2005	New Rating		
Issuer Credit Rating	NR	6/1/2004	Not Rated		
Issuer Credit Rating	A-2	5/14/2003	Upgrade | CreditWatch/Outlook	NM	5/14/2003
Issuer Credit Rating	A-3	6/24/2002	CreditWatch/Outlook	Watch Dev	8/7/2002
Issuer Credit Rating	A-3	6/24/2002	CreditWatch/Outlook	Watch Neg	7/26/2002
Issuer Credit Rating	A-3	6/24/2002	Downgrade | CreditWatch/Outlook	NM	6/24/2002
Issuer Credit Rating	A-2	8/17/2000	CreditWatch/Outlook	Watch Neg	2/11/2002
Issuer Credit Rating	A-2	8/17/2000	New Rating		

MOODY'S

RATING TYPE	RATING	DATE	ACTION	OUTLOOK
LT Issuer Rating	**Baa1**	**3/28/2019**	**Downgrade**	
LT Issuer Rating	A3	10/19/2018	Rating Affirmation	
LT Issuer Rating	A3	3/28/2017	Rating Affirmation	
LT Issuer Rating	A3	1/31/2014	Upgrade	
LT Issuer Rating	Baa1	11/8/2013	On Watch - Possible Upgrade	
LT Issuer Rating	Baa1	4/19/2004	Upgrade	
LT Issuer Rating	Baa3	12/11/2003	On Watch - Possible Upgrade	
LT Issuer Rating	Baa3	5/20/2003	On Watch - Confirm Only (P.R.)	
LT Issuer Rating	Baa3	9/5/2002	Downgrade	
LT Issuer Rating	Baa3	9/5/2002	On Watch - Possible Downgrade	
LT Issuer Rating	Baa2	7/29/2002	Downgrade	
LT Issuer Rating	Baa2	7/29/2002	On Watch - Possible Downgrade	
LT Issuer Rating	A3	2/15/2002	On Watch - Possible Downgrade	
LT Issuer Rating	A3	10/18/2001	On Watch - Confirm Only (P.R.)	
LT Issuer Rating	A3	10/12/2001	On Watch - Possible Downgrade	
LT Issuer Rating	A3	8/17/2000	New	
Outlook		**3/28/2019**		**Stable**
Outlook		10/19/2018		Negative
Outlook		3/28/2017		Stable
Outlook		1/31/2014		Stable
Outlook		11/8/2013		Ratings Under Review
Outlook		4/19/2004		Stable
Outlook		12/11/2003		Ratings Under Review
Outlook		11/15/2003		Stable

Subsidiaries

SUBSIDIARY	AGENCY	DEBT TYPE (RATING TYPE)	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	CREDITWATCH / OUTLOOK	CREDITW / OUTLOO DATE
Lake Superior District Power Co.	Moody's	Long Term Rating (First Mortgage Bonds Domestic)	WR	12/29/1986				
New Century Energies Inc.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	8/17/2000		BBB+	NR	8/17/200
	Moody's	Long Term Rating (LT Issuer Rating)	WR	10/5/2000				
Northern States Power Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	6/23/2010	5/21/2021	BBB+	Stable	6/23/201
Northern States Power Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	10/16/2007	5/21/2021	A-	Stable	6/23/201
	Moody's	Long Term Rating (LT Issuer Rating)	A2	10/19/2018				
	Moody's	Long Term Rating (Senior Unsecured Bank Credit Facility Domestic)	A2	7/19/2019				
Public Service Co. of Colorado	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	6/23/2010	8/9/2021	BBB+	Stable	6/23/201

SUBSIDIARY	AGENCY	DEBT TYPE (RATING TYPE)	RATING	RATING DATE	LAST REVIEW DATE	PREVIOUS RATING	CREDITWATCH / OUTLOOK	CREDITW / OUTLOO DATE
	Moody's	Long Term Rating (LT Issuer Rating)	A3	10/19/2018				
Public Service Colorado Credit Corp.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	NR	11/20/2002		BBB	NR	11/20/20
	Moody's	Long Term Rating (Senior Unsecured Domestic)	WR	5/30/2000				
Rocky Mountain Energy Center LLC	Moody's	Long Term Rating (Senior Secured Bank Credit Facility Domestic)	WR	1/5/2011				
Southwestern Public Service Co.	S&P Global Ratings	Issuer Credit Rating (Foreign Currency LT)	A-	6/23/2010	5/21/2021	BBB+	Stable	6/23/201
	Moody's	Long Term Rating (LT Issuer Rating)	Baa2	10/19/2018				

Market Intelligence News

HEADLINE	DATE
Customer mix, regulatory support critical to how US utilities manage demand drop Dominion Energy and Entergy are among the US utilities that look "relatively insulated" from a drop in reduced commercial and industrial demand, according to Scotia Capital (USA) Inc. analyst Andrew Weisel.	4/2/2020 4:45:00 PM ET
"We think that the economics make sense that the utilities in general should be pursuing this just because it seems to benefit everybody," Morgan Stanley analyst Stephen Byrd said in a Feb. 11 phone interview. Morgan Stanley: $64B capex upside for utilities replacing coal with renewables	2/18/2020 9:16:00 AM ET
Gas, renewables will fight for market share, leaving coal behind, report says State-level renewable portfolio standards along with corporate demand for zero-emission power will promote wind and solar even after tax credits expire, Morningstar said. Demand also grows for cheap shale gas. Demand for coal keeps plummeting.	10/24/2019 12:12:00 PM ET

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Part 1 Summary & Index

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September 3, 2021

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Highest Growth Stocks 39

The Median of Estimated **PRICE-EARNINGS RATIOS** of all stocks with earnings

18.8

26 Weeks Ago	Market Low 3-23-20	Market High 7-26-21
21.4	11.0	19.4

The Median of Estimated **DIVIDEND YIELDS** (next 12 months) of all dividend paying stocks

1.8%

26 Weeks Ago	Market Low 3-23-20	Market High 7-26-21
1.9%	3.7%	1.8%

The Median Estimated **THREE-TO-FIVE YEAR PRICE APPRECIATION POTENTIAL** of all 1700 stocks in the VL Universe

35%

26 Weeks Ago	Market Low 3-23-20	Market High 7-26-21
30%	145%	35%

The Median Estimated **18-MONTH APPRECIATION POTENTIAL TO TARGET PRICE RANGE** of all 1700 stocks in the VL Universe

12%

26 Weeks Ago	Market Low 3-23-20	Market High 7-26-21
4%	72%	13%

ANALYSES OF INDUSTRIES IN ALPHABETICAL ORDER WITH PAGE NUMBER

Numeral in parenthesis after the industry is rank for probable performance (next 12 months).

	PAGE		PAGE		PAGE		PAGE
Advertising (47)	2381	Electrical Equipment (64)	1301	Investment Banking (5)	1801	Railroad (9)	338
*Aerospace/Defense (30)	701	Electric Util. (Central) (89)	901	Investment Co. (--)	1197	R.E.I.T. (85)	1510
Air Transport (41)	301	Electric Utility (East) (79)	133	Investment Co.(Foreign) (--)	418	Recreation (38)	2301
Apparel (71)	2101	Electric Utility (West) (90)	2205	Machinery (36)	1701	Reinsurance (83)	2016
Asset Management (39)	2217	Electronics (44)	1318	Maritime (92)	331	Restaurant (43)	349
Automotive (48)	101	Engineering & Const (55)	1017	*Medical Services (12)	786	Retail Automotive (18)	2117
Auto Parts (52)	961	Entertainment (6)	2329	Med Supp Invasive (33)	164	Retail Building Supply (50)	1136
Bank (23)	2501	Entertainment Tech (17)	2007	Med Supp Non-Invasive (46)	196	Retail (Hardlines) (26)	2165
*Bank (Midwest) (80)	771	Environmental (58)	408	*Metal Fabricating (87)	725	Retail (Softlines) (67)	2188
Beverage (59)	1965	Financial Svcs. (Div.) (14)	2534	Metals & Mining (Div.) (66)	1582	Retail Store (20)	2134
*Biotechnology (28)	823	Food Processing (86)	1901	Natural Gas Utility (93)	540	Retail/Wholesale Food (78)	1945
Brokers & Exchanges (16)	1791	Foreign Electronics (31)	1982	Natural Gas (Div.) (53)	522	Semiconductor (8)	1344
Building Materials (32)	1101	Furn/Home Furnishings (40)	1145	Office Equip/Supplies (68)	1404	Semiconductor Equip (19)	1377
Cable TV (10)	1000	*Healthcare Information (75)	814	Oil/Gas Distribution (62)	601	Shoe (34)	2155
Cannabis (70)	1411	Heavy Truck & Equip (81)	145	Oilfield Svcs/Equip. (94)	2406	*Steel (54)	735
Chemical (Basic) (49)	1599	Homebuilding (37)	1124	Packaging & Container (29)	1169	Telecom. Equipment (60)	937
Chemical (Diversified) (65)	2423	Hotel/Gaming (4)	2351	Paper/Forest Products (73)	1160	Telecom. Services (91)	916
Chemical (Specialty) (57)	551	Household Products (76)	1185	Petroleum (Integrated) (74)	501	Telecom. Utility (96)	1011
Computers/Peripherals (35)	1391	Human Resources (72)	1639	Petroleum (Producing) (82)	2390	Thrift (84)	1501
Computer Software (3)	2574	Industrial Services (45)	374	Pipeline MLPs (95)	614	Tobacco (97)	1990
Cyber Security (11)	2027	Information Services (25)	431	Power (42)	1208	Toiletries/Cosmetics (21)	990
Diversified Co. (56)	1743	IT Services (15)	2605	Precious Metals (88)	1565	Trucking (63)	317
Drug (22)	1609	Insurance (Life) (77)	1553	Precision Instrument (13)	111	Water Utility (61)	1783
E-Commerce (2)	1808	*Insurance (Prop/Cas.) (24)	749	Public/Private Equity (7)	2434	Wireless Networking (51)	585
Educational Services (69)	1997	Internet (1)	2629	Publishing (27)	2373		

*Reviewed in this week's issue.

In three parts: This is Part 1, the Summary & Index. Part 2 is Selection & Opinion. Part 3 is Ratings & Reports. Volume LXXVII, No. 4.

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August 27, 2021

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The Median Estimated **18-MONTH APPRECIATION POTENTIAL TO TARGET PRICE RANGE** of all 1700 stocks in the VL Universe

10%

26 Weeks Ago	Market Low 3-23-20	Market High 7-26-21
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ANALYSES OF INDUSTRIES IN ALPHABETICAL ORDER WITH PAGE NUMBER

Numeral in parenthesis after the industry is rank for probable performance (next 12 months).

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Air Transport (41)	301
Apparel (75)	2101
Asset Management (54)	2217
Automotive (57)	101
Auto Parts (60)	961
Bank (10)	2501
Bank (Midwest) (81)	773
Beverage (61)	1965
Biotechnology (33)	830
Brokers & Exchanges (14)	1791
Building Materials (18)	1101
Cable TV (8)	1000
Cannabis (68)	1411
Chemical (Basic) (44)	1599
Chemical (Diversified) (56)	2423
*Chemical (Specialty) (53)	551
Computers/Peripherals (35)	1391
Computer Software (3)	2574
Cyber Security (9)	2027
Diversified Co. (51)	1743
Drug (23)	1609
E-Commerce (2)	1808
Educational Services (62)	1997
Electrical Equipment (45)	1301
Electric Util. (Central) (89)	901
Electric Utility (East) (76)	133
Electric Utility (West) (91)	2205
Electronics (49)	1318
Engineering & Const (46)	1017
Entertainment (6)	2329
Entertainment Tech (15)	2007
Environmental (58)	408
Financial Svcs. (Div.) (11)	2534
Food Processing (82)	1901
Foreign Electronics (29)	1982
Furn/Home Furnishings (38)	1145
Healthcare Information (73)	819
Heavy Truck & Equip (74)	145
Homebuilding (48)	1124
Hotel/Gaming (4)	2351
Household Products (69)	1185
Human Resources (71)	1639
Industrial Services (42)	374
Information Services (32)	431
IT Services (19)	2605
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Insurance (Prop/Cas.) (20)	751
Internet (1)	2629
Investment Banking (5)	1801
Investment Co. (--)	1197
Investment Co.(Foreign) (--)	418
Machinery (28)	1701
Maritime (90)	331
Medical Services (12)	789
Med Supp Invasive (34)	164
Med Supp Non-Invasive (52)	196
Metal Fabricating (93)	726
Metals & Mining (Div.) (66)	1582
*Natural Gas Utility (94)	540
*Natural Gas (Div.) (39)	522
Office Equip/Supplies (83)	1404
*Oil/Gas Distribution (67)	601
Oilfield Svcs/Equip. (92)	2406
Packaging & Container (37)	1169
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*Petroleum (Integrated) (80)	501
Petroleum (Producing) (84)	2390
*Pipeline MLPs (95)	614
Power (59)	1208
Precious Metals (88)	1565
Precision Instrument (21)	111
Public/Private Equity (17)	2434
Publishing (26)	2373
Railroad (13)	338
R.E.I.T. (85)	1510
Recreation (36)	2301
Reinsurance (79)	2016
Restaurant (50)	349
Retail Automotive (16)	2117
Retail Building Supply (47)	1136
Retail (Hardlines) (30)	2165
Retail (Softlines) (70)	2188
Retail Store (22)	2134
Retail/Wholesale Food (78)	1945
Semiconductor (7)	1344
Semiconductor Equip (27)	1377
Shoe (24)	2155
Steel (64)	736
Telecom. Equipment (55)	937
Telecom. Services (87)	916
Telecom. Utility (97)	1011
Thrift (86)	1501
Tobacco (96)	1990
Toiletries/Cosmetics (31)	990
Trucking (65)	317
Water Utility (63)	1783
*Wireless Networking (40)	585

*Reviewed in this week's issue.

In three parts: This is Part 1, the Summary & Index. Part 2 is Selection & Opinion. Part 3 is Ratings & Reports. Volume LXXVII, No. 3.

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THE VALUE LINE Investment Survey®

Part 1
Summary & Index

File at the front of the *Ratings & Reports* binder. Last week's *Summary & Index* should be removed.

August 20, 2021

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Highest Growth Stocks 39

The Median of Estimated **PRICE-EARNINGS RATIOS** of all stocks with earnings

19.1

26 Weeks Ago	Market Low 3-23-20	Market High 7-26-21
21.4	11.0	19.4

The Median of Estimated **DIVIDEND YIELDS** (next 12 months) of all dividend paying stocks

1.8%

26 Weeks Ago	Market Low 3-23-20	Market High 7-26-21
1.9%	3.7%	1.8%

The Median Estimated **THREE-TO-FIVE YEAR PRICE APPRECIATION POTENTIAL** of all 1700 stocks in the VL Universe

35%

26 Weeks Ago	Market Low 3-23-20	Market High 7-26-21
30%	145%	35%

The Median Estimated **18-MONTH APPRECIATION POTENTIAL TO TARGET PRICE RANGE** of all 1700 stocks in the VL Universe

11%

26 Weeks Ago	Market Low 3-23-20	Market High 7-26-21
3%	72%	13%

ANALYSES OF INDUSTRIES IN ALPHABETICAL ORDER WITH PAGE NUMBER

Numeral in parenthesis after the industry is rank for probable performance (next 12 months).

	PAGE		PAGE		PAGE		PAGE
Advertising (35)	2381	Electrical Equipment (44)	1301	Investment Banking (3)	1801	*Railroad (13)	338
Aerospace/Defense (25)	701	Electric Util. (Central) (89)	901	Investment Co. (--)	1197	R.E.I.T. (86)	1510
*Air Transport (41)	301	Electric Utility (East) (76)	133	*Investment Co.(Foreign) (--)	418	Recreation (39)	2301
Apparel (75)	2101	Electric Utility (West) (91)	2205	Machinery (31)	1701	Reinsurance (83)	2016
Asset Management (53)	2217	Electronics (50)	1318	*Maritime (90)	331	*Restaurant (51)	349
Automotive (56)	101	Engineering & Const (46)	1017	Medical Services (12)	789	Retail Automotive (16)	2117
Auto Parts (59)	961	Entertainment (6)	2329	Med Supp Invasive (42)	164	Retail Building Supply (36)	1136
Bank (10)	2501	Entertainment Tech (15)	2007	Med Supp Non-Invasive (52)	196	Retail (Hardlines) (26)	2165
Bank (Midwest) (80)	773	*Environmental (57)	408	Metal Fabricating (93)	726	Retail (Softlines) (70)	2188
Beverage (61)	1965	Financial Svcs. (Div.) (11)	2534	Metals & Mining (Div.) (66)	1582	Retail Store (21)	2134
Biotechnology (37)	830	Food Processing (85)	1901	Natural Gas Utility (94)	540	Retail/Wholesale Food (78)	1945
Brokers & Exchanges (14)	1791	Foreign Electronics (32)	1982	Natural Gas (Div.) (47)	522	Semiconductor (7)	1344
Building Materials (23)	1101	Furn/Home Furnishings (45)	1145	Office Equip/Supplies (81)	1404	Semiconductor Equip (30)	1377
Cable TV (8)	1000	Healthcare Information (73)	819	Oil/Gas Distribution (69)	602	Shoe (24)	2155
Cannabis (67)	1411	Heavy Truck & Equip (74)	145	Oilfield Svcs/Equip. (92)	2406	Steel (64)	736
Chemical (Basic) (27)	1599	Homebuilding (48)	1124	Packaging & Container (29)	1169	Telecom. Equipment (54)	937
Chemical (Diversified) (55)	2423	Hotel/Gaming (5)	2351	Paper/Forest Products (72)	1160	Telecom. Services (88)	916
Chemical (Specialty) (60)	551	Household Products (68)	1185	Petroleum (Integrated) (79)	501	Telecom. Utility (97)	1011
Computers/Peripherals (38)	1391	Human Resources (71)	1639	Petroleum (Producing) (82)	2390	Thrift (84)	1501
Computer Software (4)	2574	*Industrial Services (43)	374	Pipeline MLPs (95)	615	Tobacco (96)	1990
Cyber Security (9)	2027	*Information Services (34)	431	Power (58)	1208	Toiletries/Cosmetics (33)	990
Diversified Co. (49)	1743	IT Services (18)	2605	Precious Metals (87)	1565	*Trucking (65)	317
Drug (22)	1609	Insurance (Life) (77)	1553	Precision Instrument (20)	111	Water Utility (63)	1783
E-Commerce (2)	1808	Insurance (Prop/Cas.) (19)	751	Public/Private Equity (17)	2434	Wireless Networking (40)	585
Educational Services (62)	1997	Internet (1)	2629	Publishing (28)	2373		

*Reviewed in this week's issue.

In three parts: This is Part 1, the Summary & Index. Part 2 is Selection & Opinion. Part 3 is Ratings & Reports. Volume LXXVII, No. 2.
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THE VALUE LINE® Investment Survey®

Part 1 Summary & Index

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August 13, 2021

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Highest Growth Stocks 39

The Median of Estimated **PRICE-EARNINGS RATIOS** of all stocks with earnings

19.2

26 Weeks Ago	Market Low 3-23-20	Market High 7-26-21
20.5	11.0	19.4

The Median of Estimated **DIVIDEND YIELDS** (next 12 months) of all dividend paying stocks

1.8%

26 Weeks Ago	Market Low 3-23-20	Market High 7-26-21
2.0%	3.7%	1.8%

The Median Estimated **THREE-TO-FIVE YEAR PRICE APPRECIATION POTENTIAL** of all 1700 stocks in the VL Universe

35%

26 Weeks Ago	Market Low 3-23-20	Market High 7-26-21
35%	145%	35%

The Median Estimated **18-MONTH APPRECIATION POTENTIAL TO TARGET PRICE RANGE** of all 1700 stocks in the VL Universe

12%

26 Weeks Ago	Market Low 3-23-20	Market High 7-26-21
9%	72%	13%

ANALYSES OF INDUSTRIES IN ALPHABETICAL ORDER WITH PAGE NUMBER

Numeral in parenthesis after the industry is rank for probable performance (next 12 months).

	PAGE
Advertising (34)	2381
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Asset Management (65)	2217
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Beverage (60)	1965
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Building Materials (23)	1101
Cable TV (8)	1000
Cannabis (85)	1411
Chemical (Basic) (29)	1599
Chemical (Diversified) (55)	2423
Chemical (Specialty) (63)	551
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Diversified Co. (54)	1743
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Electric Util. (Central) (87)	901
*Electric Utility (East) (72)	133
Electric Utility (West) (80)	2205
Electronics (59)	1318
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Trucking (47)	317
Water Utility (62)	1783
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*Reviewed in this week's issue.

In three parts: This is Part 1, the Summary & Index. Part 2 is Selection & Opinion. Part 3 is Ratings & Reports. Volume LXXVII, No. 1.

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THE VALUE LINE® Investment Survey®

Part 1 Summary & Index

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August 6, 2021

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Highest Growth Stocks 39

The Median of Estimated **PRICE-EARNINGS RATIOS** of all stocks with earnings

19.4

26 Weeks Ago	Market Low 3-23-20	Market High 7-12-21
21.7	11.0	19.8

The Median of Estimated **DIVIDEND YIELDS** (next 12 months) of all dividend paying stocks

1.8%

26 Weeks Ago	Market Low 3-23-20	Market High 7-12-21
1.9%	3.7%	1.8%

The Median Estimated **THREE-TO-FIVE YEAR PRICE APPRECIATION POTENTIAL** of all 1700 stocks in the VL Universe

35%

26 Weeks Ago	Market Low 3-23-20	Market High 7-12-21
25%	145%	30%

The Median Estimated **18-MONTH APPRECIATION POTENTIAL TO TARGET PRICE RANGE** of all 1700 stocks in the VL Universe

13%

26 Weeks Ago	Market Low 3-23-20	Market High 7-12-21
6%	72%	12%

ANALYSES OF INDUSTRIES IN ALPHABETICAL ORDER WITH PAGE NUMBER

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*Reviewed in this week's issue.

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THE VALUE LINE® Investment Survey®

Part 1 Summary & Index

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July 30, 2021

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The Median of Estimated **PRICE-EARNINGS RATIOS** of all stocks with earnings

19.0

26 Weeks Ago	Market Low 3-23-20	Market High 7-12-21
21.6	11.0	19.8

The Median of Estimated **DIVIDEND YIELDS** (next 12 months) of all dividend paying stocks

1.9%

26 Weeks Ago	Market Low 3-23-20	Market High 7-12-21
1.9%	3.7%	1.8%

The Median Estimated **THREE-TO-FIVE YEAR PRICE APPRECIATION POTENTIAL** of all 1700 stocks in the VL Universe

40%

26 Weeks Ago	Market Low 3-23-20	Market High 7-12-21
25%	145%	30%

The Median Estimated **18-MONTH APPRECIATION POTENTIAL TO TARGET PRICE RANGE** of all 1700 stocks in the VL Universe

16%

26 Weeks Ago	Market Low 3-23-20	Market High 7-12-21
6%	72%	12%

ANALYSES OF INDUSTRIES IN ALPHABETICAL ORDER WITH PAGE NUMBER

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Metals & Mining (Div.) (66)	1582
Natural Gas Utility (90)	540
Natural Gas (Div.) (62)	522
Office Equip/Supplies (82)	1404
Oil/Gas Distribution (73)	602
*Oilfield Svcs/Equip. (96)	2406
Packaging & Container (22)	1169
Paper/Forest Products (83)	1160
Petroleum (Integrated) (78)	501
*Petroleum (Producing) (88)	2390
Pipeline MLPs (95)	615
Power (58)	1208
Precious Metals (91)	1565
Precision Instrument (27)	111
*Public/Private Equity (16)	2434
*Publishing (43)	2373
Railroad (14)	338
R.E.I.T. (81)	1510
*Recreation (35)	2301
Reinsurance (84)	2016
Restaurant (54)	349
Retail Automotive (18)	2117
Retail Building Supply (45)	1136
Retail (Hardlines) (21)	2165
Retail (Softlines) (68)	2188
Retail Store (20)	2134
Retail/Wholesale Food (77)	1945
Semiconductor (8)	1344
Semiconductor Equip (30)	1377
Shoe (33)	2155
Steel (71)	736
Telecom. Equipment (46)	937
Telecom. Services (89)	916
Telecom. Utility (97)	1011
Thrift (76)	1501
Tobacco (94)	1990
Toiletries/Cosmetics (44)	990
Trucking (63)	317
Water Utility (49)	1783
Wireless Networking (36)	585

*Reviewed in this week's issue.

In three parts: This is Part 1, the Summary & Index. Part 2 is Selection & Opinion. Part 3 is Ratings & Reports. Volume LXXVI, No. 51.

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THE VALUE LINE Investment Survey®

Part 1 Summary & Index

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July 23, 2021

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Highest Growth Stocks 39

The Median of Estimated **PRICE-EARNINGS RATIOS** of all stocks with earnings

19.8

26 Weeks Ago	Market Low 3-23-20	Market High 6-14-21
21.7	11.0	21.1

The Median of Estimated **DIVIDEND YIELDS** (next 12 months) of all dividend paying stocks

1.8%

26 Weeks Ago	Market Low 3-23-20	Market High 6-14-21
1.9%	3.7%	1.7%

The Median Estimated **THREE-TO-FIVE YEAR PRICE APPRECIATION POTENTIAL** of all 1700 stocks in the VL Universe

30%

26 Weeks Ago	Market Low 3-23-20	Market High 6-14-21
25%	145%	30%

The Median Estimated **18-MONTH APPRECIATION POTENTIAL TO TARGET PRICE RANGE** of all 1700 stocks in the VL Universe

12%

26 Weeks Ago	Market Low 3-23-20	Market High 6-14-21
6%	72%	7%

ANALYSES OF INDUSTRIES IN ALPHABETICAL ORDER WITH PAGE NUMBER

Numeral in parenthesis after the industry is rank for probable performance (next 12 months).

	PAGE		PAGE		PAGE		PAGE
Advertising (41)	2386	Electrical Equipment (50)	1301	Investment Banking (13)	1801	Railroad (14)	338
Aerospace/Defense (20)	701	Electric Util. (Central) (81)	901	Investment Co. (--)	1197	R.E.I.T. (87)	1510
Air Transport (33)	301	Electric Utility (East) (72)	133	Investment Co.(Foreign) (--)	418	Recreation (37)	2301
*Apparel (76)	2101	*Electric Utility (West) (64)	2205	Machinery (29)	1701	Reinsurance (74)	2016
*Asset Management (71)	2217	Electronics (59)	1318	Maritime (93)	331	Restaurant (54)	349
Automotive (57)	101	Engineering & Const (44)	1017	Medical Services (10)	789	*Retail Automotive (18)	2117
Auto Parts (58)	961	Entertainment (4)	2329	Med Supp Invasive (40)	168	Retail Building Supply (46)	1136
Bank (11)	2501	Entertainment Tech (16)	2007	Med Supp Non-Invasive (52)	200	*Retail (Hardlines) (22)	2165
Bank (Midwest) (80)	773	Environmental (48)	408	Metal Fabricating (92)	726	*Retail (Softlines) (67)	2188
Beverage (51)	1965	Financial Svcs. (Div.) (12)	2534	Metals & Mining (Div.) (65)	1582	*Retail Store (21)	2134
Biotechnology (35)	830	Food Processing (75)	1901	Natural Gas Utility (89)	540	Retail/Wholesale Food (78)	1945
Brokers & Exchanges (8)	1791	Foreign Electronics (31)	1982	Natural Gas (Div.) (63)	522	Semiconductor (7)	1344
Building Materials (28)	1101	Furn/Home Furnishings (38)	1145	Office Equip/Supplies (83)	1404	Semiconductor Equip (24)	1377
Cable TV (9)	1000	Healthcare Information (85)	819	Oil/Gas Distribution (73)	602	*Shoe (34)	2155
Cannabis (86)	1411	Heavy Truck & Equip (70)	145	Oilfield Svcs/Equip. (96)	2411	Steel (69)	736
Chemical (Basic) (30)	1599	Homebuilding (47)	1124	Packaging & Container (23)	1169	Telecom. Equipment (49)	937
Chemical (Diversified) (55)	2429	Hotel/Gaming (5)	2352	Paper/Forest Products (84)	1160	Telecom. Services (91)	916
Chemical (Specialty) (62)	551	Household Products (36)	1185	Petroleum (Integrated) (79)	501	Telecom. Utility (97)	1011
Computers/Peripherals (42)	1391	Human Resources (82)	1639	Petroleum (Producing) (88)	2395	Thrift (77)	1501
Computer Software (3)	2574	Industrial Services (43)	374	Pipeline MLPs (95)	615	Tobacco (94)	1990
Cyber Security (6)	2027	Information Services (15)	431	Power (56)	1208	Toiletries/Cosmetics (45)	990
Diversified Co. (60)	1743	IT Services (25)	2605	Precious Metals (90)	1565	Trucking (53)	317
Drug (27)	1609	Insurance (Life) (68)	1553	Precision Instrument (26)	111	Water Utility (32)	1783
E-Commerce (2)	1808	Insurance (Prop/Cas.) (19)	751	Public/Private Equity (17)	2440	Wireless Networking (39)	585
Educational Services (66)	1997	Internet (1)	2629	Publishing (61)	2377		

*Reviewed in this week's issue.

In three parts: This is Part 1, the Summary & Index. Part 2 is Selection & Opinion. Part 3 is Ratings & Reports. Volume LXXVI, No. 50.
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Part 1 Summary & Index

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Untimely Stocks (5 for Performance) 38
Highest Dividend Yielding Non-utility Stocks 38
Highest Growth Stocks 39

The Median of Estimated **PRICE-EARNINGS RATIOS** of all stocks with earnings

20.3

26 Weeks Ago	Market Low 3-23-20	Market High 6-14-21
21.1	11.0	21.1

The Median of Estimated **DIVIDEND YIELDS** (next 12 months) of all dividend paying stocks

1.7%

26 Weeks Ago	Market Low 3-23-20	Market High 6-14-21
2.0%	3.7%	1.7%

The Median Estimated **THREE-TO-FIVE YEAR PRICE APPRECIATION POTENTIAL** of all 1700 stocks in the VL Universe

30%

26 Weeks Ago	Market Low 3-23-20	Market High 6-14-21
30%	145%	30%

The Median Estimated **18-MONTH APPRECIATION POTENTIAL TO TARGET PRICE RANGE** of all 1700 stocks in the VL Universe

12%

26 Weeks Ago	Market Low 3-23-20	Market High 6-14-21
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Numeral in parenthesis after the industry is rank for probable performance (next 12 months).

	PAGE
Advertising (39)	2386
Aerospace/Defense (20)	701
Air Transport (34)	301
Apparel (82)	2101
Asset Management (67)	2221
Automotive (56)	101
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Bank (11)	2501
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Cable TV (9)	1000
Cannabis (91)	1411
Chemical (Basic) (29)	1599
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Shoe (24)	2155
Steel (70)	736
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Telecom. Services (90)	916
Telecom. Utility (97)	1011
Thrift (78)	1501
*Tobacco (94)	1990
Toiletries/Cosmetics (62)	990
Trucking (52)	317
Water Utility (32)	1783
Wireless Networking (38)	585

*Reviewed in this week's issue.

In three parts: This is Part 1, the Summary & Index. Part 2 is Selection & Opinion. Part 3 is Ratings & Reports. Volume LXXVI, No. 49.

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Part 1 Summary & Index

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July 9, 2021

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The Median of Estimated **PRICE-EARNINGS RATIOS** of all stocks with earnings

20.5

26 Weeks Ago	Market Low 3-23-20	Market High 6-14-21
21.3	11.0	21.1

The Median of Estimated **DIVIDEND YIELDS** (next 12 months) of all dividend paying stocks

1.7%

26 Weeks Ago	Market Low 3-23-20	Market High 6-14-21
2.0%	3.7%	1.7%

The Median Estimated **THREE-TO-FIVE YEAR PRICE APPRECIATION POTENTIAL** of all 1700 stocks in the VL Universe

30%

26 Weeks Ago	Market Low 3-23-20	Market High 6-14-21
30%	145%	30%

The Median Estimated **18-MONTH APPRECIATION POTENTIAL TO TARGET PRICE RANGE** of all 1700 stocks in the VL Universe

11%

26 Weeks Ago	Market Low 3-23-20	Market High 6-14-21
7%	72%	7%

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Cable TV (8)	1000
Cannabis (91)	1411
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Part 1 Summary & Index

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The Median of Estimated **PRICE-EARNINGS RATIOS** of all stocks with earnings

20.4

26 Weeks Ago	Market Low 3-23-20	Market High 6-14-21
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The Median of Estimated **DIVIDEND YIELDS** (next 12 months) of all dividend paying stocks

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The Median Estimated **THREE-TO-FIVE YEAR PRICE APPRECIATION POTENTIAL** of all 1700 stocks in the VL Universe

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26 Weeks Ago	Market Low 3-23-20	Market High 6-14-21
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The Median Estimated **18-MONTH APPRECIATION POTENTIAL TO TARGET PRICE RANGE** of all 1700 stocks in the VL Universe

11%

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Chemical (Specialty) (61)	551	Household Products (20)	1185	Petroleum (Integrated) (81)	501	Telecom. Utility (97)	1011
Computers/Peripherals (55)	1391	*Human Resources (82)	1639	Petroleum (Producing) (86)	2395	*Thrift (79)	1501
Computer Software (3)	2574	Industrial Services (40)	374	Pipeline MLPs (93)	615	Tobacco (92)	1990
Cyber Security (6)	2029	Information Services (17)	431	Power (59)	1208	Toiletries/Cosmetics (43)	990
Diversified Co. (56)	1744	IT Services (23)	2605	*Precious Metals (90)	1565	Trucking (44)	317
*Drug (31)	1609	*Insurance (Life) (70)	1553	Precision Instrument (26)	111	Water Utility (30)	1788
E-Commerce (2)	1815	Insurance (Prop/Cas.) (21)	751	Public/Private Equity (19)	2440	Wireless Networking (36)	585
Educational Services (62)	1997	Internet (1)	2629	Publishing (63)	2377		

*Reviewed in this week's issue.

In three parts: This is Part 1, the Summary & Index. Part 2 is Selection & Opinion. Part 3 is Ratings & Reports. Volume LXXVI, No. 47.

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Part 1 Summary & Index

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June 25, 2021

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High Returns Earned on Total Capital 37
Bargain Basement Stocks 37
Untimely Stocks (5 for Performance) 38
Highest Dividend Yielding Non-utility Stocks 38
Highest Growth Stocks 39

The Median of Estimated **PRICE-EARNINGS RATIOS** of all stocks with earnings

21.1

26 Weeks Ago	Market Low 3-23-20	Market High 5-7-21
21.1	11.0	21.6

The Median of Estimated **DIVIDEND YIELDS** (next 12 months) of all dividend paying stocks

1.7%

26 Weeks Ago	Market Low 3-23-20	Market High 5-7-21
2.0%	3.7%	1.7%

The Median Estimated **THREE-TO-FIVE YEAR PRICE APPRECIATION POTENTIAL** of all 1700 stocks in the VL Universe

30%

26 Weeks Ago	Market Low 3-23-20	Market High 5-7-21
35%	145%	25%

The Median Estimated **18-MONTH APPRECIATION POTENTIAL TO TARGET PRICE RANGE** of all 1700 stocks in the VL Universe

7%

26 Weeks Ago	Market Low 3-23-20	Market High 5-7-21
5%	72%	6%

ANALYSES OF INDUSTRIES IN ALPHABETICAL ORDER WITH PAGE NUMBER

Numeral in parenthesis after the industry is rank for probable performance (next 12 months).

	PAGE
Advertising (38)	2386
Aerospace/Defense (23)	701
Air Transport (30)	301
Apparel (85)	2101
Asset Management (74)	2221
Automotive (39)	101
Auto Parts (59)	961
Bank (11)	2501
Bank (Midwest) (71)	773
Beverage (55)	1965
Biotechnology (32)	830
Brokers & Exchanges (16)	1797
Building Materials (22)	1101
Cable TV (9)	1000
*Cannabis (91)	1411
Chemical (Basic) (26)	1597
Chemical (Diversified) (64)	2429
Chemical (Specialty) (60)	551
*Computers/Peripherals (41)	1391
Computer Software (3)	2574
Cyber Security (7)	2029
Diversified Co. (56)	1744
Drug (28)	1607
E-Commerce (2)	1815
Educational Services (61)	1997
*Electrical Equipment (54)	1301
Electric Util. (Central) (72)	901
Electric Utility (East) (57)	133
Electric Utility (West) (65)	2209
*Electronics (37)	1318
Engineering & Const (44)	1017
Entertainment (4)	2329
Entertainment Tech (8)	2007
Environmental (49)	408
Financial Svcs. (Div.) (14)	2534
Food Processing (78)	1901
Foreign Electronics (42)	1982
Furn/Home Furnishings (69)	1145
Healthcare Information (87)	819
Heavy Truck & Equip (77)	145
Homebuilding (48)	1124
Hotel/Gaming (5)	2352
Household Products (13)	1185
Human Resources (83)	1636
Industrial Services (43)	374
Information Services (17)	431
IT Services (29)	2605
Insurance (Life) (66)	1554
Insurance (Prop/Cas.) (20)	751
Internet (1)	2629
Investment Banking (40)	1807
Investment Co. (--)	1197
Investment Co.(Foreign) (--)	418
Machinery (25)	1701
Maritime (94)	331
Medical Services (10)	789
Med Supp Invasive (35)	168
Med Supp Non-Invasive (51)	200
Metal Fabricating (95)	726
Metals & Mining (Div.) (70)	1581
Natural Gas Utility (88)	540
Natural Gas (Div.) (67)	522
*Office Equip/Supplies (86)	1404
Oil/Gas Distribution (76)	602
Oilfield Svcs/Equip. (96)	2411
Packaging & Container (34)	1169
Paper/Forest Products (73)	1160
Petroleum (Integrated) (82)	501
Petroleum (Producing) (79)	2395
Pipeline MLPs (93)	615
Power (50)	1208
Precious Metals (89)	1565
Precision Instrument (21)	111
Public/Private Equity (19)	2440
Publishing (62)	2377
Railroad (15)	338
R.E.I.T. (90)	1510
Recreation (52)	2301
Reinsurance (68)	2018
Restaurant (53)	349
Retail Automotive (18)	2117
Retail Building Supply (47)	1136
Retail (Hardlines) (33)	2165
Retail (Softlines) (63)	2190
Retail Store (24)	2134
Retail/Wholesale Food (81)	1944
*Semiconductor (6)	1344
*Semiconductor Equip (12)	1377
Shoe (31)	2155
Steel (75)	736
Telecom. Equipment (58)	937
Telecom. Services (84)	916
Telecom. Utility (97)	1011
Thrift (80)	1501
Tobacco (92)	1990
Toiletries/Cosmetics (45)	990
Trucking (46)	317
Water Utility (27)	1788
Wireless Networking (36)	585

*Reviewed in this week's issue.

In three parts: This is Part 1, the Summary & Index. Part 2 is Selection & Opinion. Part 3 is Ratings & Reports. Volume LXXVI, No. 46.

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Part 1 Summary & Index

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June 18, 2021

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Highest Growth Stocks 39

The Median of Estimated **PRICE-EARNINGS RATIOS** of all stocks with earnings

21.3

26 Weeks Ago	Market Low 3-23-20	Market High 5-7-21
21.4	11.0	21.6

The Median of Estimated **DIVIDEND YIELDS** (next 12 months) of all dividend paying stocks

1.7%

26 Weeks Ago	Market Low 3-23-20	Market High 5-7-21
2.0%	3.7%	1.7%

The Median Estimated **THREE-TO-FIVE YEAR PRICE APPRECIATION POTENTIAL** of all 1700 stocks in the VL Universe

25%

26 Weeks Ago	Market Low 3-23-20	Market High 5-7-21
30%	145%	25%

The Median Estimated **18-MONTH APPRECIATION POTENTIAL TO TARGET PRICE RANGE** of all 1700 stocks in the VL Universe

7%

26 Weeks Ago	Market Low 3-23-20	Market High 5-7-21
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Part 1 Summary & Index

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June 11, 2021

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CRSP Deciles Size Premia as of December 31, 2020

	Market Capitalization of Smallest Company (in USD millions)	Market Capitalization of Largest Company (in USD millions)	Size Premium (Return in Excess of CAPM)
Decile			
Mid Cap	2,445.693	13,177.828	0.78%
Low Cap	451.955	2,444.745	1.43%
Micro Cap	2.194	451.80	3.21%
Breakdown of CRSP Deciles 1 - 10			
1	29,025.803	1,966,078.882	-0.22%
2	13,178.743	28,808.073	0.49%
3	6,743.361	13,177.828	0.71%
4	3,861.858	6,710.676	0.75%
5	2,445.693	3,836.536	1.09%
6	1,591.865	2,444.745	1.37%
7	911.586	1,591.765	1.54%
8	451.955	911.103	1.46%
9	190.019	451.80	2.29%
10	2.194	189.831	5.01%
Breakdown of CRSP 10th Decile			
10A	96.55	189.831	3.49%
10W	138.833	189.831	2.6%
10X	96.55	137.883	4.65%
10B	2.194	95.182	8.12%
10Y	46.901	95.182	6.6%
10Z	2.194	46.887	11.29%

Source: Duff & Phelps Cost of Capital Navigator (dpcostofcapital.com)

ABBOTT LABS. NYSE-ABT

RECENT PRICE 120.92 | P/E RATIO 29.3 (Trailing: 24.6 Median: 19.0) | RELATIVE P/E RATIO 1.53 | DIV'D YLD 1.5% | VALUE LINE

TIMELINESS 3 Lowered 1/15/21
SAFETY 1 New 4/12/13
TECHNICAL 5 Lowered 7/30/21
BETA .90 (1.00 = Market)

18-Month Target Price Range
Low-High **Midpoint (% to Mid)**
$91-$208 $150 (25%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	165	(+35%)	*10%*
Low	135	(+10%)	*5%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	1008	1140	1075
to Sell	983	957	1076
Hld's(000)	1291873	1287717	1303297

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
High:	56.8	56.4	72.5	38.8	46.5	51.7	45.8	57.8	74.9	89.2	115.1	128.5								
Low:	44.6	45.1	54.0	31.6	35.7	39.0	36.0	38.3	55.6	65.5	61.6	105.4								
	14.51	14.62	16.72	19.40	19.82	22.73	24.74	25.29	14.11	14.80	13.86	14.16	15.71	17.42	18.10	19.54	*22.25*	*22.25*	Sales per sh	*26.65*
	3.42	3.51	4.05	4.32	5.09	5.90	6.61	6.91	3.17	3.35	3.21	3.15	4.26	4.79	5.01	5.58	*6.30*	*6.70*	"Cash Flow" per sh	*8.65*
	2.50	2.52	2.84	3.03	3.72	4.17	4.66	4.99	2.01	2.28	2.15	2.20	2.50	2.88	3.24	3.65	*4.40*	*4.70*	Earnings per sh A	*6.30*
	1.10	1.18	1.30	1.44	1.60	1.76	1.88	2.01	.56	.88	.96	1.04	1.06	1.12	1.28	1.44	*1.80*	*1.96*	Div'ds Decl'd per sh B■	*2.44*
	.78	.87	1.07	.85	.70	.66	.95	1.14	.74	.71	.75	.76	.65	.79	.93	1.23	*1.20*	*1.20*	Cap'l Spending per sh	*1.25*
	9.37	9.14	11.47	11.48	14.73	14.47	15.56	16.95	16.26	14.27	14.40	13.94	17.72	17.39	17.64	18.51	*19.10*	*20.45*	Book Value per sh C	*25.55*
	1539.2	1537.2	1549.9	1522.4	1551.9	1547.0	1570.4	1576.7	1548.1	1508.0	1472.7	1472.9	1743.6	1755.6	1762.5	1771.2	*1780.0*	*1785.0*	Common Shs Outst'g D	*1800.0*
	18.1	17.9	19.2	18.3	13.0	12.2	11.0	12.6	17.8	18.0	21.5	18.4	19.4	22.3	24.9	26.3	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*24.0*
	.96	.97	1.02	1.10	.87	.78	.69	.80	1.00	.95	1.08	.97	.98	1.20	1.33	1.35			Relative P/E Ratio	*1.35*
	2.4%	2.6%	2.4%	2.6%	3.3%	3.5%	3.7%	3.2%	1.6%	2.1%	2.1%	2.6%	2.2%	1.7%	1.6%	1.5%			Avg Ann'l Div'd Yield	*1.6%*
	38851	39874	21848	22324	20405	20853	27390	30578	31904	34608	*39600*	*39700*	Sales ($mill)	*48000*
	31.2%	35.4%	26.3%	26.4%	17.0%	17.9%	13.5%	19.1%	20.3%	21.6%	*22.5%*	*23.5%*	Operating Margin	*25.5%*
	3043.9	2783.2	1719.0	1548.0	1472.0	1353.0	3021.0	3278.0	3014.0	3327.0	*3400*	*3600*	Depreciation ($mill)	*4200*
	7330.4	8119.0	3189.0	3503.0	3258.0	3281.0	4400.0	5131.0	5810.0	6552.0	*7830*	*8390*	Net Profit ($mill)	*11340*
	15.1%	14.8%	19.0%	17.9%	15.0%	9.6%	29.9%	14.1%	14.0%	15.0%	*15.0%*	*15.0%*	Income Tax Rate	*15.0%*
	18.9%	20.4%	14.6%	15.7%	16.0%	15.7%	16.1%	16.8%	18.2%	18.9%	*19.8%*	*21.1%*	Net Profit Margin	*23.6%*
	8288.6	18042	9740.0	4729.0	4969.0	20116	11235	5620.0	4804.0	8534.0	*7000*	*7100*	Working Cap'l ($mill)	*7500*
	12040	18085	3388.0	3408.0	5871.0	20681	27210	19359	16661	18527	*17000*	*17000*	Long-Term Debt ($mill)	*17000*
	24440	26721	25171	21526	21211	20538	30897	30524	31088	32784	*34000*	*36500*	Shr. Equity ($mill)	*46000*
	20.6%	18.6%	11.3%	14.2%	12.1%	8.4%	8.2%	11.0%	12.8%	13.3%	*16.0%*	*16.0%*	Return on Total Cap'l	*18.5%*
	30.0%	30.4%	12.7%	16.3%	15.4%	16.0%	14.2%	16.8%	18.7%	20.0%	*20.0%*	*23.0%*	Return on Shr. Equity	*24.5%*
	18.0%	18.5%	9.2%	10.0%	8.6%	8.5%	8.3%	10.3%	11.4%	12.2%	*13.5%*	*13.5%*	Retained to Com Eq	*15.0%*
	40%	39%	28%	38%	44%	47%	42%	38%	39%	39%	*41%*	*42%*	All Div'ds to Net Prof	*39%*

Target Price Range 2024 2025 2026

% TOT. RETURN 7/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	22.0	55.5
3 yr.	92.8	48.6
5 yr.	194.8	95.5

CAPITAL STRUCTURE as of 3/31/21
Total Debt $18.5 bill. **Due in 5 Yrs** $6.0 bill.
LT Debt $17.5 bill. **LT Interest** $.6 bill.
(34% of Capital)

Leases, Uncapitalized Annual rentals $272 mill.

Pension Assets-12/20 $12.0 bill. **Oblig.** $13.1 bill.

Preferred Stock None

Common Stock 1,776,820,148 shares

MARKET CAP: $215 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	3860	6838	8054
Receivables	5425	6414	6096
Inventory (FIFO)	4316	5012	5387
Other	2066	2177	2280
Current Assets	15667	20441	21817
Accts Payable	3252	3946	4066
Debt Due	1478	220	955
Other	6133	7741	7441
Current Liab.	10863	11907	12462

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	-1.0%	5.0%	*6.5%*
"Cash Flow"	- -	9.5%	*9.0%*
Earnings	-1.0%	8.5%	*11.5%*
Dividends	-2.0%	10.0%	*11.5%*
Book Value	3.0%	3.5%	*6.0%*

Calendar	QUARTERLY SALES ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	7390	7767	7656	7765	30578
2019	7535	7979	8076	8314	31904
2020	7726	7328	8853	10701	34608
2021	10456	10223	*9400*	*9521*	*39600*
2022	*9400*	*9800*	*10100*	*10400*	*39700*

Calendar	EARNINGS PER SHARE A Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.59	.73	.75	.81	2.88
2019	.63	.82	.84	.95	3.24
2020	.65	.57	.98	1.45	3.65
2021	1.32	1.17	*.95*	*.96*	*4.40*
2022	*1.05*	*1.18*	*1.20*	*1.27*	*4.70*

Calendar	QUARTERLY DIVIDENDS PAID B■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.265	.265	.265	.265	1.06
2018	.28	.28	.28	.28	1.12
2019	.32	.32	.32	.32	1.28
2020	.36	.36	.36	.36	1.44
2021	.45	.45	.45		

BUSINESS: Abbott Laboratories discovers, develops, manufactures, and sells health care products worldwide. The company has four reportable segments: Medical Devices (34% of 2020 sales); Diagnostic Products (31%); Nutritional Products (22%); and Established Pharmaceutical Products (13%). Completed separation of branded pharmaceuticals business AbbVie (1/13). Completed sale of Abbott Medical Optics (2/17). Acquired St. Jude (1/17) and Alere (10/17). Has about 109,000 employees. Officers and directors own less than 1% of common stock; Vanguard Group, 8.3%; BlackRock, 7.5% (3/21 proxy). Chairman: Miles D. White. President and CEO: Robert B. Ford. Inc.: IL. Addr.: 100 Abbott Park Road, Abbott Park, IL 60064. Tel.: 847-937-6100. Internet: www.abbott.com.

Abbott Laboratories posted weaker-than-expected second-quarter results. The healthcare giant reported adjusted earnings of $1.17 a share on sales of $10.2 billion, versus $0.57 on $7.3 billion in the comparable year-ago period. Performance was driven by strong momentum in the Diagnostics business (sales +63%), which continued to benefit from surging demand for COVID-19-related testing products, while the ongoing recovery from the pandemic also lent support to double-digit growth in Medical Devices (+51%), Established Pharmaceuticals (+16%), and Nutrition (+12%). Despite the impressive gains, the second-quarter results fell short of our previous estimates on earnings and sales, though management did provide a bit of warning in an early-June press release.

We have tempered our profit expectations for this year and next. In the month prior to the Q2 earnings report, the company acknowledged that COVID-19 testing demand had weakened significantly across most of its major markets. This was due to a combination of reduced cases, an accelerated vaccine rollout, and new testing guidance for fully vaccinated individuals. As a result, management lowered its full-year adjusted earnings forecast from $5.00 a share, to a range of $4.30-$4.50, reflecting softer projected sales within its Diagnostics business. At this time, it is uncertain how/if the recent surge in new variant COVID-19 cases will impact this guidance. Altogether, we have lowered our 2021 adjusted earnings call to $4.40 a share (previously $5.10) and our 2022 estimate to $4.70 (previously $5.40).

Long-term fundamentals are largely in tact. Abbott maintains leadership positions across several lucrative markets within the healthcare space, and seems well positioned to benefit from favorable demographic trends over the next decade. We are particularly encouraged with growth potential in the Medical Devices business, where the company continues to gain traction in the areas of diabetes care, neuromodulation, and structural heart.

The stock maintains an Average (3) rank for Timeliness. At recent price levels, our projections suggest solid risk-adjusted return potential over the 18-month and 2024-2026 time frames.

Michael Ratty *August 13, 2021*

(A) Diluted earnings. Excludes nonrecurring gain/ (losses): '05, (34¢); '06, ($1.40); '07, (53¢); '08, 19¢; '10, ($1.21); '11, ($1.65); '12, ($1.27); '13, (39¢); '14, (79¢); '15, 77¢; '16, ($1.26); '17, ($2.23); '18, ($1.55); '19, ($1.18); '20, ($1.15). Next egs. report due late Oct. **(B)** Dividends historically paid in February, May, August, and November. ■ Dividend reinvestment plan available. **(C)** Includes intangibles. In '20: $38.5 billion, $21.75 a share. **(D)** In millions. **(E)** Data post-2012 reflect the spinoff of the pharmaceuticals operation (AbbVie).

Company's Financial Strength	A++
Stock's Price Stability	90
Price Growth Persistence	80
Earnings Predictability	90

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ANALOG DEVICES NDQ-ADI

RECENT PRICE 168.44 | P/E RATIO 26.1 (Trailing: 29.1 Median: 19.0) | RELATIVE P/E RATIO 1.24 | DIV'D YLD 1.6% | VALUE LINE

TIMELINESS 2 Lowered 5/28/21
SAFETY 1 Raised 12/25/20
TECHNICAL 4 Lowered 6/25/21
BETA .95 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$121-$222 $172 (0%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	175	(+5%)	4%
Low	140	(-15%)	-2%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	519	554	547
to Sell	382	392	440
Hld's(000)	340254	349449	354952

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
High:	38.6	43.3	42.7	51.2	58.0	69.0	74.9	94.0	103.6	120.5	147.8	168.4						
Low:	26.3	29.2	34.3	41.7	42.6	50.6	47.2	71.0	76.6	80.5	79.1	142.3						

LEGENDS
16.0 x "Cash Flow" p sh
Relative Price Strength
Options: Yes
Shaded area indicates recession

Target Price Range 2024 2025 2026

% TOT. RETURN 5/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	48.4	68.0
3 yr.	80.7	54.6
5 yr.	212.2	106.2

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
	6.51	7.52	8.28	8.87	6.90	9.25	10.05	8.96	8.47	9.21	11.01	11.10	13.86	16.75	16.27	15.16	*18.05*	*19.30*	Sales per sh [A]	*24.30*
	1.76	2.06	2.07	2.33	1.46	2.79	3.21	2.53	2.52	2.82	3.62	3.55	5.11	6.66	5.85	5.57	*6.95*	*7.60*	"Cash Flow" per sh	*9.55*
	1.27	1.43	1.43	1.77	.97	2.33	2.72	2.13	2.14	2.40	3.16	3.07	4.68	5.95	5.14	4.91	*6.30*	*6.95*	Earnings per sh [AB]	*8.75*
	.32	.56	.70	.76	.80	.86	.97	1.20	1.36	1.48	1.60	1.68	1.80	1.92	2.16	2.48	*2.76*	*2.80*	Div'ds Decl'd per sh [C]	*3.10*
	.23	.38	.47	.54	.19	.37	.41	.44	.40	.57	.49	.41	.55	.69	.75	.45	*.55*	*.65*	Cap'l Spending per sh	*1.00*
	10.06	10.05	7.71	8.31	8.67	10.71	12.74	13.82	15.24	15.29	16.26	16.76	27.57	29.69	31.79	32.47	*35.15*	*39.20*	Book Value per sh [D]	*52.00*
	366.83	342.00	303.35	291.19	291.86	298.65	297.96	301.39	311.05	311.21	312.06	308.17	368.64	370.16	368.30	369.49	*370.00*	*370.00*	Common Shs Outst'g [E]	*370.00*
	28.9	24.3	24.9	16.8	23.4	12.7	13.6	17.8	21.2	21.2	18.6	18.9	16.8	15.5	20.3	23.1	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*18.0*
	1.54	1.31	1.32	1.01	1.56	.81	.85	1.13	1.19	1.12	.94	.99	.84	.84	1.08	1.18			Relative P/E Ratio	*1.00*
	.9%	1.6%	2.0%	2.6%	3.5%	2.9%	2.6%	3.2%	3.0%	2.9%	2.7%	2.9%	2.3%	2.1%	2.1%	2.2%			Avg Ann'l Div'd Yield	*2.0%*
	2993.3	2701.1	2633.7	2864.8	3435.1	3421.4	5107.5	6200.9	5991.1	5603.1	*6670*	*7150*	Sales ($mill) [A]	*9000*
	39.8%	34.9%	32.8%	28.5%	33.3%	32.5%	31.3%	50.0%	41.3%	39.5%	*41.0%*	*42.5%*	Operating Margin	*44.0%*
	118.2	109.8	110.2	114.1	130.1	134.5	194.7	228.5	240.7	233.8	*240*	*250*	Depreciation ($mill)	*300*
	838.9	651.2	673.5	763.3	1000.9	958.7	1687.8	2237.4	1913.0	1823.8	*2330*	*2570*	Net Profit ($mill)	*3240*
	18.4%	19.9%	17.4%	18.7%	21.7%	13.3%	- -	14.9%	9.9%	11.7%	*10.0%*	*10.0%*	Income Tax Rate	*15.0%*
	28.0%	24.1%	25.6%	26.6%	29.1%	28.0%	33.0%	36.1%	31.9%	32.5%	*34.9%*	*36.0%*	Net Profit Margin	*36.0%*
	3861.4	4171.1	4901.9	3102.8	2965.8	4192.0	755.0	706.0	476.5	1152.7	*1200*	*1400*	Working Cap'l ($mill)	*2000*
	871.9	807.1	872.2	872.8	498.5	1732.2	7551.1	6265.7	5192.3	5145.1	*5000*	*5200*	Long-Term Debt ($mill)	*5500*
	3795.4	4165.4	4739.6	4757.9	5073.0	5165.6	10162	10989	11709	11998	*13000*	*14500*	Shr. Equity ($mill)	*19250*
	18.2%	13.4%	12.2%	13.9%	18.2%	14.5%	10.2%	13.7%	12.0%	11.2%	*13.0%*	*13.0%*	Return on Total Cap'l	*13.0%*
	22.1%	15.6%	14.2%	16.0%	19.7%	18.6%	16.6%	20.4%	16.3%	15.2%	*18.0%*	*17.5%*	Return on Shr. Equity	*17.0%*
	14.7%	7.4%	5.6%	6.5%	10.0%	8.6%	10.7%	14.0%	9.7%	7.8%	*10.0%*	*10.5%*	Retained to Com Eq	*11.0%*
	34%	53%	60%	60%	49%	54%	36%	31%	41%	49%	*44%*	*40%*	All Div'ds to Net Prof	*35%*

CAPITAL STRUCTURE as of 5/1/21
Total Debt $5148.1 mill. **Due in 5 Yrs.** $2370 mill.
LT Debt $3823.6 mill. **LT Interest** $134.0 mill.
(Interest Coverage: 11.7x)
(24% of Cap'l)
Leases, Uncapitalized Annual rentals $49.5 mill.

Pension Assets-10/20 $107.5 mill.
Oblig. $186.7 mill.

Pfd Stock None

Common Stock 368,826,918 shs.
as of 5/1/21
MARKET CAP: $62.1 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	5/1/21
Cash Assets	648.3	1055.9	1305.2
Receivables	635.1	737.5	814.1
Inventory (FIFO)	609.9	608.3	641.2
Other	91.8	116.0	142.3
Current Assets	1985.1	2517.7	2902.8
Accts Payable	225.3	227.3	279.2
Debt Due	299.7	- -	1324.5
Other	983.6	1137.7	1173.1
Current Liab.	1508.6	1365.0	2776.8

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	7.0%	11.0%	*7.0%*
"Cash Flow"	10.5%	15.0%	*8.0%*
Earnings	12.0%	16.0%	*8.5%*
Dividends	10.5%	8.0%	*6.0%*
Book Value	13.0%	15.0%	*9.0%*

Fiscal Year Ends	QUARTERLY SALES ($ mill.) [A] Jan.Per	Apr.Per	Jul.Per	Oct.Per	Full Fiscal Year
2018	1518	1513	1572	1596	6200.9
2019	1541	1526	1480	1443	5991.1
2020	1303	1317	1456	1526	5603.1
2021	1558	1661	*1700*	*1751*	*6670*
2022	*1650*	*1750*	*1835*	*1915*	*7150*

Fiscal Year Ends	EARNINGS PER SHARE [AB] Jan.Per	Apr.Per	Jul.Per	Oct.Per	Full Fiscal Year
2018	1.42	1.45	1.53	1.55	5.95
2019	1.33	1.36	1.26	1.19	5.14
2020	1.03	1.08	1.36	1.44	4.91
2021	1.44	1.54	*1.62*	*1.70*	*6.30*
2022	*1.60*	*1.70*	*1.75*	*1.90*	*6.95*

Cal-endar	QUARTERLY DIVIDENDS PAID [C] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.45	.45	.45	.45	1.80
2018	.48	.48	.48	.48	1.92
2019	.54	.54	.54	.54	2.16
2020	.62	.62	.62	.62	2.48
2021	.69	.69			

BUSINESS: Analog Devices, Inc. makes linear, mixed-signal, and digital integrated circuits for real-world signal processing applications. Sold to OEMs (original equipment manufacturers) for incorporation into equipment and systems for computer, communications, industrial, instrumentation, military/aerospace, and consumer electronics applications. Foreign business: 66% of sales in '20. R&D: 19% of sales. '20 depr. rate: 6.0%. Employed 15,900 (2020 10-K). Stockowners: Off. & dirs., less than 1% of common shares outstanding; Vanguard Group, 8.7%; BlackRock, 8.3% (1/21 proxy). Chairman: Ray Stata. President & CEO: Vincent Roche. Inc.: MA. Address: One Technology Way, P.O. Box 9106, Norwood, MA 02062-9106. Telephone: 781-329-4700. Internet: www.analog.com.

Analog Devices posted strong results during the fiscal second quarter. (The fiscal year ends October 30th.) Earnings per share increased 42.6% on a year-over-year basis during the April period, thanks to strong demand across most product lines. Management noted that the economic recovery has materialized faster than expected, which has put pressure on the semiconductor supply chain. With the outlook for bookings exceedingly optimistic, management has boosted capacity in response. This augurs well for results during the back half of the year, which we anticipate will be stronger than the first six months.

We are cautiously optimistic regarding next year and forecast earnings of $6.95 a share. Management appears to have done a good job of keeping ahead of the demand curve, which is good news for growth as capacity shouldn't be an issue. We believe the domestic and overseas economies will continue to recover from the worst pandemic in more than a century, which augurs well for continued strong demand growth. Of course, there may be some hiccups along the way, particularly given that we aren't completely out of the woods with the coronavirus.

Earnings per share ought to climb at an 8% to 10% clip, on average, over the pull to 2024-2026. Our optimism is based on a decent economic backdrop over that time frame. The company's diversified status also places it in a lucrative position relative to its competitors. Analog has a solid balance sheet with moderate debt and a good amount of cash on hand. Having ample liquidity provides for some downside protection during more-difficult times, while allowing for financial flexibility when times are good.

These shares are favorably ranked for the year ahead based on our Timeliness Ranking System. However, 3- to 5-year price-gains potential is limited at the recent valuation. Our projections are predicated on Analog on a stand-alone basis. Indeed, acquisitions, which aren't included in our projections until they are consummated, could add to our figures. Conservative accounts should note that these shares are less risky than most chip stocks based on Safety and Price Stability.

Alan G. House *June 25, 2021*

(A) Fiscal year ends on Saturday closest to Oct. 31st.
(B) Fully diluted earnings. Excludes nonrecurring charges/gain: '05, d$0.18; '06, d$0.05; '09, d$0.13; '11, $0.07; '14, d$0.42; '15, d$0.96; '16, d$0.31; '17, d$2.61; '18, d$1.98; 19, d$1.49; '20, d$1.63. Excl. disc. ops: '08, $0.88; '11, $0.02. Next egs. report mid-Aug.
(C) Dividends historically paid in mid-March, June, September, and December.
(D) Includes intangibles. In '20: $15,928.7 mill., $42.82/share. **(E)** In millions.

Company's Financial Strength	A+
Stock's Price Stability	90
Price Growth Persistence	85
Earnings Predictability	75

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ASSURANT, INC. NYSE-AIZ

RECENT PRICE 155.78 | P/E RATIO 15.3 (Trailing: 22.7 Median: 12.0) | RELATIVE P/E RATIO 0.79 | DIV'D YLD 1.7% | VALUE LINE

TIMELINESS 3 Lowered 2/19/21
SAFETY 2 Raised 5/16/14
TECHNICAL 3 Raised 6/4/21
BETA .90 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$118-$246 $182 (15%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	145	(-5%)	*Nil*
Low	110	(-30%)	*-6%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	156	190	172
to Sell	204	191	217
Hld's(000)	55783	55329	56932

	High:	41.9	41.9	44.5	66.7	69.9	87.2	94.4	107.0	111.4	134.3	142.6	163.8
	Low:	29.1	30.7	32.4	34.8	59.2	59.7	64.4	86.0	82.3	88.3	76.3	121.6

LEGENDS
10.0 x Earnings p sh
Relative Price Strength
Options: Yes
Shaded area indicates recession

Target Price Range 2024 2025 2026

Percent shares traded 45 30 15

% TOT. RETURN 6/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	54.2	63.9
3 yr.	60.1	53.6
5 yr.	100.9	108.0

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
49.93	55.81	62.77	67.53	64.73	72.58	80.49	92.00	108.03	124.56	126.82	89.51	84.02	99.45	133.79	143.92	*172.00*	*190.10*	Premium Inc per sh	*250.00*
5.26	6.01	6.77	6.60	5.99	6.89	7.79	9.07	9.05	9.47	9.51	9.22	9.42	9.67	11.26	9.92	*12.00*	*14.60*	Investment Inc per sh	*18.60*
3.50	5.56	5.38	3.77	4.09	2.50	5.58	5.67	6.30	6.44	2.05	9.13	9.39	3.98	5.84	6.99	*10.20*	*12.10*	Earnings per sh [A]	*12.85*
.31	.38	.46	.54	.59	.63	.70	.81	.96	1.06	1.37	2.03	2.15	2.28	2.43	2.55	*2.67*	*2.85*	Div'ds Decl'd per sh [B]	*2.95*
28.33	31.26	34.65	31.61	41.61	46.87	56.79	65.92	67.29	74.77	68.70	73.26	81.47	82.53	94.25	102.62	*127.30*	*141.90*	Book Value per sh [C]	*174.25*
130.59	122.62	118.01	117.37	116.65	102.00	88.52	78.66	71.83	69.30	65.85	55.94	52.42	61.91	59.95	57.97	*50.00*	*48.00*	Common Shs Outst'g [D]	*47.00*
129%	159%	165%	172%	64%	76%	66%	57%	76%	88%	104%	114%	121%	118%	118%	115%	*Bold figures are*		Price to Book Value	*84%*
10.4	9.0	10.6	14.4	6.5	14.3	6.7	6.6	8.2	10.3	34.8	9.2	10.5	24.4	19.0	16.9	*Value Line estimates*		Avg Ann'l P/E Ratio	*10.0*
.55	.49	.56	.87	.43	.91	.42	.42	.46	.54	1.75	.48	.53	1.32	1.01	.87			Relative P/E Ratio	*.55*
.9%	.8%	.8%	1.0%	2.2%	1.8%	1.9%	2.2%	1.9%	1.6%	1.9%	2.4%	2.2%	2.3%	2.2%	2.2%			Avg Ann'l Div'd Yield	*2.4%*
7125.4	7237.0	7759.8	8632.1	8351.0	5007.4	4404.1	6156.9	8020.0	8342.7	*8600*	*9125*	Premium Inc ($mill)	*11750*
689.5	713.1	650.3	656.4	626.2	515.7	493.8	598.4	675.0	574.9	*600*	*700*	Investment Inc ($mill)	*875*
425.3	493.8	603.0	1032.3	1318.6	1846.2	31.0	--	31.0	31.0	*20.0*	*30.0*	Other Income ($mill)	*300*
8240.2	8443.9	9013.1	10321	10296	7369.3	4928.9	6755.3	8695.0	8917.6	*9220*	*9855*	Total Income ($mill)	*12925*
2389.7	3655.4	3675.5	4405.3	4742.5	1808.5	1870.6	2342.6	2654.7	2549.3	*2700*	*2900*	Benefits & Reserves ($m)	*3000*
23.7%	36.2%	38.1%	36.7%	29.6%	33.4%	NMF	24.3%	30.2%	14.1%	*23.0%*	*23.0%*	Income Tax Rate	*23.0%*
545.8	483.7	488.9	470.9	141.6	565.4	519.6	251.0	382.6	441.8	*560*	*580*	Net Profit ($mill)	*605*
84.7	77.7	72.3	69.7	--	4.3	3.6	5.3	5.3	5.3	*70.0*	*70.0*	Insur in Force ($bill)	*65.0*
27115	28947	29715	31562	30043	29709	31843	41089	44291	44650	*44000*	*45000*	Total Assets ($mill)	*48000*
5026.9	5185.4	4833.5	5181.3	4524.0	4098.1	4270.6	5112.0	5652.8	5951.4	*6365*	*6810*	Shr. Equity ($mill) [C]	*8190*
10.9%	9.3%	10.1%	9.1%	3.1%	13.8%	12.2%	4.9%	6.8%	7.4%	*8.0%*	*8.5%*	Return on Shr. Equity	*7.5%*
9.5%	8.0%	8.6%	7.6%	1.0%	10.7%	9.4%	2.0%	3.8%	4.5%	*6.5%*	*6.5%*	Retained to Com Eq	*5.5%*
12%	14%	15%	16%	67%	22%	23%	59%	44%	39%	*26%*	*24%*	All Div'ds to Net Prof	*23%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $2204 mill. **Due in 5 Yrs** None.
LT Debt $2204 mill. **LT Interest** $42.7 mill.
(LT Interest Earned: 7.1x)
(27% of Cap'l)
Leases, Uncapitalized: Annual rentals: $23.0 mill.

Pension Assets-12/20 $803.3 mill.shs.
Oblig. $875.5 mill
Pfd Stock None
Common Stock 60,566,633 shs
as of 4/30/21

MARKET CAP: $9.4 billion (Large Cap)

FINANCIAL POSITION ($MILL.)	2019	2020	3/31/21
Investments	14552	15679	7870
Cash& equiv.	1867	2229	1651
Premiums Due	1693	1556	1924
Other	26179	25186	32966
Total Assets	44291	44650	44411
Notes Payable	--	--	--
Debt	2007	2253	2204
Other	36602	36442	36442
Total Liab.	38609	38695	38585

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Premium Inc	--	8.0%	*4.0%*
Earnings	--	1.0%	*11.5%*
Dividends	--	16.5%	*4.0%*
Book Value	--	11.0%	*6.5%*

Calendar	QUARTERLY PREMIUM INC. ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1124	1338	1853	1840	6156.9
2019	1904	2033	2015	2068	8020.0
2020	2084	2036	2103	2120	8342.7
2021	2106	*2100*	*2200*	*2194*	*8600*
2022	*2155*	*2170*	*2350*	*2450*	*9125*

Calendar	EARNINGS PER SHARE [A] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1.96	1.09	.76	.32	3.98
2019	2.52	2.21	d.96	1.91	5.84
2020	2.43	2.81	d.58	2.23	6.99
2021	2.41	*2.69*	*2.30*	*2.80*	*10.20*
2022	*3.20*	*3.20*	*2.50*	*3.20*	*12.10*

Calendar	QUARTERLY DIVIDENDS PAID [B] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.53	.53	.53	.56	2.15
2018	.56	.56	.56	.60	2.28
2019	.60	.60	.60	.63	2.43
2020	.63	.63	.63	.66	2.55
2021	.66	.66			

BUSINESS: Assurant, Inc. provides specialized insurance products and related services primarily in North America, South America, and Europe. The company operates in four segments: Global Housing (homeowners insurance); Global Lifestlye (offers domestic and international extended service contracts); Global Preneed (pre-paid funeral insurance); Corp. & Other. Exited the health insurance market (2016) and sold its Employee Benefits segment (3/16). Acq'd The Warranty Group (5/18). 14,100 emplys. 12/31/20. Pres.: Keith Demmings. CEO: Alan B. Colberg. Offs./dirs. own less than 1% of com. stk.; Vanguard Group, 11.5%; T. Rowe Price, 9.6%; BlackRock, 8.8% (3/21 proxy). Inc.: DE. Addrs.: 28 Liberty St., 41st Fl., New York, NY 10005. Tel.: 212-859-7000. Web:www.assurant.com.

Assurant got off to a slow start in 2021. The company posted a modest 2% uptick in premium income, year to year, to $2.11 billion. The premium growth was fueled by recent acquisitions within the Global Lifestyle business, as new programs launched at the end of 2020 helped bolster the mobile subscriber base. In addition, higher income from the automotive sector, related to significant increases in auto production versus pre-pandemic first-quarter levels, also chipped in. Meantime, earnings of $2.41 a share came in relatively flat as higher reportable catastrophes from the Texas winter storms and the absence of a $79 million tax benefit recorded in the comparable-year period limited much of the aforementioned growth.

Some company changes are forthcoming. Assurant continues to shift its portfolio away from risk-based insurance toward more-profitable professional services. As of the first quarter, the Preneed segment is reported as discontinued operations. The sale to CUNA Mutual Group is for a total cash price of $1.25 billion and is slated to close by the fourth quarter. Management intends to return 75% of the net proceeds via stock buybacks, and 25% will be for investments in connected world and specialty P&C offerings. What's more, Alan Coldberg announced his decision to retire as CEO at the end of this year. Effective immediately, Keith Demmings was named president in advance of his appointment as chief executive officer.

We look for double-digit earnings advances this year and next. Management raised its 2021 operating income guidance to the tune of 10%-14% (previously 9%). While we anticipate lower Housing segment earnings due to tougher comps, strength will likely be driven by lower corporate losses and a mid-single-digit gain in mobile subscribers on the Global Lifestyle unit as new programs are released in North America and Asia/Pacific regions. The lender-placed business ought to improve, thanks to a more favorable economic backdrop.

We suggest investors stay on the sidelines, for now. The stock is just an average choice for the year ahead. What's more, it is already trading above our 3- to 5-year Target Price Range.

Oriatal J. Haiby *August 6, 2021*

(A) Diluted earnings. Next earnings report due early November. Earnings may not sum due to changes in shares outstanding.
(B) Dividends historically paid in mid-March, June, September, and December.
(C) Includes intangibles. In 2020, $3285.5 million, $52.00 per share.
(D) In millions.

Company's Financial Strength	A
Stock's Price Stability	90
Price Growth Persistence	90
Earnings Predictability	40

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SMITH (A.O.) NYSE-AOS

RECENT PRICE 70.37 | P/E RATIO 26.6 (Trailing: 29.2 Median: 21.0) | RELATIVE P/E RATIO 1.30 | DIV'D YLD 1.5% | VALUE LINE

TIMELINESS 4 Raised 6/4/21
SAFETY 2 Raised 1/8/21
TECHNICAL 3 Lowered 7/2/21
BETA .85 (1.00 = Market)

18-Month Target Price Range

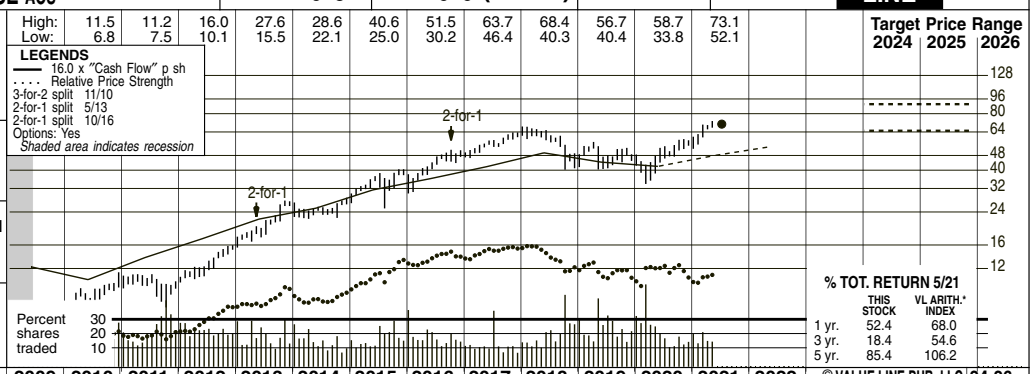
Low-High	Midpoint (% to Mid)
$44-$85	$65 (-10%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	90	(+30%)	8%
Low	65	(-10%)	Nil

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	226	279	272
to Sell	235	194	243
Hld's(000)	121111	118196	120883



2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
9.30	11.62	11.84	11.80	10.24	8.14	9.27	10.49	11.80	13.18	14.42	15.49	17.46	18.96	18.43	17.90	*21.30*	*23.50*	Sales per sh	*27.95*
.62	.74	.80	.79	.77	.65	.86	1.08	1.38	1.57	1.97	2.26	2.61	3.10	2.76	2.63	*3.20*	*3.65*	"Cash Flow" per sh	*4.65*
.31	.41	.48	.49	.57	.43	.60	.78	1.03	1.22	1.58	1.85	2.17	2.61	2.22	2.12	*2.65*	*3.00*	Earnings per sh A	*3.95*
.11	.11	.12	.12	.13	.14	.15	.18	.23	.30	.38	.48	.56	.76	.90	.98	*1.04*	*1.12*	Div'ds Decl'd per sh B■	*1.50*
.28	.37	.37	.34	.29	.29	.29	.38	.54	.48	.41	.47	.55	.51	.40	.35	*.60*	*.55*	Cap'l Spending per sh	*.55*
3.37	3.68	3.88	3.28	4.06	4.82	5.89	6.46	7.28	7.73	8.20	8.74	9.60	10.21	10.27	11.43	*10.95*	*10.35*	Book Value per sh C	*14.25*
181.69	186.02	195.30	195.30	194.44	182.97	184.48	184.88	182.48	178.80	175.90	173.44	171.66	168.16	162.37	161.77	*155.50*	*150.00*	Common Shs Outst'g D	*145.00*
16.1	17.2	14.1	11.9	10.1	20.3	16.6	16.4	20.2	20.3	21.6	23.0	25.4	22.2	21.8	22.6	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*20.0*
.86	.93	.75	.72	.67	1.29	1.04	1.04	1.13	1.07	1.09	1.21	1.28	1.20	1.16	1.16			Relative P/E Ratio	*1.10*
2.2%	1.6%	1.7%	2.1%	2.2%	1.6%	1.5%	1.4%	1.1%	1.2%	1.1%	1.1%	1.0%	1.3%	1.9%	2.0%			Avg Ann'l Div'd Yield	*1.9%*
1710.5	1939.3	2153.8	2356.0	2536.5	2685.9	2996.7	3187.9	2992.7	2895.3	*3315*	*3525*	Sales ($mill)	*4050*
10.9%	13.6%	15.8%	15.6%	18.2%	19.6%	19.7%	19.6%	18.2%	18.0%	*18.5%*	*19.0%*	Operating Margin	*20.5%*
47.0	54.6	59.7	59.8	63.0	65.1	70.1	71.9	78.3	80.0	*80.0*	*85.0*	Depreciation ($mill)	*92.0*
111.2	145.1	191.2	221.0	282.9	326.5	378.3	449.2	370.0	344.9	*420*	*460*	Net Profit ($mill)	*580*
31.1%	29.6%	28.4%	28.3%	29.7%	29.4%	27.4%	20.4%	21.6%	22.3%	*23.0%*	*23.0%*	Income Tax Rate	*23.0%*
6.5%	7.5%	8.9%	9.4%	11.2%	12.2%	12.6%	14.1%	12.4%	11.9%	*12.7%*	*13.0%*	Net Profit Margin	*14.3%*
688.8	608.2	614.7	713.8	802.1	796.4	978.3	853.2	733.9	731.7	*765*	*775*	Working Cap'l ($mill)	*835*
443.0	225.1	177.7	210.1	236.1	316.4	402.9	221.4	277.2	106.4	*105*	*105*	Long-Term Debt ($mill)	*105*
1085.8	1194.1	1328.7	1381.3	1442.3	1515.3	1648.8	1717.0	1666.8	1848.3	*1705*	*1555*	Shr. Equity ($mill) C	*2065*
7.6%	10.5%	12.9%	14.0%	17.1%	18.0%	18.7%	23.4%	19.3%	17.8%	*23.5%*	*28.0%*	Return on Total Cap'l	*27.0%*
10.2%	12.2%	14.4%	16.0%	19.6%	21.5%	22.9%	26.2%	22.2%	18.7%	*24.5%*	*29.5%*	Return on Shr. Equity	*28.0%*
7.7%	9.4%	11.2%	12.1%	14.9%	16.0%	17.1%	18.6%	13.2%	10.1%	*14.5%*	*18.0%*	Retained to Com Eq	*17.0%*
25%	23%	22%	25%	24%	26%	26%	29%	40%	46%	*39%*	*37%*	All Div'ds to Net Prof	*38%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $106.4 mill. **Due in 5 Yrs** $113.2 mill.
LT Debt $99.6 mill. **LT Interest** $3.5 mill. (5% of Cap'l)
Leases, Uncapitalized Annual rentals $12.4 mill.
Pension Assets-12/20 $858.0 mill. **Oblig.** $869.8 mill.
Common Stock 160,456,241 shares.
Includes 25,989,387 Class A shares.
Class A shares have (10 times) super voting power for matters beyond director elections.
as of 4/28/21

MARKET CAP: $11.3 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	551.4	689.6	665.5
Receivables	589.5	585.0	534.5
Inventory (LIFO)	303.0	300.1	312.8
Other	56.5	43.3	45.4
Current Assets	1500.4	1618.0	1558.2
Accts Payable	509.6	595.2	547.4
Debt Due	6.8	6.8	6.8
Other	250.1	284.3	281.9
Current Liab.	766.5	886.3	836.1

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	6.0%	7.0%	*7.0%*
"Cash Flow"	14.5%	11.5%	*8.5%*
Earnings	16.5%	12.5%	*9.5%*
Dividends	21.0%	23.5%	*9.5%*
Book Value	10.0%	6.5%	*5.0%*

Calendar	QUARTERLY SALES ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	788.0	833.3	754.1	812.5	3187.9
2019	748.2	765.4	728.2	750.9	2992.7
2020	636.9	663.9	760.0	834.5	2895.3
2021	769.0	*800*	*835*	*911*	*3315*
2022	*815*	*850*	*885*	*975*	*3525*

Calendar	EARNINGS PER SHARE A Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.60	.66	.61	.74	2.61
2019	.53	.61	.53	.56	2.22
2020	.32	.42	.65	.74	2.12
2021	.60	*.63*	*.68*	*.74*	*2.65*
2022	*.68*	*.71*	*.77*	*.84*	*3.00*

Calendar	QUARTERLY DIVIDENDS PAID B■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.14	.14	.14	.14	.56
2018	.18	.18	.18	.22	.76
2019	.22	.22	.22	.24	.90
2020	.24	.24	.24	.26	.98
2021	.26	.26			

BUSINESS: A.O. Smith Corp. is a leading manufacturer of residential and commercial water heaters, boilers. and water treatment products. Has two reportable segments: North America (73% of '20 sales); and Rest of World (27%), which primarily serves China, Europe, and India. Brands include A.O. Smith, GSW (acquired 4/06), Lochinvar (8/11), Reliance, and Takagi. As of 12/20, had approx. 13,900 employees and 22 manufacturing facilities. '20 depreciation rate: 6.0%. Smith Family Voting Trust owns 96.6% of Class A shares; Offs. & dirs., .7% of regular common; Vanguard Group, 11.1% (3/21 proxy). Chairman & CEO: Kevin J. Wheeler. Inc.: Delaware. Address: 11270 West Park Place, Milwaukee, WI 53224. Telephone: 414-359-4130. Internet: www.aosmith.com.

A strong bounce back in China bolstered A.O. Smith's March-quarter results. To wit, revenues at the maker of water heaters and water-treatment products jumped 21%, year over year, in the period, as sales in China doubled from low prior-year levels. Earnings, meantime, rose a better-than-expected 88%, to $0.60 a share. The higher sales helped. So, too, did a rationalization of the company's retail footprint in China. Notably, A.O. Smith recently closed hundreds of underperforming outlets in large, tier-1 cities and shrank its headcount. At the same time, it opened locations in several smaller cities, where it previously had limited presence.

Management is more upbeat about 2021 as a whole. Indeed, it now expects earnings to come in between $2.55 and $2.65 a share, up 20%–25% from the $2.12 that the company tallied in 2020. Previous guidance had share net rising a less-robust 13%–18%, to between $2.40 and $2.50.

Boiler sales are trending significantly more positive than A.O. Smith first envisioned. To that point, the company recently doubled its growth projections for North American boiler sales from "mid-single digits" to approximately 10%, largely reflecting a growing backlog of orders and higher quoting activity. Notably, A.O. Smith is benefiting these days from strong demand for high-efficiency boilers, as building owners and operators are looking to reduce energy use and lower their carbon footprints.

Water heater shipments may still take a step back this year, as retailers and distributors work off excess inventories. In April, management cautioned that industry volumes could decline 2% or so in 2021. That said, it's our belief that underlying demand remains healthy and that the water heater business will remain a key driver of the company's long-term growth.

Shares of A.O. Smith are now ranked 4 (Below Average) for relative year-ahead price performance. At the recent quotation, long-term appreciation potential doesn't stand out, either. We like the story here, but think that investors will be better served elsewhere.

Nils C. Van Liew *July 9, 2021*

(A) Excludes nonrecurring gains/(losses): '05, ($0.13); '08, ($0.11); '14, ($0.14); '18 Q1, ($0.03). Also excludes disc. operations: '05, ($0.06); '10, ($0.60); '11, $0.14; '12, $0.22. Next earnings report due in late July. **(B)** Dividends historically paid in mid-February, May, August & November. ■ Dividend reinvestment plan available. **(C)** Includes intangible assets: In 2020: $870.7 mill., $5.38/sh. **(D)** In millions, adjusted for stock splits.

Company's Financial Strength	B++
Stock's Price Stability	95
Price Growth Persistence	75
Earnings Predictability	75

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BECTON, D'SON. NYSE-BDX

RECENT PRICE 256.13 | P/E RATIO 22.3 (Trailing: 20.1 Median: 19.0) | RELATIVE P/E RATIO 1.16 | DIV'D YLD 1.3% | VALUE LINE

TIMELINESS 3 Lowered 1/22/21
SAFETY 1 Raised 3/4/05
TECHNICAL 5 Lowered 7/16/21
BETA .75 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$192-$366 $279 (10%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	375	(+45%)	11%
Low	305	(+20%)	6%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	638	749	708
to Sell	619	614	635
Hld's(000)	242320	241310	242913

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
High:	85.5	89.8	80.6	110.9	142.6	157.5	181.8	229.7	265.9	275.5	286.7	267.4								
Low:	66.5	69.6	71.6	78.7	105.2	128.9	129.5	161.5	208.6	210.7	197.8	236.0								
Sales per sh A	21.86	23.79	26.08	29.44	30.20	32.08	36.44	39.15	41.52	43.99	48.80	58.53	53.05	59.59	63.94	59.02	*66.80*	*66.95*	Sales per sh A	*74.60*
"Cash Flow" per sh	4.60	5.08	5.82	6.60	7.13	7.34	8.27	8.30	8.78	9.37	11.25	13.99	13.56	17.48	19.58	16.97	*20.85*	*21.60*	"Cash Flow" per sh	*26.35*
Earnings per sh AB	2.88	3.28	3.84	4.46	4.95	4.94	5.62	5.36	5.81	6.25	7.16	8.59	9.48	11.01	11.68	10.20	*12.85*	*13.25*	Earnings per sh AB	*17.00*
Div'ds Decl'd per sh C■	.72	.86	.98	1.14	1.32	1.48	1.64	1.80	1.98	2.18	2.40	2.64	2.92	3.00	3.08	3.16	*3.32*	*3.48*	Div'ds Decl'd per sh C■	*4.25*
Cap'l Spending per sh	1.28	1.87	2.28	2.68	2.96	2.75	2.82	2.81	3.03	3.40	2.83	3.25	3.19	3.34	3.54	2.79	*3.25*	*3.15*	Cap'l Spending per sh	*3.10*
Book Value per sh D	13.26	15.63	17.89	20.30	21.69	23.65	22.48	21.00	26.00	26.32	34.00	35.79	56.80	78.26	77.95	81.94	*87.35*	*91.55*	Book Value per sh D	*98.35*
Common Shs Outst'g E	247.68	245.47	243.84	243.08	237.08	229.82	214.82	196.91	194.00	191.98	210.70	213.29	227.94	268.22	270.43	290.02	*292.00*	*295.00*	Common Shs Outst'g E	*305.00*
Avg Ann'l P/E Ratio	19.3	18.8	19.5	19.0	13.7	14.9	14.5	14.1	15.6	18.1	19.5	18.4	19.4	20.8	20.8	24.7	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*20.0*
Relative P/E Ratio	1.03	1.02	1.04	1.14	.91	.95	.91	.90	.88	.95	.98	.97	.98	1.12	1.11	1.25			Relative P/E Ratio	*1.10*
Avg Ann'l Div'd Yield	1.3%	1.4%	1.3%	1.3%	1.9%	2.0%	2.0%	2.4%	2.2%	1.9%	1.7%	1.7%	1.6%	1.3%	1.3%	1.3%			Avg Ann'l Div'd Yield	*1.3%*
Sales ($mill) A	7828.9	7708.4	8054.0	8446.0	10282	12483	12093	15983	17290	17117	*19500*	*19750*	Sales ($mill) A	*22750*
Operating Margin	29.1%	27.1%	26.9%	26.6%	32.8%	30.5%	32.9%	37.0%	39.2%	35.3%	*37.0%*	*38.0%*	Operating Margin	*41.0%*
Depreciation ($mill)	504.1	510.9	546.0	562.0	891.0	1114.0	1088.0	1978.0	2253.0	2154.0	*2250*	*2375*	Depreciation ($mill)	*2850*
Net Profit ($mill)	1271.5	1122.5	1158.0	1236.0	1480.0	1869.1	2072.0	2862.8	3195.0	2875.6	*3835*	*3995*	Net Profit ($mill)	*5185*
Income Tax Rate	26.3%	24.8%	24.5%	22.8%	31.2%	20.0%	15.2%	17.3%	18.8%	15.3%	*15.0%*	*16.0%*	Income Tax Rate	*16.0%*
Net Profit Margin	16.2%	14.6%	14.4%	14.6%	14.4%	15.0%	17.1%	17.9%	18.5%	16.8%	*19.7%*	*20.2%*	Net Profit Margin	*22.8%*
Working Cap'l ($mill)	2845.1	3344.0	3743.0	3896.0	1659.0	1967.0	15291	195.0	1009.0	3133.0	*4085*	*2465*	Working Cap'l ($mill)	*2250*
Long-Term Debt ($mill)	2484.7	3761.1	3763.0	3768.0	11370	10550	18667	18894	18081	17224	*17000*	*16000*	Long-Term Debt ($mill)	*12000*
Shr. Equity ($mill) D	4828.2	4135.9	5043.0	5053.0	7164.0	7633.0	12948	20994	21081	23765	*25500*	*27000*	Shr. Equity ($mill) D	*30000*
Return on Total Cap'l	18.2%	15.2%	13.9%	14.8%	9.0%	11.3%	7.4%	7.8%	8.9%	7.6%	*9.5%*	*9.5%*	Return on Total Cap'l	*12.5%*
Return on Shr. Equity	26.3%	27.1%	23.0%	24.5%	20.7%	24.5%	16.0%	13.6%	15.2%	12.1%	*15.0%*	*15.0%*	Return on Shr. Equity	*17.5%*
Retained to Com Eq	18.9%	18.3%	15.3%	16.1%	13.9%	17.1%	10.8%	9.2%	10.5%	7.8%	*11.0%*	*11.0%*	Retained to Com Eq	*13.0%*
All Div'ds to Net Prof	28%	33%	33%	34%	33%	30%	33%	32%	31%	36%	*25%*	*26%*	All Div'ds to Net Prof	*25%*

% TOT. RETURN 7/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	-8.2	55.5
3 yr.	5.8	48.6
5 yr.	55.1	95.5

CAPITAL STRUCTURE as of 3/31/21
Total Debt $17719 mill. **Due in 5 Yrs** $11907 mill.
LT Debt $17718 mill. **LT Interest** $495 mill.
(Total interest coverage: 3.5x) (41% of Capital)

Leases, Uncapitalized Annual rentals $115 mill.

Pension Assets-9/20 $3045 mill.
Oblig. $3953 mill.

Pfd Stock $2400 mill. **Pfd Div'd** $90 mill.
Common Stock 290,818,504 shares
MARKET CAP: $74.4 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	566	2845	3758
Receivables	2345	2938	2118
Inventory (FIFO)	2579	2743	2895
Other	1174	983	1229
Current Assets	6664	8969	10000
Accts Payable	1092	1355	*1350*
Debt Due	1309	707	1
Other	3254	3774	4025
Current Liab.	5655	5836	5376

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	7.0%	6.5%	*3.5%*
"Cash Flow"	10.0%	13.0%	*6.5%*
Earnings	8.5%	11.5%	*7.5%*
Dividends	9.0%	7.0%	*5.5%*
Book Value	14.0%	22.5%	*3.5%*

Fiscal Year Ends	QUARTERLY SALES ($ mill.) A Dec.31	Mar.31	Jun.30	Sep.30	Full Fiscal Year
2018	3081	4222	4278	4402	15983
2019	4161	4195	4350	4584	17290
2020	4225	4253	3855	4784	17117
2021	5315	4907	*4550*	*4728*	*19500*
2022	*4800*	*4900*	*4950*	*5100*	*19750*

Fiscal Year Ends	EARNINGS PER SHARE AB Dec.31	Mar.31	Jun.30	Sep.30	Full Fiscal Year
2018	2.48	2.65	2.91	2.93	11.01
2019	2.70	2.59	3.08	3.31	11.68
2020	2.65	2.55	2.20	2.79	10.20
2021	4.55	3.19	*2.45*	*2.66*	*12.85*
2022	*3.15*	*3.25*	*3.35*	*3.50*	*13.25*

Calendar	QUARTERLY DIVIDENDS PAID C■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.73	.73	.73	.75	2.94
2018	.75	.75	.75	.77	3.02
2019	.77	.77	.77	.77	3.10
2020	.79	.79	.79	.83	3.20
2021	.83	.83			

BUSINESS: Becton, Dickinson & Co. operates in three segments: Medical (51% of FY'20 sales) manufactures medical devices which include Diabetes Care, Medication Management Solutions, and Medication Delivery; Life Sciences (27%) includes Diagnostic and Preanalytical Systems; Interventional (22%) includes Peripheral Intervention and Urology and Critical Care. '20 R&D: $1096 mill, 6.4% of sales. Acquired CareFusion 3/15; C.R Bard 12/17. Employs about 72,000. Officers & dir. own less than 1.0% of common stock; The Vanguard Group, 8.5%; BlackRock, 7.4%; T. Rowe Price, 6.5% (12/20 proxy). CEO and President: Thomas E. Pohlen. Inc.: New Jersey. Address: One Becton Drive, Franklin Lakes, NJ 07417. Telephone: 201-847-6800. Internet: www.bd.com.

Becton, Dickinson (BD) remains on track to report solid fiscal 2021 (ends September 30th) results. The company is slated to report fiscal third-quarter results shortly after press time, but has seen some strong trends so far this fiscal year. Specifically, BD's Life Sciences segment has been growing at a rapid clip, thanks, in large part, to its array of COVID-19 testing solutions, including the *BD Veritor* and *BD Max* systems. The BD Medical arm is also performing well, with nice gains being realized in pharmaceutical systems. All told, our full-year top-line estimate of $19.5 billion would represent a 14% rise over fiscal 2020. We expect earnings to rise at an even higher clip, in the 25% vicinity.

The company will spin off its Diabetes Care unit next year. The transaction will be implemented as a tax-free distribution to shareholders and be a publicly traded entity. The division generated roughly $1.1 billion in sales in fiscal 2020 and will continue to focus on maintaining its leading market share in insulin injection devices. The move is part of BD's long-term strategy to enhance shareholder value. The separation should allow for BD to operate more efficiently and allocate more capital to strategic growth initiatives. From our perspective, the deal makes sense and could help increase margins down the road.

The outlook out to mid-decade is solid. Once the spinoff is complete, BD plans to target more of its high-growth businesses to focus on. Too, new product development will be part of the equation, where the company will continue to invest heavily in R&D. We also expect the company will be active in seeking strategic, bolt-on acquisitions, as it has made a habit of in the past.

These shares remain a blue chip investment for those seeking exposure to the medical device space. This neutrally ranked issue carries our Highest marks for Safety (1) and Financial Strength (A++). Too, capital appreciation potential out to 2024-2026 is worthwhile based on our long-term earnings projections. There is also an income component here, although the yield lies below the *Value Line* median.

Kevin P. O'Sullivan *August 13, 2021*

(A) Fiscal years end September 30th.
(B) Dil. EPS. Qtly EPS may not sum. Excludes nonrecurring: '05, (11¢); '06, (35¢); '07, (35¢); '08, (11¢); '09, 4¢; '10, 55¢; '12, 23¢; '13, 68¢; '14, (26¢); '15 ($3.81); '16 ($4.10); '17, ($4.88); '18, ($10.41); '19, ($7.79); '20, ($7.49); '21, ($3.45). Next egs report due early October.
(C) Dividends paid in late December, late March, late June, and late September. ■ DRIP available.
(D) Includes intangibles. In FY'20: $37.4 billion, $129.08 a share. **(E)** In millions.

Company's Financial Strength	A++
Stock's Price Stability	95
Price Growth Persistence	75
Earnings Predictability	100

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BROWN-FORMAN 'B' NYSE-BFB

RECENT PRICE 74.44 | P/E RATIO 43.3 (Trailing: 46.5 Median: 29.0) | RELATIVE P/E RATIO 2.13 | DIV'D YLD 1.0% | VALUE LINE

TIMELINESS 5 Lowered 4/30/21
SAFETY 1 Raised 5/21/93
TECHNICAL 3 Raised 6/25/21
BETA .90 (1.00 = Market)

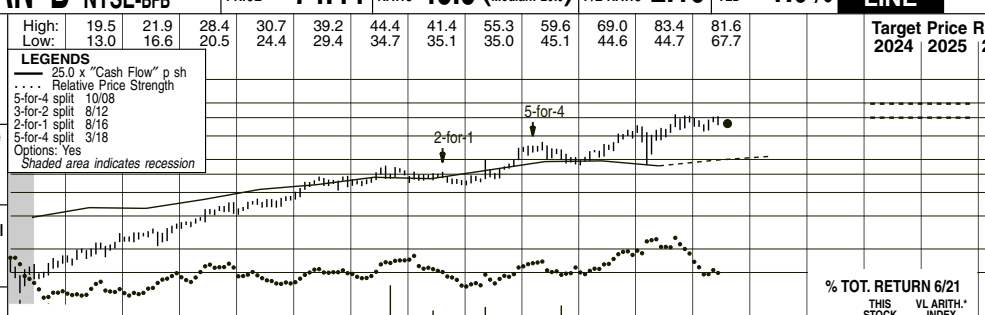
18-Month Target Price Range
Low-High Midpoint (% to Mid)
$57-$122 $90 (20%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	95	(+30%)	8%
Low	80	(+5%)	3%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	257	274	259
to Sell	260	261	290
Hld's(000)	147745	150465	148537



	High:	19.5	21.9	28.4	30.7	39.2	44.4	41.4	55.3	59.6	69.0	83.4	81.6
	Low:	13.0	16.6	20.5	24.4	29.4	34.7	35.1	35.0	45.1	44.6	44.7	67.7

Target Price Range 2024 2025 2026
128 96 80 64 48 40 32 24 16 12

% TOT. RETURN 6/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	18.8	63.9
3 yr.	58.0	53.6
5 yr.	99.3	108.0

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
3.44	3.84	4.57	4.41	4.48	4.76	5.11	5.33	5.61	6.01	6.25	6.24	6.75	6.97	7.03	7.23	*7.55*	*7.90*	Sales per sh [A]	*9.35*
.70	.75	.87	.87	.94	1.06	1.05	1.17	1.33	1.41	1.54	1.51	1.68	1.87	1.88	1.78	*2.00*	*2.20*	"Cash Flow" per sh	*3.70*
.62	.67	.76	.77	.82	.95	.95	1.07	1.22	1.28	1.38	1.37	1.54	1.73	1.72	1.61	*1.80*	*2.00*	Earnings per sh [B]	*3.50*
.22	.24	.27	.30	.31	.33	.36	.39	.44	.48	.52	.56	.61	.65	.68	.71	*.75*	*.80*	Div'ds Decl'd per sh [C] ■	*.92*
.09	.10	.07	.10	.07	.08	.11	.18	.24	.23	.22	.23	.26	.25	.24	.13	*.60*	*.70*	Cap'l Spending per sh	*.90*
2.72	2.72	3.05	3.23	3.44	3.79	3.88	3.05	3.81	3.65	3.16	2.85	2.74	3.45	4.13	5.55	*5.85*	*6.20*	Book Value per sh [D]	*6.60*
574.05	577.67	565.28	562.98	551.11	543.71	532.78	534.28	533.64	521.75	494.36	480.11	481.00	477.17	478.21	478.73	*478.00*	*475.00*	Common Shs Outst'g [E]	*465.00*
22.5	22.3	19.7	17.8	16.1	17.9	21.4	24.1	24.7	28.4	28.8	27.6	30.4	29.3	35.4	45.1	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*25.0*
1.20	1.20	1.05	1.07	1.07	1.14	1.34	1.53	1.39	1.49	1.45	1.45	1.53	1.58	1.89	2.30			Relative P/E Ratio	*1.40*
1.6%	1.6%	1.8%	2.2%	2.4%	1.9%	1.8%	1.5%	1.4%	1.3%	1.3%	1.5%	1.3%	1.3%	1.1%	1.0%			Avg Ann'l Div'd Yield	*1.1%*
2723.0	2849.0	2991.0	3134.0	3089.0	2994.0	3248.0	3324.0	3363.0	3461.0	*3600*	*3750*	Sales ($mill) [A]	*4350*
30.7%	32.5%	33.6%	35.1%	35.4%	34.6%	35.1%	35.5%	35.0%	30.9%	*32.0%*	*33.0%*	Operating Margin	*34.5%*
49.0	51.0	50.0	51.0	56.0	58.0	64.0	58.0	74.0	77.0	*80.0*	*85.0*	Depreciation ($mill)	*100*
513.0	576.0	659.0	684.0	707.5	669.0	746.0	835.0	827.0	773.5	*880*	*960*	Net Profit ($mill)	*1625*
32.5%	31.7%	30.4%	31.7%	29.5%	28.3%	26.6%	19.9%	18.0%	16.5%	*21.0%*	*21.0%*	Income Tax Rate	*23.0%*
18.8%	20.2%	22.0%	21.8%	22.9%	22.3%	23.0%	25.1%	24.6%	22.3%	*24.4%*	*25.6%*	Net Profit Margin	*37.3%*
1345.0	1348.0	1616.0	1296.0	1442.0	1381.0	1734.0	2016.0	2385.0	2999.0	*2050*	*2075*	Working Cap'l ($mill)	*2125*
503.0	997.0	997.0	748.0	1230.0	1689.0	2341.0	2290.0	2269.0	2354.0	*2200*	*2100*	Long-Term Debt ($mill)	*2000*
2069.0	1628.0	2032.0	1905.0	1562.0	1370.0	1316.0	1647.0	1975.0	2656.0	*2800*	*2950*	Shr. Equity ($mill)	*3075*
20.5%	22.6%	22.2%	26.3%	26.2%	22.8%	21.3%	22.3%	20.5%	16.2%	*18.5%*	*19.5%*	Return on Total Cap'l	*32.5%*
24.8%	35.4%	32.4%	35.9%	45.3%	48.8%	56.7%	50.7%	41.9%	29.1%	*31.5%*	*32.5%*	Return on Shr. Equity	*53.0%*
15.5%	22.5%	21.0%	22.5%	28.3%	28.8%	NMF	31.9%	25.4%	16.4%	*18.5%*	*19.5%*	Retained to Com Eq	*39.0%*
37%	36%	35%	37%	38%	41%	104%	37%	39%	44%	*41%*	*40%*	All Div'ds to Net Prof	*26%*

CAPITAL STRUCTURE as of 4/30/21
Total Debt $2559 mill. **Due in 5 Yrs** $205 mill.
LT Debt $2354 mill. **LT Interest** $65 mill.

(Total interest coverage: 21.1x) (47% of Cap'l)
Leases, Uncapitalized Annual rentals $28 mill.
Pension Assets-4/21 $836 mill.
Obligations $1061 mill.

Pfd Stock None
Common Stock 478,758,081 shs. (incl. 169,109,992 Cl. 'A' voting shs.)
as of 5/31/21
MARKET CAP: $35.6 billion (Large Cap)

CURRENT POSITION ($MILL.)	2018	2019	4/30/21
Cash Assets	307	675	1150
Receivables	609	570	753
Inventory (LIFO)	1520	1685	1751
Other	283	335	263
Current Assets	2719	3265	3917
Accts Payable	150	131	172
Debt Due	150	333	205
Other	403	416	541
Current Liab.	703	880	918

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	4.5%	3.5%	*5.0%*
"Cash Flow"	7.0%	5.5%	*12.5%*
Earnings	7.0%	5.5%	*13.0%*
Dividends	8.0%	7.0%	*5.0%*
Book Value	2.5%	4.5%	*7.0%*

Fiscal Year Begins	QUARTERLY SALES ($ mill.)[A] Jul.31	Oct.31	Jan.31	Apr.30	Full Fiscal Year
2018	766	910	904	744	3324
2019	766	989	899	709	3363
2020	753	985	911	812	3461
2021	*785*	*1015*	*975*	*825*	*3600*
2022	*820*	*1050*	*1010*	*870*	*3750*

Fiscal Year Begins	EARNINGS PER SHARE [A B] Jul.31	Oct.31	Jan.31	Apr.30	Full Fiscal Year
2018	.41	.52	.47	.33	1.73
2019	.39	.59	.48	.27	1.72
2020	.40	.50	.45	.25	1.61
2021	*.42*	*.55*	*.50*	*.33*	*1.80*
2022	*.45*	*.60*	*.55*	*.40*	*2.00*

Calendar	QUARTERLY DIVIDENDS PAID [C] ■ Apr.31	Jul.30	Oct.30	Jan.31	Full Year
2017	.146	.146	.146	.157	.59
2018	.157	.157	.158	.166	.64
2019	.166	.166	.166	.174	.67
2020	.174	.174	.174	.179	.67
2021	.179	.179			

BUSINESS: Brown-Forman is engaged in the production and marketing of distilled spirits and wines. Major brands include *Jack Daniel's*, *Finlandia,* and *Korbel.* In the U.S., sells spirits either through wholesale distributors or directly to state governments in those states that control alcohol sales. Sold Hartmann luggage business, 5/07; Lenox tableware division, 9/05; minority stake in Glenmorangie PLC, 11/04. Acquired Slane Castle Irish Whiskey 6/15. Acquired Benriach 6/16. Non-U.S. sales represent 50% of total revenue. Has 4,700 employees. Off. & dir. own about 6.3% of 'A' and 2.7% of 'B' shares (6/21 Proxy). CEO: Lawson Whiting. Inc.: DE. Address: 850 Dixie Highway Louisville, KY 40201-1080. Telephone: 502-585-1100. Internet: www.brown-forman.com.

Brown-Forman reported mixed fiscal 2020 financial results (year ended April 30th). For the full year, sales managed to increase 3%, mainly driven by double-digit progress for both the premium bourbon and tequila offerings. However, earnings declined 6.4% year over year, to $1.61 a share. Investors should note, however, that the shortfall excludes a roughly $0.27 benefit in the fiscal 2020 first quarter due to the sale of the *Early Times*, *Canadian Mist*, and *Collingwood* brands early last year.

Our near-term outlook is upbeat. The top line is expected to increase roughly 4% over fiscal 2021 and 2022. There is a sense of optimism with regard to economic prospects. The distribution of COVID-19 vaccines and resumption of activity outside the home ought to strengthen demand in on-premise channels that were down during the pandemic, including bars and restaurants. Also, demand should perk up in international markets as business activity abroad and tourism seem to be rebounding, as well. The healthy sales progress ought to buoy the bottom line. All told, earnings should progress at a low double-digit pace over the next two years.

Recent strategic actions are encouraging. Brown-Forman continues to reconfigure the portfolio. Recently, it sold several underperforming labels. Also, innovation in the alcoholic beverage maker's premium offerings should help it tap favorable demand trends in this growing category. Indeed, demand for high-end labels including *Woodford Reserve* and *Old Forester* remains elevated. Also, interest in ready-to-drink alcoholic offerings has gained in popularity in recent months. All told, brand-building efforts that capitalize on these trends should enhance top- and bottom-line prospects.

The 3- to 5-year picture offers promise. Indeed, the alcohol market is highly competitive, and consumer preferences are constantly evolving. We are optimistic that the company's astute abilities to shift to on-trend categories will continue to strengthen its market position. However,

Most investors should look elsewhere. This stock is unfavorably ranked for Timeliness (5) and total return potential to 2024-2026 is unimpressive.

Nira Maharaj *July 16, 2021*

(A) Excludes excise taxes. Fiscal yr. ends April 30th of foll. cal. year. **(B)** Dil. earnings. Excls. nonrec. gain (loss): '05, 4¢; '06, 3¢; '09, (3¢); '10, 14¢; '12, 3¢; '15, 70¢; '17, (6¢); '20, 27¢. May not sum due to rounding. Next earnings report due early Sept. **(C)** Div'ds paid early April, July, Oct., and Jan. ■ Co. Div'd reinvestment plan available. Special dividend of $1.00 paid on 4/2/18. **(D)** Incl. intangibles. In '20: $1455.0 mill., $3.03/sh. **(E)** In mills., adj for splits.

Company's Financial Strength	A
Stock's Price Stability	90
Price Growth Persistence	85
Earnings Predictability	100

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BROADRIDGE FIN'L NYSE-BR

RECENT PRICE **172.93** | P/E RATIO **28.4** (Trailing: 30.8 Median: 22.0) | RELATIVE P/E RATIO **1.49** | DIV'D YLD **1.4%** | VALUE LINE **433**

TIMELINESS 3 Lowered 4/30/21
SAFETY 2 New 2/26/16
TECHNICAL 4 Lowered 7/23/21
BETA .85 (1.00 = Market)

18-Month Target Price Range
Low-High **Midpoint (% to Mid)**
$128-$237 $183 (5%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	240	(+40%)	*10%*
Low	175	(Nil)	*2%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	317	355	349
to Sell	322	321	325
Hld's(000)	98280	98803	99990

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
High:			24.0	24.8	24.9	40.4	46.8	60.1	71.7	92.4	138.2	137.0	154.2	175.2						
Low:			18.5	19.0	19.8	21.8	34.9	44.6	48.6	65.2	87.5	92.4	81.9	137.9						
Revenues per sh [A]			15.53	15.91	15.47	17.10	17.52	18.46	20.43	21.41	22.79	24.49	35.56	37.23	38.16	39.35	*43.10*	*45.70*	Revenues per sh [A]	*53.00*
"Cash Flow" per sh			1.70	1.74	2.01	2.18	1.97	1.74	2.57	3.02	3.31	3.54	4.29	6.00	6.35	6.82	*7.65*	*8.95*	"Cash Flow" per sh	*11.10*
Earnings per sh [AB]			1.42	1.36	1.58	1.62	1.34	.98	1.69	2.12	2.32	2.53	2.70	4.19	4.66	5.03	*5.65*	*6.25*	Earnings per sh [AB]	*8.00*
Div'ds Decl'd per sh [C]			.06	.24	.28	.56	.60	.64	.72	.84	1.08	1.20	1.32	1.46	1.94	2.16	2.30	*2.50*	Div'ds Decl'd per sh [C]	*3.00*
Cap'l Spending per sh			.23	.29	.19	.33	.24	.27	.32	.34	.43	.49	.73	.66	.44	.54	*.75*	*.70*	Cap'l Spending per sh	*.80*
Book Value per sh [D]			3.81	5.31	6.53	6.25	6.45	6.82	6.86	8.05	7.85	8.84	8.62	9.41	9.86	11.70	*14.65*	*16.80*	Book Value per sh [D]	*23.95*
Common Shs Outst'g [E]			139.30	140.40	139.30	129.20	123.70	124.80	119.00	119.50	118.20	118.30	116.50	116.30	114.30	115.10	*116.00*	*116.00*	Common Shs Outst'g [E]	*117.00*
Avg Ann'l P/E Ratio			14.1	14.8	10.3	13.0	16.4	22.8	14.0	16.8	20.4	22.4	25.3	22.4	24.4	23.9	*26.0*		Avg Ann'l P/E Ratio	*26.0*
Relative P/E Ratio			.75	.89	.69	.83	1.03	1.45	.79	.88	1.03	1.18	1.27	1.21	1.30	1.22	*1.36*		Relative P/E Ratio	*1.45*
Avg Ann'l Div'd Yield			.3%	1.2%	1.7%	2.7%	2.7%	2.9%	3.0%	2.4%	2.3%	2.1%	1.9%	1.6%	1.7%	1.8%	1.6%		Avg Ann'l Div'd Yield	*1.4%*
Revenues ($mill)			2166.9	2303.5	2430.8	2558.0	2694.2	2897.0	4142.6	4329.9	4362.2	4529.0	*5000*	*5300*	Revenues ($mill)	*6200*				
Operating Margin			16.2%	16.5%	17.8%	20.3%	21.3%	18.0%	17.0%	18.8%	22.0%	19.2%	*20.0%*	*22.5%*	Operating Margin	*23.0%*				
Depreciation ($mill)			72.3	92.0	93.4	97.4	104.3	111.0	173.1	193.3	172.6	196.7	*220*	*300*	Depreciation ($mill)	*350*				
Net Profit ($mill)			171.8	125.0	212.1	263.0	287.1	307.5	326.8	504.1	553.5	588.5	*665*	*740*	Net Profit ($mill)	*950*				
Income Tax Rate			36.3%	37.8%	34.4%	33.5%	34.6%	34.4%	33.0%	21.9%	21.1%	20.8%	*19.0%*	*20.0%*	Income Tax Rate	*20.0%*				
Net Profit Margin			7.9%	5.4%	8.7%	10.3%	10.7%	10.6%	7.9%	11.6%	12.7%	13.0%	*13.3%*	*14.0%*	Net Profit Margin	*15.3%*				
Working Cap'l ($mill)			d31.3	367.1	337.5	396.2	352.5	596.1	244.7	213.8	239.7	d13.0	*520*	*600*	Working Cap'l ($mill)	*800*				
Long-Term Debt ($mill)			124.3	524.4	524.5	524.1	689.4	897.6	1102.1	1053.4	1470.4	1387.6	*1735*	*1735*	Long-Term Debt ($mill)	*1000*				
Shr. Equity ($mill)			797.3	850.5	816.0	961.7	927.8	1045.5	1003.8	1094.3	1127.5	1346.5	*1700*	*1950*	Shr. Equity ($mill)	*2800*				
Return on Total Cap'l			19.0%	9.6%	16.3%	18.5%	18.5%	16.6%	16.5%	24.4%	22.2%	22.6%	*19.5%*	*20.0%*	Return on Total Cap'l	*25.0%*				
Return on Shr. Equity			21.5%	14.7%	26.0%	27.3%	30.9%	29.4%	32.6%	46.1%	49.1%	43.7%	*39.0%*	*38.0%*	Return on Shr. Equity	*34.0%*				
Retained to Com Eq			12.2%	5.5%	15.5%	17.3%	17.8%	16.2%	17.4%	30.9%	30.4%	25.8%	*23.0%*	*22.5%*	Retained to Com Eq	*21.0%*				
All Div'ds to Net Prof			44%	62%	40%	37%	43%	45%	47%	33%	38%	41%	*41%*	*40%*	All Div'ds to Net Prof	*38%*				

LEGENDS
19.0 x "Cash Flow" p sh
Relative Price Strength
Options: Yes
Shaded area indicates recession

Target Price Range 2024 2025 2026

% TOT. RETURN 7/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	31.2	55.5
3 yr.	61.7	48.6
5 yr.	179.3	95.5

CAPITAL STRUCTURE as of 3/31/21
Total Debt $1737.7 mill. **Due in 5 Yrs** $509 mill.
LT Debt $1737.7 mill. **LT Interest** $90.0 mill.

(Total interest coverage: 16.1x)
(52% of Cap'l)

Leases, Uncapitalized Annual rentals $44.5 mill.
Pfd Stock None

Common Stock 116,125,688 shs.
as of 4/29/21

MARKET CAP: $20.1 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	273.2	476.6	355.8
Receivables	664.0	711.3	871.0
Inventories	- -	- -	- -
Other	105.1	140.1	151.8
Current Assets	1042.3	1328.0	1378.6
Accts Payable	711.7	829.9	876.1
Debt Due	- -	399.9	- -
Other	90.9	111.2	126.5
Current Liab.	802.6	1341.0	1002.6

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	9.0%	12.0%	*4.5%*
"Cash Flow"	12.5%	16.5%	*7.5%*
Earnings	12.0%	18.0%	*8.5%*
Dividends	18.0%	16.0%	*7.5%*
Book Value	5.5%	6.5%	*13.0%*

Fiscal Year Ends	QUARTERLY REVENUES ($ mill.) [A] Sep.30	Dec.31	Mar.31	Jun.30	Full Fiscal Year
2018	924.8	1012.8	1071.9	1320.4	4329.9
2019	972.8	953.4	1224.8	1211.2	4362.2
2020	948.6	968.6	1249.9	1361.9	4529.0
2021	1017.4	1054.9	1389.8	*1537.9*	*5000*
2022	*1115*	*1160*	*1480*	*1545*	*5300*

Fiscal Year Ends	EARNINGS PER SHARE [AB] Sep.30	Dec.31	Mar.31	Jun.30	Full Fiscal Year
2018	.54	.79	1.00	1.86	4.19
2019	.79	.56	1.59	1.72	4.66
2020	.68	.53	1.67	2.15	5.03
2021	.98	.73	1.76	*2.18*	*5.65*
2022	*.95*	*.95*	*2.00*	*2.35*	*6.25*

Cal-endar	QUARTERLY DIVIDENDS PAID [C] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.33	.33	.365	.365	1.43
2018	.365	.365	.485	.485	1.70
2019	.485	.485	.540	.540	2.05
2020	.540	.540	.575	.575	2.23
2021	.575	.575			

BUSINESS: Broadridge Financial Solutions, Inc. is a leading provider of investor communication services, as well as technology-related solutions for the financial services industry. The bulk of its customers are in the United States, Canada, and the United Kingdom. On behalf of its clients, Broadridge processes and distributes proxy materials, regulatory reports, sales & educational content, newsletters, trade confirmations, and account statements. Incorporated: DE. Has about 11,000 employees. President & CEO: Timothy Gokey. Officers/directors own 2.0% of the common stock; Vanguard, 12.5%; BlackRock Inc., 9.0%; Janus, 5.5%. (10/20 proxy). Address: 1981 Marcus Avenue, Lake Success, NY 11042. Telephone: (516) 472-5400. Internet: www.broadridge.com

Broadridge Financial Solutions likely closed out fiscal 2021 in solid shape (ended June 30th). Based on its strong performance recently, management raised its top- and bottom-line guidance for the year. It now expects recurring and total revenue to grow 8%-10% (up from the prior range of 3% to 6%) and adjusted earnings-per-share growth of 11%-13% (6%-10%). The pandemic has been accelerating a lot of investment from Broadridge's clients, and remote working has not proven to be a material headwind. Virtual shareholder meetings will likely remain strong, due to the lingering impact of the pandemic. Too, the company should continue benefiting from strong equity stock record growth, which is expected to be 25% this year, a level not seen in over two decades. A lot of this is being driven by what Broadridge calls "democratization" of investing, or increased accessibility to trading platforms. The fourth quarter is historically the largest in terms of revenue, and the timing of large deals adds a degree of uncertainty.

The integration of Itiviti is coming along. The new division is the leading global provider of order management and trade execution technology (around 60% of revenue), as well as *FIX*, a financial information exchange network providing order routing that connects 1,700 buy-and-sell-side institutions. It has around $250 million in annual revenues, most of which are subscription based and highly predictable. The business is gaining share from in-house solutions, and this should accelerate as cross-selling opportunities arise postmerger. Itiviti's front-office solutions complement Broadridge's back-office focused product suite. The two entities' regional footprints and relative exposure to differing asset classes also fit well together. The combination is expected to be accretive to earnings per share starting next year and will likely benefit margins over time.

These neutrally ranked shares do not stand out at this time. The company is executing well and is in a good position to continue capitalizing on the digitization of proxy and other shareholder materials. Still, much of the positive expectations already appears reflected in the stock price.

Kevin Downing *August 20, 2021*

(A) Fiscal years end June 30th.
(B) Fully diluted earnings. Excludes discontinued ops: '12, ($0.01); '11, ($0.02); '10, ($0.26). Next earnings report due in mid-November.
May not sum due to rounding.
(C) Dividends historically paid early March, June, Sept., and December.
(D) Includes intangibles. In 2020: $2.3 bill. or $19.62/sh.
(E) In millions.

Company's Financial Strength	B++
Stock's Price Stability	95
Price Growth Persistence	95
Earnings Predictability	90

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CACI INT'L INC. NYSE-CACI

RECENT PRICE 267.89 | P/E RATIO 14.5 (Trailing: 16.4 Median: 16.0) | RELATIVE P/E RATIO 0.75 | DIV'D YLD Nil | VALUE LINE

TIMELINESS 3 Lowered 12/18/20
SAFETY 3 New 5/31/02
TECHNICAL 3 Raised 5/7/21
BETA .95 (1.00 = Market)

18-Month Target Price Range
Low-High **Midpoint (% to Mid)**
$195-$426 $311 (15%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	470	(+75%)	*15%*
Low	315	(+20%)	*4%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	169	181	169
to Sell	225	178	203
Hld's(000)	21451	21675	21258

	54.1	66.5	63.1	74.3	91.8	104.1	133.7	147.3	200.9	252.7	288.6	269.7
High:	40.0	46.4	41.3	50.0	67.0	72.2	78.1	112.1	133.0	139.2	156.2	215.2

LEGENDS
11.5 x "Cash Flow" p sh
Relative Price Strength
Options: Yes
Shaded area indicates recession

Target Price Range 2024 2025 2026

640 480 400 320 240 200 160 120 80 60

Percent shares traded 45 30 15

% TOT. RETURN 6/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	17.6	63.9
3 yr.	51.4	53.6
5 yr.	182.2	108.0

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
54.11	57.33	64.65	80.11	91.09	104.11	118.49	153.20	158.56	151.68	137.01	153.93	178.02	180.86	200.42	227.95	*255.25*	*264.25*	Revenues per sh [A]	*300.00*
3.91	3.86	3.92	4.33	4.74	5.27	6.63	9.07	8.86	8.53	7.95	8.53	9.62	10.93	14.13	17.22	*24.45*	*23.85*	"Cash Flow" per sh	*29.40*
2.79	2.72[E]	2.51	2.72	3.14	3.47	4.61	5.96	6.35	5.38	5.17	5.76	6.53	7.84	10.46	12.61	*18.20*	*17.10*	Earnings per sh [AB]	*21.75*
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*Nil*	*Nil*	Div'ds Decl'd per sh	*Nil*
.29	.31	.26	.45	.41	.74	.48	.74	.66	.65	.72	.86	1.77	1.68	1.93	2.88	*2.95*	*3.15*	Cap'l Spending per sh	*3.60*
20.41	24.34	27.15	30.38	33.14	38.78	43.37	47.16	51.89	57.74	61.20	66.08	73.32	85.28	95.31	106.05	*110.75*	*129.70*	Book Value per sh [C]	*195.90*
29.99	30.62	29.98	30.22	29.97	30.25	30.20	24.64	23.22	23.50	24.18	24.32	24.46	24.70	24.88	25.09	*23.70*	*23.90*	Common Shs Outst'g [D]	*24.50*
20.2	22.4	20.9	17.4	13.6	13.6	11.5	9.3	8.7	13.2	15.8	15.9	17.5	18.2	17.2	18.5	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*18.0*
1.08	1.21	1.11	1.05	.91	.87	.72	.59	.49	.69	.80	.83	.88	.98	.92	.95			Relative P/E Ratio	*1.00*
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			Avg Ann'l Div'd Yield	*Nil*
3577.8	3774.5	3682.0	3564.6	3313.5	3744.1	4354.6	4467.9	4986.3	5720.0	*6050*	*6315*	Revenues ($mill) [A]	*7350*
8.6%	9.4%	8.8%	9.0%	9.1%	8.8%	8.5%	9.2%	9.3%	9.9%	*11.0%*	*11.5%*	Operating Margin	*12.5%*
56.1	56.0	54.1	65.2	66.1	64.8	71.8	72.2	85.9	110.7	*125*	*135*	Depreciation ($mill)	*155*
144.2	167.5	151.7	135.3	126.2	142.8	163.7	197.9	265.6	321.5	*455*	*435*	Net Profit ($mill)	*565*
36.4%	39.0%	37.7%	38.0%	37.4%	36.1%	34.2%	33.7%	19.0%	20.0%	*9.0%*	*21.5%*	Income Tax Rate	*22.5%*
4.0%	4.4%	4.1%	3.8%	3.8%	3.8%	3.8%	4.4%	5.3%	5.6%	*7.5%*	*6.9%*	Net Profit Margin	*7.7%*
344.9	200.9	d14.5	313.3	276.8	356.6	353.2	392.2	339.8	316.7	*390*	*930*	Working Cap'l ($mill)	*2800*
402.4	532.0	300.8	1238.7	1029.3	1402.1	1177.6	1015.4	1618.1	1357.5	*1775*	*1775*	Long-Term Debt ($mill)	*1775*
1309.6	1162.0	1204.9	1356.9	1480.1	1607.2	1793.6	2106.8	2371.3	2661.2	*2625*	*3100*	Shr. Equity ($mill)	*4800*
9.1%	10.6%	10.9%	5.9%	5.7%	5.4%	6.3%	7.0%	7.3%	8.7%	*11.0%*	*9.5%*	Return on Total Cap'l	*9.0%*
11.0%	14.4%	12.6%	10.0%	8.5%	8.9%	9.1%	9.4%	11.2%	12.1%	*17.5%*	*14.0%*	Return on Shr. Equity	*12.0%*
11.0%	14.4%	12.6%	10.0%	8.5%	8.9%	9.1%	9.4%	11.2%	12.1%	*17.5%*	*14.0%*	Retained to Com Eq	*12.0%*
--	--	--	--	--	--	--	--	--	--	*Nil*	*Nil*	All Div'ds to Net Prof	*Nil*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $1822.0 mill. **Due in 5 Yrs** $1822 mill.
LT Debt $1775.1 mill. **LT Interest** $56.1 mill.
(Total interest coverage: 8.2x)
(41% of Cap'l)

Leases, Uncapitalized Annual rentals $78.3 mill.

No Defined Benefit Pension Plan

Common Stock 23,550,726 shs.
as of 4/14/21

MARKET CAP: $6.3 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	72.0	107.2	105.6
Receivables	869.8	841.2	860.7
Other	89.7	137.5	162.4
Current Assets	1031.5	1085.9	1128.7
Accts Payable	118.9	90.0	109.7
Debt Due	46.9	46.9	46.9
Other	525.9	632.3	686.3
Current Liab.	691.7	769.2	842.9

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	8.5%	6.5%	*6.5%*
"Cash Flow"	11.5%	11.0%	*13.0%*
Earnings	12.5%	13.0%	*13.5%*
Dividends	--	--	*Nil*
Book Value	11.0%	11.0%	*12.5%*

Fiscal Year Ends	QUARTERLY REVENUES ($ mill.) [A] Sep.30	Dec.31	Mar.31	Jun.30	Full Fiscal Year
2018	1085.8	1087.9	1124.1	1170.1	4467.9
2019	1165.9	1181.6	1265.0	1373.8	4986.3
2020	1363.4	1395.5	1465.6	1495.5	5720.0
2021	1459.5	1468.7	1551.9	***1569.9***	***6050***
2022	***1520***	***1530***	***1620***	***1645***	***6315***

Fiscal Year Ends	EARNINGS PER SHARE [A B] Sep.30	Dec.31	Mar.31	Jun.30	Full Fiscal Year
2018	1.67	2.00	2.33	1.84	7.84
2019	3.10	2.71	2.69	1.96	10.46
2020	2.66	3.11	3.16	3.68	12.61
2021	3.67	4.18	4.78	***5.57***	***18.20***
2022	***3.85***	***4.25***	***4.50***	***4.50***	***17.10***

Cal-endar	QUARTERLY DIVIDENDS PAID Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017					
2018	NO CASH DIVIDENDS BEING PAID				
2019					
2020					
2021					

BUSINESS: CACI International Inc is a provider of Expertise and Technology to Enterprise and Mission customers, on both a domestic and international basis, supporting national security missions and government modernization/transformation in the intelligence, defense, and federal civilian sectors. Fiscal 2020 revenue by customer type: Department of Defense (70%), Federal Civilian Agencies (26%) and Commercial and other (4%). Has about 22,900 employees. The Vanguard Group, Inc. owns 10.6% of common stock; Blackrock, Inc., 9.3%; Dimensional Fund Advisors LP, 5.1%; officers and directors, 1.6% (10/20 proxy). Pres. & CEO: John S. Mengucci. Inc.: DE. Addr.: 1100 North Glebe Rd., Arlington, VA 22201. Tel.: 703-841-7800. Internet: www.caci.com.

CACI International is scheduled to report its fiscal 2021 fourth-quarter (ended June 30th) results on August 11th. The provider of expertise and technology to government enterprise and mission customers has not provided any notable updates since our last review (dated May 7th). It has only announced a few contract awards, including a $373 million contract to provide geospatial intelligence expertise to U.S. Special Operations Command and an $82 million contract to provide cyber and ground electronic warfare expertise and technology to the U.S. Army, as well as a $1.4 billion task order with the Defense Threat Reduction Agency to counter and deter various threats. As of March 31st, trailing 12-month contract awards totaled $8.9 billion (book-to-bill of 1.5x), and the total backlog was $22.3 billion (+12% year over year and 3.6x annualized revenue). At that time, CACI's pipeline of submitted bids was $6.8 billion (70% for new business), and bids expected to be submitted in the next two quarters totaled $13.7 billion (80%).

Recall that the company had updated its fiscal 2021 guidance. Management trimmed its full-year revenue forecast to $6.00 billion-$6.08 billion (+6% year over year at the midpoint, including 5% organic growth) to account for higher-than-expected impacts from COVID-19, but raised its earnings-per-share target by a significant amount, to $18.00-$18.40 (+44% at the midpoint). The improved bottom-line outlook reflected its strong operating performance and tax item benefits. For the latter, CACI was looking for an effective tax rate of between 8% and 9% for the year just ended, versus 20% in fiscal 2020. This can be attributed to increased R&D tax credits and a material tax benefit realized in the fiscal fourth quarter. For fiscal 2022, we expect the tax rate will return to more historical levels. Thus, our share-net estimate of $17.10 implies a 6% decrease from our current-year call, despite our expectation for mid-single-digit revenue growth and continued margin expansion.

Overall, we continue to like these shares, as they offer above-average capital appreciation potential over the haul to 2024-2026.

Michelle Jensen *August 6, 2021*

(A) Fiscal year ends June 30th.
(B) Diluted earnings. Includes stock option expense starting in 2006. Excludes a nonrecurring gain of $4.09 in '18. May not sum to total due to rounding. Q1, FY'22 earnings report due early November.
(C) Includes intangibles. At 6/30/20: $3.8 billion, or $151.99/share.
(D) In millions.
(E) Stock option expense reduced F'06 profits by $0.22 a share.

Company's Financial Strength	B+
Stock's Price Stability	85
Price Growth Persistence	75
Earnings Predictability	85

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CERNER CORP. NDQ-CERN

RECENT PRICE 77.00 | P/E RATIO 23.7 (Trailing: 26.6 Median: 29.0) | RELATIVE P/E RATIO 1.11 | DIV'D YLD 1.1% | VALUE LINE

TIMELINESS 3 Lowered 9/18/20
SAFETY 2 Raised 3/13/15
TECHNICAL 4 Lowered 4/9/21
BETA .90 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$58-$113	$86 (10%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	125	(+60%)	*14%*
Low	90	(+15%)	*6%*

Institutional Decisions

	2Q2020	3Q2020	4Q2020
to Buy	344	321	358
to Sell	355	348	342
Hld's(000)	256152	256401	255476

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
3.70	4.39	4.74	5.08	5.06	5.56	6.50	7.74	8.47	9.94	13.02	14.55	15.47	16.55	18.31	18.00	*20.00*	*21.95*	Revenues per sh	*26.25*
.64	.72	.87	1.06	1.16	1.29	1.53	1.80	2.12	2.57	3.24	3.65	3.90	4.19	4.71	4.97	*5.65*	*6.25*	"Cash Flow" per sh	*7.50*
.27	.31	.38	.52	.58	.70	.88	1.13	1.32	1.65	2.11	2.30	2.38	2.45	2.69	2.84	*3.25*	*3.65*	Earnings per sh B	*4.50*
--	--	--	--	--	--	--	--	--	--	--	--	--	--	.36	.72	*.88*	*1.00*	Div'ds Decl'd per sh E	*1.44*
.32	.42	.56	.33	.40	.31	.31	.53	1.03	.81	1.07	1.39	1.09	1.38	1.52	.93	*1.25*	*1.25*	Cap'l Spending per sh	*1.25*
2.42	2.93	3.53	4.04	4.79	5.72	6.81	8.23	9.21	10.42	11.38	11.92	14.39	15.20	13.89	14.66	*13.80*	*13.85*	Book Value per sh	*19.00*
314.06	313.57	320.59	324.17	330.26	332.96	339.13	344.18	343.82	342.33	339.96	329.64	332.46	324.31	310.91	305.85	*290.00*	*280.00*	Common Shs Outst'g D	*270.00*
32.1	35.1	36.2	21.1	25.7	30.0	33.5	33.1	37.3	34.8	31.5	24.6	26.6	25.0	24.6	25.1	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*24.0*
1.71	1.90	1.92	1.27	1.71	1.91	2.10	2.11	2.10	1.83	1.59	1.29	1.34	1.35	1.31	1.29			Relative P/E Ratio	*1.35*
--	--	--	--	--	--	--	--	--	--	--	--	--	--	.5%	1.0%			Avg Ann'l Div'd Yield	*1.3%*
2203.2	2665.4	2910.7	3402.7	4425.3	4796.5	5142.3	5366.3	5692.6	5505.8	*5800*	*6150*	Revenues ($mill)	*7100*
30.5%	29.8%	32.5%	33.6%	32.4%	31.9%	31.6%	28.9%	29.1%	31.6%	*32.5%*	*33.0%*	Operating Margin	*33.0%*
212.6	222.6	263.5	302.4	360.7	413.7	491.8	540.2	603.0	641.8	*650*	*675*	Depreciation ($mill)	*700*
306.6	397.2	466.4	576.4	740.8	790.4	805.0	818.5	862.1	878.9	*985*	*1070*	Net Profit ($mill)	*1300*
34.7%	32.4%	32.8%	32.4%	31.1%	30.2%	30.4%	21.1%	19.9%	20.0%	*21.0%*	*21.0%*	Income Tax Rate	*21.0%*
13.9%	14.9%	16.0%	16.9%	16.7%	16.5%	15.7%	15.3%	15.1%	16.0%	*17.0%*	*17.4%*	Net Profit Margin	*18.3%*
1063.6	1210.4	1121.3	1714.5	1049.9	774.0	1590.6	1356.1	1069.1	1482.4	*1450*	*1500*	Working Cap'l ($mill)	*1500*
86.8	136.6	111.7	62.9	563.4	537.6	515.1	438.8	1038.4	1336.1	*1600*	*2000*	Long-Term Debt ($mill)	*2000*
2310.7	2833.7	3167.7	3566.0	3870.4	3927.9	4785.3	4928.4	4317.3	4482.6	*4000*	*3875*	Shr. Equity ($mill)	*5125*
12.9%	13.5%	14.3%	15.9%	16.9%	17.8%	15.3%	15.3%	16.2%	15.4%	*18.0%*	*18.5%*	Return on Total Cap'l	*18.0%*
13.3%	14.0%	14.7%	16.2%	19.1%	20.1%	16.8%	16.6%	20.0%	19.6%	*24.5%*	*27.5%*	Return on Shr. Equity	*25.5%*
13.3%	14.0%	14.7%	16.2%	19.1%	20.1%	16.8%	16.6%	17.3%	14.7%	*18.0%*	*20.0%*	Retained to Com Eq	*18.0%*
--	--	--	--	--	--	--	--	13%	25%	*27%*	*27%*	All Div'ds to Net Prof	*30%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $1836.1 mill. **Due in 5 Yrs** $1125.0 mill.
LT Debt $1611.1 mill. **LT Interest** $45.5 mill. (27% of Cap'l)

Leases, Uncap'l Annual rentals $33.6 mill.
No Defined Benefit Pension Plan
Pfd Stock None

Common Stock 301,317,068 shs. as 4/30/20
MARKET CAP: $23.2 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	541.8	1058.1	1474.2
Receivables	1139.6	1168.7	1175.1
Inventory (FIFO)	23.2	23.0	30.4
Other	392.0	401.2	375.5
Current Assets	2096.6	2651.0	3055.2
Accts Payable	273.4	235.8	279.3
Debt Due	--	--	225.0
Deferred Revenue	360.0	393.3	407.7
Other	394.0	539.5	551.1
Current Liab.	1027.4	1168.6	1463.1

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	13.0%	11.0%	*7.0%*
"Cash Flow"	14.5%	12.0%	*8.5%*
Earnings	16.0%	9.5%	*9.0%*
Dividends	--	--	*26.0%*
Book Value	11.5%	7.0%	*4.5%*

Calendar	QUARTERLY REVENUES ($ mill.) A Mar.Per	Jun.Per	Sep.Per	Dec.Per	Full Year
2018	1292.9	1367.7	1340.0	1365.7	5366.3
2019	1389.9	1431.1	1429.4	1442.2	5692.6
2020	1411.7	1330.4	1368.7	1395.0	5505.8
2021	1387.8	*1450*	*1475*	*1487.2*	*5800*
2022	*1500*	*1525*	*1550*	*1575*	*6150*

Calendar	EARNINGS PER SHARE ABC Mar.Per	Jun.Per	Sep.Per	Dec.Per	Full Year
2018	.58	.62	.63	.63	2.45
2019	.61	.66	.66	.75	2.69
2020	.71	.63	.72	.78	2.84
2021	.76	*.77*	*.83*	*.89*	*3.25*
2022	*.85*	*.88*	*.92*	*1.00*	*3.65*

Calendar	QUARTERLY DIVIDENDS PAID E Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	--	--	--	--	--
2018	--	--	--	--	--
2019	--	--	.18	.18	.36
2020	.18	.18	.18	.18	.72
2021	.22	.22			

BUSINESS: Cerner Corp. is a leading supplier of healthcare information technology (HCIT) solutions and tech-enabled services. Cerner's solutions are offered on the unified *Cerner Millennium* architecture and on the *HealtheIntent* cloud-based platform. Tech-enabled services include implementation and training, remote hosting, healthcare data analysis, and clincial process optimization. R&D expense: 13.2% of '20 revenues. Revenue backlog: $13.1 billion (3/31/21). Employed about 26,400 (12/20). Stock owners: The Vanguard Group, 10.8%; BlackRock, Inc., 8.3%; BONY Mellon, 5.3% (4/21 proxy). Chairman & CEO: Brent Shafer; CFO: Mark Erceg. Inc.: DE. Address: 2800 Rockcreek Pkwy., North Kansas City, MO 64117. Telephone: (816) 201-1024. Internet: www.cerner.com.

Cerner's financial report for the first quarter was respectable. Revenues advanced 2.0% in the March period, after taking into account divestitures made in 2020. Although this is nothing to write home about, lingering effects from the pandemic are still holding top-line growth in check. We expect COVID-19 to become much less of a factor as 2021 unfolds, given the broad distribution of vaccines and the reopening of the U.S. economy. Meanwhile, Cerner's adjusted operating margin came in a little better than we had anticipated (21.4%), benefiting from the company's ongoing efficiency program. The wider margin, coupled with recent share-repurchase activity, pushed earnings to $0.76 a share, $0.02 above our estimate. Finally, bookings came in at $1.23 billion, an increase of nearly 13%.

We have made some adjustments to our estimates for 2021. Although the implementation of an electronic health record (EHR) at Veterans Affairs is moving forward smoothly, the agency will be conducting a review of the process in coming months. Work on the EHR will continue, but the review seems set to shave about 1% off of revenues this year, and we have reduced our top-line target $50 million. Even with the reduction, revenues should advance around 5% this year. Meanwhile, Cerner is placing increasing emphasis on operational efficiency and is taking a hard look at its range of products and services in order to ensure they are meaningful contributors to profitability. Accordingly, we still look for the company's operating margin to expand nicely this year. Add in the support likely to be realized from an active buyback program, and we have increased our earnings call $0.10 a share.

Cerner has begun a search for a new chief executive. Current CEO Brent Shafer has done a good job getting Cerner headed in the right direction, particularly as it relates to moving into the broad arena of data-as-a-service aimed at clinical and life science markets. Still, Mr. Shafer and the board agreed the time was right for a new CEO to lead Cerner to speed the operational improvement process forward.

At the recent price, Cerner shares should provide patient investors with a worthwhile total return.

Charles Clark *June 4, 2021*

(A) 2020 forward, years end at calendar year end; prior to 2020, fiscal years ended on the Saturday closest to December 31st.
(B) Diluted earnings; non-GAAP EPS from 2014. Excl. items: '05, 1¢; '06, 5¢;'08, 10¢; '13, d19¢; '14, d15¢; '15, d57¢; '16, d45¢; '17, 19¢; '18, d56¢; '19, d$1.03; '20, d32¢. Next earnings report due late July.
(C) Quarters may not sum to annual figure, due to rounding or to changes in diluted shares outstanding. **(D)** In millions, adjusted for stock splits. **(E)** Initial dividend declared 5/30/19.

Company's Financial Strength	A+
Stock's Price Stability	95
Price Growth Persistence	60
Earnings Predictability	100

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CHEMED CORP. NYSE-CHE

RECENT PRICE 485.28 | P/E RATIO 27.3 (Trailing: 25.8 Median: 21.0) | RELATIVE P/E RATIO 1.33 | DIV'D YLD 0.3% | VALUE LINE

TIMELINESS 2 Raised 7/2/21
SAFETY 2 Raised 10/11/19
TECHNICAL 2 Raised 6/25/21
BETA .85 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$383-$777 $580 (20%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	650	(+35%)	8%
Low	480	(Nil)	Nil

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	191	210	197
to Sell	204	198	211
Hld's(000)	14047	14246	14217

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
35.31	39.44	45.91	51.26	52.23	60.18	71.15	77.17	80.37	86.22	91.88	97.42	103.92	112.31	121.59	130.73	*131.25*	*138.15*	Revenues per sh	*180.00*
2.77	3.09	4.24	4.40	4.47	5.21	6.06	6.47	6.23	7.84	8.56	8.86	11.02	15.07	17.29	22.19	*21.45*	*22.80*	"Cash Flow" per sh	*29.35*
1.95	2.16	3.04	3.05	3.24	3.55	4.10	4.62	4.16	5.57	6.33	6.48	8.43	11.93	13.95	18.08	*17.75*	*19.00*	Earnings per sh A	*24.50*
.24	.24	.24	.24	.36	.52	.60	.68	.76	.84	.92	1.00	1.08	1.16	1.24	1.32	*1.40*	*1.50*	Div'ds Decl'd per sh B■	*2.00*
.99	.85	1.11	1.16	.94	1.21	1.55	1.92	1.67	2.58	2.63	2.46	4.01	3.33	3.33	3.70	*3.75*	*4.10*	Cap'l Spending per sh	*5.25*
14.64	16.32	15.21	16.58	20.94	21.71	21.71	24.46	25.53	26.72	30.55	32.38	33.69	37.25	45.58	56.65	*60.65*	*68.75*	Book Value per sh	*91.35*
26.24	25.83	23.96	22.41	22.79	21.28	19.06	18.53	17.58	16.89	16.80	16.19	16.04	15.87	15.94	15.91	*16.00*	*16.00*	Common Shs Outst'g C	*15.00*
21.1	21.4	18.4	13.7	13.0	15.6	14.9	13.6	17.7	17.0	20.7	21.4	23.5	25.1	26.5	25.9	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*23.0*
1.12	1.16	.98	.82	.87	.99	.93	.87	.99	.89	1.04	1.12	1.18	1.36	1.41	1.34			Relative P/E Ratio	*1.30*
.6%	.5%	.4%	.6%	.9%	.9%	1.0%	1.1%	1.0%	.9%	.7%	.7%	.5%	.4%	.3%	.3%			Avg Ann'l Div'd Yield	*.4%*
1356.0	1430.0	1413.3	1456.3	1543.4	1576.9	1666.7	1782.6	1938.6	2079.6	*2100*	*2210*	Revenues ($mill)	*2700*
13.5%	13.1%	11.7%	13.8%	14.1%	13.8%	15.2%	17.1%	17.9%	22.1%	*21.0%*	*22.3%*	Operating Margin	*24.0%*
29.5	30.5	32.4	33.1	33.5	34.6	35.6	38.9	45.2	56.6	*58.0*	*60.0*	Depreciation ($mill)	*70.0*
86.0	89.3	77.2	99.3	110.3	108.7	141.1	200.4	230.5	296.4	*285*	*305*	Net Profit ($mill)	*370*
38.8%	38.8%	37.6%	39.0%	38.8%	38.6%	24.6%	22.8%	24.6%	25.2%	*25.0%*	*25.0%*	Income Tax Rate	*25.0%*
6.3%	6.2%	5.5%	6.8%	7.1%	6.9%	8.5%	11.2%	11.9%	14.3%	*13.6%*	*13.8%*	Net Profit Margin	*13.7%*
5.4	50.9	d139.3	d1.0	d20.5	d1.9	d17.4	d31.9	d71.5	30.3	*50.0*	*80.0*	Working Cap'l ($mill)	*125*
166.8	174.9	--	141.3	83.8	100.0	91.2	89.2	90.0	90.0	*Nil*	*Nil*	Long-Term Debt ($mill)	*Nil*
413.7	453.3	448.9	451.4	513.3	524.1	540.4	591.3	726.6	901.2	*970*	*1100*	Shr. Equity ($mill)	*1370*
16.0%	15.4%	17.2%	17.5%	18.8%	17.7%	22.7%	29.7%	28.5%	33.0%	*29.5%*	*28.0%*	Return on Total Cap'l	*27.0%*
20.8%	19.7%	17.2%	22.0%	21.5%	20.7%	26.1%	33.9%	31.7%	32.9%	*29.5%*	*28.0%*	Return on Shr. Equity	*27.0%*
17.8%	16.8%	14.1%	18.8%	18.4%	17.6%	22.9%	30.7%	29.0%	30.6%	*27.0%*	*25.5%*	Retained to Com Eq	*25.0%*
15%	15%	18%	14%	14%	15%	12%	9%	9%	7%	*8%*	*8%*	All Div'ds to Net Prof	*8%*

CAPITAL STRUCTURE as of 3/31/21

Total Debt None

Leases, Uncapitalized Annual rentals $43.4 mill.
No Defined Benefit Pension Plan

Pfd Stock None

Common Stock 15,950,435 shares

MARKET CAP: $7.7 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	6.2	162.7	210.2
Receivables	143.8	126.8	104.7
Inventory (LIFO)	7.5	7.1	6.8
Other	33.2	32.8	35.3
Current Assets	190.7	329.4	347.0
Accts Payable	51.1	54.2	55.4
Debt Due	--	--	--
Other	211.1	244.9	234.8
Current Liab.	262.2	299.1	290.2

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	8.5%	7.0%	*7.0%*
"Cash Flow"	14.5%	19.0%	*8.5%*
Earnings	16.0%	22.5%	*9.0%*
Dividends	13.0%	8.0%	*8.5%*
Book Value	9.0%	11.0%	*12.0%*

Calendar	QUARTERLY REVENUES ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	439.2	441.8	444.1	457.5	1782.6
2019	462.1	473.6	480.6	522.3	1938.6
2020	515.8	502.2	528.3	533.3	2079.6
2021	527.4	*510*	*525*	*537.6*	*2100*
2022	*550*	*540*	*555*	*565*	*2210*

Calendar	EARNINGS PER SHARE A Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	2.72	2.81	3.07	3.35	11.93
2019	2.92	3.36	3.46	4.22	13.95
2020	3.68	4.41	4.86	5.13	18.08
2021	4.44	*4.30*	*4.40*	*4.61*	*17.75*
2022	*4.75*	*4.60*	*4.70*	*4.95*	*19.00*

Calendar	QUARTERLY DIVIDENDS PAID B■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.26	.26	.28	.28	1.08
2018	.28	.28	.30	.30	1.16
2019	.30	.30	.32	.32	1.24
2020	.32	.32	.34	.34	1.32
2021	.34	.34			

BUSINESS: Chemed Corporation operates two wholly owned subsidiaries: VITAS Healthcare Corp. (64% of '20 sales) and Roto-Rooter (36%). VITAS provides end-of-life care in about 170 locations in 16 states and the District of Columbia. Over 95% of sales are derived from Medicare/Medicaid. Roto-Rooter, through more than 100 company-owned and 400 independent franchise operations, provides plumbing, drain cleaning, and water restoration services. Sold Service America, 12/04. Has 15,500 employees. Offs. & dirs. own 3.7% of stock; Vanguard, 11.4%; BlackRock, 9.2% (4/21 proxy). Chrmn.: George J. Walsh III. Pres. and CEO: Kevin J. McNamara. Inc.: DE. Addr.: 255 East Fifth Street, Suite 2600, Cincinnati, OH 45202. Tel.: 513-762-6690. Internet: www.chemed.com.

Chemed's first-quarter showing beat our expectations. Revenues for the three-month window edged 2% higher, whereas both we and Wall Street were looking for a slight contraction. On the earnings front, EPS of $4.44 was well ahead of even the most bullish estimate. At the time of the release in late April, management was still not ready to provide guidance for 2021 as a whole, but it did intimate that it planned to do so after second-quarter financials are announced later this month. Still, for now we are leaving our $2.1 billion top-line call intact, while adding $0.45 to our earnings-per-share full-year figure to reflect the outperformance of the March period.

Subscribers will recall, the company is the combination of two very different subsidiaries. Chemed is made up of VITAS Healthcare, which deals with end-of-life services, and Roto-Rooter, a plumbing entity. VITAS generates almost all of its sales through Medicare and Medicaid and therefore its results are directly impacted by reimbursement rates and billing caps. That said, the coronavirus pandemic has fundamentally changed the healthcare world, with nursing homes getting a negative stigma, so opportunities for VITAS to increase its business are evident. Separately, Roto has dealt with moderate declines on the plumbing and draining side of the coin, though the water restoration business has been a bright spot.

For 2020, we are now forecasting all-time high share net of $19.00. We think revenues can climb past the $2.2 billion mark for the year. This would entail VITAS recovering to pre-pandemic levels of occupancy, a feat that looks possible, given vaccine rollout levels and subsequent reopenings. Too, Roto-Rooter should see appointments ratchet up as lockdowns end.

Chemed's good-quality (Safety: 2) stock is ranked favorably for Timeliness. Our Ranking Scale favors this selection in the year ahead for relative price performance. Conversely, capital appreciation potential for the stretch to 2024-2026 is below average, and the yield on these shares is subpar given the elevated divisor (lofty quotation).

Erik M. Manning *July 9, 2021*

(A) Diluted earnings. Excl. nonrecurring & disc. ops.: '06, (21¢); '07, (54¢); '08, 1¢; '17, ($2.57); '18, 30¢; '19, (64¢); '20, $1.40. Includes capital gains (losses): '05, (59¢); '06, (26¢); '07, ($3.49). Quarterly figures may not sum to total due to rounding. Next earnings report due late July.
(B) Div'ds historically paid in early March, June, Sept. & Dec. ■ Div'd reinvest. plan avail.
(C) In millions.

Company's Financial Strength	A
Stock's Price Stability	95
Price Growth Persistence	95
Earnings Predictability	95

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COOPER COS. NYSE-COO

RECENT PRICE 423.61 | P/E RATIO 42.7 (Trailing: 8.9 Median: 28.0) | RELATIVE P/E RATIO 2.22 | DIV'D YLD Nil | VALUE LINE

TIMELINESS 3 Lowered 5/7/21
SAFETY 2 Raised 2/20/15
TECHNICAL 4 Lowered 7/23/21
BETA .95 (1.00 = Market)

18-Month Target Price Range
Low-High **Midpoint (% to Mid)**
$322-$661 $492 (15%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	450	(+5%)	*2%*
Low	330	(-20%)	*-6%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	249	234	250
to Sell	223	226	236
Hld's(000)	47349	47012	47759

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
High:	59.1	84.2	100.9	135.4	171.5	190.0	191.0	256.4	283.2	344.3	371.6	425.0						
Low:	34.3	52.6	68.0	93.5	116.9	121.0	119.3	174.0	216.5	241.7	236.7	353.0						

LEGENDS
18.0 x "Cash Flow" p sh
Relative Price Strength
Options: Yes
Shaded area indicates recession

Target Price Range 2024 2025 2026

% TOT. RETURN 7/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	49.1	55.5
3 yr.	62.0	48.6
5 yr.	131.4	95.5

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
	17.97	19.10	21.01	23.38	23.88	25.28	27.82	29.83	31.54	33.69	34.86	40.32	43.83	51.48	54.04	49.51	*58.40*	*63.90*	Sales per sh [A]	*78.70*
	3.13	2.84	1.62	3.25	4.27	4.98	6.59	7.42	8.36	8.00	7.66	9.68	11.50	13.04	15.23	10.70	*56.25*	*16.90*	"Cash Flow" per sh	*21.70*
	2.04	1.44	d.25	1.43	2.21	2.89	4.50	5.05	5.95	5.51	4.14	5.59	7.52	6.97	9.33	4.81	*50.10*	*10.60*	Earnings per sh [B]	*15.00*
	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	*.06*	*.06*	Div'ds Decl'd per sh [E]	*.06*
	2.61	3.44	4.06	2.75	2.08	1.61	2.17	2.06	3.54	4.67	4.71	3.13	2.61	3.94	5.95	6.32	*6.70*	*5.70*	Cap'l Spending per sh	*4.25*
	28.36	30.66	31.46	31.16	34.05	36.37	40.49	45.69	48.15	50.41	51.74	55.34	65.08	67.23	73.90	77.89	*92.00*	*98.95*	Book Value per sh [D]	*118.10*
	44.90	44.97	45.25	45.48	45.24	45.83	47.85	48.44	50.34	50.98	51.56	48.79	48.80	49.20	49.10	49.10	*48.90*	*48.50*	Common Shs Outst'g [C]	*47.00*
	34.5	36.3	- -	25.3	10.7	13.5	15.1	15.6	18.9	25.2	40.5	28.4	28.1	34.4	31.4	NMF	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*26.0*
	1.84	1.96	- -	1.52	.71	.86	.95	.99	1.06	1.33	2.04	1.49	1.41	1.86	1.67	NMF			Relative P/E Ratio	*1.45*
	.1%	.1%	.1%	.2%	.3%	.2%	.1%	.1%	.1%	NMF	NMF	NMF	NMF	NMF	NMF	NMF			Avg Ann'l Div'd Yield	*NMF*
	1330.8	1445.1	1587.7	1717.8	1797.1	1966.8	2139.0	2532.8	2653.4	2430.9	*2855*	*3100*	Sales ($mill) [A]	*3700*
	26.9%	27.3%	28.5%	28.0%	23.8%	26.6%	28.9%	28.6%	30.5%	24.6%	*NMF*	*32.0%*	Operating Margin	*34.5%*
	98.1	111.2	125.3	138.2	191.4	198.3	188.4	299.5	281.2	287.1	*300*	*305*	Depreciation ($mill)	*315*
	217.4	248.3	295.5	269.9	203.5	273.9	372.9	341.9	466.7	238.4	*2450*	*515*	Net Profit ($mill)	*705*
	10.1%	9.7%	7.4%	8.3%	4.8%	7.0%	5.4%	- -	2.2%	10.5%	*18.0%*	*18.0%*	Income Tax Rate	*18.0%*
	16.3%	17.2%	18.6%	15.7%	11.3%	13.9%	17.4%	13.5%	17.6%	9.8%	*85.8%*	*16.6%*	Net Profit Margin	*19.1%*
	273.2	395.3	425.9	349.4	272.6	398.0	557.1	554.4	52.8	269.8	*155*	*500*	Working Cap'l ($mill)	*1050*
	327.5	348.4	301.7	1280.8	1105.8	1107.4	1149.3	1985.7	1262.6	1383.9	*2100*	*2150*	Long-Term Debt ($mill)	*2500*
	1937.5	2213.2	2423.5	2569.9	2667.5	2699.9	3175.7	3307.6	3628.4	3824.6	*4500*	*4800*	Shr. Equity ($mill)	*5550*
	10.0%	9.9%	11.0%	7.1%	5.6%	7.5%	9.0%	7.2%	10.2%	4.9%	*37.5%*	*8.0%*	Return on Total Cap'l	*9.0%*
	11.2%	11.2%	12.2%	10.5%	7.6%	10.1%	11.7%	10.3%	12.9%	6.2%	*54.5%*	*10.5%*	Return on Shr. Equity	*12.5%*
	11.1%	11.1%	12.1%	10.4%	7.5%	10.0%	11.7%	10.2%	12.8%	6.2%	*54.5%*	*10.5%*	Retained to Com Eq	*12.5%*
	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	*1%*	*1%*	All Div'ds to Net Prof	*NMF*

CAPITAL STRUCTURE as of 4/30/21
Total Debt $1737.5 mil. **Due in 5 Yrs** $1737.5 mil.
LT Debt $1324.9 mil. **LT Interest** $81.2 mil.

(33% of Cap'l)

Leases, Operating $37.5 million

Pension Assets-10/20 $136.0 mil.
Oblig.$189.7 mil.
Common Stock 49,247,946 shs.
as of 5/28/21

MARKET CAP: $20.9 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	4/30/21
Cash Assets	89.0	115.9	105.9
Receivables	435.3	435.4	490.1
Inventory	506.9	570.4	582.0
Other	132.2	152.5	144.6
Current Assets	1163.4	1274.2	1322.6
Accts Payable	150.1	176.0	141.6
Debt Due	563.7	409.3	412.6
Other	396.8	419.1	438.5
Current Liab.	1110.6	1004.4	992.7

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	8.0%	9.0%	*8.0%*
"Cash Flow"	12.0%	10.0%	*11.0%*
Earnings	12.5%	6.0%	*14.5%*
Dividends	- -	- -	*Nil*
Book Value	8.0%	8.0%	*11.0%*

Fiscal Year Ends	QUARTERLY SALES ($ mill.) [A] Jan.31	Apr.30	Jul.31	Oct.31	Full Fiscal Year
2018	590.0	631.3	660.0	651.5	2532.8
2019	628.1	654.3	679.4	691.6	2653.4
2020	646.2	524.9	578.2	681.6	2430.9
2021	680.5	719.5	*725*	*730*	*2855*
2022	*750*	*750*	*800*	*800*	*3100*

Fiscal Year Ends	EARNINGS PER SHARE [A B] Jan.31	Apr.30	Jul.31	Oct.31	Full Fiscal Year
2018	1.69	1.23	2.03	2.02	6.97
2019	2.07	2.45	2.40	2.41	9.33
2020	1.82	.23	1.12	1.64	4.81
2021	42.31	2.36	*2.60*	*2.83*	*50.10*
2022	*2.10*	*2.40*	*3.00*	*3.10*	*10.60*

Cal-endar	QUARTERLY DIVIDENDS PAID [E] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.03	- -	.03	- -	.06
2018	.03	- -	.03	- -	.06
2019	.03	- -	.03	- -	.06
2020	.03	- -	.03	- -	.06
2021	.03	- -	.03		

BUSINESS: The Cooper Companies has two operating segments. CooperVision (75% of 2020 revenues) manufactures and markets soft contact lenses for the worldwide vision correction market. Specializes in lenses for astigmatism, presbyopia, and ocular dryness. Cooper Surgical (25%) develops and markets medical devices, diagnostic products, and surgical instruments and accessories used primarily by gynecologists and obstetricians. Purchased PARAGARD, 11/17; Sauflon Pharm., 8/14; Ocular Sci., 1/05. Employs 11,800. Off./dir. own 1.7% of stock; T. Rowe Price, 10.6%; Vanguard, 11.4% (2/21 Proxy). Chair.: A.T. Bernder; CEO & Pres.: A. White. Inc.: DE. Addr.: 6140 Stoneridge Mall Rd., Pleasanton, CA 94588. Tel.: 949-597-4700. Internet: www.coopercos.com.

The Cooper Companies reported solid 2021 second-quarter results (ended April 30th). To kick things off, the global medical device maker reported a top-line increase of 37% year over year, to $719.5 million. The advance reflected a 30% increase at the CooperVision unit and a 60% uptick at the CooperSurgical division. These segments reported sales of $522.6 million and $196.9 million, respectively. Meanwhile, share net came in at $2.36, which was above our estimate, and was substantially higher than the $0.23 logged in the previous-year period.

We are anticipating third-quarter results to be a cut above the April stanza. Despite seeing substantial strides in the rollout of COVID-19 vaccines, the majority of the population is still working from home or learning online. The increased screen time has proven to impact eye health and directly cause myopia, or nearsightedness. The robust end market in myopia will likely improve the company's Vision segment in the coming two quarters, owing to its command in the market and key expertise. Hence, our top- and bottom-line estimates sit at $725 million and $2.60 a share, besting the prior-year figures by 25% and 132%, respectively.

We have increased our 2021 fiscal year top- and bottom-line estimates, prompted by management's guidance. The Cooper Companies continues to expand all key product segments in its arsenal, demonstrating compelling evidence of near-term gains. We have seen admirable growth in the company's Toric, single-use sphere, and non-single-use sphere lenses in the CooperVision segment on a geographical basis. The expansion of its geographic footprint gives us cautious optimism that more is still to come. Not to mention, the company has been seeing considerable improvements in its office and surgical products, along with COO's fertility segment. Therefore, we have marginally increased our sales and earnings estimates to $2.855 billion and $50.10 a share (up $15 million and $0.50).

This equity holds a neutral rank for Timeliness (3). It is worth noting our model suggests the stock has solid upside potential over the next 18 months.

Gabriel Muenzer *August 13, 2021*

(A) Fiscal year ends October 31st.
(B) Diluted earnings. Excludes non-recurring (charges)/gain: '05, ($0.10); '06 ($0.34); '07, ($2.37); '08, ($0.83); '09, ($0.08); '10, ($0.46); '11, $0.13; '18, ($4.12). Extraordinary tax benefit Jan.31 in Q1 21: $39.62. GAAP as of '14. Next earnings report due early September.
(C) In millions.
(D) Includes intangibles. On 10/31/20: $3,963.4 billion, $80.27 a share.
(E) Dividends paid early Feb. and early Aug.

Company's Financial Strength	A
Stock's Price Stability	90
Price Growth Persistence	90
Earnings Predictability	45

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CSW INDUSTRIALS NDK-CSWI

RECENT PRICE 112.02 | P/E RATIO 30.0 (Trailing: 42.1 Median: NMF) | RELATIVE P/E RATIO 1.58 | DIV'D YLD 0.5% | VALUE LINE

TIMELINESS 3 Lowered 7/2/21
SAFETY 2 Raised 7/31/20
TECHNICAL 3 Lowered 7/16/21
BETA .90 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$66-$147	$107 (-5%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	180	(+60%)	*12%*
Low	135	(+20%)	*5%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	47	64	72
to Sell	98	85	83
Hld's(000)	11100	11233	11543

On September 30, 2015, Capital Southwest spun off its industrial subdidiaries to form a company called CSW Industrials. On November 15, 2015, the company became an independent publicly-traded entity when it issued 15 million shares to the public at $35.20 a share. The underwriting syndicate included BoFA Merril Lynch, Wells Fargo, and Citibank. The stock trades on the NASDAQ under the symbol CSWI.

CAPITAL STRUCTURE as of 3/31/21
Total Debt $242.4 mill. **Due in 5 Yrs** $.6 mill
LT Debt $241.8 mill. **LT Interest** $13.7 mill.
(Total interest coverage 1.6x) (37% of Cap'l)

Leases, Uncapitalized Annual rentals $.5 mill.
No Defined Benefit Pension Plan
Pfd Stock None
Common Stock 15,687,364 shs.
as of 5/12/21

MARKET CAP: $1.8 billion (Mid Cap)

CURRENT POSITION ($MILL.)	2018	2019	3/31/21
Cash Assets	26.7	39.9	10.1
Receivables	66.1	57.6	96.7
Inventory	51.4	57.3	98.1
Other	7.1	3.8	9.7
Current Assets	151.3	158.6	214.6
Accts Payable	19.0	17.7	32.4
Debt Due	.6	.6	.6
Other	29.6	35.0	49.7
Current Liab.	49.2	53.3	82.7

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	--	4.5%	*-.5%*
"Cash Flow"	--	10.0%	*9.5%*
Earnings	--	12.0%	*11.5%*
Dividends	--	--	*16.0%*
Book Value	--	5.0%	*2.0%*

Calendar	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
	--	--	--	--	20.42	20.64	20.55	23.28	26.17	26.78	*33.45*	*31.10*	Revenues per sh	*24.40*
	--	--	--	--	2.53	1.86	3.00	3.98	4.12	4.05	*5.95*	*6.50*	"Cash Flow" per sh	*7.00*
	--	--	--	--	1.62	.87	2.09	2.96	3.02	2.66	*4.35*	*5.10*	Earnings per sh A	*5.60*
	--	--	--	--	--	--	--	--	.54	.54	*.58*	*.62*	Div'ds Decl'd per sh	*.88*
	--	--	--	--	.71	.59	.35	.50	.78	.56	*.85*	*.95*	Cap'l Spending per sh	*1.10*
	--	--	--	--	16.48	17.19	16.74	17.53	18.77	26.33	*27.50*	*26.95*	Book Value per sh	*23.60*
	--	--	--	--	15.66	15.85	15.88	15.04	14.74	15.65	*16.00*	*18.00*	Common Shs Outst'g B	*25.00*
	--	--	--	--	21.1	39.0	20.4	17.3	22.8	34.5	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*28.0*
	--	--	--	--	1.06	2.05	1.03	.93	1.21	1.76			Relative P/E Ratio	*1.55*
	--	--	--	--	--	--	--	--	.8%	.6%			Avg Ann'l Div'd Yield	*.6%*
	--	--	--	--	319.8	327.1	326.2	350.2	385.9	419.2	*535*	*560*	Revenues ($mill)	*610*
	--	--	--	--	19.3%	13.0%	20.1%	21.2%	17.4%	19.7%	*20.0%*	*23.5%*	Operating Margin	*27.5%*
	--	--	--	--	14.2	15.8	14.9	13.8	14.8	23.0	*25.0*	*27.0*	Depreciation ($mill)	*35.0*
	--	--	--	--	25.5	13.7	32.7	46.1	45.9	40.3	*70.0*	*90.0*	Net Profit ($mill)	*140*
	--	--	--	--	42.4%	46.4%	32.3%	25.0%	20.4%	21.2%	*22.0%*	*23.0%*	Income Tax Rate	*23.0%*
	--	--	--	--	8.0%	4.2%	10.0%	13.2%	11.9%	9.6%	*13.0%*	*16.4%*	Net Profit Margin	*23.0%*
	--	--	--	--	123.9	108.6	82.7	102.1	90.9	131.8	*125*	*130*	Working Cap'l ($mill)	*150*
	--	--	--	--	89.1	72.6	23.5	30.9	10.3	241.8	*240*	*250*	Long-Term Debt ($mill)	*300*
	--	--	--	--	258.0	272.4	265.8	263.7	276.7	412.0	*440*	*485*	Shr. Equity ($mill)	*590*
	--	--	--	--	7.8%	4.4%	11.7%	15.9%	16.2%	6.3%	*14.5%*	*14.5%*	Return on Total Cap'l	*19.5%*
	--	--	--	--	9.9%	5.0%	12.3%	17.5%	16.6%	9.8%	*16.0%*	*18.5%*	Return on Shr. Equity	*23.5%*
	--	--	--	--	9.9%	5.0%	12.3%	17.5%	13.6%	7.8%	*13.5%*	*16.5%*	Retained to Com Eq	*20.0%*
	--	--	--	--	--	--	--	--	18%	20%	*13%*	*12%*	All Div'ds to Net Prof	*16%*

Calendar	QUARTERLY REVENUES ($ mill.) Jun.30	Sep.30	Dec.31	Mar.31	Full Year
2018	89.6	91.6	77.5	91.5	350.2
2019	102.3	101.3	83.7	98.6	385.9
2020	91.0	104.9	89.9	133.4	419.2
2021	*135*	*130*	*130*	*140*	*535*
2022	*130*	*140*	*140*	*150*	*560*

Calendar	EARNINGS PER SHARE A Jun.30	Sep.30	Dec.31	Mar.31	Full Year
2018	.66	.58	.17	.68	2.09
2019	1.00	.58	.48	.96	3.02
2020	.81	1.10	.16	.59	2.66
2021	*1.25*	*1.20*	*.70*	*1.20*	*4.35*
2022	*1.30*	*1.30*	*.90*	*1.60*	*5.10*

Calendar	QUARTERLY DIVIDENDS PAID B■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	--	--	--	--	--
2018	--	--	--	--	--
2019	--	.135	.135	.135	.41
2020	.135	.135	.135	.135	.54
2021	.135	.15			

BUSINESS: CSW Industrials, Inc., is a diversified industrial holding company. It has two business segments: Industrial Products (57% of 2020 sales and 62% of operating income), and Specialty Chemicals (43%, and 38%). CSW Industrials serves the following markets; HVAC, refrigeration, coatings and sealants, railroad, industrial, plumbing, building safety, energy, mining, and specialty lubricants. CSW has about 730 employees. Incorp. DE. Off. & Dir. own .9% of stock; Joseph Armes, 1.6%; T. Rowe Price, 9.5%, Wells Fargo, 8.3%; BlackRock, 7.9%; Janus Henderson Group, 5.3%; Newport Trust Co., 5.2% (8/20 Proxy). C.E.O.: Joseph B. Armes. Address: 5420 Lyndon B. Johnson Freeway, Suite 500, Dallas, TX 75240. Tel.: (214) 884-3777. Internet: www. cswindustrials.com.

We hope investors heeded the advice in our late-April report and sold some of their CSW holdings. Back then the stock was selling at almost $140 a share, and sported a forward P/E multiple of 31.9. We wrote that this was an unusually high multiple for a diversified industrial holdings company, particularly since the industry average at the time was 26.3. It appeared that all the good news was factored into the stock price, and that turned out to be the case, as the company guided 2021 earnings estimates marginally lower.

We look for fiscal 2021 share earnings of $4.35, down from our previous call of $4.90 (fiscal year ends March 31st). This figure is still a big jump from the fiscal 2020 tally of $2.66, thanks to the December acquisition of TRUaire. Raw material inflation caused by supply chain inefficiencies, and higher freight and transportation expenses are raising the cost of goods sold. So far, the company has done a decent job of passing these elevated costs onto the customer in the form of higher selling prices. However, the initial post-pandemic burst of demand for CSW's products and services is waning. This means consumers will probably start to think twice about paying the higher prices and will hunt around for better deals. Unless wages rise in tandem with general inflation, we fear demand for CSW's products will drop off, especially when supplemental unemployment benefits cease in all 50 states in September. CSW Industrials is a relatively small player in a large market, and we think it will have a difficult time making its recent price hikes stick.

Unless CSW consummates another large acquisition, profit growth will likely slow over the next few years. By 2022, we look for supply-chain constraints to have been relieved. This ought to lower raw material and inventory costs. Still, slower GDP growth will likely put a damper on CSW's sales advances, limiting margin expansion.

This higher-quality issue has above-average capital gains potential to 2024-2026. The recent stock-price drop has improved this equity's long-term fortunes. As a result, this may not be a bad time for new investors with a long-term perspective to take the plunge.

Jeremy J. Butler *July 30, 2021*

(A) Diluted earnings. Next earnings report due early August. Earnings may not sum due to change in shares outstanding. Fiscal year ends March 31st of following year.
(B) In millions.
(C) Quarterly dividend payment of $0.135 a share initiated in the second quarter of 2019. Dividends paid in mid Feb, May, August, and Nov.

Company's Financial Strength	B++
Stock's Price Stability	90
Price Growth Persistence	85
Earnings Predictability	55

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QUEST DIAGNOST. NYSE-DGX

RECENT PRICE 130.47 | P/E RATIO 11.8 (Trailing: 9.3 Median: 15.0) | RELATIVE P/E RATIO 0.55 | DIV'D YLD 1.9% | VALUE LINE

TIMELINESS 3 Lowered 2/19/21
SAFETY 2 Raised 3/20/09
TECHNICAL 2 Raised 6/4/21
BETA .80 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$96-$200 $148 (15%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	195	(+50%)	*12%*
Low	145	(+10%)	*5%*

Institutional Decisions

	2Q2020	3Q2020	4Q2020
to Buy	333	332	404
to Sell	374	343	316
Hld's(000)	117700	116446	115314

	61.7	61.2	64.9	64.1	68.5	89.0	93.6	113.0	116.5	108.9	131.8	142.8
High:	40.8	45.1	53.3	52.5	50.5	60.1	59.7	90.1	78.9	79.9	73.0	113.4

LEGENDS
11.0 x "Cash Flow" p sh
Relative Price Strength
Options: Yes
Shaded area indicates recession

% TOT. RETURN 4/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	22.1	75.2
3 yr.	38.1	56.1
5 yr.	93.0	103.5

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
27.73	32.32	34.55	38.04	41.67	43.05	47.71	46.63	49.63	51.63	52.40	54.85	57.10	55.79	58.09	70.95	*72.75*	*65.25*	Revenues per sh	*92.30*
3.64	4.32	4.08	4.75	5.52	5.70	6.42	6.23	6.22	6.01	6.99	7.19	7.90	8.79	9.22	14.20	*14.20*	*11.25*	"Cash Flow" per sh	*16.10*
2.66	3.22	2.84	3.27	3.88	4.05	4.53	4.36	4.00	4.10	4.77	5.15	5.67	6.31	6.56	11.18	*11.10*	*8.00*	Earnings per sh A	*12.15*
.36	.40	.40	.40	.40	.40	.47	.81	1.20	1.32	1.52	1.65	1.80	1.95	2.12	2.21	*2.42*	*2.57*	Div'ds Decl'd per sh B	*3.20*
1.13	1.00	1.13	1.12	.93	1.20	1.03	1.15	1.60	2.14	1.84	2.14	1.87	2.84	3.01	3.14	*3.15*	*3.00*	Cap'l Spending per sh	*3.30*
13.92	15.57	17.13	18.92	22.30	23.57	23.46	26.29	27.42	29.87	32.76	33.78	36.45	38.64	42.41	50.82	*54.60*	*56.90*	Book Value per sh C	*71.55*
198.46	193.95	194.04	190.57	178.92	171.16	157.42	158.33	144.00	144.00	143.00	137.00	135.00	135.00	133.00	133.00	*130.00*	*130.00*	Common Shs Outst'g D	*130.00*
19.0	17.1	18.6	15.1	13.7	13.0	12.2	13.6	14.8	14.5	14.8	15.2	17.7	16.2	14.9	10.0	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*14.0*
1.01	.92	.99	.91	.91	.83	.77	.87	.83	.76	.75	.80	.89	.88	.79	.51			Relative P/E Ratio	*.80*
.7%	.7%	.8%	.8%	.8%	.8%	.9%	1.4%	2.0%	2.2%	2.2%	2.1%	1.8%	1.9%	2.2%	2.0%			Avg Ann'l Div'd Yield	*1.9%*
7510.5	7382.6	7146.0	7435.0	7493.0	7515.0	7709.0	7531.0	7726.0	9437.0	*9460*	*8480*	Revenues ($mill)	*12000*
21.4%	21.7%	19.6%	17.4%	18.4%	19.8%	18.6%	20.4%	19.7%	25.9%	*24.0%*	*20.3%*	Operating Margin	*25.2%*
281.1	286.6	283.0	314.0	304.0	249.0	270.0	309.0	329.0	361.0	*400*	*420*	Depreciation ($mill)	*510*
728.7	700.2	612.0	551.0	695.0	736.0	796.0	878.0	897.0	1528.0	*1445*	*1040*	Net Profit ($mill)	*1580*
35.6%	37.8%	37.2%	30.9%	34.3%	36.4%	21.1%	17.0%	21.8%	23.5%	*23.0%*	*23.0%*	Income Tax Rate	*25.0%*
9.7%	9.5%	8.6%	7.4%	9.3%	9.8%	10.3%	11.7%	11.6%	16.2%	*15.3%*	*12.3%*	Net Profit Margin	*13.2%*
d159.9	513.4	251.0	d106.0	328.0	550.0	249.0	d95.0	500.0	1282.0	*1350*	*1450*	Working Cap'l ($mill)	*2000*
3370.5	3354.2	3120.0	3244.0	3492.0	3728.0	3748.0	3429.0	3966.0	4013.0	*3900*	*3700*	Long-Term Debt ($mill)	*3170*
3692.9	4163.0	3948.0	4301.0	4684.0	4628.0	4921.0	5216.0	5641.0	6759.0	*7100*	*7400*	Shr. Equity ($mill)	*9300*
11.4%	10.4%	9.8%	8.4%	9.4%	9.7%	10.0%	11.0%	10.1%	14.9%	*14.0%*	*10.5%*	Return on Total Cap'l	*13.5%*
19.7%	16.8%	15.5%	12.8%	14.8%	15.9%	16.2%	16.8%	15.9%	22.6%	*20.5%*	*14.0%*	Return on Shr. Equity	*17.0%*
18.0%	14.2%	10.8%	8.5%	10.3%	11.1%	11.2%	11.7%	10.8%	18.2%	*16.0%*	*9.5%*	Retained to Com Eq	*12.5%*
9%	15%	30%	34%	31%	30%	31%	30%	32%	19%	*22%*	*32%*	All Div'ds to Net Prof	*26%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $4158 mill. **Due in 5 Yrs** $2000 mill.
LT Debt $4010 mill. **LT Interest** $220 mill. (37% of Cap'l)

Leases, Uncapitalized: Ann'l rentals $200.0 mill.
No Defined Benefit Pension Plan

Pfd Stock None

Common Stock 130,638,109 shares
as of 4/15/21
MARKET CAP: $17.0 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	1192	1158	1230
Receivables	1063	1520	1382
Inventory (FIFO)	123	223	223
Other	112	157	164
Current Assets	2490	3058	2999
Payables & Other	1041	1633	1559
Debt Due	949	143	148
Current Liab.	1990	1776	1707

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	4.0%	4.0%	*7.0%*
"Cash Flow"	7.5%	11.0%	*7.0%*
Earnings	8.0%	13.5%	*7.0%*
Dividends	18.0%	9.0%	*7.5%*
Book Value	7.5%	8.0%	*8.5%*

Calendar	QUARTERLY REVENUES ($ mill.) A Mar.31	Jun. 30	Sep. 30	Dec. 31	Full Year
2018	1884	1919	1889	1839	7531
2019	1891	1953	1956	1926	7726
2020	1822	1827	2786	3002	9437
2021	2720	*2380*	*2220*	*2140*	*9460*
2022	*2030*	*2125*	*2125*	*2200*	*8480*

Calendar	EARNINGS PER SHARE A Mar.31	Jun. 30	Sep. 30	Dec. 31	Full Year
2018	1.52	1.75	1.68	1.36	6.31
2019	1.40	1.73	1.76	1.67	6.56
2020	.94	1.42	4.31	4.48	11.18
2021	3.76	*2.85*	*2.30*	*2.19*	*11.10*
2022	*1.85*	*2.05*	*2.05*	*2.05*	*8.00*

Calendar	QUARTERLY DIVIDENDS PAID B Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.45	.45	.45	.45	1.80
2018	.45	.50	.50	.50	1.95
2019	.53	.53	.53	.53	2.12
2020	.53	.56	.56	.56	2.21
2021	.56	.62			

BUSINESS: Quest Diagnostics provides diagnostic testing, information, and services to patients, physicians, hospitals, insurers, employers, government agencies, and other commercial clinical labs. It operates a network of more than 2,200 patient-service centers and principal labs, and approximately 3,200 phlebotomists in physicians offices. Offers routine tests, anatomic pathology services, and central laboratory testing performed with clinical research trials. Employs 43,000. Vanguard owns 10.6% of common; BlackRock, 8.5%; offs. & dirs. own less than 1.0% (4/21 proxy). Chairman and CEO: Stephen Rusckowski. Incorporated: DE. Address: 500 Plaza Drive, Secaucus, New Jersey 07094. Telephone: 973-520-2700. Internet: www.questdiagnostics.com.

Quest Diagnostics' revenue figures continue to get a shot in the arm from COVID-19 testing, but the demand for that type of screen is tapering off. Year-over-year top-line growth in the first quarter was just shy of 48%, with a good portion of that gain coming from coronavirus testing. The pace of the vaccine rollout was picked up admirably in this quarter though, and we look for diminishing returns from this type of screen going forward. Still, management saw strength in the base business over this 90-day window and that is a promising development for when the pandemic is securely in the rearview mirror. For now, we look for earnings to slide on a sequential basis in the next few periods, as society returns to more-normalized activity and COVID-19 testing levels dissipate. This type of descending scale might have earnings per share coming in at around $11.10 for the full year.

Routine care issues have been neglected during the pandemic, and we expect they will soon be addressed. Volumes at doctor's offices took a serious hit over the last year-plus. Unfortunately, we do not think the general population has gotten healthier. Instead, trips to see medical professionals were eschewed in favor of avoiding doctors and hospitals altogether. This phenomenon cannot last. With that, we think alot of blood work will be in the cards for 2021 and 2022. A study by Quest and the CDC showed alarming drop offs in screenings for diseases like Hepatitis C during the pandemic. People living with undiagnosed ailments are playing with fire.

Our 2022 earnings call has been increased by $0.10 a share, to an even $8.00. Using 2019's numbers as the pre-pandemic baseline, such a level of profitability would be impressive, especially coming off our nation's largest health crisis in a century. DGX's suite of offerings has the potential to shine if the backdrop we envision comes to light.

This good-quality stock's best attribute at this time is its above-average dividend yield. It is a neutral selection for Timeliness, and capital appreciation potential three to five years hence is only on par with the *Value Line* average.

Erik M. Manning *June 4, 2021*

(A) Diluted earnings. Excludes nonrecurring: '06, d28¢; '07, d$1.10; '08, d1¢; '11, d$1.61; '12, d8¢; '13, $1.58; '17, 17¢; '18, $1.02; '19, 43¢; '20, 71¢. Excludes disc. operations gain: '19, 15¢. Quarterly figures may not sum due to rounding. Next earnings report due late July. **(B)** Dividends historically paid mid-January, April, July, October. **(C)** Includes intangibles. In '20: $8.04 billion, $60.45/sh. **(D)** In millions.

Company's Financial Strength	B++
Stock's Price Stability	90
Price Growth Persistence	65
Earnings Predictability	70

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LAUDER (ESTEE) COS. NYSE-EL

RECENT PRICE 306.52 | P/E RATIO 45.4 (Trailing: 59.6 Median: 26.0) | RELATIVE P/E RATIO 2.13 | DIV'D YLD 0.7% | VALUE LINE

TIMELINESS 3 Lowered 5/7/21
SAFETY 2 Raised 1/4/02
TECHNICAL 2 Raised 6/11/21
BETA .95 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$218-$437	$328 (5%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	290	(-5%)	*Nil*
Low	215	(-30%)	*-7%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	440	514	563
to Sell	435	406	445
Hld's(000)	198807	199947	202099

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
14.34	15.26	18.11	20.32	18.62	19.80	22.59	25.09	26.28	28.77	28.76	30.62	32.12	37.27	41.16	39.65	*44.25*	*49.70*	Sales per sh [A]	*65.70*
1.43	1.45	1.69	1.86	1.35	2.08	2.66	3.09	3.50	4.17	4.00	4.16	4.65	6.06	7.02	5.88	*7.85*	*8.75*	"Cash Flow" per sh	*10.85*
.95	.96	1.08	1.20	.71	1.38	1.85	2.27	2.58	3.06	2.82	2.96	3.35	4.51	5.34	4.12	*6.15*	*7.00*	Earnings per sh [A]	*9.00*
.20	.20	.25	.28	.28	.28	.38	.53	1.08	.78	.92	1.14	1.32	1.48	1.67	1.39	*2.12*	*2.32*	Div'ds Decl'd per sh [E]	*2.68*
.52	.62	.80	.92	.71	.69	.90	1.09	1.19	1.34	1.26	1.43	1.37	1.71	2.06	1.73	*1.60*	*1.70*	Cap'l Spending per sh	*1.80*
3.83	3.83	3.09	4.25	4.17	4.95	6.74	7.06	8.48	10.11	9.72	9.71	11.91	12.77	12.15	10.91	*15.20*	*15.55*	Book Value per sh [B]	*16.55*
441.98	423.56	388.54	389.22	393.40	393.67	389.93	387.20	387.41	381.31	374.88	367.76	368.10	367.15	361.10	360.53	*362.00*	*360.00*	Common Shs Outst'g [C]	*350.00*
22.8	19.2	19.9	18.4	24.3	18.1	21.6	24.1	24.2	23.2	27.9	29.7	25.9	28.2	27.7	45.9	*Bold figures are*		Avg Ann'l P/E Ratio	*28.0*
1.21	1.04	1.06	1.11	1.62	1.15	1.35	1.53	1.36	1.22	1.40	1.56	1.30	1.52	1.48	2.35	*Value Line*		Relative P/E Ratio	*1.60*
.9%	1.1%	1.2%	1.2%	1.6%	1.1%	.9%	1.0%	1.7%	1.1%	1.2%	1.3%	1.5%	1.2%	1.1%	.7%	*estimates*		Avg Ann'l Div'd Yield	*1.1%*
8810.0	9713.6	10182	10969	10780	11262	11824	13683	14863	14294	*16025*	*17900*	Sales ($mill)	*23000*
16.7%	17.2%	18.6%	20.2%	18.7%	18.0%	18.2%	20.4%	21.5%	19.0%	*19.0%*	*19.0%*	Operating Margin	*19.5%*
294.4	295.8	336.9	384.6	409.3	414.7	464.0	531.0	557.0	611.0	*620*	*625*	Depreciation ($mill)	*640*
741.7	900.9	1019.8	1204.1	1088.9	1114.6	1249.0	1695.0	1977.0	1510.0	*2225*	*2520*	Net Profit ($mill)	*3150*
33.1%	31.5%	30.6%	32.0%	29.9%	27.9%	22.3%	22.3%	21.5%	23.2%	*23.0%*	*23.0%*	Income Tax Rate	*23.0%*
8.4%	9.3%	10.0%	11.0%	10.1%	9.9%	10.6%	12.4%	13.3%	10.6%	*13.9%*	*14.1%*	Net Profit Margin	*13.7%*
1743.2	1729.3	2362.6	2768.5	2332.9	1544.6	2141.0	2858.0	2607.0	3713.0	*5500*	*5500*	Working Cap'l ($mill)	*6000*
1080.1	1069.1	1326.0	1324.7	1607.5	1910.0	3383.0	3361.0	2896.0	4914.0	*5400*	*5200*	Long-Term Debt ($mill)	*4000*
2629.4	2733.2	3286.9	3854.9	3643.2	3571.9	4384.0	4688.0	4386.0	3935.0	*5500*	*5600*	Shr. Equity ($mill)	*5800*
20.8%	24.5%	22.7%	23.7%	21.3%	21.0%	16.7%	21.8%	28.0%	17.9%	*20.5%*	*23.5%*	Return on Total Cap'l	*32.0%*
28.2%	33.0%	31.0%	31.2%	29.9%	31.2%	28.5%	36.2%	45.1%	38.4%	*40.5%*	*45.0%*	Return on Shr. Equity	*54.0%*
22.6%	25.5%	18.3%	23.4%	20.3%	19.4%	17.4%	24.5%	31.2%	25.6%	*28.0%*	*31.0%*	Retained to Com Eq	*45.0%*
20%	23%	41%	25%	32%	38%	39%	32%	31%	33%	*35%*	*33%*	All Div'ds to Net Prof	*30%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $5958.0 mill. **Due in 5 Yrs** $2776.0 mill.
LT Debt $5487.0 mill. **LT Interest** $172.0 mill. (50% of Cap'l)
Leases, Uncapitalized Annual rentals $436.0 mill.
Pension Assets-6/20 $1541.0 mill. **Oblig.** $1718.0 mill
Pfd Stock None
Common Stock 362,511,874 shs. **as of 4/26/21**
(Class A: 231,894,845 shs.;
Class B: 130,617,029 shs., have 10 votes and are conv. into Cl. A shs. on a share-for-share basis.)
MARKET CAP: $111.1 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	2987	5022	6399
Receivables	1831	1194	1735
Inventory (FIFO)	2006	2062	2134
Other	388	614	729
Current Assets	7212	8892	10997
Accts Payable	1490	1177	1277
Debt Due	516	1222	471
Other	2599	2780	3449
Current Liab.	4605	5179	5197

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	7.0%	7.0%	*8.0%*
"Cash Flow"	13.5%	10.0%	*9.0%*
Earnings	15.5%	10.5%	*11.0%*
Dividends	18.5%	10.5%	*10.0%*
Book Value	10.5%	5.0%	*3.0%*

Fiscal Year Ends	QUARTERLY SALES ($ mill.)[A D] Sep.30	Dec.31	Mar.31	Jun.30	Full Fiscal Year
2018	3274	3744	3370	3295	13683
2019	3524	4005	3744	3590	14863
2020	3895	4624	3345	2430	14294
2021	3562	4853	3864	*3746*	*16025*
2022	*3980*	*5420*	*4325*	*4175*	*17900*

Fiscal Year Ends	EARNINGS PER SHARE [A D] Sep.30	Dec.31	Mar.31	Jun.30	Full Fiscal Year
2018	1.21	1.52	1.17	.61	4.51
2019	1.41	1.74	1.55	.64	5.34
2020	1.67	2.11	.85	d.53	4.12
2021	1.44	2.61	1.59	*.51*	*6.15*
2022	*1.80*	*2.85*	*1.70*	*.65*	*7.00*

Cal-endar	QUARTERLY DIVIDENDS PAID[E] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.34	.34	.34	.38	1.40
2018	.38	.38	.38	.43	1.57
2019	.43	.43	.43	.48	1.77
2020	.48	- -	.48	.53	1.49
2021	.53	.53			

BUSINESS: The Estee Lauder Companies Inc. makes and markets skin care, makeup, fragrance, and hair care products worldwide. Brand names include *Estee Lauder*, *Clinique*, *Aramis*, *Prescriptives*, *Origins*, *M.A.C.*, *Bobbi Brown essentials*, and *Aveda*. EL is the global licensee for *Tommy Hilfiger* fragrances and cosmetics. Sells mostly through upscale dept. stores and perfumeries, specialty retailers, and pharmacies. Int'l. bus.: 66% of '20 op. inc., 73% of sales. Sales by product: makeup, 34.0%; skin care, 52.0%; frag., 12.0%; hair care, 2.0%; Has about 48,000 employees. Off. & dir. control 30.0% of voting stock (10/20 Proxy). Chairman: William P. Lauder. CEO: Fabrizio Freda. Inc.: DE. Addr.: 767 Fifth Ave., NY, NY 10153. Tel.: 212-572-4200. Internet: www.elcompanies.com.

Estee Lauder looks a bit different than it did this time last year. In late May, the company announced that it had completed the first phase of increasing its ownership in DECIEM Beauty Group Inc., the Canadian-based, vertically integrated, multi-brand company. Lauder now owns 76% of DECIEM (up from 29%), and has agreed to purchase the remaining interests after a three-year period at a price that will be determined based on the future performance of DECIEM.

Meanwhile, the company is likely putting the finishing touches on a record performance (fiscal year ends June 30th). Lauder posted March-interim earnings of $1.59 a share, well above our estimate and the year-ago result, on a strong 16% top-line advance. Indeed, net sales grew in every region and in most product categories, as compared to this time last year, when brick-and-mortar locations began to shut down as COVID-19 began to spread throughout the world. And thanks to strong cash flow generation, the company resumed share repurchases in the March interim, which augurs well for share-net growth going forward. Hence, we now look for Estee Lauder to post fiscal 2021 earnings of $6.15 a share (up $0.20 from our earlier call), and we have increased our fiscal 2022 call by $0.45, to $7.00 a share.

Lauder has taken on more long-term debt. In early March, the company completed a $600 million offering of 1.95% senior notes due 2031, with the proceeds earmarked for general corporate purposes, including funding a portion of the aforementioned DECIEM Beauty Group Inc. deal and refinancing the 1.7% senior notes that were due May 10th of this year.

Estee Lauder stock has slipped two notches in Timeliness. Based on recent price and earnings momentum, the issue is pegged to mirror the broader market averages over the coming six to 12 months. **At this juncture, we suggest those with an eye toward 2024-2026 wait on the sidelines for the time being.** Despite a 4% uptick in its value since our early March review (versus an 8% jump in the S&P 500 Index over the same period), the equity still offers uninspiring long-term capital-appreciation potential.

Kenneth A. Nugent *June 11, 2021*

(A) Diluted earnings. Fiscal year ends June 30th. Excl. non-rec. losses: '06, ($0.15); '09, ($0.31); '10, ($0.38); disc. ops, '06, ($0.43); '11, ($0.21); '16, ($0.03). Next earnings report due late Aug. **(B)** Includes intangibles. In '20: $3,739.0 mill., $10.36/share. **(C)** In millions, adjusted for stock split. **(D)** Year-end sales or earnings may not tally due to rounding. **(E)** Div-idend paid in fourth quarter through 2012, quarterly thereafter. Div'd suspended on May 1st, 2020, reinstated on Aug. 20th, 2020.

Company's Financial Strength	A
Stock's Price Stability	85
Price Growth Persistence	85
Earnings Predictability	70

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EXPONENT, INC. NYSE-EXPO

RECENT PRICE 113.32 | P/E RATIO NMF (Trailing: 62.6 Median: 30.0) | RELATIVE P/E RATIO NMF | DIV'D YLD 0.7% | VALUE LINE 439

TIMELINESS 4 Lowered 7/30/21
SAFETY 3 New 2/21/20
TECHNICAL 5 Lowered 8/13/21
BETA .90 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$73-$160	$117 (5%)

2024-26 PROJECTIONS

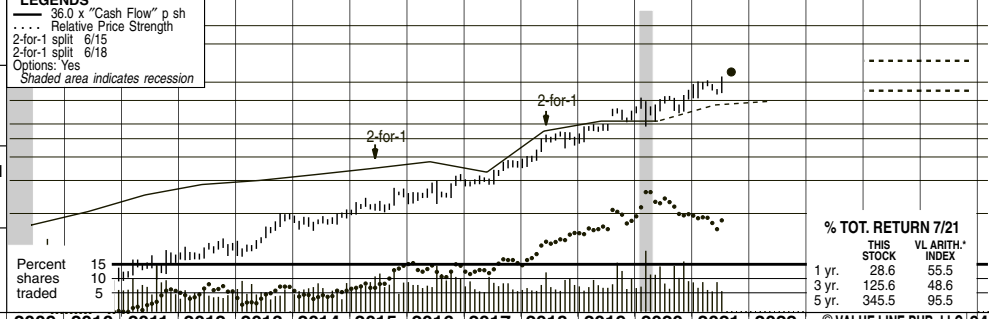
	Price	Gain	Ann'l Total Return
High	130	(+15%)	5%
Low	90	(-20%)	-4%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	151	149	139
to Sell	141	147	150
Hld's(000)	46668	46456	46668

	10.3	12.8	14.7	20.1	21.0	27.4	32.4	38.6	54.6	72.7	91.0	116.0
High:	10.3	12.8	14.7	20.1	21.0	27.4	32.4	38.6	54.6	72.7	91.0	116.0
Low:	6.3	8.8	11.3	11.8	16.2	19.6	22.4	27.9	34.9	47.1	58.0	82.1

LEGENDS
36.0 x "Cash Flow" p sh
Relative Price Strength
2-for-1 split 6/15
2-for-1 split 6/18
Options: Yes
Shaded area indicates recession



Target Price Range 2024 2025 2026
200
160
100
80
60
50
40
30
20

% TOT. RETURN 7/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	28.6	55.5
3 yr.	125.6	48.6
5 yr.	345.5	95.5

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
2.40	2.86	3.57	4.18	4.15	3.96	4.64	5.05	5.36	5.92	6.08	6.15	6.75	7.37	8.06	7.72	8.70	9.10	Revenues per sh	11.10
.27	.30	.42	.50	.48	.57	.70	.79	.83	.90	.97	1.05	.92	1.53	1.72	1.73	2.10	2.20	"Cash Flow" per sh	3.00
.20	.21	.31	.37	.37	.46	.56	.65	.69	.74	.80	.88	.77	1.33	1.53	1.55	1.85	2.00	Earnings per sh A	2.90
--	--	--	--	--	--	--	--	.15	.25	.30	.36	.42	.52	.64	.76	.80	.90	Div'ds Decl'd per sh D	1.40
.05	.05	.06	.10	.04	.04	.07	.09	.12	.10	.10	.28	.09	.32	.45	.10	.15	.30	Cap'l Spending per sh	.45
2.06	2.11	2.30	2.34	2.73	3.28	3.51	4.10	4.50	4.75	5.11	5.34	5.61	6.10	6.77	6.98	7.35	7.65	Book Value per sh B	9.65
64.77	58.85	57.44	54.76	54.95	55.98	53.20	52.82	52.26	51.48	51.44	51.19	51.54	51.50	51.76	51.80	53.00	55.00	Common Shs Outst'g C	60.00
16.7	19.7	18.6	20.9	18.0	17.0	19.0	19.5	22.8	25.2	28.3	30.1	42.1	34.8	40.0	49.1	Bold figures are Value Line estimates		Avg Ann'l P/E Ratio	38.0
.89	1.06	.99	1.26	1.20	1.08	1.19	1.24	1.28	1.33	1.42	1.58	2.12	1.88	2.13	2.52			Relative P/E Ratio	2.10
--	--	--	--	--	--	--	--	1.0%	1.3%	1.3%	1.4%	1.3%	1.1%	1.0%	1.0%			Avg Ann'l Div'd Yield	1.2%
						246.7	266.6	280.0	304.7	312.8	315.1	347.8	379.5	417.2	399.9	460	500	Revenues ($mill)	665
						32.9%	32.2%	30.8%	36.3%	38.1%	26.6%	27.7%	25.8%	22.0%	22.5%	28.0%	29.0%	Operating Margin	34.0%
						4.4	4.7	5.0	5.4	6.1	6.1	6.3	6.3	6.8	6.9	10.0	10.0	Depreciation ($mill)	10.0
						32.7	37.2	38.6	40.7	43.6	47.5	41.3	72.3	82.5	82.6	100	110	Net Profit ($mill)	170
						40.4%	39.7%	39.6%	40.1%	38.7%	31.3%	49.9%	22.6%	20.9%	14.8%	20.0%	20.0%	Income Tax Rate	20.0%
						13.3%	14.0%	13.8%	13.4%	13.9%	15.1%	11.9%	19.0%	19.8%	20.6%	21.7%	22.0%	Net Profit Margin	25.6%
						137.8	163.6	179.5	187.1	192.3	193.8	222.4	228.3	240.0	249.5	275	300	Working Cap'l ($mill)	400
						--	--	--	--	1.9	--	--	--	--	--	Nil	Nil	Long-Term Debt ($mill)	Nil
						186.7	216.4	235.1	244.3	262.8	273.3	289.1	313.9	350.3	361.5	390	420	Shr. Equity ($mill)	580
						17.5%	17.2%	16.4%	16.7%	16.5%	17.4%	14.3%	23.0%	23.5%	22.8%	25.5%	26.0%	Return on Total Cap'l	29.5%
						17.5%	17.2%	16.4%	16.7%	16.6%	17.4%	14.3%	23.0%	23.5%	22.8%	25.5%	26.0%	Return on Shr. Equity	29.5%
						17.5%	17.2%	13.1%	11.3%	10.6%	10.5%	6.7%	14.3%	14.0%	11.8%	14.5%	14.5%	Retained to Com Eq	15.0%
						--	--	21%	32%	36%	40%	53%	38%	41%	48%	42%	45%	All Div'ds to Net Prof	48%

CAPITAL STRUCTURE as of 7/2/21
Total Debt None

Leases, Uncapitalized: Annual rentals $6.6 mil.

No Defined Benefit Pension Plan

Pfd Stock None

Common Stock 52,058,748 shares.
MARKET CAP: $5.9 billion (Mid Cap)

CURRENT POSITION ($MILL)	2019	2020	7/2/21
Cash Assets	176.4	242.5	240.0
Receivables	120.1	111.6	142.7
Inventory	--	--	--
Other	67.5	12.7	15.1
Current Assets	364.0	366.8	397.8
Accts Payable	4.7	3.3	27.0
Debt Due	--	--	--
Other	119.3	114.0	96.0
Current Liab.	124.0	117.3	123.0

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	6.5%	6.0%	6.0%
"Cash Flow"	12.5%	13.0%	10.5%
Earnings	14.0%	14.5%	12.0%
Dividends	--	22.5%	14.0%
Book Value	9.0%	6.5%	6.5%

Fiscal Year Ends	QUARTERLY REVENUES ($ mill.) A Mar.Per	Jun.Per	Sep.Per	Dec.Per	Full Fiscal Year
2018	96.5	95.6	95.3	92.1	379.5
2019	99.0	106.5	101.5	110.1	417.2
2020	106.0	92.5	98.7	103.2	399.9
2021	116.5	119.9	115	108.6	460
2022	120	120	130	130	500

Fiscal Year Ends	EARNINGS PER SHARE AD Mar.Per	Jun.Per	Sep.Per	Dec.Per	Full Fiscal Year
2018	.37	.34	.32	.30	1.33
2019	.42	.39	.36	.36	1.53
2020	.49	.31	.34	.41	1.55
2021	.58	.48	.40	.39	1.85
2022	.45	.50	.50	.55	2.00

Cal-endar	QUARTERLY DIVIDENDS PAID D Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.105	.105	.105	.105	.42
2018	.13	.13	.13	.13	.52
2019	.16	.16	.16	.16	.64
2020	.19	.19	.19	.19	.76
2021	.20	.20			

BUSINESS: Exponent, Inc. is a science and engineering consulting company that provides solutions to complex problems. Its team of scientists, engineers, and business and regulatory consultants bring together more than 90 different technical disciplines to solve complicated issues facing industry and government. The company's services include: analysis of product development, product recall, regulatory compliance, and the discovery of potential problems related to products, people, property, and impending litigation. Has 1,168 employees. Officers & directors own 1.8% of common stock; BlackRock, 15.4%; Vanguard, 10.4% (4/21 Proxy). CEO: Paul R. Johnston Address: 149 Commonwealth Dr., Menlo Park, CA 94025. Tel.: (650) 326-9400. Internet: www.exponent.com.

Exponent experienced record utilization en route to a solid June-period performance. Relaxation of pandemic-related restrictions helped accelerate the timing of certain human participant studies. Courts were also able to resume activity, and the company commenced some new engagements, as well. This resulted in staff utilization of 79%, and revenues of $119.9 million for the term.

Project activity is likely to take a modest step back in the coming months. Exponent management sighted a combination of strong demand and convenient timing as a reason for its success in the second quarter. However, common seasonality ought to play a role in normalization of its utilization rates, while deceleration is also expected in its human participant studies. That said, demand across the Engineering and Other Scientific segment should remain stout, with international arbitration and strength across multiple end markets likely to drive modest improvements relative to 2019. The Environmental and Health segment should also continue to gain ground through litigation of chemical regulatory and food safety practice cases.

The company is striving to expand its workforce to address strong demand. Exponent requires candidates with high levels of expertise to handle the workloads that come with a position in its core practices. And though utilization levels are expected to tick back down to the mid-70% vicinity, the company wants to be ready for another potential spike in demand, given the way that businesses are changing their approach in the wake of the pandemic. Developments in supply chain operations servicing the transportation, utility, and medical services industries ought to keep revenues on the rise in the near term. Meanwhile, general expenses associated with marketing and recruitment are likely to come in at about $15 million this year.

Exponent stock is ranked 4 (Below Average) for Timeliness. Shares of the company have risen more than 20% in value dating back to our late-May report. However, this has discounted much of the price appreciation potential to 2024-2026 that we had envisioned here.

Robert J. Scrudato *August 20, 2021*

(A) Diluted shares. May not sum due to rounding. Fiscal years end Friday closest to December 31st. Next earnings report late October.
(B) Incl. intang. In 2020, $8.6 mill., about $0.17/sh.
(C) In millions.
(D) Dividends historically paid in late March, June, September, and December.

Company's Financial Strength	B+
Stock's Price Stability	90
Price Growth Persistence	100
Earnings Predictability	75

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HERSHEY CO. (THE) NYSE-HSY

RECENT PRICE 174.00 | P/E RATIO 25.6 (Trailing: 25.9 Median: 23.0) | RELATIVE P/E RATIO 1.26 | DIV'D YLD 1.9% | VALUE LINE

TIMELINESS 2 Raised 7/16/21
SAFETY 1 Raised 10/16/20
TECHNICAL 3 Raised 6/25/21
BETA .85 (1.00 = Market)

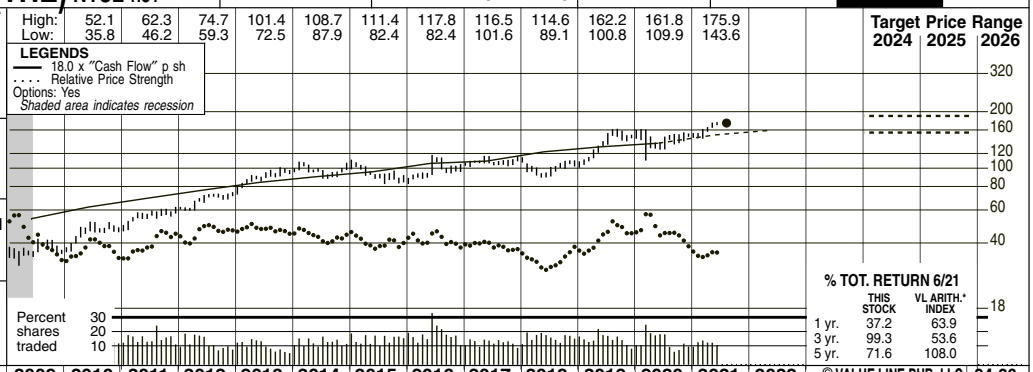
18-Month Target Price Range
Low-High Midpoint (% to Mid)
$132-$256 $194 (10%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	190	(+10%)	4%
Low	155	(-10%)	Nil

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	366	410	397
to Sell	392	366	384
Hld's(000)	108753	108096	108504



2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
20.11	21.47	21.79	22.61	23.24	24.95	26.96	29.65	31.93	33.61	34.07	35.05	35.64	37.15	38.24	39.14	*41.75*	*42.95*	Sales per sh [A]	*44.85*
3.27	3.30	3.49	3.00	2.99	3.45	3.83	4.24	4.67	5.02	5.33	5.89	6.06	6.80	7.23	7.56	*8.35*	*8.85*	"Cash Flow" per sh	*9.65*
2.28	2.34	2.08	1.88	2.17	2.55	2.82	3.24	3.72	3.98	4.12	4.41	4.76	5.36	5.78	6.11	*6.80*	*7.25*	Earnings per sh [AB]	*7.95*
.93	1.05	1.14	1.19	1.19	1.28	1.38	1.56	1.81	2.04	2.24	2.40	2.55	2.76	2.99	3.15	*3.35*	*3.65*	Div'ds Decl'd per sh ■[C]	*4.05*
.81	.86	.90	1.25	.64	.89	1.54	1.24	1.57	1.68	1.65	1.27	1.22	1.57	1.52	2.12	*2.45*	*2.55*	Cap'l Spending per sh	*2.20*
4.25	2.97	2.61	1.40	3.16	3.97	3.76	4.63	7.17	6.59	4.60	3.70	4.34	6.67	8.33	10.73	*13.15*	*16.20*	Book Value per sh [D]	*27.50*
240.52	230.26	227.05	227.04	228.00	227.30	225.52	224.09	223.81	220.83	216.78	212.26	210.86	209.73	208.83	208.23	*206.00*	*205.00*	Common Shs Outst'g [E]	*204.00*
26.2	22.7	23.2	19.5	16.9	17.9	19.8	20.9	24.2	24.5	23.0	21.9	22.8	18.8	23.2	23.4	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*22.0*
1.40	1.23	1.23	1.17	1.13	1.14	1.24	1.33	1.36	1.29	1.16	1.15	1.15	1.02	1.24	1.21			Relative P/E Ratio	*1.20*
1.6%	2.0%	2.4%	3.2%	3.2%	2.8%	2.5%	2.3%	2.0%	2.1%	2.4%	2.5%	2.3%	2.7%	2.2%	2.2%			Avg Ann'l Div'd Yield	*2.3%*
6080.8	6644.3	7146.1	7421.8	7386.6	7440.2	7515.4	7791.1	7986.3	8149.7	*8600*	*8800*	Sales ($mill) [A]	*9150*
21.4%	21.7%	22.0%	22.4%	23.3%	24.4%	23.7%	24.4%	24.8%	25.8%	*25.0%*	*26.0%*	Operating Margin	*26.0%*
215.8	210.0	201.0	211.5	244.9	301.8	261.9	295.1	291.5	294.9	*302*	*310*	Depreciation ($mill)	*330*
648.7	740.0	844.0	895.9	909.7	948.5	1016.9	1130.1	1218.4	1278.7	*1415*	*1510*	Net Profit ($mill)	*1635*
34.8%	34.7%	34.3%	34.5%	33.2%	31.3%	26.8%	19.2%	17.4%	14.7%	*15.0%*	*15.0%*	Income Tax Rate	*15.0%*
10.7%	11.1%	11.8%	12.1%	12.3%	12.7%	13.5%	14.5%	15.3%	15.7%	*16.5%*	*17.1%*	Net Profit Margin	*17.9%*
872.8	642.4	1079.3	311.4	d369.3	d92.6	d74.6	d179.4	108.3	1086.1	*1325*	*1165*	Working Cap'l ($mill)	*1505*
1748.5	1531.0	1795.1	1549.0	1557.1	2347.5	2061.0	3254.3	3530.8	4089.8	*4050*	*4000*	Long-Term Debt ($mill)	*3500*
849.0	1036.7	1604.8	1455.1	998.0	785.9	915.3	1398.7	1739.2	2234.4	*2710*	*3315*	Shr. Equity ($mill)	*5615*
26.6%	30.6%	26.0%	31.1%	37.0%	31.4%	35.3%	25.3%	24.5%	21.4%	*21.0%*	*20.5%*	Return on Total Cap'l	*18.0%*
76.4%	71.4%	52.6%	61.6%	91.2%	NMF	NMF	80.8%	70.1%	57.2%	*52.0%*	*45.5%*	Return on Shr. Equity	*29.0%*
40.6%	38.5%	28.1%	31.3%	43.4%	57.1%	53.6%	40.6%	35.0%	28.6%	*26.5%*	*23.0%*	Retained to Com Eq	*14.5%*
47%	46%	47%	49%	52%	53%	52%	50%	50%	50%	*49%*	*50%*	All Div'ds to Net Prof	*50%*

CAPITAL STRUCTURE as of 4/4/21
Total Debt $4512.6 mill. **Due in 5 Yrs** $2163 mill.
LT Debt $4094.2 mill. **LT Interest** $120 mill.
(Total int. cov.: 11.2x)
(64% of Cap'l)
Leases, Uncapitalized Annual rentals $43.8 mill.
Pension Assets-12/20 $1.1 billion
Oblig. $1.12 billion
Pfd Stock None
Common Stock 206,996,453 shs.
Incl. 60,613,777 Class B shs. (10 votes per sh.)
as of 4/23/21
MARKET CAP: $36.0 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	4/4/21
Cash Assets	493.3	1144.0	1132.2
Receivables	568.4	615.1	634.8
Inventory (LIFO)	815.3	964.2	909.8
Other	240.1	254.5	183.2
Current Assets	2117.1	2977.8	2860.0
Accts Payable	550.8	580.1	553.6
Debt Due	735.7	512.9	418.4
Other	722.3	798.7	802.6
Current Liab.	2008.8	1891.7	1774.6

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	5.0%	3.0%	*2.5%*
"Cash Flow"	8.5%	7.5%	*5.0%*
Earnings	10.0%	8.0%	*5.5%*
Dividends	9.5%	8.0%	*5.5%*
Book Value	11.5%	7.0%	*21.5%*

Calendar	QUARTERLY SALES ($ mill.) [A] Mar.Per	Jun.Per	Sep.Per	Dec.31	Full Year
2018	1972	1752	2079	1988	7791
2019	2017	1767	2134	2068	7986
2020	2037	1707	2220	2185	8149
2021	2296	*1825*	*2260*	*2219*	*8600*
2022	*2325*	*1850*	*2320*	*2305*	*8800*

Calendar	EARNINGS PER SHARE [A B] Mar.Per	Jun.Per	Sep.Per	Dec.31	Full Year
2018	1.41	1.14	1.55	1.26	5.36
2019	1.59	1.31	1.61	1.28	5.78
2020	1.29	1.29	2.14	1.39	6.11
2021	1.90	*1.40*	*1.95*	*1.55*	*6.80*
2022	*1.94*	*1.50*	*2.15*	*1.66*	*7.25*

Calendar	QUARTERLY DIVIDENDS PAID ■ [C] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.618	.618	.656	.656	2.55
2018	.656	.656	.722	.722	2.76
2019	.722	.722	.773	.773	2.99
2020	.773	.773	.804	.804	3.15
2021	.804	.804			

BUSINESS: The Hershey Company is the largest U.S. producer of chocolate and nonchocolate confectionery products. (Major brands: *Hershey's, Reese's, Kisses, Cadbury, Ice Breakers, Kit Kat, Almond Joy, Jolly Rancher, Twizzlers, Good 'n' Plenty, Heath, Whoppers,* and *Milk Duds.*) Advertising costs, 6.3% of 2020 sales. Foreign operations accounted for 9.0% of total '20 sales. Has about 16,880 full-time employees. Hershey Trust Company owns less than 1% of common stock & 99.9% of Class B stock; BlackRock, 10.5% of common; Vanguard, 9.1%; Officers & Directors, less than 1.0% (4/21 proxy). Chairman, CEO and Pres.: Michele G. Buck. Inc.: DE. Addr.: 19 E. Chocolate Ave., Hershey, PA 17033. Tel.: 717-534-4200. Internet: www.thehersheycompany.com.

Hershey started 2021 with strong results. The company registered net sales just shy of $2.3 billion and earnings of $1.90 a share, which both topped our estimates. Management attributed the good results to continued strength in the North America business and a rebound in the International and Other segments.

The company likely kept the top- and bottom-line momentum going in the second quarter. Consumer activity has picked up due to progress on the health crisis. Further, increased marketing probably further provided a boost to revenues. While costs may well have remained elevated, we think pricing actions and a more favorable operating environment probably led to sales of around $1.825 billion and earnings of $1.40 a share in the June interim.

The candy maker continues to innovate. It is engaging consumers with new takes on established brands while introducing other food concepts. Most recently, it unveiled *Kit Kat Thins* and *Reese's Snack Cakes*, to name a few. Also of note, the company continues to build out its better-for-you business with the addition of Lily's Confectionery, a maker of low-sugar healthy sweets, for $425 million.

Hershey is well positioned for both the near and long terms. Management has done a good job of positioning the business for success in a post-pandemic world. The North America segment will probably continue to succeed, and the improvement in the other operating units is encouraging. Pricing strategies should help offset inflation. Further, we view the recent investments in the better-for-you category as a key long-term growth driver.

Finances are strong. The company's rock-solid business generates strong cash flow. Accordingly, Hershey has plenty of cash on hand and should have no problem handling its debt load. Moreover, we would not be surprised to see additional acquisition activity in the months ahead.

This stock is ranked to outperform the broader market averages in the year ahead. However, this issue offers limited total return potential for the pull to 2024-2026. Therefore, we recommend subscribers only consider this equity for the near term.

Richard J. Gallagher *July 16, 2021*

(A) Years end Dec. 31; quarters end Sun. on or following end of 13th, 26th, & 39th weeks of year. **(B)** Diluted egs. Excl. n/r gains (losses): '05, (29¢); '07, ($1.15); '08, (52¢); '09, (27¢); '10, (34¢); '11, (8¢); '12, (35¢); '13, (11¢); '14, (21¢); '15, ($1.80); '16, ($1.07); '17, ($1.10); '18, 22¢; '19, (32¢). Figures may not sum due to rounding. Next egs. report due late July. **(C)** Div'ds historically paid mid-March, June, Sept., Dec. ■ Div'd reinvestment plan avail. **(D)** Incl. intangibles. In 2020: $3.5 bill., $16.67/share. **(E)** In millions.

Company's Financial Strength	A+
Stock's Price Stability	95
Price Growth Persistence	55
Earnings Predictability	100

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INGREDION INC. NYSE-INGR

RECENT PRICE 91.44 | P/E RATIO 12.1 (Trailing: 14.7 Median: 14.0) | RELATIVE P/E RATIO 0.60 | DIV'D YLD 2.8% | VALUE LINE

TIMELINESS 4 Lowered 5/14/21
SAFETY 2 Raised 1/15/21
TECHNICAL 2 Lowered 7/16/21
BETA .90 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$52-$115 $84 (-10%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	155	(+70%)	16%
Low	115	(+25%)	9%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	210	238	216
to Sell	212	220	238
Hld's(000)	57115	57211	57473

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
31.85	35.37	45.91	52.77	49.36	57.44	81.96	84.83	85.16	79.47	78.49	78.77	81.01	87.80	92.92	89.34	*99.40*	*103.70*	Sales per sh	*135.70*
2.65	3.21	4.37	5.28	3.79	5.31	7.60	8.39	7.94	8.17	8.42	9.97	10.72	11.18	9.97	9.18	*10.90*	*11.35*	"Cash Flow" per sh	*15.15*
1.19	1.63	2.59	3.52	2.02	3.24	4.68	5.57	5.05	5.18	5.63	7.05	7.67	6.92	6.61	5.94	*7.55*	*7.80*	Earnings per sh [A]	*10.00*
.28	.32	.40	.51	.56	.56	.60	.86	1.40	1.68	1.71	1.85	2.10	2.43	2.51	2.53	*2.57*	*2.61*	Div'ds Decl'd per sh [B]	*3.25*
1.93	2.31	2.40	3.05	1.96	2.09	3.47	4.07	4.01	3.87	3.91	3.92	4.36	5.26	4.91	5.07	*5.10*	*5.20*	Cap'l Spending per sh	*6.40*
16.33	17.95	21.73	18.52	22.60	25.99	27.73	31.65	32.35	30.52	29.94	35.42	40.16	35.90	40.71	44.03	*45.95*	*48.15*	Book Value per sh [D]	*59.30*
74.09	74.09	73.87	74.74	74.39	76.02	75.88	77.00	74.31	71.32	71.62	72.41	72.00	66.53	66.82	67.02	*67.50*	*67.50*	Common Shs Outst'g [C]	*70.00*
20.1	18.8	15.4	10.6	13.1	11.1	10.7	10.0	13.4	14.3	15.2	16.9	16.1	16.4	13.0	13.8	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*13.5*
1.07	1.02	.82	.64	.87	.71	.67	.64	.75	.75	.77	.89	.81	.89	.69	.72			Relative P/E Ratio	*.75*
1.2%	1.0%	1.0%	1.4%	2.1%	1.6%	1.2%	1.5%	2.1%	2.3%	2.0%	1.6%	1.7%	2.1%	2.9%	3.1%			Avg Ann'l Div'd Yield	*2.4%*
6219.0	6532.0	6328.0	5668.0	5621.0	5704.0	5832.0	5841.0	6209.0	5987.0	*6710*	*7000*	Sales ($mill)	*9500*
12.8%	13.7%	12.5%	13.8%	15.7%	17.9%	18.4%	17.2%	14.8%	14.3%	*15.0%*	*15.5%*	Operating Margin	*21.0%*
211.0	211.0	194.0	195.0	194.0	196.0	209.0	247.0	220.0	213.0	*225*	*240*	Depreciation ($mill)	*360*
366.0	435.0	396.0	388.0	409.3	525.8	563.0	497.0	446.0	402.0	*510*	*525*	Net Profit ($mill)	*700*
28.7%	27.8%	26.3%	30.2%	31.3%	33.2%	30.8%	26.9%	27.2%	30.0%	*28.5%*	*29.0%*	Income Tax Rate	*33.5%*
5.9%	6.7%	6.3%	6.8%	7.3%	9.2%	9.7%	8.5%	7.2%	6.7%	*7.6%*	*7.5%*	Net Profit Margin	*7.4%*
1176.0	1427.0	1394.0	1423.0	1208.0	1274.0	1458.0	1192.0	1193.0	1189.0	*1230*	*1250*	Working Cap'l ($mill)	*1400*
1801.0	1724.0	1717.0	1804.0	1819.0	1850.0	1744.0	1931.0	1766.0	1748.0	*1765*	*1790*	Long-Term Debt ($mill)	*1850*
2104.0	2437.0	2404.0	2177.0	2144.0	2565.0	2891.0	2388.0	2720.0	2951.0	*3100*	*3250*	Shr. Equity ($mill)	*4150*
10.3%	11.2%	10.4%	10.5%	11.1%	12.6%	12.9%	12.5%	10.8%	9.4%	*11.5%*	*11.5%*	Return on Total Cap'l	*12.5%*
17.4%	17.8%	16.5%	17.8%	19.1%	20.5%	19.5%	20.8%	16.4%	13.6%	*16.5%*	*16.0%*	Return on Shr. Equity	*17.0%*
15.0%	15.0%	11.8%	11.9%	13.2%	15.0%	13.8%	13.2%	10.0%	7.6%	*11.0%*	*10.5%*	Retained to Com Eq	*11.5%*
14%	16%	28%	33%	31%	27%	29%	37%	39%	44%	*34%*	*34%*	All Div'ds to Net Prof	*33%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $2197 mill. **Due in 5 Yrs** $440 mill.
LT Debt $1749 mill. **LT Interest** $105 mill.
(40% of Cap'l)
Leases, Uncapitalized Annual rentals $51 mill.
Pension Assets-12/20 $688 mill. **Oblig.** $684 mill.
Preferred Stock None

Common Stock 66,975,448 shares
as of 4/30/21

Market Cap: $6.1 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	268	665	577
Receivables	977	1011	1025
Inventory (FIFO)	861	917	950
Other	54	54	58
Current Assets	2160	2647	2610
Accts Payable	504	599	932
Debt Due	82	438	448
Other	381	421	- -
Current Liab.	967	1458	1380

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	5.5%	2.0%	*7.0%*
"Cash Flow"	7.5%	4.5%	*7.0%*
Earnings	8.5%	4.0%	*7.5%*
Dividends	16.5%	9.5%	*4.5%*
Book Value	6.0%	5.5%	*6.5%*

Calendar	QUARTERLY SALES ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1469.0	1496.0	1450.0	1426.0	5841.0
2019	1536.0	1550.0	1574.0	1549.0	6209.0
2020	1543.0	1349.0	1502.0	1593.0	5987.0
2021	1614.0	*1680*	*1700*	*1716*	*6710*
2022	*1720*	*1740*	*1760*	*1780*	*7000*

Calendar	EARNINGS PER SHARE [A] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1.94	1.66	1.70	1.61	6.92
2019	1.53	1.66	1.82	1.60	6.61
2020	1.59	1.10	1.59	1.66	5.94
2021	1.86	*1.91*	*1.93*	*1.85*	*7.55*
2022	*1.91*	*1.92*	*1.99*	*1.98*	*7.80*

Calendar	QUARTERLY DIVIDENDS PAID [B] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.50	.50	.50	.60	2.10
2018	.60	.60	.60	.625	2.43
2019	.625	.625	.625	.63	2.51
2020	.63	.63	.63	.64	2.53
2021	.64	.64	.64		

BUSINESS: Ingredion Incorporated (formerly Corn Products International) one of the world's largest corn refiners, produces high-quality food ingredients (high fructose, glucose, and maltose corn syrups) and industrial products (starches, enzymes, co-products) derived from the wet milling of corn and other starch-based materials. Geographic sales breakdown for 2020: North America (61.2%), South America (15.3%), Asia Pacific (13.6%), Europe, Middle East and Africa (9.9%). The Vanguard Group owns 9.1% of common stock; BlackRock, 8.7%; officers and directors, less than 1.0% (4/21 proxy). Chairman: Ilene S. Gordon. CEO: James P. Zallie. Inc.: DE. Address: 5 Westbrook Corporate Center, Westchester, Illinois 60154. Tel.: 708-551-2600. Internet: www.ingredion.com.

Ingredion got off to a strong start in 2021. Share net was $1.86 for the first quarter, 17% above the year-ago total of $1.59, stemming partly from diminished net corn costs in North America and a favorable price mix in South America. It's also important to mention that despite the ongoing presence of COVID-19 the company managed to avoid any major supply chain interruptions, and was able to continue to ship products from its global network of manufacturing facilities (numbering 46) during the March period. Right now, we expect share net to jump 27%, to $7.55, versus 2020's $5.94 tally. Concerning 2022, profits might reach $7.80 a share, as operating margins widen further. **Please be aware that first-quarter earnings exclude an impairment charge of $5.35 a share.** This was incurred for the "held for sale" treatment of certain net assets that will be contributed to the pending joint venture with Grupo Arco, which is expected to serve customers in Argentina, Chile, and Uruguay. (Ingredion would hold a 49% stake in the business, estimated to generate annual sales of more than $300 million.)

Good things appear to be in store out to the 2024-2026 horizon. The company is a leading provider of ingredients to some industries with promising growth potential, including food, beverage, and animal nutrition, with a presence in over 120 countries. Also, more innovations are quite possible, assuming, of course, adequate expenditures on research and development. Another plus is partnerships, like the one Ingredion set up recently with Amyris, Inc. for an exclusive license to sell the latter's zero-calorie, nature-based, fermented Reb M sweetener. In addition, Ingredion holds a minority ownership interest (31%) in Amyris' Brazilian manufacturing facility that is currently under construction. Finally, thanks to the solid balance sheet, acquisitions are plausible. To that end, it paid $42 million for KaTech, a Germany-based provider of advanced texture and stabilization solutions to the food and beverage industry.

Although the equity possesses a 4 (Below Average) Timeliness rank, it does offer healthy long-term total return potential.

Frederick L. Harris, III *July 16, 2021*

(A) Diluted shares. Excludes nonrecurring gains/(losses): '09, ($1.58); '10, ($1.04); '11, $0.64; '12, ($0.09); '14, ($0.44); '15, ($0.10); '16, ($0.55); '17, ($0.59); '18, ($0.75); '19, ($0.49); '20, ($0.79); Q1 '21, ($5.52). Quarters may not add due to rounding. Next earnings report due late July.
(B) Dividends historically paid in late January, April, July, and October.
(C) In millions.
(D) Includes intangibles. At 12/31/20: $1,346 mill., $20.08 per share.

Company's Financial Strength	B++
Stock's Price Stability	90
Price Growth Persistence	45
Earnings Predictability	90

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J.B. HUNT TRANSPORT NDQ-JBHT

RECENT PRICE 165.37 | P/E RATIO 24.0 (Trailing: 29.5 Median: 22.0) | RELATIVE P/E RATIO 1.26 | DIV'D YLD 0.7% | VALUE LINE 323

TIMELINESS 3 Lowered 2/19/21
SAFETY 1 Raised 2/19/21
TECHNICAL 3 Lowered 7/23/21
BETA .95 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$125-$255 $190 (15%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	200	(+20%)	6%
Low	165	(Nil)	1%

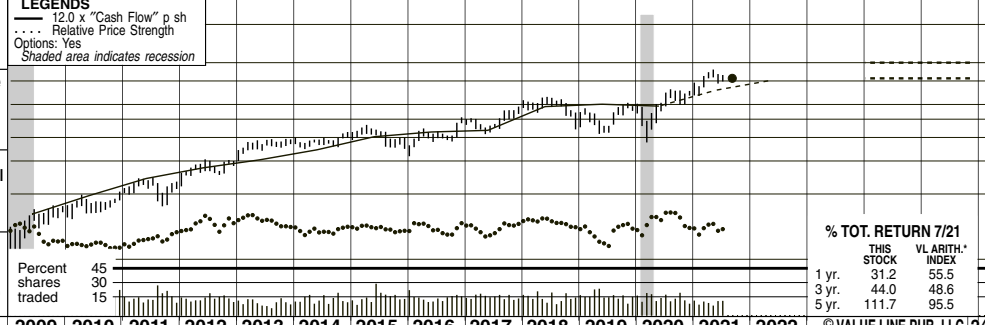
Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	232	205	209
to Sell	180	237	230
Hld's(000)	75892	76188	77604

	41.2	49.1	61.2	78.6	85.5	93.5	102.4	116.8	131.7	122.3	144.3	183.8
High:												
Low:	29.5	34.4	43.9	60.1	69.3	69.7	63.6	83.4	88.4	83.6	75.3	133.4

LEGENDS
12.0 x "Cash Flow" p sh
Relative Price Strength
Options: Yes
Shaded area indicates recession

Target Price Range 2024 2025 2026



% TOT. RETURN 7/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	31.2	55.5
3 yr.	44.0	48.6
5 yr.	111.7	95.5

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
20.34	23.02	28.02	29.60	25.18	31.22	38.71	43.01	47.63	52.89	54.30	58.90	65.51	79.25	86.29	91.21	*107.60*	*115.95*	Revenues per sh	*130.00*
2.52	2.79	3.33	3.21	2.61	3.27	4.03	4.59	5.08	5.74	6.73	7.13	7.29	9.75	10.01	9.78	*11.90*	*13.50*	"Cash Flow" per sh	*15.30*
1.38	1.44	1.52	1.57	1.10	1.56	2.11	2.59	2.87	3.16	3.66	3.81	3.75	5.64	5.21	4.74	*6.60*	*7.70*	Earnings per sh [A]	*8.30*
.24	.32	.36	.40	.44	.48	.52	.71	.45	.80	.84	.88	.92	.96	1.04	1.08	*1.18*	*1.26*	Div'ds Decl'd per sh [B]	*1.60*
1.86	3.34	2.92	2.41	2.78	2.16	4.30	3.74	4.21	6.94	6.36	5.74	4.80	9.16	8.04	6.99	*7.60*	*8.20*	Cap'l Spending per sh	*10.00*
5.31	5.26	2.76	4.20	5.06	4.72	4.85	6.74	8.64	10.33	11.41	12.70	16.76	19.33	21.34	24.61	*29.35*	*34.35*	Book Value per sh	*51.00*
153.81	144.56	124.57	126.06	127.24	121.49	116.93	117.53	117.24	116.58	113.95	111.31	109.75	108.71	106.21	105.65	*105.00*	*103.50*	Common Shs Outst'g [C]	*100.00*
15.0	15.6	18.0	19.9	25.8	22.5	20.4	21.2	25.2	24.2	22.2	21.6	26.0	20.7	20.0	25.1	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*22.0*
.80	.84	.96	1.20	1.72	1.43	1.28	1.35	1.42	1.27	1.12	1.13	1.31	1.12	1.07	1.29			Relative P/E Ratio	*1.20*
1.2%	1.4%	1.3%	1.3%	1.5%	1.4%	1.2%	1.3%	.6%	1.0%	1.0%	1.1%	.9%	.8%	1.0%	.9%			Avg Ann'l Div'd Yield	*.9%*
4526.8	5055.0	5584.6	6165.4	6187.6	6555.5	7189.6	8614.9	9165.3	9636.6	*11300*	*12000*	Revenues ($mill)	*13000*
14.5%	15.0%	14.9%	15.0%	17.1%	16.5%	14.0%	14.5%	14.0%	12.9%	*13.5%*	*14.0%*	Operating Margin	*14.0%*
213.9	229.2	253.4	294.5	339.6	361.5	383.5	435.9	499.1	527.4	*550*	*600*	Depreciation ($mill)	*700*
257.0	310.4	342.4	374.8	427.2	432.1	416.3	623.6	564.0	506.0	*700*	*800*	Net Profit ($mill)	*830*
38.2%	38.5%	38.2%	38.0%	38.1%	37.9%	30.1%	19.5%	22.6%	24.0%	*24.5%*	*24.5%*	Income Tax Rate	*25.0%*
5.7%	6.1%	6.1%	6.1%	6.9%	6.6%	5.8%	7.2%	6.2%	5.3%	*6.3%*	*6.7%*	Net Profit Margin	*6.4%*
75.0	51.7	d32.1	109.0	327.0	372.6	416.9	150.6	445.5	757.3	*975*	*1150*	Working Cap'l ($mill)	*1450*
699.2	585.3	458.4	683.5	1005.0	986.3	1085.6	898.4	1295.7	1305.4	*1300*	*1450*	Long-Term Debt ($mill)	*2250*
567.5	791.9	1012.5	1204.5	1300.4	1414.1	1839.3	2101.4	2267.0	2600.1	*3080*	*3555*	Shr. Equity ($mill)	*5105*
21.4%	23.5%	24.1%	20.6%	19.1%	18.5%	14.7%	21.5%	16.6%	13.6%	*16.5%*	*16.5%*	Return on Total Cap'l	*11.5%*
45.3%	39.2%	33.8%	31.1%	32.9%	30.6%	22.6%	29.7%	24.9%	19.5%	*23.0%*	*22.5%*	Return on Shr. Equity	*16.0%*
34.3%	28.7%	28.6%	23.3%	25.4%	23.6%	17.1%	24.7%	19.9%	15.1%	*18.5%*	*19.0%*	Retained to Com Eq	*13.0%*
24%	27%	15%	25%	23%	23%	24%	17%	20%	23%	*18%*	*16%*	All Div'ds to Net Prof	*19%*

CAPITAL STRUCTURE as of 6/30/21
Total Debt $1303.5 mill. **Due in 5 Yrs** $612.5 mill.
LT Debt $1303.5 mill. **LT Interest** $48.0 mill.
(Total interest coverage: 15.0X)
(32% of Cap'l)

No Defined Benefit Pension Plan
Leases, Uncapitalized Annual Rentals $49.1 mill.
Pfd Stock None

Common Stock 105,196,031 shs.

MARKET CAP: $17.4 billion (Large Cap)

CURRENT POSITION

($MILL.)	2019	2020	6/30/21
Cash Assets	35.0	313.3	570.9
Receivables	1011.8	1124.4	1293.9
Other	434.5	404.4	344.5
Current Assets	1481.3	1842.1	2209.3
Accts Payable	602.6	587.5	674.9
Debt Due	- -	- -	- -
Other	433.2	497.3	553.5
Current Liab.	1035.8	1084.8	1228.4

ANNUAL RATES

of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	11.5%	10.5%	*7.0%*
"Cash Flow"	12.5%	11.0%	*7.5%*
Earnings	14.0%	10.0%	*8.0%*
Dividends	9.0%	8.0%	*7.5%*
Book Value	16.5%	16.5%	*15.5%*

QUARTERLY REVENUES ($ mill.)

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1948.2	2139.0	2209.8	2317.9	8614.9
2019	2089.6	2261.8	2363.7	2450.2	9165.3
2020	2280.8	2145.6	2472.5	2737.7	9636.6
2021	2618.1	2908.4	*2770*	*3003.5*	*11300*
2022	*2775*	*3000*	*3025*	*3200*	*12000*

EARNINGS PER SHARE [A]

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1.07	1.37	1.47	1.73	5.64
2019	1.09	1.37	1.40	1.35	5.21
2020	.98	1.14	1.18	1.44	4.74
2021	1.37	1.61	*1.75*	*1.87*	*6.60*
2022	*1.65*	*1.90*	*2.00*	*2.15*	*7.70*

QUARTERLY DIVIDENDS PAID [B]

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.23	.23	.23	.23	.92
2018	.24	.24	.24	.24	.96
2019	.26	.26	.26	.26	1.04
2020	.27	.27	.27	.27	1.08
2021	.28	.30	.30		

BUSINESS: J.B. Hunt Transport Services, Inc. is a holding company for J.B. Hunt Transport, Inc., one of the largest irregular-route truckload carriers in the United States, transporting general merchandise throughout the continental U.S., Canada, and Mexico. Has truckload, intermodal, and dedicated contract operations. As of 12/31/20, owned 16,627 tractors and 125,979 trailers and containers. Labor costs: 24.4% of revenues. Has about 30,310 employees. Johnelle Hunt owns 17.3% of stock; Vanguard Group, 9.3%; T. Rowe Price Associates, 8.9%; off./dir., 3.3% (3/21 Proxy). Chairman: Kirk Thompson. CEO & President: John N. Roberts III. Inc.: AR. Address: 615 J.B. Hunt Corporate Drive, Lowell, Arkansas 72745-0130. Telephone: 479-820-0000. Internet: www.jbhunt.com.

J.B. Hunt Transport Services recorded strong June-period results. Revenues jumped 36%, year over year, with all of the segments producing double-digit gains. Intermodal, J.B. Hunt's largest division, was able to overcome a lack of available rail capacity, with volumes increasing a healthy 6%. A good showing from the Eastern Network was the primary catalyst. Meantime, the Integrated Capacity Solutions and JB Truck segments produced respective revenue gains of 100% and 70%, with both able to source and secure shipping capacity for customers via its Marketplace for J.B. Hunt 360 (more below). These gains helped J.B. Hunt offset a mixed performance from the Dedicated Contract Services business, where a 17% revenue advance was not enough to overcome higher operating costs. All told, share earnings jumped an impressive 41%. **We expect the spirited performance to continue.** The freight and shipping company should continue to benefit from the sharp recovery in the domestic economy. The strong consumer sector (the Conference Board's July consumer confidence reading was at its highest level since prior to the coronavirus pandemic), combined with an industrywide truck shortage, should enable J.B. Hunt to raise prices to offset higher operating (i.e., driver salaries and fuel) costs. Accordingly we look for respective year-to-year earnings advances of 40% and 15%-20% in 2021 and 2022.

Business secured through the Marketplace for J.B. Hunt 360 continues to expand. Indeed, total freight transactions for the digital platform reached $500 million in the June quarter, up nearly 80% from the year-earlier period. Continued expansion of the digital platform, which is a faster and more cost-efficient way of securing customers, would likely support operating margins over the 3- to 5-year pull.

Our investment advice has not changed since the time of the mid-May review. Even with the pullback in price on profit taking following the last quarterly report, we think this neutrally ranked stock is a bit expensive. Appreciation potential, save for those with an 18-month investment horizon, has been discounted by the phenomenal recovery in share price over the last 15-plus months.

William G. Ferguson *August 20, 2021*

(A) Based on diluted shares. Excludes net nonrecurring gains (losses): '05, (10¢); '07, 3¢; '08, (1¢); '09, (5¢); '17, $2.43; '18, ($1.21); '19, (44¢). Next earnings report due mid-October.

(B) Dividend payment dates mid-February, May, August, and late November. Raised quarterly dividend by $0.01 a share and paid out normal Q1 outlay in Q4 of 2012.

(C) In millions.

Company's Financial Strength	A+
Stock's Price Stability	85
Price Growth Persistence	85
Earnings Predictability	80

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J&J SNACK FOODS NDQ-JJSF

RECENT PRICE 172.58 | P/E RATIO NMF (Trailing:NMF Median: 28.0) | RELATIVE P/E RATIO NMF | DIV'D YLD 1.5% | VALUE LINE

TIMELINESS 3 Raised 5/14/21
SAFETY 1 Raised 4/20/18
TECHNICAL 2 Raised 7/16/21
BETA .95 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$84-$216 $150 (-15%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	185	(+5%)	3%
Low	155	(-10%)	-1%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	104	106	101
to Sell	102	100	104
Hld's(000)	14011	13906	14124

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
25.02	27.88	30.42	33.57	35.25	37.68	39.73	44.24	46.46	49.26	52.27	53.18	58.09	60.69	62.79	54.03	*56.85*	*63.15*	Sales per sh [A]	*71.45*
2.74	2.91	3.13	2.92	3.45	3.94	3.93	4.28	4.99	5.54	5.81	6.22	6.52	6.95	7.59	3.77	*5.20*	*6.85*	"Cash Flow" per sh	*8.40*
1.40	1.57	1.69	1.47	2.21	2.59	2.58	2.86	3.41	3.82	3.73	4.05	4.21	4.46	5.00	.96	*2.30*	*4.10*	Earnings per sh [A B]	*5.65*
.25	.30	.34	.37	.39	.43	.47	.52	.64	1.28	1.44	1.56	1.68	1.80	2.00	2.30	*2.35*	*2.50*	Div'ds Decl'd per sh [C] ■	*3.00*
1.18	1.07	1.22	1.22	1.47	1.81	1.56	2.28	1.92	2.08	2.68	2.61	3.87	3.20	3.02	3.06	*2.35*	*2.90*	Cap'l Spending per sh	*2.75*
12.85	14.23	15.80	16.90	18.51	20.58	23.09	25.32	27.66	30.13	32.12	34.17	36.56	40.48	44.13	42.80	*42.55*	*44.15*	Book Value per sh [D]	*48.90*
18.27	18.47	18.70	18.75	18.53	18.49	18.73	18.78	18.68	18.67	18.68	18.67	18.66	18.75	18.90	18.92	*19.00*	*19.00*	Common Shs Outst'g [E]	*20.00*
17.7	20.0	22.5	20.6	16.1	16.2	18.3	18.7	20.9	23.8	28.8	27.9	30.7	32.0	32.3	NMF	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*30.0*
.94	1.08	1.19	1.24	1.07	1.03	1.15	1.19	1.17	1.25	1.45	1.46	1.54	1.73	1.72	NMF			Relative P/E Ratio	*1.65*
1.0%	1.0%	.9%	1.2%	1.1%	1.0%	1.0%	1.0%	.9%	1.4%	1.3%	1.4%	1.3%	1.3%	1.2%	1.5%			Avg Ann'l Div'd Yield	*1.3%*
744.1	830.8	867.7	919.5	976.3	992.8	1084.2	1138.3	1186.5	1022.0	*1080*	*1200*	Sales ($mill) [A]	*1430*
13.7%	13.4%	14.5%	15.1%	15.3%	15.4%	14.8%	13.8%	14.0%	6.9%	*14.0%*	*15.0%*	Operating Margin	*18.0%*
25.0	26.2	28.8	31.7	38.3	40.1	42.4	46.4	48.6	53.0	*55.0*	*55.0*	Depreciation ($mill)	*55.0*
48.5	54.1	64.4	71.8	70.2	76.0	79.2	83.9	94.8	18.3	*45.0*	*80.0*	Net Profit ($mill)	*115*
37.0%	37.3%	36.1%	35.4%	37.3%	35.0%	35.2%	29.0%	25.1%	14.7%	*27.5%*	*27.5%*	Income Tax Rate	*27.5%*
6.5%	6.5%	7.4%	7.8%	7.2%	7.7%	7.3%	7.4%	8.0%	1.8%	*4.0%*	*6.5%*	Net Profit Margin	*7.9%*
184.0	226.6	181.5	179.6	229.7	252.8	262.8	264.9	385.2	365.5	*375*	*400*	Working Cap'l ($mill)	*540*
.5	.3	.1	.4	1.2	1.2	.9	.8	.7	.4	*.5*	*.5*	Long-Term Debt ($mill)	*.5*
432.4	475.5	516.6	562.5	599.9	638.0	682.3	759.1	833.8	809.5	*810*	*840*	Shr. Equity ($mill)	*980*
11.2%	11.4%	12.5%	12.8%	11.7%	11.9%	11.6%	11.0%	11.4%	2.3%	*6.0%*	*10.0%*	Return on Total Cap'l	*12.0%*
11.2%	11.4%	12.5%	12.8%	11.7%	11.9%	11.6%	11.1%	11.4%	2.3%	*5.5%*	*9.5%*	Return on Shr. Equity	*11.5%*
9.2%	9.4%	10.2%	9.0%	7.3%	7.4%	7.1%	6.7%	7.0%	NMF	*NMF*	*3.5%*	Retained to Com Eq	*5.5%*
18%	18%	18%	29%	37%	38%	39%	39%	39%	NMF	*102%*	*61%*	All Div'ds to Net Prof	*53%*

CAPITAL STRUCTURE as of 3/27/21
Total Debt $.6 mill. **Due in 5 Yrs** $.6 mill.
LT Debt $.3 mill. **LT Interest** $.02 mill.

Leases, Uncapitalized Annual rentals $14.8 mill.

No Defined Pension Benefit Plan
Pfd Stock None

Common Stock 19,035,968 shs.
4/23/21
MARKET CAP: $3.3 billion (Mid Cap)

CURRENT POSITION ($MILL.)	2018	2019	3/27/21
Cash Assets	132.5	243.5	259.8
Receivables	132.3	140.9	137.7
Inventory (FIFO)	112.9	116.2	115.6
Other	5.1	5.8	17.2
Current Assets	382.8	506.4	530.3
Accts Payable	69.6	72.0	83.5
Debt Due	.3	.3	.3
Other	48.0	48.9	56.1
Current Liab.	117.9	121.2	143.2

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	5.0%	3.5%	*2.0%*
"Cash Flow"	6.0%	2.5%	*7.0%*
Earnings	5.0%	-1.0%	*10.0%*
Dividends	18.0%	12.5%	*8.0%*
Book Value	8.5%	7.0%	*3.0%*

Fiscal Year Ends	QUARTERLY SALES ($ mill.) [A] Dec.Per	Mar.Per	Jun.Per	Sep.Per	Full Fiscal Year
2018	265.2	266.1	306.3	300.7	1138.3
2019	271.6	276.3	326.7	311.9	1186.5
2020	282.9	272.0	214.6	252.5	1022.0
2021	241.0	256.2	*282*	*300.8*	*1080*
2022	*270*	*300*	*315*	*315*	*1200*

Fiscal Year Ends	EARNINGS PER SHARE [A B] Dec.Per	Mar.Per	Jun.Per	Sep.Per	Full Fiscal Year
2018	.88	.95	1.39	1.24	4.46
2019	.93	1.08	1.63	1.36	5.00
2020	.89	.38	d.67	.35	.96
2021	.09	.32	*.76*	*1.13*	*2.30*
2022	*.85*	*.95*	*1.10*	*1.20*	*4.10*

Calendar	QUARTERLY DIVIDENDS PAID [C] ■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.42	.42	.42	.42	1.68
2018	.45	.45	.45	.45	1.80
2019	.50	.50	.50	.50	2.00
2020	.575	.575	.575	.575	2.30
2021	.575	.633			

BUSINESS: J&J Snack Foods Corp. manufactures nutritional snack foods and distributes frozen carbonated and juice beverages mainly in the United States, Mexico and Canada. It sells to snack bars, food stands, fast food operators, stadiums, sports arenas, warehouse club stores, schools, colleges, movie theaters, and others. In addition, it sells various food products through a chain of specialty snack food retail outlets. Has 4,600 employees. Officers/directors own 21% of company; BlackRock Fund Advisors, 13%; The Vanguard Group, 9%; (12/20 proxy). Incorporated: New Jersey. Pres. & CEO: Dan Fachner. Chairman: Gerald B. Schreiber. Address: 6000 Central Highway, Pennsauken, New Jersey 08109. Telephone: 856-665-9533. Internet: www.jjsnack.com.

Despite a poor March-quarter performance, J&J Snack Foods profits ought to perk up over the course of fiscal 2021. While the March-quarter top and bottom lines declined 6% and 16%, respectively, from the previous-year tallies, performance improved on a sequential basis. Moreover, sales to customers in the Food Service segment (which accounted for 66% of total sales) declined only 1% from the previous-year period as volumes are beginning to recover nicely, reflecting a return to more-favorable pre-COVID-19 levels. To wit, expanded capacity at key venues (namely theaters, amusement parks, and sports arenas), especially amid the rise in vaccination in North America, is allowing more consumers to confidently leave their homes. These are signs that business momentum is picking up previously lost distribution. The Retail unit remains strong as sales grew 17% from the previous-year period, with an increase in consumer traffic and greater sales of soft pretzels and frozen juices. The Frozen Beverages unit also improved on a sequential basis, as sales declined at a lesser rate. Improved volumes and a strong focus on cost efficiencies should lift margins and profits in the back half of the year.

Looking at the next year, the top and bottom lines may climb about 11% and 78%, respectively, to $1.2 billion and $4.10 a share. This is based on our assumption that schools will be back in full swing in the fall (early 2022) and theaters are expected to reach 80%-85% capacity by the end of fiscal 2021. As a result, the prolonged impact of COVID-19 on consumer behavior ought to taper. This should help the mainstay Food Service segment make a comeback. Too, new product distribution and promotional planning initiatives should begin to materialize by then. In early June, the company debuted three new *ICEE* products for the summer season that expands its frozen portfolio.

A new CEO is at the helm. Effective May 11th, the company appointed Dan Fachner (who became president in May, 2020), as chief executive officer. Mr. Fachner succeeded Gerald Schreiber (founder), who will remain chairman.

At the recent price, we recommend most investors wait on the sidelines.

Oriatal J. Haiby *July 16, 2021*

(A) Fiscal year ends last Saturday in September. **(B)** Diluted earnings. Qrtly may not sum due to changes in share count. Excludes nonrecurring gain: 2011, $0.35; 2018, $1.05. Next earnings report due early Aug. **(C)** Dividends historically paid early January, April, July, and October. ■ Div'd reinvest. plan available. **(D)** Includes intangibles. At 9/26/20: $203.5 million, or $10.76 a share. **(E)** In millions.

Company's Financial Strength	A+
Stock's Price Stability	85
Price Growth Persistence	95
Earnings Predictability	35

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J. HENRY & ASSOC. NDQ-JKHY

RECENT PRICE 175.81 | P/E RATIO 40.7 (Trailing: 45.3 Median: 25.0) | RELATIVE P/E RATIO 2.10 | DIV'D YLD 1.0% | VALUE LINE

TIMELINESS 3 Raised 6/4/21
SAFETY 1 Raised 8/11/17
TECHNICAL 5 Lowered 7/2/21
BETA .85 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$122-$262 $192 (10%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	190	(+10%)	3%
Low	155	(-10%)	-2%

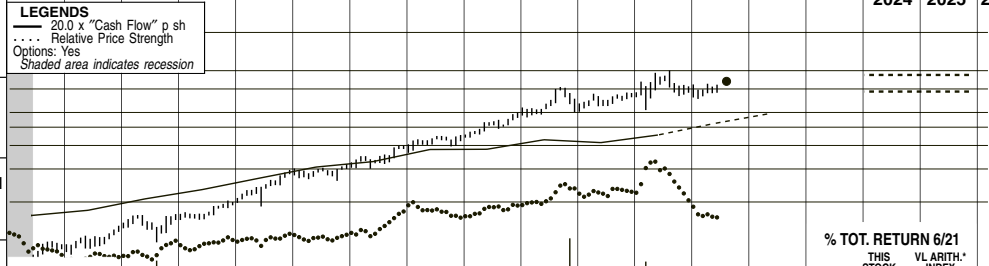
Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	296	308	272
to Sell	274	266	311
Hld's(000)	67786	67572	66614

Percent shares traded 21 14 7

	High:	30.0	34.5	40.7	59.4	63.8	79.9	91.1	119.8	163.7	152.9	201.0	177.0
	Low:	21.0	24.4	32.1	37.9	51.9	60.1	73.2	88.1	112.8	121.0	123.6	141.6

LEGENDS
20.0 x "Cash Flow" p sh
Relative Price Strength
Options: Yes
Shaded area indicates recession



Target Price Range 2024 2025 2026

% TOT. RETURN 6/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	-10.4	63.9
3 yr.	29.3	53.6
5 yr.	97.9	108.0

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
5.82	6.30	7.50	8.60	8.92	9.80	11.20	11.94	13.25	14.64	15.54	17.21	18.48	19.91	20.17	22.15	*23.50*	*25.50*	Revenues per sh [A]	*30.35*
1.14	1.31	1.58	1.68	1.70	1.81	2.08	2.33	2.68	3.07	3.28	3.81	3.82	4.29	4.15	4.55	*5.25*	*5.95*	"Cash Flow" per sh	*8.05*
.81	.96	1.14	1.17	1.22	1.38	1.59	1.78	2.04	2.36	2.59	3.12	3.14	3.65	3.52	3.86	*4.05*	*4.65*	Earnings per sh [A]	*6.35*
.17	.20	.24	.28	.32	.36	.40	.44	.56	.84	.94	1.06	1.18	1.36	1.54	1.66	*1.80*	*1.92*	Div'ds Decl'd per sh [B]	*2.45*
.63	.48	.38	.36	.38	.64	.37	.48	.54	.40	.67	.72	.54	.52	.70	.70	*.85*	*.90*	Cap'l Spending per sh	*.95*
5.62	6.12	6.72	6.96	7.49	8.79	10.19	11.43	12.58	12.56	12.26	12.66	13.33	16.42	18.56	20.22	*21.95*	*23.45*	Book Value per sh [D]	*27.20*
92.05	93.96	89.10	86.40	83.61	85.40	86.36	86.03	85.24	82.64	80.85	78.70	77.42	77.17	76.99	76.63	*74.00*	*72.50*	Common Shs Outst'g [C]	*70.00*
23.5	20.8	19.5	21.5	15.3	17.0	18.1	18.0	20.1	23.3	24.1	24.8	29.1	31.5	39.7	40.0	*39.9*		Avg Ann'l P/E Ratio	*27.0*
1.25	1.12	1.04	1.29	1.02	1.08	1.14	1.15	1.13	1.23	1.21	1.30	1.46	1.70	2.11	2.05	*2.02*		Relative P/E Ratio	*1.40*
.9%	1.0%	1.1%	1.1%	1.7%	1.5%	1.4%	1.4%	1.4%	1.5%	1.5%	1.4%	1.3%	1.2%	1.1%	1.1%	*1.1%*		Avg Ann'l Div'd Yield	*1.4%*
966.9	1027.1	1129.4	1210.1	1256.2	1354.6	1431.1	1536.6	1552.7	1697.1	*1740*	*1850*	Revenues ($mill) [AE]	*2125*
26.7%	27.4%	28.1%	30.2%	29.6%	30.4%	29.2%	28.5%	25.4%	25.5%	*28.5%*	*29.5%*	Operating Margin	*32.5%*
41.9	45.3	52.0	52.9	54.2	50.6	49.7	48.0	47.4	52.2	*90.0*	*95.0*	Depreciation ($mill)	*120*
137.5	155.0	176.6	201.1	211.2	248.9	245.8	283.1	271.9	296.7	*300*	*335*	Net Profit ($mill)	*445*
33.8%	33.1%	32.0%	35.4%	33.3%	31.0%	33.0%	27.6%	21.7%	22.2%	*22.0%*	*22.0%*	Income Tax Rate	*22.0%*
14.2%	15.1%	15.6%	16.6%	16.8%	18.4%	17.2%	18.4%	17.5%	17.5%	*17.2%*	*18.2%*	Net Profit Margin	*20.9%*
d26.5	66.5	35.6	d44.4	49.9	d11.8	48.8	d19.4	99.5	174.2	*250*	*300*	Working Cap'l ($mill)	*350*
127.9	106.2	7.4	3.7	50.1	- -	50.0	- -	50.0	.2	*200*	*150*	Long-Term Debt ($mill)	*Nil*
879.8	983.1	1072.2	1038.2	991.5	996.2	1032.1	1266.8	1429.0	1549.7	*1625*	*1700*	Shr. Equity ($mill)	*1905*
14.0%	14.4%	16.7%	19.4%	20.4%	25.1%	22.8%	22.4%	19.1%	19.2%	*16.5%*	*18.0%*	Return on Total Cap'l	*23.5%*
15.6%	15.8%	16.5%	19.4%	21.3%	25.0%	23.8%	22.3%	19.0%	19.1%	*18.5%*	*20.0%*	Return on Shr. Equity	*23.5%*
11.7%	11.9%	12.0%	12.5%	13.6%	16.5%	14.9%	14.1%	10.7%	10.9%	*10.5%*	*11.5%*	Retained to Com Eq	*14.5%*
25%	25%	27%	35%	36%	34%	37%	37%	44%	43%	*43%*	*41%*	All Div'ds to Net Prof	*39%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $200.1 mill. **Due in 5 Yrs** $200.1 mill.
LT Debt $200.1 mill. **LT Interest** $1.2 mill. (11% of Cap'l)
Leases, Uncapitalized: Annual rentals $13.4 mill.

No Defined Benefit Pension Plan

Pfd Stock None

Common Stock 74,282,912 shs.
as of 4/29/21
MARKET CAP: $13.1 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	96.6	213.3	70.1
Receivables	310.1	300.9	207.7
Other	162.8	154.8	164.9
Current Assets	569.5	669.0	442.7
Accts Payable	9.9	9.9	7.8
Debt Due	- -	- -	- -
Other	460.1	484.9	293.9
Current Liab.	470.0	494.8	301.7

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	8.5%	7.5%	*6.5%*
"Cash Flow"	9.5%	7.5%	*11.0%*
Earnings	11.5%	9.5%	*9.5%*
Dividends	17.0%	14.5%	*8.5%*
Book Value	9.0%	8.0%	*6.5%*

Fiscal Year Ends	QUARTERLY REVENUES ($ mill.) [AE] Sep. 30	Dec. 31	Mar. 31	Jun. 30	Full Fiscal Year
2018	359.9	374.8	384.7	417.2	1536.6
2019	392.5	386.3	380.4	393.5	1552.7
2020	438.0	419.1	429.4	410.6	1697.1
2021	451.8	422.4	433.8	*432*	*1740*
2022	*485*	*455*	*465*	*445*	*1850*

Fiscal Year Ends	EARNINGS PER SHARE [A] Sep. 30	Dec. 31	Mar. 31	Jun. 30	Full Fiscal Year
2018	.82	.80	.93	1.10	3.65
2019	1.08	.88	.77	.79	3.52
2020	1.16	.94	.96	.80	3.86
2021	1.19	.94	.95	*.97*	*4.05*
2022	*1.30*	*1.10*	*1.15*	*1.10*	*4.65*

Calendar	QUARTERLY DIVIDENDS PAID [B] Mar.31	June.30	Sept.30	Dec.31	Full Year
2017	.31	.31	.31	.31	1.24
2018	.37	.37	.37	.37	1.48
2019	.40	.40	.40	.40	1.60
2020	.43	.43	.43	.43	1.72
2021	.46	.46			

BUSINESS: Jack Henry & Associates Inc. provides integrated computer systems and services to banks and other financial institutions. It has developed several banking application software systems that it markets, along with computer hardware, to financial institutions. In addition, it performs data conversion, software installation, and software customization for the implementation of its systems. Acquired BancData Solutions, 4/00; Symitar Systems, 6/00; Transcend Systems, 3/02. It has a business partnership with SEDONA, an IBM Advanced Business Partner. Has about 6,717 employees. Off. & dir. own less than 1% of stock (10/20 Proxy). Chrmn.: John Prim. CEO: Dave Foss. Inc.: DE. Addr.: 663 Highway 60, P.O. Box 807, Monett, MO 65708. Tel.: 417-235-6652. Web: www.jackhenry.com.

Jack Henry reported decent fiscal third-quarter results (year ended June 30, 2021). On both an annual and sequential basis, revenues of $434 million improved modestly, while earnings of $0.95 a share were about on par with respective tallies. During the March period, Jack Henry completed its card processing system conversion and continued to capitalize on strong technological and cloud demand trends among financial institutions (inked 15 core deals and established strategic collaborations). However, Services and Support segment revenues remained under pressure from lower deconversion and hardware fees. On balance, we suspect that the integrated IT services provider registered fourth-quarter financial results that probably mirrored the third-quarter showing.

Share net is poised to meaningfully accelerate this fiscal year. Operating margin expansion is apt to be the main growth driver, supported by our expectation for more-modest cost of goods as a percentage of total sales. Meanwhile, SG&A and R&D expenses ought to trend relatively flat. In sum, we are maintaining our fiscal 2022 bottom-line estimate of $4.65 per share, representing a healthy double-digit year-over-year advance.

The company recently replenished its nearly tapped stock repurchase authorization. Specifically, the board announced it has boosted its ongoing repurchase program by five million shares. The balance sheet is rock solid, suggesting that most of the buyback activity, which will likely span several years, may be funded primarily through strong cash flow. Furthermore, Jack Henry boasts an enviable track record of annual dividend increases, despite offering a subpar yield at present.

The equity is neutrally ranked for relative year-ahead price performance (Timeliness: 3). Jack Henry shares have regained some momentum in recent weeks, and are trading at their highest level thus far in 2021. Looking toward the pull to 2024-2026, much of the growth we envision over that time frame appears to already be factored into the recent quotation. All told, interested subscribers should continue to wait for a more attractive entry point before committing funds here.

Nicholas P. Patrikis *August 6, 2021*

(A) Fiscal year ends June 30th. Diluted earnings per share. Next earnings report due mid-August. Quarterly earnings may not sum due to rounding.
(B) Dividends historically paid in early March, June, September, and December.
(C) In millions.
(D) Includes intangibles, as of fiscal '20: $716.3 million, $9.35/share.
(E) Adopted accounting standards update No. 2014-09 as of 7/1/18.

Company's Financial Strength	A+
Stock's Price Stability	95
Price Growth Persistence	100
Earnings Predictability	95

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MANTECH INT'L NDQ-MANT

RECENT PRICE 86.80 | P/E RATIO 27.6 (Trailing: 28.5 Median: 23.0) | RELATIVE P/E RATIO 1.42 | DIV'D YLD 1.8% | VALUE LINE

TIMELINESS 3 Raised 4/30/21
SAFETY 3 New 8/26/05
TECHNICAL 2 Raised 8/6/21
BETA .85 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$68-$141	$105 (20%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	130	(+50%)	12%
Low	90	(+5%)	3%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	103	112	121
to Sell	124	117	109
Hld's(000)	26263	26734	26158

	51.8	46.3	37.2	30.5	31.3	35.2	45.5	53.3	68.1	86.3	94.0	101.4
High:												
Low:	34.7	29.3	19.7	23.2	26.1	24.9	25.8	33.5	46.0	49.7	55.2	75.6

LEGENDS
14.0 x "Cash Flow" p sh
Relative Price Strength
Options: Yes
Shaded area indicates recession

% TOT. RETURN 6/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	28.6	63.9
3 yr.	69.7	53.6
5 yr.	150.4	108.0

ManTech International is a provider of information technology services to the U.S. government, mainly for the Department of Defense and the intelligence community. The company completed an IPO in February of 2002 and a secondary offering in December of that same year. Net proceeds were used to fund several acquisitions.

© VALUE LINE PUB. LLC	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	24-26
Revenues per sh	77.82	69.71	62.11	47.47	41.14	41.34	43.77	49.26	55.32	62.23	*65.10*	*67.60*	*80.25*
"Cash Flow" per sh	5.11	3.99	2.96	2.08	2.16	2.23	2.48	3.39	4.23	4.72	*5.00*	*5.30*	*6.75*
Earnings per sh A	3.63	2.57	2.14	1.27	1.36	1.47	1.62	2.06	2.83	2.97	*3.15*	*3.35*	*4.40*
Div'ds Decl'd per sh D	.84	.84	.84	.84	.84	.84	.84	1.00	1.08	1.28	*1.52*	*1.62*	*2.12*
Cap'l Spending per sh	1.48	.32	.30	.11	.14	.20	.79	.76	1.36	1.76	*1.65*	*1.70*	*2.00*
Book Value per sh C	29.54	31.46	30.48	30.90	31.42	32.05	34.23	35.24	37.10	39.03	*40.85*	*42.75*	*50.00*
Common Shs Outst'g B	36.88	37.04	37.19	37.37	37.68	38.74	39.23	39.76	40.18	40.47	*41.00*	*41.50*	*43.00*
Avg Ann'l P/E Ratio	10.8	10.5	12.8	23.0	22.2	24.5	25.4	27.5	23.0	25.2	*Bold figures are Value Line estimates*		*25.0*
Relative P/E Ratio	.68	.67	.72	1.21	1.12	1.29	1.28	1.49	1.23	1.29			*1.40*
Avg Ann'l Div'd Yield	2.1%	3.1%	3.1%	2.9%	2.8%	2.3%	2.0%	1.8%	1.7%	1.7%			*1.9%*
Revenues ($mill)	2870.0	2582.3	2310.1	1774.0	1550.1	1601.6	1717.0	1958.6	2222.6	2518.4	*2670*	*2805*	*3450*
Operating Margin	9.8%	8.7%	7.4%	7.1%	7.4%	7.6%	7.7%	8.4%	8.7%	9.1%	*9.5%*	*9.5%*	*10.0%*
Depreciation ($mill)	55.2	52.7	30.5	30.4	30.3	30.2	33.8	52.6	55.9	70.3	*75.0*	*80.0*	*100*
Net Profit ($mill)	133.3	95.0	79.6	47.3	51.1	56.4	63.5	82.1	113.9	120.5	*130*	*140*	*190*
Income Tax Rate	38.1%	38.7%	35.7%	39.9%	40.3%	37.5%	34.7%	25.8%	16.3%	22.9%	*24.0%*	*24.0%*	*24.0%*
Net Profit Margin	4.6%	3.7%	3.4%	2.7%	3.3%	3.5%	3.7%	4.2%	5.1%	4.8%	*4.9%*	*5.0%*	*5.5%*
Working Cap'l ($mill)	300.4	358.0	453.6	195.4	189.3	229.6	138.9	196.7	154.7	147.6	*195*	*235*	*395*
Long-Term Debt ($mill)	200.0	200.0	200.0	- -	- -	- -	31.0	7.5	36.5	15.0	*25.0*	*25.0*	*Nil*
Shr. Equity ($mill)	1089.3	1165.2	1133.8	1154.8	1183.7	1241.7	1343.0	1401.2	1490.6	1579.4	*1675*	*1775*	*2150*
Return on Total Cap'l	11.0%	7.6%	6.6%	4.1%	4.3%	4.5%	4.7%	5.9%	7.5%	7.6%	*7.5%*	*8.0%*	*9.0%*
Return on Shr. Equity	12.2%	8.2%	7.0%	4.1%	4.3%	4.5%	4.7%	5.9%	7.6%	7.6%	*8.0%*	*8.0%*	*9.0%*
Retained to Com Eq	9.4%	5.5%	4.3%	1.4%	1.7%	2.0%	2.3%	3.0%	4.7%	4.4%	*4.0%*	*4.0%*	*4.5%*
All Div'ds to Net Prof	23%	33%	39%	66%	62%	57%	51%	48%	38%	43%	*48%*	*48%*	*48%*

CAPITAL STRUCTURE as of 3/31/21

Total Debt $21.5 mill. **Due in 5 Yrs** $21.5 mill.
LT Debt $21.5 mill. **LT Interest** $1.9 mill. (1% of Cap'l)
Leases, Uncapitalized Annual rentals $33.2 mill.

Pension Assets-12/20 None
Oblig. $.7 mill.
Common Stock 40,601,384 shs.
as of 5/3/21
Class A: 27,424,689 shs. (1 vote per sh.)
Class B: 13,176,695 shs. (10 votes per sh.)
MARKET CAP: $3.5 billion (Mid Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	8.9	41.2	6.9
Receivables	399.0	400.6	428.8
Inventory	- -	- -	- -
Other	46.8	54.6	51.4
Current Assets	454.7	496.4	487.1
Accts Payable	146.0E	142.4	122.5
Debt Due	- -	- -	- -
Other	154.0	206.4	191.7
Current Liab.	300.0	348.8	314.2

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	-1.0%	2.0%	*6.5%*
"Cash Flow"	1.5%	11.5%	*8.5%*
Earnings	-1.5%	10.5%	*9.0%*
Dividends	- -	6.0%	*11.0%*
Book Value	5.0%	3.5%	*5.0%*

Calendar	QUARTERLY REVENUES ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	473.2	491.0	497.2	497.2	1958.6
2019	501.9	537.0	579.2	604.5	2222.6
2020	610.9	632.5	636.2	638.8	2518.4
2021	633.2	*665*	*680*	*691.8*	*2670*
2022	*680*	*690*	*715*	*720*	*2805*

Calendar	EARNINGS PER SHARE A Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.51	.50	.55	.50	2.06
2019	.53	.60	.69	1.00	2.83
2020	.71	.74	.73	.79	2.97
2021	.79	*.78*	*.79*	*.79*	*3.15*
2022	*.80*	*.80*	*.85*	*.90*	*3.35*

Calendar	QUARTERLY DIVIDENDS PAID D Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.21	.21	.21	.21	.84
2018	.25	.25	.25	.25	1.00
2019	.27	.27	.27	.27	1.08
2020	.32	.32	.32	.32	1.28
2021	.38	.38			

BUSINESS: ManTech International Corporation provides innovative, mission-focused technology solutions and services for U.S. intelligence community, defense, and federal civilian agencies. Areas of expertise include full-spectrum cyber; secure mission and enterprise information technology (IT); advanced data analytics; intelligent systems engineering; software and systems development; and national security mission support. Employs approx. 9,400. Off./dir. have 83.0% of the total voting power, primarily through George J. Pedersen's 100% ownership of Class B common stock (4/21 proxy). Chairman, CEO & President: Kevin M. Phillips. Incorporated: Delaware. Address: 2251 Corporate Park Dr., Herndon, VA 20171. Tel.: 703-218-6000. Internet: www.mantech.com.

ManTech International had a mixed start to 2021, and similar trends may well continue in the near term. While the provider of technologies and solutions for mission-critical national security programs reported strong profitability, with earnings of $0.79 a share up 11% year over year and above our $0.72 estimate, revenues came in below our expectations. Year over year, the top line advanced a modest 4%, and was tempered by lighter other direct costs (ODCs) and new business procurement delays. An uneven market environment, created by the pandemic, also contributed to the muted growth.

Management reiterated its guidance for 2021. Revenues are expected to increase 5%-9% year over year, to between $2.65 billion and $2.75 billion. Meantime, adjusted earnings per share are targeted to be in a range of $3.48-$3.60, a 4%-7% climb from 2020. Indeed, our earnings presentation is based on GAAP results and includes amortization of acquired intangibles and the related tax impact. For our part, we estimate share net will land between $3.10 and $3.20. (Second-quarter results were set to be released shortly after we rolled the presses on this Issue.)

The long-term fundamentals and positioning of the business still remain rather favorable. Overall, contributions from acquisitions, as well as healthy contract award and pipeline activity, should continue to drive growth. To wit, March-period contract awards totaled $561 million, representing a book-to-bill ratio of 0.9x. And as a result of these bookings, the company's backlog of business at quarter end was $10.1 billion (+8%), of which $1.4 billion was funded.

The company's capital deployment strategy is a positive here. With ample financial capacity, ManTech is able to fund organic investments and pursue growth-oriented acquisitions, as well as return cash to shareholders through the quarterly dividend. Of note, the issue's dividend yield is in line with the *Value Line* median. However, total return potential is below average, with the stock trading near the low end of our 3- to 5-year Target Price Range. With a Timeliness rank of 3 (Average), these shares are also just a middling choice for the near term.

Michelle Jensen *August 6, 2021*

(A) Diluted earnings. Includes stock option expense. Excludes nonrecurring items: '13, ($2.31); 17, $1.29. May not sum to total due to rounding. Q3'21 earnings report due early November. **(B)** In millions. **(C)** Includes goodwill and other intangibles. At 12/31/20: $1440.1 million, or $35.58 a share. **(D)** Dividend initiated in June, 2011. Historically paid during late March, June, September, and December. **(E)** Includes accrued expenses.

Company's Financial Strength	B++
Stock's Price Stability	85
Price Growth Persistence	55
Earnings Predictability	75

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McCORMICK NYSE-MKC

RECENT PRICE 88.59 | P/E RATIO 29.0 (Trailing: 29.9 Median: 23.0) | RELATIVE P/E RATIO 1.43 | DIV'D YLD 1.6% | VALUE LINE

TIMELINESS 3 Lowered 7/16/21
SAFETY 1 Raised 5/1/09
TECHNICAL 4 Lowered 7/16/21
BETA .80 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$72-$157 $115 (30%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	115	(+30%)	8%
Low	95	(+5%)	3%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	382	882	430
to Sell	399	94	411
Hld's(000)	200460	198363	199017

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
9.77	10.44	11.41	12.21	12.11	12.54	13.90	15.13	15.72	16.54	16.87	17.60	18.45	20.47	20.12	20.99	*23.45*	*24.05*	Sales per sh [A]	*26.50*
1.12	1.22	1.32	1.41	1.53	1.70	1.78	1.92	2.00	2.12	2.18	2.36	2.56	3.08	3.30	3.47	*3.75*	*3.90*	"Cash Flow" per sh	*4.60*
.81	.86	.96	1.07	1.17	1.33	1.40	1.52	1.57	1.69	1.74	1.89	2.13	2.49	2.68	2.83	*3.05*	*3.15*	Earnings per sh [A B]	*3.75*
.32	.36	.40	.44	.48	.52	.56	.62	.68	.74	.80	.86	.94	1.04	1.14	1.24	*1.36*	*1.40*	Div'ds Decl'd per sh ■ [C]	*1.60*
.28	.33	.31	.33	.31	.33	.36	.42	.38	.52	.50	.61	.70	.64	.65	.84	*.85*	*.75*	Cap'l Spending per sh	*.85*
3.02	3.59	4.25	4.06	5.06	5.49	6.08	6.41	7.42	7.05	6.56	6.49	9.77	12.00	12.96	14.71	*16.40*	*18.05*	Book Value per sh [D]	*23.10*
265.20	260.20	255.60	260.20	263.60	266.20	266.10	265.36	262.33	256.54	254.60	250.60	262.00	264.20	265.80	266.90	*267.50*	*267.00*	Common Shs Outst'g [E]	*264.00*
21.3	20.0	19.4	17.2	13.7	14.8	17.1	18.7	22.0	20.6	22.5	25.1	22.9	23.3	28.3	30.9	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*28.0*
1.13	1.08	1.03	1.04	.91	.94	1.07	1.19	1.24	1.08	1.13	1.32	1.15	1.26	1.51	1.60			Relative P/E Ratio	*1.55*
1.9%	2.1%	2.2%	2.4%	3.0%	2.6%	2.3%	2.2%	2.0%	2.1%	2.0%	1.8%	1.9%	1.8%	1.5%	1.4%			Avg Ann'l Div'd Yield	*1.5%*
3697.6	4014.2	4123.4	4243.2	4296.3	4411.5	4834.1	5408.9	5347.4	5601.3	*6275*	*6425*	Sales ($mill) [A]	*7000*
17.3%	17.0%	16.9%	16.8%	16.8%	17.4%	18.4%	20.2%	21.3%	21.1%	*21.0%*	*21.0%*	Operating Margin	*22.0%*
98.3	102.8	106.0	102.7	105.9	108.7	125.2	150.7	158.8	165.0	*185*	*190*	Depreciation ($mill)	*215*
374.2	407.8	418.2	441.6	449.5	483.4	546.7	663.0	717.5	760.9	*820*	*855*	Net Profit ($mill)	*995*
29.0%	26.6%	26.8%	26.3%	26.2%	25.8%	23.8%	15.3%	19.5%	19.5%	*23.0%*	*22.0%*	Income Tax Rate	*22.0%*
10.1%	10.2%	10.1%	10.4%	10.5%	11.0%	11.3%	12.3%	13.4%	13.6%	*13.1%*	*13.3%*	Net Profit Margin	*14.2%*
229.6	97.8	307.1	294.2	166.3	d.9	d330.3	d521.8	d604.2	d962.9	*d350*	*d275*	Working Cap'l ($mill)	*600*
1029.7	779.2	1019.0	1014.1	1052.7	1054.0	4443.9	4052.9	3625.8	3753.8	*4735*	*4500*	Long-Term Debt ($mill)	*4800*
1618.5	1700.2	1947.7	1809.4	1670.2	1626.6	2559.9	3170.9	3444.2	3926.1	*4385*	*4820*	Shr. Equity ($mill)	*6090*
15.1%	17.5%	15.0%	16.5%	17.5%	19.1%	8.5%	10.3%	11.2%	10.8%	*9.5%*	*10.0%*	Return on Total Cap'l	*10.0%*
23.1%	24.0%	21.5%	24.4%	26.9%	29.7%	21.4%	20.9%	20.8%	19.4%	*18.5%*	*17.5%*	Return on Shr. Equity	*16.5%*
13.9%	14.3%	12.2%	13.8%	14.6%	16.3%	12.1%	12.3%	12.1%	11.0%	*10.5%*	*10.0%*	Retained to Com Eq	*9.5%*
40%	40%	43%	44%	46%	45%	43%	41%	42%	43%	*45%*	*44%*	All Div'ds to Net Prof	*43%*

CAPITAL STRUCTURE as of 5/31/21
Total Debt $5460.9 mill. **Due in 5 Yrs** $3.29 bill.
LT Debt $4735.9 mill. **LT Interest** $138 mill.
(Long-term interest earned: 8.1x) (52% of Cap'l)
Leases, Uncapitalized Annual rentals $39.4 mill.
Pension Assets-11/20 $1056.9 mill.
Oblig. $1329.7 mill.

Pfd Stock None
Common Stock 267,270,159 shs
(Includes 249,194,816 non-voting shs.)

MARKET CAP: $23.7 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	5/31/21
Cash Assets	155.4	423.6	291.8
Receivables	502.9	528.5	500.4
Inventory (Avg. Cost)	801.2	1032.6	1147.8
Other	90.7	98.9	112.6
Current Assets	1550.2	2083.6	2052.6
Accts Payable	846.9	1032.3	1040.5
Debt Due	723.8	1191.5	725.0
Other	583.7	822.7	615.7
Current Liab.	2154.4	3046.5	2381.2

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	5.5%	4.5%	*4.5%*
"Cash Flow"	8.0%	9.5%	*6.0%*
Earnings	8.5%	10.0%	*6.0%*
Dividends	9.0%	9.0%	*6.0%*
Book Value	10.5%	13.5%	*9.5%*

Fiscal Year Ends	QUARTERLY SALES ($ mill.)[A] Feb.28	May 31	Aug.31	Nov.30	Full Fiscal Year
2018	1237.1	1327.3	1345.3	1499.2	5408.9
2019	1231.5	1301.9	1329.2	1484.8	5347.4
2020	1212.0	1401.1	1430.3	1557.9	5601.3
2021	1481.5	1556.7	*1575*	*1661.8*	*6275*
2022	*1500*	*1585*	*1610*	*1730*	*6425*

Fiscal Year Ends	EARNINGS PER SHARE [A B] Feb.28	May 31	Aug.31	Nov.30	Full Fiscal Year
2018	.50	.51	.64	.84	2.49
2019	.56	.58	.73	.81	2.68
2020	.54	.74	.77	.78	2.83
2021	.72	.69	*.81*	*.83*	*3.05*
2022	*.67*	*.72*	*.84*	*.92*	*3.15*

Calendar	QUARTERLY DIVIDENDS PAID [C] ■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.235	.235	.235	.235	.94
2018	.26	.26	.26	.26	1.04
2019	.285	.285	.285	.285	1.14
2020	.31	.31	.31	.31	1.24
2021	.34	.34			

BUSINESS: McCormick & Company, Inc. is a leading manufacturer, marketer, and distributor of spices, seasonings, flavorings, mixes, and condiments for the consumer, industrial, and foodservice markets. Has two segments: Consumer (accounted for 64% of total sales in fiscal 2020) and Flavor Solutions (36%). Acquired Reckitt Benckiser's Food Division (French's Mustard and Frank's RedHot lines) 8/17; Enrico Giotti SpA, 12/16. Foreign operations comprise 38% of sales in fiscal 2020. Has about 13,000 employees. Off./dir. own 13.9% of common stock; Lawrence E. Kurzius, 5.8% (2/21 Proxy). Chrmn., CEO & Pres.: Lawrence E. Kurzius. Inc.: MD. Addr.: 24 Schilling Road, Suite 1, Hunt Valley, Maryland 21031. Telephone: 410-771-7301. Internet: www.mccormick.com.

McCormick & Company stock has traded in a tight band since our mid-April report. And during the first half of this calendar year, the shares notably underperformed the broader market, recording a decline of 7.3%, versus an advance of 14.4% for the S&P 500 Index. It appears that the investment community is not willing to jump aboard when the company is facing a stretch of difficult quarterly comparisons. This included the fiscal second quarter (ended May 31st) showing, with adjusted earnings of $0.69, though besting our $0.62-a-share estimate, falling short of the prior-year tally, which benefited from more people eating at home during the early stages of coronavirus pandemic. McCormick also will have to deal with higher operating costs, with the prices of ingredients, fuel, and transportation on the rise. That said . . .

The company recently raised its full-year adjusted share-net guidance to a range of $3.00 to $3.05. We are following suit, with our estimate now at the high end of the provided bracket. Although there is no denying that McCormick, like most of its food processing peers, will probably witness a pullback in demand as more vaccinated people eat outside the home, we think the company will retain some of the customers gained during the early days of the pandemic. In fact, May-period sales for the Consumer segment fell only 2% after climbing 26% in the prior-year same period. The company also is seeing a jump is Flavor Solutions sales (up 39% year over year) to restaurants and other foodservice customers. On the cost side, management believes that it will be able to mitigate some of the inflationary pressures by raising prices on products and through continued cost-cutting measures under its Comprehensive Continuous Improvement program, which commenced more than a half-decade ago.

High-quality McCormick stock remains an appealing option for those with an 18-month investment horizon. And even with the neutrally ranked issue recently trading at 29 times our 12-month forward-looking earnings estimate, the price chart above and MKC's high Price Stability score may provide some comfort for those considering a commitment.

William G. Ferguson *July 16, 2021*

(A) Fiscal year ends Nov. 30th. **(B)** Diluted earnings. Excl. nonrecurring gains/(losses): '05, (3¢); '06, (6¢), '07, (10¢); '13, (11¢); '14, (2¢); '17, (27¢); '18, $1.02; '19, (6¢); '20, (5¢); '21 Q1-Q2, (13¢). Next earnings report due late September. Earnings may not add due to rounding. **(C)** Divs. historically paid in mid-Jan., Apr., July & Oct. ■ Div'd reinvestment plan available. **(D)** Includes intangibles. In fiscal 2020: $8341.7 million, $31.25/sh. **(E)** In mill., adjusted for split.

Company's Financial Strength	A+
Stock's Price Stability	95
Price Growth Persistence	85
Earnings Predictability	100

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MONSTER BEVERAGE NDQ-MNST

RECENT PRICE 90.86 | P/E RATIO 34.3 (Trailing: 37.1 Median: 31.0) | RELATIVE P/E RATIO 1.69 | DIV'D YLD Nil | VALUE LINE

TIMELINESS 2 Raised 4/30/21
SAFETY 2 Raised 10/16/20
TECHNICAL 3 Raised 5/21/21
BETA .85 (1.00 = Market)

18-Month Target Price Range

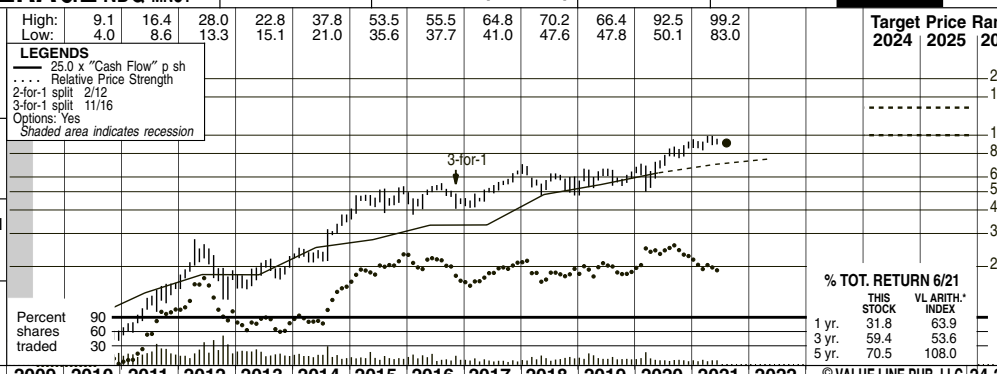
Low-High	Midpoint (% to Mid)
$77-$152	$115 (25%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	140	(+55%)	11%
Low	100	(+10%)	3%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	331	354	354
to Sell	274	298	322
Hld's(000)	336489	336120	333309



2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
.66	1.12	1.62	1.91	2.16	2.44	3.26	4.14	4.49	4.90	4.47	5.38	5.41	7.00	7.83	8.71	*9.65*	*10.70*	Sales per sh	*11.70*
.12	.18	.27	.21	.41	.42	.58	.73	.72	1.01	1.11	1.33	1.33	1.93	2.19	2.52	*2.80*	*3.00*	"Cash Flow" per sh	*4.15*
.11	.17	.25	.19	.37	.38	.51	.62	.65	.92	1.12	1.19	1.35	1.76	2.03	2.38	*2.65*	*2.85*	Earnings per sh A	*4.00*
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*Nil*	*Nil*	Div'ds Decl'd per sh	*Nil*
--	.01	.01	.01	.04	.02	.05	.09	.08	.06	.06	.18	.13	.11	.19	.09	*.15*	*.20*	Cap'l Spending per sh	*.30*
.24	.42	.76	.81	1.11	1.55	1.87	1.30	1.98	3.01	7.90	5.88	6.25	6.64	7.77	9.77	*10.00*	*10.95*	Book Value per sh C	*17.60*
532.65	540.35	559.15	541.97	528.95	533.88	522.83	497.33	500.47	503.17	608.70	566.57	623.20	543.68	536.70	528.10	*525.00*	*520.00*	Common Shs Outst'g B	*500.00*
16.3	33.5	28.9	28.6	15.8	19.3	24.4	31.8	28.8	29.1	40.5	40.1	38.2	32.8	29.2	30.7	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*30.0*
.87	1.81	1.53	1.72	1.05	1.23	1.53	2.02	1.62	1.53	2.04	2.10	1.92	1.77	1.56	1.59			Relative P/E Ratio	*1.65*
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			Avg Ann'l Div'd Yield	*Nil*
1703.2	2060.7	2246.4	2464.9	2722.6	3049.4	3369.0	3807.2	4200.8	4598.6	*5060*	*5565*	Sales ($mill)	*5850*
27.8%	27.7%	26.5%	31.4%	34.0%	36.9%	35.4%	35.2%	34.9%	33.4%	*34.0%*	*35.0%*	Operating Margin	*37.0%*
17.0	20.5	22.7	25.7	30.9	40.8	48.9	57.0	64.8	61.0	*65.0*	*70.0*	Depreciation ($mill)	*80.0*
286.2	340.0	338.7	483.2	646.1	712.7	780.9	993.0	1107.8	1270.6	*1390*	*1480*	Net Profit ($mill)	*2000*
37.4%	38.1%	39.9%	35.2%	27.5%	34.0%	32.0%	23.2%	21.5%	13.3%	*25.0%*	*25.0%*	Income Tax Rate	*25.0%*
16.8%	16.5%	15.1%	19.6%	23.7%	23.4%	23.2%	26.1%	26.4%	27.6%	*27.5%*	*26.6%*	Net Profit Margin	*34.2%*
916.6	546.5	867.0	1338.2	3068.4	961.7	1526.0	1203.0	1655.3	2391.0	*1700*	*1800*	Working Cap'l ($mill)	*2500*
--	--	--	--	--	--	--	--	--	--	*Nil*	*Nil*	Long-Term Debt ($mill)	*Nil*
979.2	644.4	992.3	1515.2	4809.4	3329.7	3895.2	3610.9	4171.3	5160.9	*5250*	*5700*	Shr. Equity ($mill)	*8800*
29.2%	52.8%	34.1%	31.9%	13.4%	21.4%	20.0%	27.5%	26.6%	24.6%	*26.5%*	*26.0%*	Return on Total Cap'l	*23.0%*
29.2%	52.8%	34.1%	31.9%	13.4%	21.4%	20.0%	27.5%	26.6%	24.6%	*26.5%*	*26.0%*	Return on Shr. Equity	*23.0%*
29.2%	52.8%	34.1%	31.9%	13.4%	21.4%	20.0%	27.5%	26.6%	24.6%	*26.5%*	*26.0%*	Retained to Com Eq	*23.0%*
--	--	--	--	--	--	--	--	--	--	*Nil*	*Nil*	All Div'ds to Net Prof	*Nil*

CAPITAL STRUCTURE as of 3/31/21
Total Debt None

Leases, Uncapitalized: Annual rentals $9.4 mill.

No Defined Benefit Pension Plan
Common Stock 528,562,217 shs
as of 4/30/21

MARKET CAP: $48.0 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	1331.0	2061.7	2159.0
Receivables	540.3	666.0	802.5
Inventory (FIFO)	360.7	333.0	368.4
Other	84.3	80.2	103.9
Current Assets	2316.3	3140.9	3433.8
Accts Payable	274.0	296.8	334.0
Debt Due	--	--	--
Other	387.0	453.1	454.8
Current Liab.	661.0	749.9	788.8

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	13.5%	11.0%	*7.0%*
"Cash Flow"	20.5%	18.5%	*11.0%*
Earnings	21.0%	18.0%	*11.5%*
Dividends	--	--	*Nil*
Book Value	21.5%	13.5%	*14.0%*

Calendar	QUARTERLY SALES ($ mill.) Mar.31	Jun. 30	Sep. 30	Dec. 31	Full Year
2018	851.0	1015.9	1016.1	924.2	3807.2
2019	946.0	1104.0	1133.6	1017.2	4200.8
2020	1062.1	1093.8	1246.4	1196.3	4598.6
2021	1243.8	*1225*	*1325*	*1266.2*	*5060*
2022	*1350*	*1275*	*1475*	*1465*	*5565*

Calendar	EARNINGS PER SHARE A Mar.31	Jun. 30	Sep. 30	Dec. 31	Full Year
2018	.38	.48	.48	.43	1.76
2019	.48	.53	.55	.47	2.03
2020	.52	.59	.65	.62	2.38
2021	.59	*.66*	*.75*	*.65*	*2.65*
2022	*.60*	*.75*	*.80*	*.70*	*2.85*

Calendar	QUARTERLY DIVIDENDS PAID Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017					
2018	NO CASH DIVIDENDS BEING PAID				
2019					
2020					
2021					

BUSINESS: Monster Beverage Corporation develops, markets, sells, and distributes a line of all-natural beverages. The company's product line includes bottled juices, natural sodas, energy drinks, iced teas, lemonades, and cocktails, and functional beverages. Functional beverages are intended to have added health benefits, as they are fortified with vitamins, minerals and herbs. Markets its products through retail chains, club stores, and specialty stores. Has 3,666 employees. Officers & directors own about 10.4% of comm. shares, The Coca-Cola Company, 19.3%. (4/21 Proxy). 2020 depreciation rate: 2.5%. Chairman & CEO: Rodney C. Sacks. Inc.: DE. Addr.: 1 Monster Way, Corona, California 92879. Telephone: 951-739-6200. Internet: www.monsterbevcorp.com.

Monster Beverage is on track to deliver double-digit sales and earnings growth in 2021. Better-than-expected results in the first quarter set the stage for the company to generate healthy gains throughout the year (discussed below). And, although the stock has traded in a narrow range over the past three months, the equity has a favorable year-ahead Timeliness rank (2). Thus, investor sentiment toward MNST stock should strengthen as 2021 progresses.

The operational environment ought to improve. Notably, the distribution of COVID-19 vaccines throughout the United States and the world has been met with full state and country reopenings after a long period of lockdowns. This should be beneficial to Monster's end markets, especially in its high-growth channels including gas stations and convenience stores as customer traffic should increase.

Company initiatives to enhance business conditions are ongoing. Monster has solidified its position within the high-growth, high-margined energy drink market with its array of energy drink offerings, some enhanced with caffeine. Throughout the years, aggressive marketing and promotional activities have paid off, and these drinks have resounded well with many consumers. Furthermore, distribution channels have been augmented in recent years with Monster's distribution partnership with The Coca-Cola Company. This strategic alliance opened the international market base, and Monsters drinks are now available in many foreign lands including France and Italy. This scenario brings notable top- and bottom-line benefits.

Actions to stave off the negative impact of an inflationary environment are being executed. First, higher pricing will likely be passed onto consumers. This measure is geared toward offsetting rising manufacturing and ingredient costs. Also, cost-saving programs ought to help drive near-term profitability.

Patient investors should consider other selections at this time. Although the company is likely to realize ongoing top- and bottom-line increases over the 3- to 5-year mark, capital appreciation potential over that span is unexciting.

Nira Maharaj *July 16, 2021*

(A) Fully diluted earnings. Excludes non recurring gains and (losses): '15, ($0.53); '17, $0.07; '20, $0.26. May not sum due to rounding. Next earnings report due early August.
(B) In millions, adjusted for stock splits.
(C) Includes intangibles. In '20: $2,390.6 million, $4.52 share.

Company's Financial Strength	A+
Stock's Price Stability	90
Price Growth Persistence	85
Earnings Predictability	95

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ALTRIA GROUP, INC. NYSE-MO

RECENT PRICE 47.53 | P/E RATIO 10.3 (Trailing: 11.0 Median: 16.0) | RELATIVE P/E RATIO 0.51 | DIV'D YLD 7.2% | VALUE LINE

TIMELINESS 4 Lowered 4/30/21
SAFETY 3 Lowered 4/17/20
TECHNICAL 3 Lowered 7/16/21
BETA .95 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$27-$64	$46 (-5%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	115	(+140%)	*29%*
Low	75	(+60%)	*17%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	698	712	869
to Sell	703	768	715
Hld's(000)	1157231	1125081	1119075

	2024	2025	2026
Target Price Range			

% TOT. RETURN 6/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	31.0	63.9
3 yr.	4.4	53.6
5 yr.	-7.1	108.0

2005	2006	2007	2008 H	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
46.93	48.36	35.02	9.39	11.35	11.66	11.64	12.25	12.27	12.45	12.98	13.25	13.45	13.53	13.51	14.07	*14.20*	*14.65*	Sales per sh	*16.10*
5.92	6.59	4.81	1.78	1.89	2.00	1.78	2.19	2.38	2.68	2.79	3.15	3.55	4.14	4.37	4.51	*4.80*	*5.10*	"Cash Flow" per sh	*6.20*
5.15	5.76	4.36	1.66	1.76	1.87	1.64	2.06	2.26	2.56	2.67	2.73	3.39	3.99	4.22	4.36	*4.60*	*4.90*	Earnings per sh A	*5.95*
3.06	3.32	3.16	1.68	1.32	1.46	1.58	1.70	1.84	2.08	2.17	2.35	2.54	3.00	3.28	3.40	*3.52*	*3.68*	Div'ds Decl'd per sh B ■	*4.64*
1.06	1.17	2.10	.12	.13	.08	.05	.06	.07	.08	.12	.10	.10	.13	.13	.12	*.10*	*.15*	Cap'l Spending per sh	*.20*
17.13	18.89	8.80	1.37	1.96	2.49	1.80	1.58	2.07	1.53	1.47	6.57	8.09	7.89	3.35	1.53	*1.90*	*2.20*	Book Value per sh C	*3.20*
2085.0	2097.1	2107.7	2061.4	2076.0	2088.7	2044.4	2009.9	1993.5	1969.3	1960.1	1943.3	1901.3	1874.1	1858.0	1858.4	*1830.0*	*1810.0*	Common Shs Outst'g D	*1700.0*
13.2	13.4	16.3	11.9	9.9	11.8	16.2	15.7	15.7	16.5	20.1	23.4	20.6	15.1	11.6	9.5	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*16.0*
.70	.72	.87	.72	.66	.75	1.02	1.00	.88	.87	1.01	1.23	1.04	.82	.62	.49			Relative P/E Ratio	*.90*
4.5%	4.3%	4.5%	8.5%	7.6%	6.6%	6.0%	5.3%	5.2%	4.9%	4.0%	3.7%	3.6%	5.0%	6.7%	8.2%			Avg Ann'l Div'd Yield	*4.9%*
23800	24618	24466	24522	25434	25744	25576	25364	25110	26153	*26000*	*26500*	Sales ($mill)	*27400*
26.5%	30.5%	34.1%	31.9%	33.1%	35.5%	38.3%	41.7%	42.7%	42.5%	*44.5%*	*45.5%*	Operating Margin	*49.5%*
253.0	225.0	212.0	208.0	225.0	204.0	209.0	227.0	226.0	257.0	*260*	*270*	Depreciation ($mill)	*295*
3390.0	4180.0	4535.0	5070.0	5243.0	5925.0	6531.0	7539.0	7895.9	8117.0	*8500*	*8935*	Net Profit ($mill)	*10220*
39.2%	35.4%	34.7%	34.8%	35.1%	56.2%	33.5%	23.1%	23.8%	24.8%	*25.0%*	*25.0%*	Income Tax Rate	*25.0%*
14.2%	17.0%	18.5%	20.7%	20.6%	23.0%	25.5%	29.7%	31.4%	31.0%	*32.7%*	*33.7%*	Net Profit Margin	*37.3%*
d512.0	d1936	d468.0	d795.0	d992.0	d115.0	d2448	d16894	d3350	d1946	*d2500*	*d2200*	Working Cap'l ($mill)	*d1850*
13089	12419	13992	13693	12915	13881	13030	11898	27042	27971	*27500*	*27000*	Long-Term Debt ($mill)	*26000*
3680.0	3168.0	4119.0	3014.0	2880.0	12770	15377	14787	6222.0	2839.0	*3500*	*4000*	Shr. Equity ($mill)	*5400*
23.7%	30.4%	27.9%	32.8%	35.8%	23.6%	24.2%	29.4%	25.5%	26.3%	*27.5%*	*29.0%*	Return on Total Cap'l	*32.5%*
92.1%	NMF	NMF	NMF	NMF	46.4%	42.5%	51.0%	NMF	NMF	*NMF*	*NMF*	Return on Shr. Equity	*NMF*
4.6%	24.6%	22.4%	39.1%	36.9%	11.1%	11.2%	14.4%	29.4%	40.9%	*33.0%*	*31.0%*	Retained to Com Eq	*19.5%*
95%	81%	80%	77%	80%	76%	74%	72%	77%	78%	*77%*	*75%*	All Div'ds to Net Prof	*78%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $29680 mill. **Due in 5 Yrs** $10350 mill.
LT Debt $28180 mill. **LT Interest** $1175 mill.
(Total interest coverage: 10.0x) (90% of Cap'l)

Pension Assets-12/20 $8.9 bill. **Oblig.** $9.5 bill.
Pfd Stock None

Common Stock 1,851,777,199 shs.

MARKET CAP: $88.0 billion (Large Cap)

CURRENT POSITION E

($MILL.)	2019	2020	3/31/21
Cash Assets	2117	4945	5792
Receivables	152	137	142
Inventory (LIFO)	2293	1966	1948
Other	262	69	147
Current Assets	4824	7117	8029
Accts Payable	425	380	271
Debt Due	1000	1500	1500
Other	6749	7183	8233
Current Liab.	8174	9063	10004

ANNUAL RATES of change (per sh)

	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	-3.0%	2.0%	*2.5%*
"Cash Flow"	3.5%	10.5%	*6.0%*
Earnings	4.0%	11.0%	*6.0%*
Dividends	3.5%	9.5%	*6.0%*
Book Value	5.0%	30.0%	*-4.5%*

QUARTERLY SALES ($ mill.)

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	6108	6305	6837	6114	25364
2019	5628	6619	6856	6007	25110
2020	6359	6367	7123	6304	26153
2021	6036	*6550*	*7000*	*6414*	*26000*
2022	*6400*	*6600*	*7100*	*6400*	*26500*

EARNINGS PER SHARE A

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.95	1.01	1.08	.95	3.99
2019	.90	1.10	1.19	1.02	4.22
2020	1.09	1.09	1.19	.99	4.36
2021	1.07	*1.17*	*1.25*	*1.11*	*4.60*
2022	*1.13*	*1.25*	*1.32*	*1.20*	*4.90*

QUARTERLY DIVIDENDS PAID B ■

Calendar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.61	.61	.61	.66	2.49
2018	.66	.70	.70	.80	2.86
2019	.80	.80	.80	.84	3.24
2020	.84	.84	.84	.86	3.38
2021	.86	.86	.86		

BUSINESS: Altria Group, Inc. is the parent company of Philip Morris USA, John Middleton and Philip Morris Capital Corp. In 2020, the company operated 3 segments: Cigarettes (92% of operating profits) include *Marlboro, Benson & Hedges, Merit, Virginia Slims*; Oral Tobacco (16%); Other (-8%). Sold *Miller*, 6/02. Has a 10.0% interest in *Anheuser-Busch In InBev*. Acq'd Nabisco, 12/00, Spun off Kraft, 4/07; Spun off Philip Morris Int'l, 3/08; Acq'd, UST, 1/09. Has 7,100 employees. Vanguard Group owns 8.2% of common shares; BlackRock owns 7.0%; officers and directors own less than 1.0% (4/21 proxy). CEO: Billy Gifford. Chairman: Thomas Farrell. Incorporated: VA. Address: 6601 W. Broad Street, Richmond, Virginia 23230. Telephone: 804-274-2200. Internet: www.altria.com.

Altria Group is facing an increasingly challenging regulatory environment. On April 29th, the U.S. Food and Drug Administration (FDA) announced that it was moving forward with a nationwide ban on menthol cigarettes and other flavored tobacco products. The decision, which could take 18 months or longer to implement, kicks off the official rule-making process and comment period by the agency. The push to ban menthol comes less than three years after the Trump Administration pursued a similar tactic, only to abandon it over concerns about the legality of such a move. Altria controls roughly a quarter of the menthol cigarette market in the United States—second only to British American Tobacco—and we estimate they account for 15%-20% of its overall shipment volumes. An outright ban would therefore be a huge blow to the company, though we remain skeptical about the agency's authority on this matter. If the FDA does see it through, we expect the final rule to be swiftly challenged in court. The entire process could take several years to play out, so we don't necessarily view this as a near-term threat.

The Biden Administration is also considering requiring tobacco companies to lower the amount of nicotine in all cigarettes sold in the United States. The goal would be to reduce nicotine to levels at which cigarettes are no longer addictive. The FDA did not comment on this matter when it unveiled the aforementioned policy on menthols, though we expect the agency to decide by yearend on whether or not to move forward.

The increasingly onerous environment puts Altria's alternative strategy into focus. The company is well behind peers when it comes to shifting consumers toward reduced-risk products. Altria's Oral Tobacco segment, which includes smokeless products like *iQOS* and the popular nicotine pouch *on!*, accounts for just 10% of revenues, well below where most rivals are. Even if the FDA's move to ban menthols does not ultimately go through, it may end up being the push that leadership needs to accelerate investments in the alternatives space.

This high-yielding stock offers strong total return potential to 2024-2026.

Daniel Henigson, CFA *July 16, 2021*

(A) Diluted earnings. Excl. nonrecur. gains (losses): '08, (17¢); '09, (21¢); '11, (21¢); '16, $4.55; '17, $1.92; '18, (31¢); '20, ($1.96). Next egs. rpt due July 29th. Quarterly totals may not sum due to changes in share count. **(B)** Divd's historically paid in early-Jan., late-Apr., early-Jul., and early-Oct. ■ Div'd reinvestment plan available. **(C)** Incl. intangibles. '20: $17.79 bill., $9.57/sh. **(D)** In millions. **(E)** Excl. fin'l services and real estate subsidiary **(F)** Spun-off Kraft Foods. **(G)** Spun-off Philip Morris Int'l. **(H)** Pro forma, reflects spinoff of Philip Morris Int'l.

Company's Financial Strength	B++
Stock's Price Stability	85
Price Growth Persistence	40
Earnings Predictability	95

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MSCI INC. NYSE-MSCI

RECENT PRICE 627.68 | P/E RATIO NMF (Trailing: NMF Median: 29.0) | RELATIVE P/E RATIO NMF | DIV'D YLD 0.7% | VALUE LINE 444

TIMELINESS 3 Lowered 7/30/21
SAFETY 3 New 11/25/16
TECHNICAL 5 Lowered 7/2/21
BETA .95 (1.00 = Market)

18-Month Target Price Range

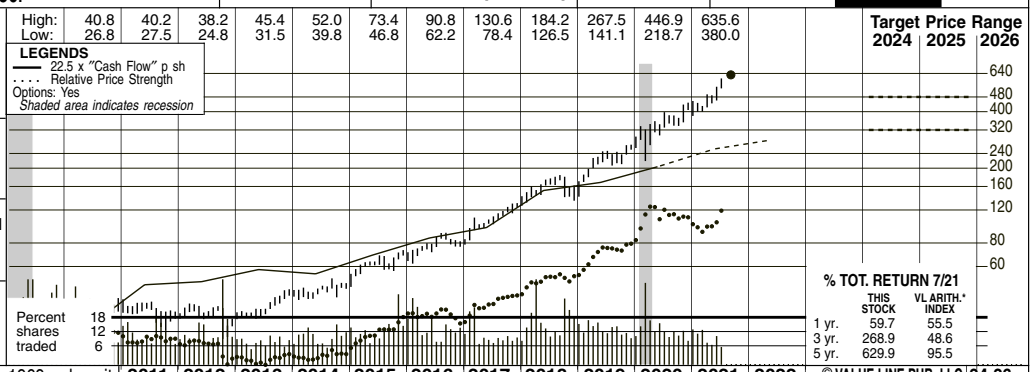
Low-High	Midpoint (% to Mid)
$447-$956	$702 (10%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	480	(-25%)	*-5%*
Low	320	(-50%)	*-14%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	312	399	345
to Sell	334	308	370
Hld's(000)	74053	73850	74804



MSCI Inc. was founded in 1969, when it first began licensing equity index products, and incorporated in 1998. Until going public in November of 2007, the company's only two shareholders were Morgan Stanley and Capital Group International. MSCI became a fully independent, stand-alone public outfit in May of 2009.

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
	7.43	7.91	8.77	8.89	10.64	12.61	14.14	17.04	18.37	20.53	*24.30*	*26.85*	Revenues per sh	*35.00*
	2.13	2.22	2.57	2.44	3.07	3.78	4.30	6.77	7.48	9.06	*11.25*	*12.60*	"Cash Flow" per sh	*17.75*
	1.41	1.48	1.83	1.70	2.09	2.70	3.31	5.35	6.44	7.83	*10.10*	*11.40*	Earnings per sh A	*16.00*
	- -	- -	- -	.18	.80	1.00	1.32	1.92	2.52	2.92	*3.64*	*4.28*	Div'ds Decl'd per sh C	*5.00*
	.19	.37	.34	.38	.40	.35	.37	.36	.34	.26	*.65*	*.75*	Cap'l Spending per sh	*1.00*
	10.77	11.87	13.35	12.78	8.92	3.48	4.45	d1.98	d.90	d5.37	*d3.65*	*d.60*	Book Value per sh	*15.00*
	121.21	120.11	118.08	112.07	101.01	91.28	90.10	84.17	84.80	82.57	*82.50*	*82.00*	Common Shs Outst'g B	*80.00*
	24.8	22.2	20.1	26.5	29.6	28.7	32.1	29.2	34.1	43.6	*Bold figures are*		Avg Ann'l P/E Ratio	*25.0*
	1.56	1.41	1.13	1.39	1.49	1.51	1.61	1.58	1.82	2.24	*Value Line*		Relative P/E Ratio	*1.40*
	- -	- -	- -	.4%	1.3%	1.3%	1.2%	1.2%	1.1%	.9%	*estimates*		Avg Ann'l Div'd Yield	*1.3%*
	900.9	950.1	1035.7	996.7	1075.0	1150.7	1274.2	1434.0	1557.8	1695.4	*2005*	*2200*	Revenues ($mill)	*2800*
	45.6%	45.1%	43.6%	41.3%	45.0%	49.8%	52.0%	53.9%	54.6%	57.3%	*60.5%*	*61.5%*	Operating Margin	*65.0%*
	85.2	82.0	80.5	74.5	79.9	84.4	83.4	89.3	83.5	86.7	*95.0*	*100*	Depreciation ($mill)	*140*
	173.5	184.2	222.6	198.9	230.0	260.9	304.0	480.3	550.8	661.4	*835*	*935*	Net Profit ($mill)	*1280*
	34.2%	36.3%	35.6%	35.5%	34.2%	32.4%	34.9%	20.7%	6.6%	13.2%	*15.5%*	*15.5%*	Income Tax Rate	*21.0%*
	19.3%	19.4%	21.5%	20.0%	21.4%	22.7%	23.9%	33.5%	35.4%	39.0%	*41.6%*	*42.5%*	Net Profit Margin	*45.7%*
	225.1	4.8	134.0	297.7	565.2	519.1	659.4	626.1	1181.0	903.8	*1500*	*1500*	Working Cap'l ($mill)	*2000*
	1066.5	811.6	788.0	800.0	1579.4	2075.2	2078.1	2575.5	3071.9	3366.8	*4000*	*4000*	Long-Term Debt ($mill)	*4000*
	1305.4	1425.2	1576.4	1432.8	901.5	317.6	401.0	d166.5	d76.7	d443.2	*d300*	*d50.0*	Shr. Equity ($mill)	*1200*
	8.4%	9.6%	9.9%	9.6%	10.5%	13.0%	14.6%	22.7%	20.9%	25.3%	*25.5%*	*26.0%*	Return on Total Cap'l	*29.0%*
	13.3%	12.9%	14.1%	13.9%	25.5%	82.1%	75.8%	- -	NMF	NMF	*NMF*	*NMF*	Return on Shr. Equity	*NMF*
	13.3%	12.9%	14.1%	12.5%	15.8%	51.8%	45.9%	- -	NMF	NMF	*NMF*	*NMF*	Retained to Com Eq	*73.5%*
	- -	- -	- -	10%	38%	37%	39%	36%	40%	37%	*36%*	*38%*	All Div'ds to Net Prof	*31%*

CAPITAL STRUCTURE as of 6/30/21
Total Debt $3963.6 mill. **Due in 5 Yrs** $500.0 mill.
LT Debt $3963.6 mill. **LT Interest** $200.0 mill. (110% of Cap'l)
Leases, Uncapitalized Annual rentals $28.2 mill.

No Defined Benefit Pension Plan

Pfd Stock None

Common Stock 82,442,291 shs. **as of 7/20/21**

MARKET CAP: $51.7 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	6/30/21
Cash Assets	1506.6	1300.5	1972.0
Receivables	499.3	558.6	488.6
Inventory	- -	- -	- -
Other	75.9	66.5	97.9
Current Assets	2081.8	1925.6	2558.5
Accts Payable	6.5	14.3	11.3
Debt Due	- -	- -	- -
Other	894.3	1007.5	939.4
Current Liab.	900.8	1021.8	950.7

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	15.0%	14.0%	*11.0%*
"Cash Flow"	19.0%	21.0%	*15.0%*
Earnings	20.0%	24.5%	*16.0%*
Dividends	- -	- -	*12.5%*
Book Value	- -	- -	*NMF*

Calendar	QUARTERLY REVENUES ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	351.3	363.1	357.9	361.7	1434.0
2019	371.4	385.6	394.2	406.6	1557.8
2020	416.8	409.6	425.3	443.7	1695.4
2021	478.4	498.2	*508.4*	*520*	*2005*
2022	*530*	*545*	*555*	*570*	*2200*

Calendar	EARNINGS PER SHARE A Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1.31	1.30	1.35	1.31	D5.35
2019	1.55	1.54	1.68	1.67	6.44
2020	1.90	1.77	2.20	1.96	7.83
2021	2.46	2.45	*2.54*	*2.65*	*10.10*
2022	*2.70*	*2.80*	*2.90*	*3.00*	*11.40*

Calendar	QUARTERLY DIVIDENDS PAID C Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.28	.28	.38	.38	1.32
2018	.38	.38	.58	.58	1.92
2019	.58	.58	.68	.68	2.52
2020	.68	.68	.78	.78	2.92
2021	.78	.78	1.04		

BUSINESS: MSCI Inc. provides portfolio construction and risk management tools and services for a diverse client roster, including asset owners (pension funds, endowments, foundations, central banks, insurance companies), asset management firms (mutual funds, hedge funds, ETF marketers), and private wealth managers (banks, broker-dealers, exchanges, custodians, trust companies, investment consultants). Business lines include indices/ETFs, risk management analytics, portfolio management analytics, and governance. Has about 3,630 employees. Officers & directors own 2.9% of common (3/21 Proxy). CEO: Henry A. Fernandez. Inc.: DE. Addr.: 7 World Trade Center, 250 Greenwich St., 49th Fl., New York, NY 10007. Tel.: 212-804-3900. Internet: www.msci.com.

Shares of MSCI Inc. have continued charging higher since our May write-up, rallying another roughly 30% in value over the three-month stretch. The New York-based company is benefiting from strong demand for its data services and support tools that help global investors build better portfolios. This was evident in the second quarter, when MSCI delivered results that handily topped Wall Street's lofty expectations. In fact, share net of $2.45 for the June stanza bested our $2.28 call and marked a hefty 38% improvement over the year-earlier tally, as the top line increased 22% and good operating leverage bolstered margins. Growth, in particular, was fueled by a 12.3% advance in recurring subscription revenues and a 54.6% surge in asset-based fees. MSCI shored up its important customer-retention rate, too, which rose to 94.4%, versus 93.5% in the prior year. And it continued to generate robust free cash flow, which prompted the board to hike the quarterly dividend payout by 33%, from $0.78 to $1.04 a share.

We expect the fundamentals to remain excellent here. The company is well managed, and has a very resilient business (its high base of recurring sales helps), one that ought to stand up well even if the financial markets hit a rough patch. Indeed, in the coming periods, MSCI should continue to benefit from several powerful secular trends, including the shift toward passive investing via ETFs (exchange traded funds) and the growing popularity of socially responsible ESG (environmental, social, and governance) investing. A large exposure to emerging geographies, especially relative to rival S&P Global, also augurs well for future growth. And we think that the company will continue to expand its addressable market by further branching out into new arenas, from fixed income to derivatives and private assets. All in all, we like the MSCI story, and now envision share earnings climbing to $10.10 and $11.40 in 2021 and 2022, respectively. That said . . .

The stock looks quite expensive, so we would encourage subscribers to wait on the sidelines. At the recent quote, the market already seems to be discounting all of the growth we project to mid-decade.

Justin Hellman *August 20, 2021*

(A) Earnings based on diluted shares outstanding. Excludes nonrecurring gains: '18, $0.31; '19, $0.15. Next earnings report due late October.
(B) In millions.
(C) Dividend initiated in late '14. Payments typically made in March, May, August, and November.
(D) Quarters don't sum to yearend total due to rounding/changes in the share base.

Company's Financial Strength	B+
Stock's Price Stability	85
Price Growth Persistence	85
Earnings Predictability	100

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MOTOROLA SOLU. NYSE-MSI

RECENT PRICE 205.31 | P/E RATIO 23.3 (Trailing: 25.4 Median: 17.0) | RELATIVE P/E RATIO 1.09 | DIV'D YLD 1.4% | VALUE LINE

TIMELINESS 4 Lowered 5/7/21
SAFETY 2 Raised 9/14/18
TECHNICAL 4 Lowered 6/4/21
BETA .90 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$143-$287	$215 (5%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	290	(+40%)	*10%*
Low	215	(+5%)	*3%*

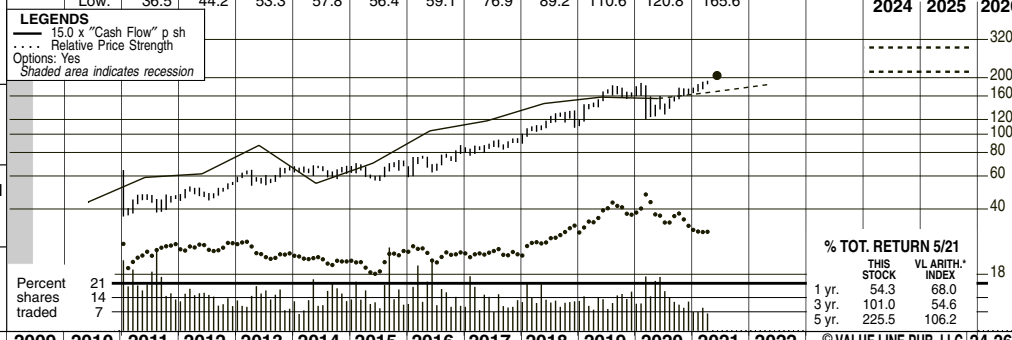
Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	286	354	345
to Sell	359	286	328
Hld's(000)	147194	142416	143820

	High:	64.6	55.8	67.7	68.3	73.0	87.6	95.3	134.0	182.3	187.5	206.0
	Low:	36.5	44.2	53.3	57.8	56.4	59.1	76.9	89.2	110.6	120.8	165.6

LEGENDS
15.0 x "Cash Flow" p sh
Relative Price Strength
Options: Yes
Shaded area indicates recession

Target Price Range 2024 2025 2026



% TOT. RETURN 5/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	54.3	68.0
3 yr.	101.0	54.6
5 yr.	225.5	106.2

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
--	--	--	--	--	22.65	25.73	31.50	34.17	26.76	32.67	36.66	39.58	44.91	46.26	43.77	*47.35*	*50.00*	Revenues per sh	*60.00*
--	--	--	--	--	2.90	3.93	4.10	5.82	3.65	4.68	6.96	7.85	9.72	10.51	10.32	*11.25*	*12.35*	"Cash Flow" per sh	*14.30*
--	--	--	--	--	1.85	2.61	3.20	4.73	2.58	3.33	4.92	5.46	7.15	7.96	7.69	*8.80*	*9.70*	Earnings per sh [A]	*11.50*
--	--	--	--	--	--	.22	.96	1.14	1.30	1.43	1.70	1.93	2.13	2.35	2.56	*2.84*	*3.16*	Div'ds Decl'd per sh [D]	*4.30*
--	--	--	--	--	.57	.58	.68	.75	.82	1.00	1.65	1.41	1.20	1.45	1.28	*1.45*	*1.50*	Cap'l Spending per sh	*1.65*
--	--	--	--	--	16.65	16.36	11.83	14.38	12.44	d.61	d5.85	d10.81	d7.91	d4.11	d3.29	*.60*	*4.35*	Book Value per sh [B]	*6.00*
--	--	--	--	--	336.30	318.80	276.10	254.50	219.80	174.30	164.70	161.20	163.50	170.50	169.40	*171.00*	*172.00*	Common Shs Outst'g [C]	*175.00*
--	--	--	--	--	--	16.6	15.5	12.7	25.0	19.4	14.7	15.8	16.1	19.4	20.3	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*22.0*
--	--	--	--	--	--	1.04	.99	.71	1.32	.98	.77	.79	.87	1.03	1.04			Relative P/E Ratio	*1.20*
--	--	--	--	--	--	.5%	1.9%	1.9%	2.0%	2.2%	2.3%	2.2%	1.9%	1.5%	1.6%			Avg Ann'l Div'd Yield	*1.7%*
8203.0	8698.0	8696.0	5881.0	5695.0	6038.0	6380.0	7343.0	7887.0	7414.0	*8100*	*8600*	Revenues ($mill)	*10500*
21.2%	19.8%	20.1%	21.1%	23.0%	28.8%	29.6%	29.4%	30.0%	30.3%	*29.5%*	*30.0%*	Operating Margin	*30.5%*
366.0	179.0	202.0	169.0	142.0	295.0	343.0	360.0	394.0	409.0	*420*	*440*	Depreciation ($mill)	*470*
888.0	954.0	1280.0	634.0	673.0	851.0	923.0	1230.0	1398.0	1338.8	*1500*	*1680*	Net Profit ($mill)	*2015*
33.4%	33.4%	10.7%	32.6%	33.0%	31.4%	31.0%	21.9%	22.5%	20.0%	*23.0%*	*23.0%*	Income Tax Rate	*23.0%*
10.8%	11.0%	14.7%	10.8%	11.8%	14.1%	14.5%	16.8%	17.7%	18.1%	*18.5%*	*19.5%*	Net Profit Margin	*19.2%*
4953.0	4066.0	3800.0	4629.0	2389.0	800.0	1019.0	1176.0	739.0	838.0	*830*	*1225*	Working Cap'l ($mill)	*1900*
1130.0	1859.0	2457.0	3396.0	4386.0	4392.0	4419.0	5289.0	5113.0	5163.0	*5000*	*5000*	Long-Term Debt ($mill)	*3500*
5214.0	3265.0	3659.0	2735.0	d106.0	d964.0	d1742	d1293	d700.0	d558.0	*100*	*750*	Shr. Equity ($mill)	*995*
15.0%	19.7%	22.0%	11.4%	17.6%	27.8%	38.2%	33.6%	34.2%	31.5%	*29.5%*	*29.0%*	Return on Total Cap'l	*45.0%*
17.0%	29.2%	35.0%	23.2%	--	--	--	--	--	--	*NMF*	*NMF*	Return on Shr. Equity	*NMF*
15.7%	20.9%	27.0%	11.6%	--	--	--	--	--	--	*NMF*	*NMF*	Retained to Com Eq	*NMF*
8%	28%	23%	50%	41%	33%	33%	27%	27%	33%	*34%*	*34%*	All Div'ds to Net Prof	*43%*

CAPITAL STRUCTURE as of 4/3/21

Total Debt $5.17 bill. **Due in 5 years** $2.25 Bill.
LT Debt $5.16 bill. **LT Interest** $215 mill.

Leases, Uncapitalized: Annual rentals $141 mill.

Pension Assets - 12/20 $6.1 bill. **Oblig.** $7.4 bill.

Common Stock 169,667,685 shs.
as of 4/15/21

MARKET CAP: $34.8 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	4/3/21
Cash Assets	1001	1254	1320
Receivables	1412	1390	1090
Inventory (FIFO)	447	508	530
Other	1318	1175	1002
Current Assets	4178	4327	3942
Accts Payable	618	612	484
Debt Due	16	12	11
Other	2805	2865	2600
Current Liab.	3439	3489	3095

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	7.0%	7.5%	*5.0%*
"Cash Flow"	13.5%	16.5%	*5.5%*
Earnings	15.0%	16.5%	*7.0%*
Dividends	--	12.5%	*10.5%*
Book Value	--	--	*NMF*

Calendar	QUARTERLY REVENUES ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1468	1760	1862	2254	7343
2019	1657	1860	1994	2377	7887
2020	1655	1618	1868	2273	7414
2021	1773	*1940*	*2015*	*2372*	*8100*
2022	*1900*	*2040*	*2140*	*2520*	*8600*

Calendar	EARNINGS PER SHARE [A] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1.10	1.46	1.94	2.63	7.15
2019	1.28	1.69	2.04	2.94	7.96
2020	1.49	1.39	1.95	2.86	7.69
2021	1.87	*1.92*	*2.10*	*2.91*	*8.80*
2022	*1.80*	*2.10*	*2.45*	*3.35*	*9.70*

Calendar	QUARTERLY DIVIDENDS PAID [D] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.47	.47	.47	.52	1.93
2018	.52	.52	.52	.57	2.13
2019	.57	.57	.57	.64	2.35
2020	.64	.64	.64	.64	2.56
2021	.71	.71			

BUSINESS: Motorola Solutions, Inc., designs, manufacturers and services analog and digital two-way radios for private networks and end-to-end enterprise mobility solutions to a wide range of customers including government and public safety agencies (fire safety, law enforcement, emergency services, etc.) as well as retail, utilities, transportation, manufacturing, and healthcare customers. North America provides around 68% of sales. Has about 18,000 employees. Officers and directors own 2.3% of common stock; BlackRock, Inc., 9.5%; Vanguard Group, 10.9% (3/21 proxy). President and CEO: Greg Brown. Incorporated: Delaware. Address: 1303 East Algonquin Road, Schaumburg, Illinois 60196. Telephone: 847-576-5000. Internet: www.motorola.com

Motorola Solutions' subscription businesses are offsetting tepid growth in hardware. The Software and Services division increased its first-quarter revenue 15% year over year, but product sales grew only 2%, as video security and commercial radio strength was mostly outweighed by weakness from public safety radio. The latter was supply constrained and should remain so near term. The company now expects its "growth businesses," i.e., video security, command center software, and services, to make up half of 2021 revenue, versus 43% in the first quarter.

Visibility is good, and the outlook remains bright. Motorola ended the first quarter with an 8% bigger backlog than a year ago, with three-quarters of the advance stemming from North America. This, along with recent encouraging demand trends, prompted management to modestly increase 2021 revenue and earnings growth targets to 8%-9% and 13%-14%, respectively. The video business—which is 70% comprised of fixed surveillance cameras—is now expected to grow 20% this year, up from the prior estimate of a high teens percentage. A new technology refresh cycle for cameras and analytics software is driving that. Another tailwind is the fact that the U.S. government is prohibiting itself and American companies from buying products and components from Motorola's Chinese counterparts. Also, people's efforts to improve transparency in policing ought to keep demand for body and dashboard cameras high. The leader in that space, Axon, has reportedly surrendered market share to Motorola recently. Products and services related to radios should grow at a mid-single-digit pace long term. It views push-to-talk over smartphones as a complement to its business, rather than a threat. Too, President Biden's American Recovery Plan earmarks $558 billion for state and local governments, schools, and transit, some of which ought to trickle into MSI's coffers through 2024. This excludes additional infrastructure legislature that may arise.

This stock may appeal to conservative investors. Dependable cash flows, favorable demand trends, and a focus on returning capital to shareholders are the foundation of Motorola's investment case.

Kevin Downing *June 11, 2021*

(A) Diluted earnings. Egs. may not sum due to changes in share count. Next earnings report due early August. All data are pro forma.
(B) Includes intangibles. In 2020: $3.453 bill., $20.38/share.
(C) In millions.
(D) Quarterly divds. paid in mid-January, mid-April, mid-July and mid-Oct.

Company's Financial Strength	B++
Stock's Price Stability	90
Price Growth Persistence	75
Earnings Predictability	70

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NORTHROP GRUMMAN NYSE-NOC

RECENT PRICE 372.18 | P/E RATIO 11.8 (Trailing: 11.7 Median: 14.0) | RELATIVE P/E RATIO 0.55 | DIV'D YLD 1.7% | VALUE LINE

TIMELINESS 3 Lowered 1/22/21
SAFETY 1 Raised 9/21/07
TECHNICAL 4 Raised 5/28/21
BETA .85 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$232-$452 $342 (-10%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	565	(+50%)	12%
Low	460	(+25%)	7%

Institutional Decisions

	2Q2020	3Q2020	4Q2020
to Buy	480	481	509
to Sell	514	493	526
Hld's(000)	138219	137969	137152

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
88.44	87.15	94.77	103.63	110.00	119.46	104.03	106.35	113.78	120.86	129.76	139.99	148.22	176.40	201.87	220.73	*219.00*	*232.65*	Revenues per sh	*283.30*
5.83	6.50	7.30	7.77	7.52	8.52	10.36	10.49	11.29	12.76	13.55	15.17	14.30	23.62	27.58	31.37	*37.65*	*31.65*	"Cash Flow" per sh	*39.95*
3.52	4.44	5.04	5.32	4.87	5.80	7.41	7.81	8.35	9.75	10.39	12.19	11.47	18.49	21.21	23.65	*31.50*	*25.40*	Earnings per sh A	*32.00*
1.01	1.16	1.48	1.57	1.69	1.84	1.97	2.15	2.38	2.71	3.10	3.50	3.90	4.70	5.16	5.67	*5.80*	*6.10*	Div'ds Decl'd per sh B■	*8.30*
2.37	2.13	2.03	2.08	2.13	2.65	1.92	1.40	1.68	2.83	2.60	5.26	5.33	7.32	7.54	8.52	*8.30*	*8.85*	Cap'l Spending per sh	*10.90*
48.45	48.03	52.35	36.45	41.34	46.59	40.71	40.12	49.00	36.47	30.46	30.04	40.49	47.99	52.61	63.45	*90.65*	*111.65*	Book Value per sh C	*180.30*
347.36	345.92	337.83	327.01	306.87	290.96	253.89	237.13	216.74	198.41	181.30	175.07	174.09	170.61	167.64	166.72	*163.00*	*160.00*	Common Shs Outst'g D	*155.00*
15.6	14.9	15.2	12.4	9.9	10.5	8.3	8.2	10.4	12.9	16.1	17.4	23.0	16.8	15.1	13.8	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*16.0*
.83	.80	.81	.75	.66	.67	.52	.52	.58	.68	.81	.91	1.16	.91	.80	.71			Relative P/E Ratio	*.90*
1.8%	1.8%	1.9%	2.4%	3.5%	3.0%	3.2%	3.4%	2.7%	2.1%	1.9%	1.6%	1.5%	1.5%	1.6%	1.7%			Avg Ann'l Div'd Yield	*1.6%*
26412	25218	24661	23979	23526	24508	25803	30095	33841	36799	*35700*	*37225*	Revenues ($mill)	*43920*
14.5%	14.4%	14.7%	15.3%	15.1%	14.9%	14.6%	15.2%	18.7%	17.3%	*22.5%*	*18.0%*	Operating Margin	*18.0%*
544.0	510.0	495.0	462.0	467.0	456.0	475.0	800.0	1018.0	1267.0	*1000*	*1040*	Depreciation ($mill) E	*1225*
2086.0	1978.0	1952.0	2069.0	1990.0	2200.0	2015.0	3229.0	3606.0	3963.0	*5140*	*4065*	Net Profit ($mill)	*4950*
32.3%	33.3%	31.8%	29.6%	28.7%	24.7%	33.9%	13.7%	7.7%	16.8%	*22.0%*	*22.0%*	Income Tax Rate	*20.0%*
7.9%	7.8%	7.9%	8.6%	8.5%	9.0%	7.8%	10.7%	10.7%	10.8%	*14.4%*	*10.9%*	Net Profit Margin	*11.3%*
1611.0	2336.0	3673.0	2292.0	877.0	1226.0	9384.0	1406.0	1251.0	5764.0	*3570*	*2980*	Working Cap'l ($mill)	*3525*
3935.0	3930.0	5928.0	5925.0	6416.0	7058.0	14399	13883	12770	14261	*12700*	*12500*	Long-Term Debt ($mill)	*12025*
10336	9514.0	10620	7235.0	5522.0	5259.0	7048.0	8187.0	8819.0	10579	*14770*	*17850*	Shr. Equity ($mill)	*27950*
15.4%	15.5%	12.6%	16.8%	17.9%	19.1%	10.2%	15.9%	17.9%	17.1%	*18.5%*	*13.5%*	Return on Total Cap'l	*12.5%*
20.2%	20.8%	18.4%	28.6%	36.0%	41.8%	28.6%	39.4%	40.9%	37.5%	*35.0%*	*23.0%*	Return on Shr. Equity	*17.5%*
14.9%	15.2%	13.2%	20.8%	25.1%	29.7%	18.8%	29.4%	30.9%	28.5%	*28.5%*	*17.5%*	Retained to Com Eq	*13.0%*
26%	27%	28%	27%	30%	29%	34%	25%	24%	24%	*18%*	*24%*	All Div'ds to Net Prof	*26%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $12764 mill. **Due in 5 Yrs** $4064 mill.
LT Debt $12764 mill. **Total Interest** $593 mill.
(Total interest coverage: 10.1x)
(59% of Cap'l)
Leases, Uncapitalized $298 mill.
Pension Assets-12/20 $34.5 bill. **Oblig.** $40.2 bill.

Pfd Stock None

Common Stock 160,961,208 shs.
as of 4/26/21

MARKET CAP: $59.9 billion (Large Cap)

CURRENT POSITION ($MILL)	2019	2020	3/31/21
Cash Assets	2245	4907	3517
Receivables	1326	1501	1710
Inventory (Avg Cst)	783	759	860
Other	6331	8177	6166
Current Assets	10685	15344	12253
Accts Payable	2226	1806	1895
Debt Due	- -	- -	- -
Other	7208	7774	6472
Current Liab.	9434	9580	8367

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	6.0%	10.5%	*6.0%*
"Cash Flow"	13.0%	17.0%	*6.5%*
Earnings	15.0%	17.5%	*7.0%*
Dividends	12.0%	13.5%	*8.0%*
Book Value	3.0%	7.0%	*22.0%*

Calendar	QUARTERLY REVENUES ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	6735	7119	8085	8156	30095
2019	8189	8456	8475	8721	33841
2020	8620	8884	9083	10212	36799
2021	9157	*8675*	*8925*	*8943*	*35700*
2022	*8925*	*9125*	*9450*	*9725*	*37225*

Calendar	EARNINGS PER SHARE A Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	4.79	4.52	7.11	2.07	18.49
2019	5.06	5.06	5.49	5.61	21.21
2020	5.15	6.01	5.89	6.60	23.65
2021	13.43	*5.75*	*6.05*	*6.27*	*31.50*
2022	*5.75*	*6.20*	*6.60*	*6.85*	*25.40*

Calendar	QUARTERLY DIVIDENDS PAID B■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.90	1.00	1.00	1.00	3.90
2018	1.10	1.20	1.20	1.20	4.70
2019	1.20	1.32	1.32	1.32	5.16
2020	1.32	1.45	1.45	1.45	5.67
2021	1.45				

BUSINESS: Northrop Grumman Corporation operates in several main sectors. It is a leading maker of manned and unmanned airborne systems; a designer of electronic warfare items; makes space systems and provides advanced information systems. Acquired satellite and missile systems maker Orbital ATK in 2018. Has approximately 97,000 employees. Consolidated backlog at 12/31/20: $81.0 billion. U.S. Government accounted for 84% of total revenues in '20. Officers & directors own about .3% of common stock; State Street Corp., 9.7%; Capital Int'l. Investors, 8.8%; Vanguard Group, 7.5% (4/21 Proxy). CEO & Pres.: Kathy Warden. Inc.: DE. Address: 2980 Fairview Park Drive, Falls Church, VA 22042. Tele.: 703-280-2900. Internet: www.northropgrumman.com.

Northrop Grumman's first-quarter performance featured strong sales and a number of key project wins. The ongoing ramp of the Ground Based Strategic Deterrent (GBSD) program drove revenue growth in launch systems & strategic missiles, while a higher volume of airborne multifunction sensors stemmed from the Scalable Agile Beam Radar (SABR) and Ground/Air Task-Oriented Radar (G/ATOR) programs. Completion of the company's Lake City activities, and the divestiture of its IT services business, combined to represent a $540 million headwind. However, this was largely offset by three extra working days in the quarter. Notably, the gain on the sale of the IT business also resulted in GAAP earnings of $13.43 per share. Discounting its impact, the bottom line still advanced almost 30% to $6.57 a share.

The company should continue to benefit from concerns over hypersonic threats. Northrop Grumman has already been able to take share in the portion of the defense budget allocated toward this cause by the new administration in the United States. Specifically, it secured a $155 million reward for a Hypersonic Ballistic Tracking Space Sensor, which ought to be incorporated into the launch of hundreds of new tracking satellites in the coming years. Northrop was also selected for a Protected Tactical SATCOM project, and a $2.6 billion contract for the next phase of the Missile Defense Agency's next-gen interceptor.

Strong cash flows should help the company continue to return capital to shareholders. Proceeds from Northrop's recent divestiture prompted it to initiate a $2 billion share-repurchasing program in the first quarter. In the period, operating cash flow also grew more than $900 million, which may promote more cash allocation toward debt reduction, as well.

Neutrally ranked Northrop Grumman stock possesses above-average capital appreciation potential. A strategic focus on ground-based air defense systems should help stimulate top-line growth in the coming years, while R&D targeted at extending the life of existing satellites may well supply the company with some highly lucrative government contracts.

Robert J. Scrudato *June 4, 2021*

(A) Diluted earnings. Excl. nonrecur. (losses) gains.: '05, 33¢; '06, (7¢); '07, 11¢; '08, ($9.09); '09, 34¢; '10, $1.02; '19, $7.99; '20, $4.62. Next earnings report due late July.
(B) Div'd historically paid mid-March, June, Sept., and Dec. ■ Div'd reinvest. plan available.
(C) Incl. intang. assets. In 2020: $18.3 bill., $109.19/sh.
(D) In millions.
(E) Depreciation on accelerated basis.

Company's Financial Strength	A++
Stock's Price Stability	90
Price Growth Persistence	95
Earnings Predictability	90

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OLD DOMINION NDQ-ODFL

RECENT PRICE 272.19 | P/E RATIO 34.0 (Trailing: 37.1, Median: 20.0) | RELATIVE P/E RATIO 1.78 | DIV'D YLD 0.3% | VALUE LINE 325

TIMELINESS 4 Lowered 5/14/21
SAFETY 1 Raised 8/21/20
TECHNICAL 3 Lowered 7/16/21
BETA .90 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$207-$423	$315 (15%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	230	(-15%)	-3%
Low	190	(-30%)	-8%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	309	316	322
to Sell	236	273	301
Hld's(000)	83351	82213	82273

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
	8.43	10.17	11.14	12.22	9.89	11.77	14.57	16.33	18.09	21.59	23.48	24.20	27.18	33.19	34.38	34.30	*42.60*	*46.95*	Revenues per sh	*53.65*
	.87	1.11	1.21	1.24	1.03	1.24	1.78	2.17	2.58	3.21	3.71	3.93	4.57	6.86	7.27	7.98	*10.10*	*11.15*	"Cash Flow" per sh	*11.95*
	.43	.58	.57	.55	.28	.60	1.08	1.31	1.59	2.07	2.38	2.37	2.91	4.92	5.11	5.68	*7.75*	*8.65*	Earnings per sh A	*9.00*
	--	--	--	--	--	--	--	--	--	--	--	--	.27	.35	.45	.60	*.80*	*.88*	Div'ds Decl'd per sh D	*1.04*
	1.32	1.74	1.48	1.44	1.68	.85	1.94	2.89	2.29	2.85	3.65	3.38	3.09	4.83	4.01	1.92	*5.25*	*5.05*	Cap'l Spending per sh	*5.25*
	2.74	3.32	3.89	4.44	4.71	5.31	6.63	7.94	9.53	11.57	13.31	14.97	18.43	22.00	25.77	28.42	*31.20*	*36.90*	Book Value per sh	*54.75*
	125.84	125.84	125.84	125.84	125.84	125.84	129.25	129.25	129.25	129.14	126.62	123.63	123.56	121.85	119.53	117.06	*115.00*	*114.00*	Common Shs Outst'g C	*110.00*
	15.1	15.1	14.3	15.8	30.9	17.9	14.2	15.4	17.9	20.7	19.4	19.2	22.7	19.4	20.8	29.6	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*23.5*
	.80	.82	.76	.95	2.06	1.14	.89	.98	1.01	1.09	.98	1.01	1.14	1.05	1.11	1.52			Relative P/E Ratio	*1.30*
	--	--	--	--	--	--	--	--	--	--	--	--	.4%	.4%	.4%	.4%			Avg Ann'l Div'd Yield	*.5%*
	1882.5	2110.5	2337.6	2787.9	2972.4	2991.5	3358.1	4043.7	4109.1	4015.1	*4900*	*5350*	Revenues ($mill)	*5900*
	17.3%	18.8%	19.9%	21.1%	22.3%	22.5%	23.3%	25.9%	26.1%	29.1%	*30.0%*	*30.0%*	Operating Margin B	*28.0%*
	90.8	110.7	127.1	146.5	165.3	189.9	205.8	230.4	253.7	261.3	*255*	*280*	Depreciation ($mill)	*315*
	139.5	169.5	206.1	267.5	304.7	295.8	359.1	605.7	615.5	672.7	*905*	*995*	Net Profit ($mill)	*1000*
	36.6%	38.0%	37.3%	38.1%	37.8%	38.1%	37.6%	25.7%	25.3%	25.4%	*25.3%*	*25.0%*	Income Tax Rate	*25.0%*
	7.4%	8.0%	8.8%	9.6%	10.3%	9.9%	10.7%	15.0%	15.0%	16.8%	*18.5%*	*18.6%*	Net Profit Margin	*17.0%*
	127.1	49.9	100.9	177.5	96.3	94.0	233.6	349.5	500.7	870.2	*800*	*975*	Working Cap'l ($mill)	*1200*
	229.8	201.4	155.7	120.0	107.3	105.0	45.0	45.0	45.0	99.9	*100*	*150*	Long-Term Debt ($mill)	*300*
	856.5	1026.0	1232.1	1494.1	1684.6	1851.2	2276.9	2680.5	3080.7	3326.3	*3590*	*4205*	Shr. Equity ($mill)	*6020*
	13.5%	14.3%	15.2%	16.8%	17.1%	15.2%	15.5%	22.2%	19.7%	19.7%	*24.5%*	*23.0%*	Return on Total Cap'l	*16.0%*
	16.3%	16.5%	16.7%	17.9%	18.1%	16.0%	15.8%	22.6%	20.0%	20.2%	*25.0%*	*23.5%*	Return on Shr. Equity	*16.5%*
	16.3%	16.5%	16.7%	17.9%	18.1%	16.0%	14.3%	21.0%	18.2%	18.1%	*22.5%*	*21.0%*	Retained to Com Eq	*14.5%*
	--	--	--	--	--	--	9%	7%	9%	11%	*10%*	*10%*	All Div'ds to Net Prof	*12%*

High: 14.3 18.5 23.4 35.6 54.3 54.0 61.1 89.4 113.5 131.5 213.7 276.1
Low: 7.8 12.2 17.0 23.1 33.2 37.9 32.6 53.7 76.7 78.7 105.8 189.5

Target Price Range 2024 2025 2026

LEGENDS
17.5 x "Cash Flow" p sh
Relative Price Strength
3-for-2 split 8/10
3-for-2 split 9/12
3-for-2 split 3/20
Options: Yes
Shaded area indicates recession

Percent shares traded 36 24 12

% TOT. RETURN 7/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	47.7	55.5
3 yr.	178.2	48.6
5 yr.	489.6	95.5

CAPITAL STRUCTURE as of 6/30/21
Total Debt $99.9 mill. **Due in 5 Yrs** Nil
LT Debt $99.9 mill. **LT Interest** $2.0 mill.
(Total interest covered: over 25x)

Leases, Uncapitalized Annual rentals $16.0 mill.

No Defined Benefit Pension Plan

Pfd Stock None.

Common Stock 115,810,083 shs.
as of 8/3/21
MARKET CAP: $31.5 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	6/30/21
Cash Assets	403.6	731.7	649.5
Receivables	397.5	444.7	548.7
Other	65.7	66.9	112.9
Current Assets	866.8	1243.3	1311.1
Accts Payable	70.3	68.5	91.0
Debt Due	--	--	--
Other	295.8	304.6	391.0
Current Liab.	366.1	373.1	482.0

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	11.5%	10.0%	*8.0%*
"Cash Flow"	20.0%	18.5%	*8.5%*
Earnings	27.0%	21.0%	*9.5%*
Dividends	--	--	*14.5%*
Book Value	18.0%	17.0%	*13.5%*

Calendar	QUARTERLY REVENUES ($ mill.) A Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	925.0	1033.5	1058.2	1027.0	4043.7
2019	990.8	1060.7	1048.5	1009.1	4109.1
2020	987.4	896.2	1058.2	1073.3	4015.1
2021	1126.5	1319.4	*1240*	*1214.1*	*4900*
2022	*1250*	*1390*	*1360*	*1350*	*5350*

Calendar	EARNINGS PER SHARE A Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.89	1.33	1.41	1.29	4.92
2019	1.09	1.44	1.37	1.21	5.11
2020	1.11	1.25	1.71	1.61	5.68
2021	1.70	2.31	*1.95*	*1.79*	*7.75*
2022	*1.95*	*2.25*	*2.25*	*2.20*	*8.65*

Calendar	QUARTERLY DIVIDENDS PAID D Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.067	.067	.067	.067	.27
2018	.087	.087	.087	.087	.35
2019	.113	.113	.113	.113	.45
2020	.153	.15	.15	.15	.60
2021	.20	.20			

BUSINESS: Old Dominion Freight Line, Inc. is one of the largest North American less-than-truckload (LTL) motor carriers. Provides regional, inter-regional, and national LTL service and value-added logistics services from a single integrated organization. Revenue is generated primarily from customers throughout the U.S. and North America. In 2020, the company's largest customer accounted for 4.7% of revenues. Owned 9,288 tractors, 36,650 trailers and 244 service centers as of 12/31/20. Has about 19,780 employees. Off./dir. own 12.0% of common stock; The Vanguard Group, 9.4% (4/21 Proxy). Chairman: David S. Congdon. CEO & Pres.: Greg C. Gantt. Inc.: VA. Address: 500 Old Dominion Way, Thomasville, NC 27360. Tel.: (336) 889-5000. Internet: www.odfl.com.

Old Dominion Freight Line shares recently traded just off their all-time high. The stock also is up more than 150% from its coronavirus-driven nadir in March, 2020. The investment community continues to cheer the freight company's strong results, which included a vibrant June-quarter performance. Specifically, Old Dominion posted an 85% bottom-line advance, to $2.31 a share, on a 47% gain in revenues. The comparison was not tough, given the impact the COVID-19 pandemic had on year-earlier results, but it was still a terrific showing (earnings up 60% versus the like-2019 figure). The company's less than truckload (LTL) business continues to benefit from a sharply recovering domestic economy and an increase in shopping, which has led to a greater need for shipping services. Old Dominion's LTL tons, LTL revenue per hundredweight, and LTL shipment metrics jumped 28.1%, 14.9%, and 33.5%, respectively, during the June quarter.

We are raising our 2021 and 2022 share-net estimates. The recovering U.S. economy (GDP was up 6.5% in the second quarter) and resultant increased demand for freight and shipping services should drive strong second-half top- and bottom-line gains. It also is worth noting that despite higher operating costs (i.e., fuel and driver salaries), the company's operating ratio continues to improve (550 basis points, to a record 72.3%, in the June quarter). Investments in the service center network, new markets, and ODFL's digital capabilities are resulting in an improved cost structure and supporting the bottom line. Moreover, the company increased its number of full-time employees by 20.7% in the June quarter and was expected to ramp up its hirings in the current period. This is a sign of confidence among management that demand for shipping services will remain vibrant well into next year that, along with an industrywide capacity shortage, should allow Old Dominion to confidently raise prices to offset higher operating costs. That aside,

We would not be a buyer of this untimely stock at its lofty P/E multiple. The notable run-up in price over the last year has discounted the growth we envision to 2024-2026.

William G. Ferguson *August 20, 2021*

(A) Based on diluted shares outstanding. Excludes nonrecurring gain: '17, $0.85. Next earnings report due late October. **(B)** Expenses exclude operating taxes and licenses prior to 2008. **(C)** In millions, adjusted for splits. **(D)** Initiated dividend payment Q1 2017. Dividends paid late March, June, September, and December.

Company's Financial Strength	A++
Stock's Price Stability	85
Price Growth Persistence	95
Earnings Predictability	80

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PERKINELMER, INC. NYSE-PKI

RECENT PRICE 183.84 | P/E RATIO 23.2 (Trailing: 14.6 Median: 19.0) | RELATIVE P/E RATIO 1.21 | DIV'D YLD 0.2% | VALUE LINE

TIMELINESS 2 Lowered 4/2/21
SAFETY 2 Raised 5/15/20
TECHNICAL 4 Lowered 7/16/21
BETA .90 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$121-$259 $190 (5%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	255	(+40%)	9%
Low	185	(Nil)	1%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	267	296	272
to Sell	198	233	283
Hld's(000)	100940	103729	104008

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
11.42	12.55	15.20	16.54	15.49	14.73	17.01	18.62	19.23	19.89	20.19	19.30	20.45	25.12	25.95	33.75	*41.04*	*36.35*	Sales per sh	*43.20*
1.37	1.45	1.98	2.22	2.05	2.13	2.78	3.16	3.25	3.53	3.59	3.53	3.87	5.28	6.04	10.50	*12.50*	*10.45*	"Cash Flow" per sh	*12.80*
.95	1.14	1.28	1.45	1.27	1.33	1.83	2.06	2.09	2.47	2.55	2.60	2.90	3.61	4.10	8.30	*9.90*	*7.75*	Earnings per sh A	*10.00*
.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	.28	*.28*	*.28*	Div'ds Decl'd per sh B■	*.32*
.19	.36	.40	.37	.27	.29	.27	.37	.35	.26	.26	.29	.35	.84	.69	.69	*.65*	*.65*	Cap'l Spending per sh	*.80*
12.79	12.80	13.40	13.39	13.92	16.64	16.31	16.86	17.71	18.16	18.84	19.65	22.68	23.37	25.32	33.33	*42.40*	*50.00*	Book Value per sh D	*68.20*
129.06	123.26	117.59	117.11	117.02	115.72	112.98	115.04	112.63	112.48	112.03	109.62	110.36	110.60	111.14	112.09	*112.00*	*110.00*	Common Shs Outst'g C	*110.00*
22.1	18.7	20.3	16.8	13.2	17.0	13.1	13.3	16.9	18.0	19.5	19.9	22.0	22.3	22.0	12.9	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*22.0*
1.18	1.01	1.08	1.01	.88	1.08	.82	.85	.95	.95	.98	1.04	1.11	1.20	1.17	.66			Relative P/E Ratio	*1.20*
1.3%	1.3%	1.1%	1.2%	1.7%	1.2%	1.2%	1.0%	.8%	.6%	.6%	.5%	.4%	.3%	.3%	.3%			Avg Ann'l Div'd Yield	*.1%*
1921.3	2141.5	2166.2	2237.2	2262.4	2115.5	2257.0	2778.0	2883.7	3782.7	*4600*	*4000*	Sales ($mill)	*4750*
11.4%	22.4%	21.8%	22.9%	22.6%	22.6%	23.9%	25.5%	28.1%	38.3%	*38.0%*	*35.0%*	Operating Margin	*36.0%*
110.9	126.9	128.5	116.7	112.0	100.0	105.0	180.6	214.0	246.5	*290*	*300*	Depreciation ($mill)	*310*
203.4	236.1	237.2	280.3	289.9	286.5	322.6	403.6	457.3	930.0	*1100*	*850*	Net Profit ($mill)	*1100*
23.7%	22.5%	19.5%	20.7%	18.9%	14.4%	24.4%	12.4%	10.6%	17.8%	*21.0%*	*18.0%*	Income Tax Rate	*18.0%*
10.6%	11.0%	10.9%	12.5%	12.8%	13.5%	14.3%	14.5%	15.9%	24.6%	*24.1%*	*21.3%*	Net Profit Margin	*23.2%*
262.1	390.7	442.0	471.3	471.7	586.5	249.1	463.0	611.6	586.7	*1170*	*945*	Working Cap'l ($mill)	*975*
944.9	938.8	932.1	1051.9	1011.8	1045.3	1788.8	1876.6	2064.0	1609.7	*2200*	*2000*	Long-Term Debt ($mill)	*1250*
1842.2	1939.8	1994.5	2042.1	2110.4	2153.6	2503.2	2585.0	2813.8	3735.5	*4750*	*5500*	Shr. Equity ($mill)	*7500*
7.8%	8.6%	9.0%	9.7%	9.9%	9.6%	8.0%	9.8%	10.0%	17.8%	*16.5%*	*11.5%*	Return on Total Cap'l	*13.0%*
11.0%	12.2%	11.9%	13.7%	13.7%	13.3%	12.9%	15.6%	16.3%	24.9%	*23.5%*	*15.5%*	Return on Shr. Equity	*14.5%*
9.3%	10.5%	10.3%	12.2%	12.2%	11.9%	11.7%	14.4%	15.1%	24.1%	*22.5%*	*15.0%*	Retained to Com Eq	*14.0%*
16%	14%	13%	11%	11%	11%	10%	8%	7%	3%	*3%*	*4%*	All Div'ds to Net Prof	*3%*

CAPITAL STRUCTURE as of 4/4/21
Total Debt $2578.1 mill. **Due in 5 Yrs** $550.0 mill.
LT Debt $2219.7 mill. **LT Interest** $48.5 mill.
(Total interest coverage: 32.0x) (36% of Cap'l)

Leases, Uncapitalized: Annual rentals $49.0 mill.
Pension Assets-12/20 $473.4 mill.
Oblig. $713.0 mill.

Pfd Stock None

Common Stock 112,091,175 shs.
as of 5/6/21
MARKET CAP: $20.6 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	4/4/21
Cash Assets	191.9	402.0	988.3
Receivables	725.2	1155.1	978.6
Inventory (LIFO)	356.9	514.6	529.9
Other	100.4	167.2	177.8
Current Assets	1374.4	2238.9	2674.6
Accts Payable	235.9	327.3	339.3
Debt Due	10.0	380.9	358.4
Other	516.9	944.0	822.8
Current Liab.	762.8	1652.2	1520.5

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	6.0%	7.5%	*7.5%*
"Cash Flow"	13.0%	16.0%	*10.0%*
Earnings	14.5%	17.5%	*11.0%*
Dividends	- -	- -	*2.5%*
Book Value	6.5%	8.5%	*16.5%*

Calendar	QUARTERLY SALES ($ mill.) Mar.Per	Jun.Per	Sep.Per	Dec.Per	Full Year
2018	644.0	703.4	674.3	756.3	2778.0
2019	648.8	722.5	706.9	805.5	2883.7
2020	652.4	811.7	964.0	1354.6	3782.7
2021	1308	1229	*1000*	*1063*	*4600*
2022	*925*	*975*	*1000*	*1100*	*4000*

Calendar	EARNINGS PER SHARE AE Mar.Per	Jun.Per	Sep.Per	Dec.Per	Full Year
2018	.63	.91	.90	1.17	3.61
2019	.69	1.00	1.06	1.35	4.10
2020	.67	1.57	2.09	3.96	8.30
2021	3.72	2.83	*1.65*	*1.70*	*9.90*
2022	*1.75*	*1.90*	*2.00*	*2.10*	*7.75*

Calendar	QUARTERLY DIVIDENDS PAID B■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.07	.07	.07	.07	.28
2018	.07	.07	.07	.07	.28
2019	.07	.07	.07	.07	.28
2020	.07	.07	.07	.07	.28
2021	.07	.07	.07		

BUSINESS: PerkinElmer (formerly EG&G), Inc. provides advanced technologies, solutions, and services to improve the health and safety of people and their environment. It operates two business segments: Discovery and Analytical Solutions (45% of 2020 sales) and Diagnostics (55%). Serves a variety of markets, including industrial and lab services. Acquired Perten Instruments, 2014; Euroimmun Medical, 2017. R&D: 5.4% of sales. Employs 14,000. Off./dir. own less than 1% of common stock; Capital Research Global, 10.9%; The Vanguard Group, 10.8%; Select Equity, 9.2% (3/21 proxy). CEO and President: Prahlad R. Singh. Inc.: MA. Address: 940 Winter Street, Waltham, Massachusetts 02451. Tel: (781) 663-6900. Internet: www.perkinelmer.com.

PerkinElmer has agreed to acquire privately held BioLegend for $5.25 billion. BioLegend is a global developer of antibodies and reagents used for biomedical research. The move is expected to expand PerkinElmer's footprint in the antibody space, which is a fast-growing market that usually delivers high margins. The deal will be financed by a combination of equity, cash on hand, and new debt. The transaction is likely to close by yearend. BioLegend is projected to generate revenues of roughly $380 million in 2022 and add $0.30 to the bottom line. (Note: Our estimates and projections will not include the business of BioLegend until the transaction closes.) At first glance, the deal makes sense and should complement the company's existing businesses.

Second-quarter results were strong. Sales of $1.23 billion easily topped consensus estimates and rose more than 50% from the previous-year period. The company continued to benefit from the COVID-19 pandemic, where its PCR testing and other solutions remain in high demand. Too, PerkinElmer's non-COVID-19 businesses grew at an impressive clip. In terms of operating segments, the larger Diagnostics unit advanced 70% year over year, thanks in part to solid immunodiagnostics growth. The Discovery and Analytics segment also did well, with food quality and cannabis testing seeing nice demand. Meanwhile, adjusted earnings of $2.83 per share exceeded our target by nearly $0.50. Besides the increased sales, margins widened significantly.

We have adjusted our 2021 estimates. Demand for COVID-19 testing solutions is likely to slow as vaccinations become more prevalent. The good news is that PerkinElmer's other businesses will likely get a bump. All told, we have added $230 million and $0.50 per share to our respective 2021 top- and bottom-line estimates.

These shares are ranked 2 (Above Average) for Timeliness. The stock has gained roughly 40% in value since our May review and may have more room to run in the near term. Too, although capital appreciation potential out to mid-decade does not stand out, a successful integration of BioLegend would improve the stock's long-term prospects.

Kevin P. O'Sullivan *August 13, 2021*

(A) Diluted egs. Excl. nonrec./discontinued gains/(losses): '05, $1.09; '06, ($0.20); '07, ($0.19); '08, ($0.39); '09, ($0.54); '10, $1.92; '11, ($1.76); '12, ($1.45); '13, ($0.60); '14, ($1.02); '15, ($0.67); '16, ($0.48); '17, $1.48;'18, ($1.48); '19, ($2.06); '20, ($1.80); '21, ($0.99). Next egs. report due early Nov. **(B)** Div'ds paid in Jan., May, Aug., and Nov. ■ Div'd reinv. plan avail. **(C)** In millions. **(D)** Includes intan. in '20: $4813 mill., $42.94/shr. **(E)** Qtrly EPS may not sum to total due to changes in shares outstanding.

Company's Financial Strength	B++
Stock's Price Stability	85
Price Growth Persistence	95
Earnings Predictability	60

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POST HOLDINGS NYSE-POST

RECENT PRICE 109.47 | P/E RATIO 32.9 (Trailing: 46.8 Median: NMF) | RELATIVE P/E RATIO 1.62 | DIV'D YLD Nil | VALUE LINE

TIMELINESS 2 Raised 5/21/21
SAFETY 3 New 4/27/12
TECHNICAL 2 Raised 6/25/21
BETA .95 (1.00 = Market)

18-Month Target Price Range

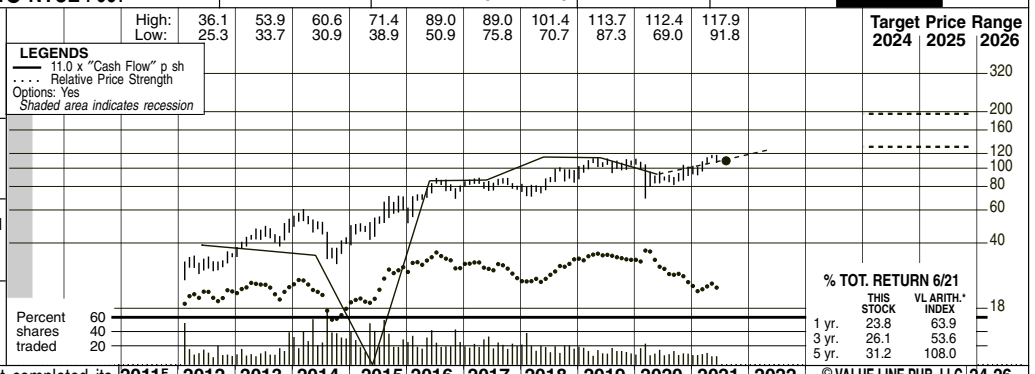
Low-High	Midpoint (% to Mid)
$63-$138	$101 (-10%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	195	(+80%)	*16%*
Low	130	(+20%)	*5%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	116	105	118
to Sell	152	167	168
Hld's(000)	58920	56971	56541



On February 3, 2012, Post completed its legal separation from Ralcorp Holdings via a tax-free spinoff. Shareholders of Ralcorp Holdings received one share of Post common stock for every two shares of Ralcorp common stock held. On February 6, 2012, Post Holdings began trading on the New York Stock Exchange.

CAPITAL STRUCTURE as of 3/31/21
Total Debt $7055.3 mill. **Due in 5 Yrs** $74.3 mill.
LT Debt $6981.0 mill. **LT Interest** $355 mill.
(Long-term interest earned: 1.7X)
(71% of Cap'l)

Leases, Uncapitalized Annual rentals $28.7 mill.

Pension Assets-9/20 $1114.7 mill.
Pension Oblig. $965.5 mill.

Pfd Stock: None

Common Stock 63,629,827 shs.
as of 5/3/21
MARKET CAP: $7.0 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	1054.5	1193.4	742.6
Receivables	445.1	441.6	554.8
Inventory (FIFO)	579.8	599.4	639.7
Other	46.9	53.4	128.4
Current Assets	2126.3	2287.8	2065.5
Accts Payable	395.6	367.9	406.5
Debt Due	13.5	64.9	74.3
Other	393.8	541.6	409.3
Current Liab.	802.9	974.4	890.1

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	- -	9.5%	*5.0%*
"Cash Flow"	- -	NMF	*7.0%*
Earnings	- -	NMF	*9.5%*
Dividends	- -	- -	*Nil*
Book Value	- -	1.0%	*7.5%*

Fiscal Year Ends	QUARTERLY SALES ($ mill.) A Dec.31	Mar.31	Jun.30	Sep.30	Full Fiscal Year
2018	1433.1	1586.1	1608.1	1629.9	6257.2
2019	1411.3	1387.8	1439.2	1442.8	5681.1
2020	1456.8	1494.2	1336.4	1411.3	5698.7
2021	1458.0	1483.3	***1475***	***1533.7***	***5950***
2022	***1525***	***1550***	***1525***	***1600***	***6200***

Fiscal Year Ends	EARNINGS PER SHARE AB Dec.31	Mar.31	Jun.30	Sep.30	Full Fiscal Year
2018	.87	1.06	1.06	1.08	4.07
2019	1.11	1.28	1.19	1.40	4.98
2020	.73	.65	.75	.58	2.71
2021	.72	.29	***1.01***	***1.18***	***3.20***
2022	***.85***	***1.10***	***1.20***	***1.35***	***4.50***

Calendar	QUARTERLY DIVIDENDS PAID Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017					
2018	NO CASH DIVIDENDS BEING PAID				
2019					
2020					
2021					

	2011F	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
Sales per sh A	- -	29.37	31.62	53.82	77.08	77.45	79.06	93.81	78.79	85.82	***94.45***	***100.00***		*116.65*
"Cash Flow" per sh	- -	3.55	3.34	3.13	d4.17	7.79	7.88	10.44	10.35	8.44	***9.80***	***11.50***		*14.65*
Earnings per sh B	- -	1.53	.94	d.42	.62	2.59	2.67	4.07	4.98	2.71	***3.20***	***4.50***		*6.75*
Div'ds Decl'd per sh	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	***Nil***	***Nil***		*Nil*
Cap'l Spending per sh	- -	.95	1.00	2.58	1.79	1.87	2.88	3.37	3.80	3.53	***3.15***	***3.65***		*4.60*
Book Value per sh C	- -	37.72	38.49	38.91	40.07	39.12	34.95	38.69	40.58	42.99	***43.35***	***47.20***		*63.05*
Common Shs Outst'g D	- -	32.65	32.70	44.80	60.30	64.90	66.10	66.70	72.10	66.40	***63.00***	***62.00***		*60.00*
Avg Ann'l P/E Ratio	- -	20.0	42.6	- -	NMF	27.5	30.6	20.4	20.2	35.2	*Bold figures are Value Line estimates*			*24.0*
Relative P/E Ratio	- -	1.27	2.39	- -	NMF	1.44	1.54	1.10	1.08	1.80				*1.35*
Avg Ann'l Div'd Yield	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -				*Nil*
Sales ($mill) A	968.2	958.9	1034.1	2411.1	4648.2	5026.8	5225.8	6257.2	5681.1	5698.7	***5950***	***6200***		*7000*
Operating Margin	28.0%	21.4%	20.9%	13.8%	15.3%	17.1%	16.7%	17.8%	21.1%	21.5%	***21.0%***	***20.5%***		*20.5%*
Depreciation ($mill)	58.7	63.2	76.8	155.8	272.8	302.8	323.1	398.4	379.6	370.3	***415***	***425***		*475*
Net Profit ($mill) E	d424.3	52.6	36.5	d1.2	52.7	217.4	211.0	308.6	370.7	190.1	***215***	***295***		*405*
Income Tax Rate	- -	36.7%	31.8%	- -	31.1%	29.7%	35.0%	- -	18.7%	20.5%	***21.0%***	***21.0%***		*23.0%*
Net Profit Margin	NMF	5.5%	3.5%	NMF	1.1%	4.3%	4.0%	4.9%	6.5%	3.3%	***3.6%***	***4.8%***		*5.8%*
Working Cap'l ($mill)	1.0	83.3	522.1	699.1	1170.7	1442.9	1911.5	1408.2	1323.4	1313.4	***1250***	***1150***		*1750*
Long-Term Debt ($mill)	716.5	930.3	1408.6	3830.5	4511.4	4551.2	7149.1	7232.1	7066.0	6959.0	***6950***	***6500***		*5750*
Shr. Equity ($mill)	1434.7	1231.5	1498.6	2283.2	2976.0	3008.6	2780.0	3050.4	2925.9	2854.5	***2730***	***2925***		*3785*
Return on Total Cap'l	NMF	3.8%	2.7%	1.5%	2.6%	4.9%	3.7%	4.9%	5.3%	3.9%	***4.0%***	***5.0%***		*6.0%*
Return on Shr. Equity	NMF	4.3%	2.4%	NMF	1.8%	7.2%	7.6%	10.1%	12.7%	6.7%	***8.0%***	***10.0%***		*10.5%*
Retained to Com Eq	NMF	4.3%	2.6%	NMF	NMF	8.0%	8.5%	11.5%	12.5%	6.7%	***8.0%***	***10.0%***		*10.5%*
All Div'ds to Net Prof G	- -	- -	12%	NMF	32%	7%	6%	3%	1%	1%	***Nil***	***Nil***		*Nil*

BUSINESS: Post Holdings is a consumer packaged goods holding company, operating in the center-of-the-store, refrigerated, foodservice, food ingredient, and convenience nutrition categories. It has five operating units: Post Consumer Brands, Weetabix, Foodservice, Refrigerated Retail, and BellRing Brands. Brands include: *Honey Bunches of Oats*, *Shredded Wheat*, *Post Raisin Bran*, *Malt-O-Meal*, *Bob Evans*, and *Power Bar*. Spun off from Ralcorp Hldgs. 2/12; acquired Michael Foods, 6/14; MOM Brands, 5/15. Off./dir. own 9.7% of common stock; Route One Investment Co., 10.4% (12/20 Proxy). Has 11,550 emplys. CEO & Pres.: Robert V. Vitale. Inc.: MO. Addr.: 2503 S. Hanley Road, St. Louis, MO 63144. Telephone: (314) 644-7600. Internet: www.postholdings.com.

Post Holdings reported disappointing fiscal second-quarter (ended March 31st) results. Specifically, the packaged goods company posted adjusted earnings of $0.29 a share, which fell short of our $0.60 estimate and was another step down from a poor showing in the year-ago same period. The biggest problem was continued weakness in the Post Consumer Brands, Weetabix, and Foodservice units. The first two segments, where volumes fell 11.6% and 8.5%, respectively, were hurt by declines in ready-to-eat (RTE) cereal sales. The Foodservice division again suffered from reduced food consumption in away-from-home channels, which resulted in fewer sales of eggs and potato products to restaurants, educational facilities, and travel and lodging entities. The struggles of these segments more than offset sales gains in the BellRing Brands (active nutrition) and Refrigerated Retail units.

We are lowering our fiscal 2021 share-net estimate by $0.45, to $3.20. The downward revision primarily reflects our worries about the recent RTE cereal declines. Investors should recall that before the pickup in volume during the pandemic, RTE cereal sales growth was lackluster, at best. This, along with the expected near-term increases in ingredients, packaging, energy, and transportation costs, has us less optimistic about a notable earnings recovery this year.

The company is becoming more aggressive on the acquisition front. Post used to be under the Ralcorp umbrella before being spun off. That company (now part of Conagra Brands) was very active on the deal-making front, so it is not a stretch to say management is returning the company to its roots. So far in fiscal 2021, Post has added Henningsen Foods, the *Peter Pan* brand, Almark Foods, and TreeHouse Foods' RTE cereal business to its arsenal. Post Holdings believes it could drive sales growth and unlock more value through bolt-on purchases.

This timely stock has above-average appreciation potential to 2024-2026. We have raised our 3- to 5-year P/E multiple and with an expected rebound in earnings, driven, in part, by acquisitions, this equity offers more growth potential than most of its food processing peers.

William G. Ferguson *July 16, 2021*

(A) FY ends Sept. 30th. **(B)** Dil. egs. Excl. nonrecur. gains (charges): '12, (8¢); '13, (64¢); '14, ($8.61); '15, ($2.65); '17, ($2.17); '18, $2.09; '19, ($3.28); '20, ($2.70); '21 Q1-Q2, $1.89. May not sum due to shr. count change. Next egs. report due early Aug. **(C)** Inc. intangibles. At 3/31/21: $7.79 bill., $122.41/shr. **(D)** In mill. **(E)** Incl. goodwill impairment charge: $566.5 mill. in FY 2011. **(F)** FY 2011 data restated to reflect a change in the amount of goodwill impaired. **(G)** Paid quarterly div'ds. on Convertible Preferred Stock in years 2013-2019.

Company's Financial Strength	B++
Stock's Price Stability	85
Price Growth Persistence	70
Earnings Predictability	25

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RLI CORP. NYSE-RLI

RECENT PRICE 106.12 | P/E RATIO 35.4 (Trailing: 37.8 Median: 26.0) | RELATIVE P/E RATIO 1.65 | DIV'D YLD 0.9% | VALUE LINE

TIMELINESS 1 Raised 5/21/21
SAFETY 2 Raised 6/5/20
TECHNICAL 2 Raised 6/4/21
BETA .80 (1.00 = Market)

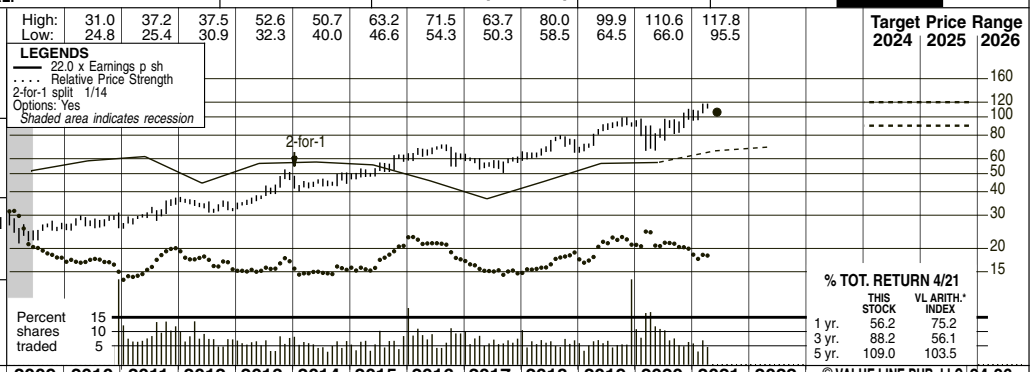
18-Month Target Price Range
Low-High Midpoint (% to Mid)
$81-$162 $122 (15%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	120	(+15%)	4%
Low	90	(-15%)	-3%

Institutional Decisions

	2Q2020	3Q2020	4Q2020
to Buy	123	108	113
to Sell	106	126	129
Hld's(000)	38931	38035	37899



2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
9.61	10.92	12.29	12.31	11.57	11.77	12.72	13.56	14.68	15.95	16.08	16.58	16.72	17.78	18.70	19.18	*21.80*	*23.35*	P/C Prem Earned per sh	*30.00*
1.21	1.47	1.78	1.84	1.58	1.59	1.50	1.38	1.23	1.29	1.26	1.21	1.24	1.40	1.54	1.50	*1.55*	*1.70*	Investment Inc per sh	*2.50*
1.34	1.89	3.52	1.94	2.04	2.27	2.78	1.49	2.48	2.48	2.49	1.74	.60	.94	1.51	1.54	*16.35*	*1.65*	Underwriting Inc per sh	*3.00*
1.84	2.19	3.26	2.50	2.35	2.66	2.80	2.02	2.57	2.62	2.53	2.08	1.67	2.06	2.57	2.60	*3.00*	*3.15*	Earnings per sh [A]	*4.75*
.32	.38	.44	.49	.54	.57	.60	.63	.67	.71	.75	.79	.83	.87	.91	.95	*.99*	*1.03*	Div'ds Decl'd per sh [B]■	*1.14*
13.56	15.58	17.48	16.49	19.57	18.87	19.35	18.73	19.29	19.61	18.91	18.74	19.34	18.13	22.18	25.16	*28.35*	*32.20*	Book Value per sh	*44.45*
51.10	48.55	44.31	42.95	42.53	41.93	42.32	42.53	42.98	43.10	43.54	43.95	44.15	44.50	44.87	45.14	*45.00*	*45.00*	Common Shs Outst'g [C]	*45.00*
170%	166%	163%	163%	159%	130%	146%	159%	182%	208%	230%	283%	346%	296%	379%	379%	349%		Price to Book Value	*235%*
12.5	11.8	8.8	10.8	10.8	10.4	11.0	16.9	15.6	17.2	21.1	31.1	34.3	33.4	32.7	33.8	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*22.0*
.67	.64	.47	.65	.72	.66	.69	1.08	.88	.91	1.06	1.63	1.73	1.80	1.74	1.75			Relative P/E Ratio	*1.20*
1.4%	1.5%	1.5%	1.8%	2.1%	2.1%	1.9%	1.8%	1.7%	1.6%	1.4%	1.2%	1.4%	1.3%	1.1%	1.1%			Avg Ann'l Div'd Yield	*1.1%*
538.5	576.6	630.8	687.4	700.2	728.6	737.9	791.3	839.1	865.7	*980*	*1050*	P/C Premiums Earned	*1350*
37.2%	47.1%	41.2%	43.2%	42.7%	48.0%	54.4%	54.1%	49.3%	51.2%	*52.0%*	*53.0%*	Loss to Prem Earned	*53.0%*
41.0%	41.9%	41.9%	41.3%	41.8%	41.5%	42.0%	40.6%	42.7%	40.8%	*40.5%*	*40.0%*	Expense to Prem Writ	*37.0%*
21.8%	11.0%	16.9%	15.6%	15.5%	10.5%	3.6%	5.3%	8.1%	8.0%	*7.5%*	*7.0%*	Underwriting Margin	*10.0%*
27.6%	19.7%	21.4%	20.5%	30.7%	26.5%	8.8%	12.3%	16.9%	35.3%	*15.0%*	*15.0%*	Income Tax Rate	*12.0%*
120.3	87.1	112.2	115.2	112.0	92.9	74.6	92.2	117.4	118.4	*135*	*140*	Net Profit ($mill)	*215*
3.5%	3.3%	2.8%	2.9%	2.7%	2.6%	2.5%	2.8%	2.6%	2.3%	*2.7%*	*3.0%*	Inv Inc/Total Inv	*5.0%*
2695	2645	2740	2776	2737	2778	2947	3105	3546	3938	*4400*	*4900*	Total Assets ($mill)	*6000*
818.9	796.4	829.0	845.1	823.5	823.6	853.6	806.8	995.4	1136.0	*1275*	*1450*	Shr. Equity ($mill)	*2000*
14.7%	10.9%	13.5%	13.6%	13.6%	11.3%	8.7%	11.4%	11.8%	10.4%	*10.5%*	*9.5%*	Return on Shr. Equity	*11.0%*
11.6%	7.6%	10.1%	10.0%	9.7%	7.1%	4.5%	6.6%	7.7%	6.7%	*7.0%*	*6.5%*	Retained to Com Eq	*8.0%*
21%	31%	26%	27%	29%	37%	49%	42%	35%	36%	*33%*	*33%*	All Div'ds to Net Prof	*24%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $149.5 mill. **Due in 5 Years** Nil

(11% of Cap'l)
Leases,Uncapitalized Annual rentals $6.0 million

No Defined Benefit Pension Plan
Pfd Stock None

Common Stock 45,203,438 shs.
as of 4/15/21

MARKET CAP: $4.8 billion (Mid Cap)

FINANCIAL POSITION ($MILL.)	2019	2020	3/31/21
Bonds	1760.5	2196.6	2175.9
Stocks	340.5	524.0	555.2
Other	1004.1	1217.9	1241.3
Total Assets	3105.1	3938.5	3972.4
Unearned Prems	496.5	113.5	590.4
Reserves	1461.3	1750.0	1795.3
Other	340.3	939.0	432.0
Total Liab'ties	2298.2	2802.5	2817.7

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Premium Inc	4.5%	3.5%	*8.5%*
Invest Income	-1.0%	3.5%	*9.0%*
Earnings	-.5%	-1.5%	*12.0%*
Dividends	5.5%	5.0%	*4.0%*
Book Value	2.0%	2.5%	*12.5%*

Calendar	NET PREMIUMS EARNED ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	190.0	196.5	200.8	204.0	791.3
2019	204.7	207.5	211.3	215.6	839.1
2020	215.6	208.7	216.6	224.8	865.7
2021	228.6	*240*	*250*	*261.4*	*980*
2022	*240*	*250*	*270*	*290*	*1050*

Calendar	EARNINGS PER SHARE [A] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.60	.60	.46	.40	2.06
2019	.71	.66	.57	.63	2.57
2020	.66	.77	.42	.75	2.60
2021	.87	*.74*	*.69*	*.70*	*3.00*
2022	*.76*	*.80*	*.74*	*.85*	*3.15*

Calendar	QUARTERLY DIVIDENDS PAID [B]■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.20	.21	.21	.21	.83
2018	.21	.22	.22	.22	.87
2019	.22	.23	.23	.23	.91
2020	.23	.24	.24	.24	.95
2021	.24	.25			

BUSINESS: RLI Corp., through its subsidiaries RLI Insurance and Mt. Hawley, writes multiple lines of insurance on an admitted basis in all 50 states. Also underwrites specialty property and casualty insurance on an admitted basis and excess and surplus business on a non-admitted basis. Underwrites earthquake risks (in California). Other companies in the group include: Replacement Lens, Inc.; License Express Services, Inc. Has 875 employees. State Street owns 10.2% of common stock; BlackRock 10.1%; The Vanguard Group 9.5%; officers & directors, 5.1% (3/21 proxy). President, Chairman, and Chief Executive Officer: Jonathan E. Michael. Inc.: Illinois. Address: 9025 North Lindbergh Drive, Peoria, Illinois 61615. Telephone: 309-692-1000. Internet: www.rlicorp.com.

RLI shot out of the gate to start 2021. On point, operating share net, which excludes capital gains and losses from investments, dialed in at $0.87 during the March interim, which represented a nearly 32% advance from the previous-year period. The primary contributor to the relative outperformance was the combined ratio, which improved more than 5% on a year-over-year basis, to 86.9%. This implies that the company generated $13.10 in pretax income for every $100 in policies underwritten. This positive underwriting performance helped to counteract a 7.6% decrease in net investment income for the period.

We look for the good times to continue over the remainder of 2021 and into next year. Pricing conditions remain very competitive, a trend that should continue going forward. This augurs well for the top line for many P/C insurers, as rate increases help shore up bottom-line results. This positive factor ought to counteract a continued low bond reinvestment-rate environment. Indeed low interest rates have resulted in subpar returns on fixed-income instruments. We feel this trend will probably continue, as the Federal Reserve probably keeps borrowing costs at or near recent lows, at least through the end of this year.

The company's underwriting margin ought to stay in positive territory over the 3 to 5 years ahead, barring an overage in catastrophes. We believe this is a testament to management's strong underwriting standards. Not only does the insurer price its policies well in order to compensate for the risk undertaken, it also pays close attention to terms & conditions. We also look for an increase in net investment income, as bond reinvestment rates ultimately begin to trend higher.

These shares now carry our Highest (1) rank for Timeliness. Hence, they are ranked to outperform the broader market averages in the year ahead. However, these shares have limited total return potential for the 3 to 5 years ahead at the recent valuation. These shares are best suited to conservative investors with a shorter time horizon. Stock Price Stability is well above the *Value Line* median.

Alan G. House *June 4, 2021*

(A) Dil. egs. Excl. nonrecurr. (net): '08, (70¢); '09, (19¢); '10, 35¢; '11, 25¢; 12, 38¢; '13, 66¢; '14, 47¢; '15, 59¢; '16, 48¢; 17, (69¢); '18, (63¢); '19, $1.66; '20, 86¢. Next egs. report due late July. **(B)** Div'ds. paid late March, June, Sept., and Dec. ■ Div'd. reinvest. plan avail. Excl. spec'l div'd.: $3.50/sh. on 12/29/10; $2.50/sh., 12/20/11; $2.50/sh., 12/20/12; $1.50/sh., 12/20/13; $3.00/sh., 12/22/14; $2.00/sh., 12/22/15; $2.00/sh., 12/23/16; $1.75, 12/27/17; $1.00/sh., 12/27/18, 12/20/19 & 12/18/20. **(C)** In mill., adj. for split.

Company's Financial Strength	B++
Stock's Price Stability	90
Price Growth Persistence	75
Earnings Predictability	80

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ROLLINS, INC. NYSE-ROL

RECENT PRICE 37.68 | P/E RATIO NMF (Trailing: NMF Median: 38.0) | RELATIVE P/E RATIO NMF | DIV'D YLD 0.8% | VALUE LINE 400

TIMELINESS 3 Lowered 3/19/21
SAFETY 2 Raised 3/6/09
TECHNICAL 5 Lowered 7/30/21
BETA .85 (1.00 = Market)

18-Month Target Price Range

Low-High	Midpoint (% to Mid)
$28-$62	$45 (20%)

2024-26 PROJECTIONS

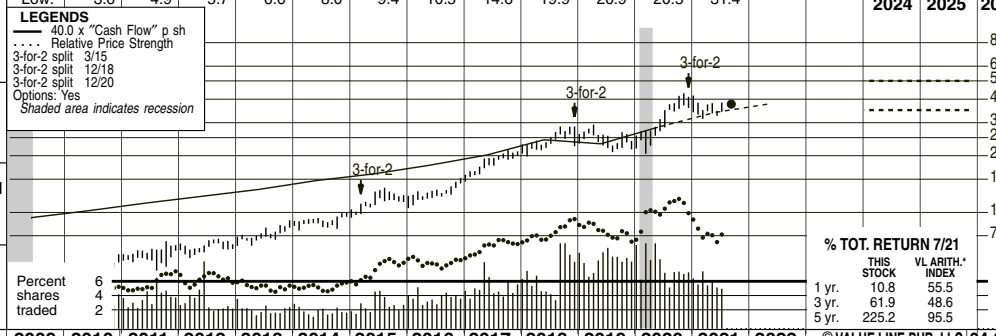
	Price	Gain	Ann'l Total Return
High	50	(+35%)	8%
Low	35	(-5%)	-1%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	230	433	235
to Sell	182	81	241
Hld's(000)	189417	191338	193649

High: 6.0 7.0 7.2 9.1 10.1 13.5 15.2 21.5 28.6 29.3 43.0 41.8
Low: 3.6 4.9 5.7 6.6 8.0 9.4 10.5 14.6 19.9 20.9 20.5 31.4

LEGENDS
40.0 x "Cash Flow" p sh
Relative Price Strength
3-for-2 split 3/15
3-for-2 split 12/18
3-for-2 split 12/20
Options: Yes
Shaded area indicates recession



Target Price Range 2024 2025 2026

% TOT. RETURN 7/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	10.8	55.5
3 yr.	61.9	48.6
5 yr.	225.2	95.5

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
1.55	1.67	1.76	2.02	2.15	2.29	2.44	2.58	2.72	2.87	3.02	3.21	3.41	3.71	4.10	4.40	*4.85*	*5.15*	Revenues per sh	*5.45*
.15	.16	.18	.20	.23	.25	.28	.30	.33	.37	.40	.45	.50	.61	.58	.71	*.85*	*.95*	"Cash Flow" per sh	*1.10*
.10	.11	.13	.14	.16	.18	.20	.23	.25	.28	.31	.34	.39	.47	.41	.53	*.70*	*.75*	Earnings per sh [A]	*.90*
.03	.03	.04	.05	.06	.07	.08	.09	.11	.12	.14	.18	.20	.25	.28	.24	*.32*	*.40*	Div'ds Decl'd per sh [B]■	*.50*
.05	.04	.03	.03	.03	.03	.04	.04	.04	.06	.08	.07	.05	.06	.06	.05	*.05*	*.05*	Cap'l Spending per sh	*.10*
.34	.41	.46	.45	.53	.60	.66	.72	.89	.94	1.06	1.16	1.33	1.45	1.66	1.91	*2.25*	*2.40*	Book Value per sh [C]	*2.65*
516.46	515.55	509.47	506.46	500.70	496.74	493.60	492.80	492.29	491.14	492.19	490.03	490.48	490.96	491.15	491.61	*492.50*	*493.00*	Common Shs Outst'g [D]	*493.50*
25.2	24.8	26.0	24.4	22.1	24.7	29.0	29.1	30.7	32.0	36.9	37.0	47.4	NMF	NMF	NMF	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*48.0*
1.34	1.34	1.38	1.47	1.47	1.57	1.82	1.85	1.72	1.68	1.86	1.94	2.38	NMF	NMF	NMF			Relative P/E Ratio	*2.65*
1.0%	1.2%	1.2%	1.5%	1.6%	1.6%	1.4%	1.4%	1.4%	1.4%	1.2%	1.4%	1.1%	1.0%	1.1%	.8%			Avg Ann'l Div'd Yield	*1.2%*
1205.1	1270.9	1337.4	1411.6	1485.3	1573.4	1674.0	1821.6	2015.5	2161.2	*2380*	*2550*	Revenues ($mill)	*2700*
16.6%	17.0%	17.2%	18.6%	19.2%	19.7%	20.9%	20.7%	19.8%	21.1%	*22.0%*	*22.5%*	Operating Margin	*25.5%*
37.5	38.7	39.6	43.5	44.5	50.9	56.6	66.8	81.1	88.3	*90.0*	*95.0*	Depreciation ($mill)	*100*
100.7	111.3	123.3	137.7	152.1	167.4	190.7	231.7	203.3	260.8	*340*	*370*	Net Profit ($mill)	*445*
37.5%	37.0%	35.6%	37.3%	37.5%	35.8%	35.2%	25.4%	22.1%	26.5%	*25.0%*	*25.0%*	Income Tax Rate	*25.0%*
8.4%	8.8%	9.2%	9.8%	10.2%	10.6%	11.4%	12.7%	10.1%	12.1%	*14.3%*	*14.5%*	Net Profit Margin	*16.5%*
d50.1	d22.4	38.6	31.3	60.9	13.2	d31.8	d13.0	d100.2	d157.7	*d120*	*d75.0*	Working Cap'l ($mill)	*100*
- -	- -	- -	- -	- -	- -	- -	- -	279.0	185.8	*50.0*	*30.0*	Long-Term Debt ($mill)	*Nil*
324.0	354.9	438.3	462.7	524.0	568.5	653.9	711.9	815.8	941.4	*1100*	*1175*	Shr. Equity ($mill)	*1300*
31.1%	31.4%	28.1%	29.8%	29.0%	29.4%	29.2%	32.5%	18.9%	23.4%	*29.5%*	*31.5%*	Return on Total Cap'l	*34.0%*
31.1%	31.4%	28.1%	29.8%	29.0%	29.4%	29.2%	32.5%	24.9%	27.7%	*31.0%*	*31.5%*	Return on Shr. Equity	*34.0%*
18.4%	18.2%	16.1%	16.6%	15.7%	14.1%	13.8%	15.4%	6.1%	10.7%	*16.5%*	*14.5%*	Retained to Com Eq	*15.5%*
41%	42%	43%	44%	46%	52%	53%	53%	76%	62%	*46%*	*53%*	All Div'ds to Net Prof	*55%*

CAPITAL STRUCTURE as of 6/30/21
Total Debt $88.1 mill. **Due in 5 Yrs** $88.1 mill.
LT Debt $69.3 mill. **LT Interest** $2.0 mill. (6% of Cap'l)
Leases, Uncapitalized Annual rentals $72.9 mill.
Pension Assets-12/20 $3.3 mill. **Oblig.** $3.0 mill.
Pfd Stock None
Common Stock 492,079,290 shs.
MARKET CAP: $18.5 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	6/30/21
Cash Assets	94.3	98.5	128.5
Receivables	122.7	126.3	142.9
Inventory	19.5	30.8	30.0
Other	73.3	59.2	74.9
Current Assets	309.8	314.8	376.3
Accts Payable	35.2	64.6	74.8
Debt Due	12.5	17.2	18.8
Other	362.3	390.7	425.1
Current Liab.	410.0	472.5	518.7

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	6.5%	7.0%	*5.0%*
"Cash Flow"	10.5%	11.5%	*9.5%*
Earnings	11.5%	11.0%	*11.5%*
Dividends	16.0%	15.5%	*12.0%*
Book Value	12.5%	11.5%	*8.0%*

Calendar	QUARTERLY REVENUES ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	408.7	480.5	487.8	444.6	1821.6
2019	429.0	524.0	556.5	506.0	2015.5
2020	487.9	553.3	583.7	536.3	2161.2
2021	535.6	638.2	*640*	*566.2*	*2380*
2022	*560*	*660*	*675*	*655*	*2550*

Calendar	EARNINGS PER SHARE [A] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.10	.13	.13	.11	.47
2019	.09	.13	.09	.10	.41
2020	.09	.15	.16	.13	.53
2021	.19	.20	*.18*	*.13*	*.70*
2022	*.20*	*.20*	*.20*	*.15*	*.75*

Calendar	QUARTERLY DIVIDENDS PAID [B]■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.051	.051	.051	.051	.204
2018	.062	.062	.062	.062	.248
2019	.070	.070	.070	.070	.280
2020	.080	.053	.053	.053	.239
2021	.080	.080	.080		

BUSINESS: Rollins, Inc. owns and operates Orkin LLC Exterminating, one of the world's largest pest- and termite-control service providers. Has over 500 locations (including franchises) in the U.S., Canada, Europe, Latin America, the Caribbean, the Middle East, and Asia. Commercial and residential pest contol account for 81% of revenues, and the balance is mainly from the termite business. Acquired HomeTeam Pest Defense, 4/08; Crane Pest Control, 12/08; two acquisitions in Australia in 2014. Has approx. 15,600 employ. Rollins family & other dirs. own 51.5% and less than 1.0%, resp., of stock (3/21 proxy). Chairman & CEO: Gary W. Rollins. Inc.: DE. Address: 2170 Piedmont Rd., N.E., Atlanta, GA 30324. Telephone: 404-888-2000. Internet: www.rollins.com.

Rollins registered strong second-quarter results. The top and bottom lines increased more than 15% and 33% year over year, to about $638 million and $0.20, respectively. The company experienced double-digit revenue growth across residential, commercial, and termite business lines, thanks to improving demand and pricing. Management also divested most of the Clark Pest Control of Stockton properties acquired during 2019.

The residential pest control operations are expected to stay healthy in the near term. This line accounted for over 45% of total revenues and gained about 14% year over year. Rollins enjoyed strong requests from residential customers, as many people worked from home, and scheduling appointments was easy. However, the company will probably experience some softness in the termite business during the winter season.

Rollins' commercial business will likely continue to recover in the coming months. Commercial pest control generates about 33% of total revenues and increased nearly 17% over the year-ago period. This line benefited from COVID-19-related restrictions being eased and several of Rollins' clients returning to operations. We think the demand for its sanitation offering, Vital Clean, will likely pick up as offices reopen in the coming months. This service is expected to remain popular as part of routine cleaning, even in a post-pandemic world. Rollins will probably attract new commercial clients because the government continues to promote growth-friendly economic policies. In all, we have added $0.05 each to our previous 2021 and 2022 share-earnings estimates, bringing our revised share-net calls to $0.70 and $0.75.

Long-term business prospects seem encouraging. Rollins will likely continue with its acquisition activities in the coming months. Also, the company has been investing in technology to optimize routes and save costs. Therefore, management will probably channel these savings into introducing new decontamination services for residential customers.

Good quality shares of Rollins have limited long-term capital appreciation potential.

Emma Jalees *August 20, 2021*

(A) Dil. shs. Excl. nonrec. gains: '05, 1¢; '09, 2¢. 2017 excl. one-time tax impact: 5¢. Egs may not sum due to rdg. and/or change in shs. out. Next egs. rpt. due mid-October.

(B) Div'd paid in mid-March, June, September, and December. Excl. special div'd: $0.08 paid 12/12, $0.06 paid 12/13, $0.07 paid 12/14, $0.10 paid 10/17, $0.14 paid 11/18, $0.05 paid 12/19, & $0.13 paid 12/20 ■ Div'd reinvest. plan available.
(C) Incl. intang. In '20: $765.48 mill., $1.56/sh.
(D) In mill., adj. for stock splits.

Company's Financial Strength	A
Stock's Price Stability	90
Price Growth Persistence	90
Earnings Predictability	85

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SHERWIN-WILLIAMS NYSE-SHW

RECENT PRICE 280.81 | P/E RATIO 29.9 (Trailing: 31.6 Median: 23.0) | RELATIVE P/E RATIO 1.40 | DIV'D YLD 0.8% | VALUE LINE 1142

TIMELINESS 3 Raised 6/11/21
SAFETY 1 Raised 12/18/20
TECHNICAL 3 Raised 6/18/21
BETA .95 (1.00 = Market)

18-Month Target Price Range

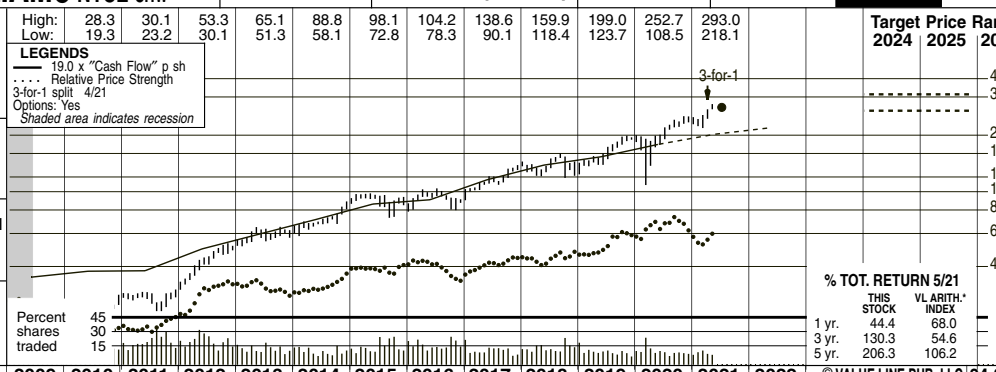
Low-High	Midpoint (% to Mid)
$199-$423	$311 (10%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	330	(+20%)	5%
Low	270	(-5%)	Nil

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	584	614	652
to Sell	428	439	478
Hld's(000)	208866	205578	219567



2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
17.74	19.49	21.73	22.73	21.61	24.22	28.13	30.78	33.91	39.17	40.97	42.49	53.20	62.77	64.76	68.34	*77.10*	*81.95*	Sales per sh	*104.45*
1.50	1.80	2.11	1.83	1.85	1.99	2.00	2.62	3.13	3.75	4.53	4.77	6.09	7.29	8.09	9.41	*10.65*	*11.60*	"Cash Flow" per sh	*14.75*
1.09	1.40	1.57	1.33	1.26	1.40	1.38	2.01	2.42	2.93	3.72	4.00	5.02	6.18	7.04	8.19	*9.40*	*10.30*	Earnings per sh A	*13.00*
.27	.33	.42	.47	.47	.48	.49	.52	.67	.73	.89	1.12	1.13	1.15	1.51	1.79	*2.20*	*2.60*	Div'ds Decl'd per sh B■	*4.00*
.35	.52	.45	.33	.28	.39	.49	.51	.55	.71	.85	.86	.79	.90	1.19	1.13	*1.15*	*1.20*	Cap'l Spending per sh	*1.40*
4.27	4.97	4.85	4.57	4.54	5.01	4.87	5.78	5.91	3.51	3.14	6.73	13.11	13.36	14.92	13.44	*15.25*	*16.65*	Book Value per sh D	*33.35*
405.42	400.70	368.44	351.11	328.31	321.06	311.56	309.81	300.39	284.11	276.74	279.04	281.65	279.35	276.43	268.68	*262.00*	*255.00*	Common Shs Outst'g C	*225.00*
13.6	12.5	13.9	13.7	14.8	17.0	19.8	21.3	24.3	24.1	24.3	23.2	22.8	22.2	23.2	24.9	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*23.0*
.72	.67	.74	.82	.99	1.08	1.24	1.36	1.37	1.27	1.22	1.22	1.15	1.20	1.24	1.27			Relative P/E Ratio	*1.30*
1.8%	1.9%	1.9%	2.6%	2.5%	2.0%	1.8%	1.2%	1.1%	1.0%	1.0%	1.2%	1.0%	.8%	.9%	.9%			Avg Ann'l Div'd Yield	*1.3%*
8765.7	9534.5	10186	11130	11339	11856	14984	17534	17901	18362	*20200*	*20900*	Sales ($mill)	*23500*
11.0%	11.8%	13.1%	13.8%	16.3%	16.5%	16.9%	16.1%	16.9%	18.9%	*18.7%*	*18.9%*	Operating Margin	*18.6%*
180.9	179.2	187.8	198.9	198.6	197.7	285.0	278.2	262.1	268.0	*275*	*285*	Depreciation ($mill)	*330*
441.9	631.0	752.6	865.9	1053.8	1132.7	1430.6	1759.0	1974.0	2260.0	*2510*	*2680*	Net Profit ($mill)	*2985*
40.4%	30.5%	30.7%	31.2%	32.0%	29.0%	29.0%	19.5%	19.0%	20.3%	*20.0%*	*20.0%*	Income Tax Rate	*20.0%*
5.0%	6.6%	7.4%	7.8%	9.3%	9.6%	9.5%	10.0%	11.0%	12.3%	*12.4%*	*12.8%*	Net Profit Margin	*12.7%*
98.9	1272.8	630.1	d113.9	517.0	798.1	478.6	46.7	109.8	d3.0	*100*	*100*	Working Cap'l ($mill)	*150*
639.2	1632.2	1122.4	1122.7	1920.2	1211.3	9885.7	8708.1	8050.7	8266.9	*7865*	*7865*	Long-Term Debt ($mill)	*7865*
1516.9	1791.8	1774.5	996.5	867.9	1878.4	3692.2	3730.7	4123.3	3610.8	*4000*	*4250*	Shr. Equity ($mill)	*7500*
21.3%	19.0%	26.9%	42.2%	38.9%	39.1%	11.5%	15.6%	17.6%	20.5%	*22.5%*	*23.5%*	Return on Total Cap'l	*20.5%*
29.1%	35.2%	42.4%	86.9%	121.4%	60.3%	38.7%	47.1%	47.9%	62.6%	*63.0%*	*63.0%*	Return on Shr. Equity	*40.0%*
19.0%	26.2%	30.9%	65.3%	92.7%	43.7%	30.1%	38.5%	37.7%	49.1%	*48.0%*	*47.5%*	Retained to Com Eq	*28.0%*
35%	26%	27%	25%	24%	28%	22%	18%	21%	22%	*23%*	*25%*	All Div'ds to Net Prof	*30%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $9109.0 mill. **Due in 5 Yrs** $1837 mill.
LT Debt $7862.4 mill. **LT Interest** $275 mill. (72% of Cap'l)

Leases, Uncapitalized Annual rentals $441.3 mill.
Pension Assets-12/20 $462.5 mill **Oblig.** $519.7 mill.

Pfd Stock None

Common Stock 265,949,600 shs.
MARKET CAP: $74.7 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	161.8	226.6	314.7
Receivables	2088.9	2078.1	2414.1
Inventory (LIFO)	1889.6	1804.1	1847.3
Other	491.4	482.6	533.5
Current Assets	4631.7	4591.4	5109.6
Accts Payable	1876.3	2117.8	2217.0
Debt Due	634.5	25.2	1246.6
Other	2011.1	2451.4	2188.0
Current Liab.	4521.9	4594.4	5651.6

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	11.0%	11.5%	*8.0%*
"Cash Flow"	16.0%	17.0%	*10.0%*
Earnings	18.5%	19.0%	*10.5%*
Dividends	12.0%	14.0%	*18.0%*
Book Value	11.5%	27.0%	*15.5%*

Calendar	QUARTERLY SALES ($ mill.) A Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	3965	4774	4731	4064	17534
2019	4041	4878	4868	4114	17901
2020	4147	4604	5122	4489	18362
2021	4656	*5400*	*5525*	*4619*	*20200*
2022	*4815*	*5585*	*5715*	*4785*	*20900*

Calendar	EARNINGS PER SHARE A Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1.19	1.91	1.89	1.18	6.18
2019	1.20	2.19	2.22	1.42	7.04
2020	1.36	2.37	2.76	1.70	8.19
2021	2.06	*2.65*	*2.85*	*1.84*	*9.40*
2022	*2.20*	*2.95*	*3.15*	*2.00*	*10.30*

Calendar	QUARTERLY DIVIDENDS PAID B ■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.283	.283	.283	.283	1.13
2018	.287	.287	.287	.287	1.15
2019	.377	.377	.377	.377	1.51
2020	.447	.447	.447	.447	1.79
2021	.55	.55			

BUSINESS: The Sherwin-Williams Company, North America's largest producer of paints and varnishes, also makes application equipment and automotive coatings. Has over 4,770 retail paint and wallcovering stores, as well as auto-coatings outlets. Paint sold in company stores under the *Sherwin-Williams* label. Also manufactures *Dutch Boy, Pratt & Lambert, Minwax, Martin-Senour, Thompson's WaterSeal, Krylon,* as well as other brands. Acquired Valspar on 6/1/17. Off./dir. own less than 1% of common stock; ESOP, 8.2%; Vanguard, 7.8% (3/21 proxy). Has over 61,000 employees. Chairman, Pres., & CEO: John Morikis. Incorporated: Ohio. Address: 101 West Prospect Avenue, Cleveland, OH 44115-1075. Telephone: 216-566-2000. Internet: www.sherwin-williams.com.

Sherwin-Williams delivered strong results to start 2021. The top line rose 12% from a year earlier, to $4.66 billion, a bit above our $4.50 billion forecast. Comparable-store sales in the United States and Canada were up 8.2%. All of the company's segments performed well, driven by ongoing strong demand for building and renovation projects. High savings rates during the pandemic, government stimulus efforts, low borrowing costs, rising home prices, and spending more time around the house have all prompted consumers to take on home-improvement projects. Demand for architectural paint was robust, while demand in industrial end markets continued to recover. Price increases were also implemented to counter rising raw materials costs. Margins expanded despite these inflationary pressures, as the top-line increase and expense-containment initiatives drove fixed-cost leverage. All told, the bottom line surged 51% from a year earlier, to $2.06 a share (adjusted), nicely ahead of our $1.65 forecast.

The momentum should continue. Cost inflation and the availability of raw materials are issues that management is contending with, but these headwinds should be more than offset by strong demand for the company's products and another round of price increases. The Consumer Brands group isn't tracking as well as initially anticipated, but better-than-expected demand in the Americas and Performance Coatings groups should pick up the slack. All told, leadership raised its full-year 2021 earnings-per-share guidance by roughly $0.37 at the midpoint, to a range of $9.15-$9.45 (adjusted).

Shares of Sherwin-Williams have increased dramatically in price since our last full-page report went to press in March. As a result, the equity now trades within our upwardly revised Target Price Range, discounting a fair amount of the solid earnings growth we envision from this well-run outfit. Near term, the stock is ranked 3 (Average) for Timeliness. It has plenty of attributes prized by conservative investors, though the elevated quotation and modest dividend yield may not be enough of an enticement, even for those who value stability above all else.

Matthew E. Spencer, CFA *June 18, 2021*

(A) Diluted earnings. Excludes nonrecurring/discontinued gains/(losses): '11, (24¢); '12 (16¢); '17, $1.20; '18, ($2.29); '19, ($1.54); '20, (83¢); '21, (55¢). May not sum to total due to rounding. Next earnings report due late July.
(B) Dividends historically paid in early March, June, September, and December.
■ Dividend reinvestment plan available.
(C) In millions, adjusted for stock split.
(D) Incl. intangibles. At 12/31/20: $11,520.3 mill., $42.88/sh.

Company's Financial Strength	A+
Stock's Price Stability	90
Price Growth Persistence	100
Earnings Predictability	100

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RECENT PRICE 77.26 | P/E RATIO 14.6 (Trailing: 15.5 Median: 15.0) | RELATIVE P/E RATIO 0.68 | DIV'D YLD 1.3% | VALUE LINE

TIMELINESS 2 Raised 11/20/20
SAFETY 3 New 7/27/90
TECHNICAL 3 Lowered 3/19/21
BETA .90 (1.00 = Market)

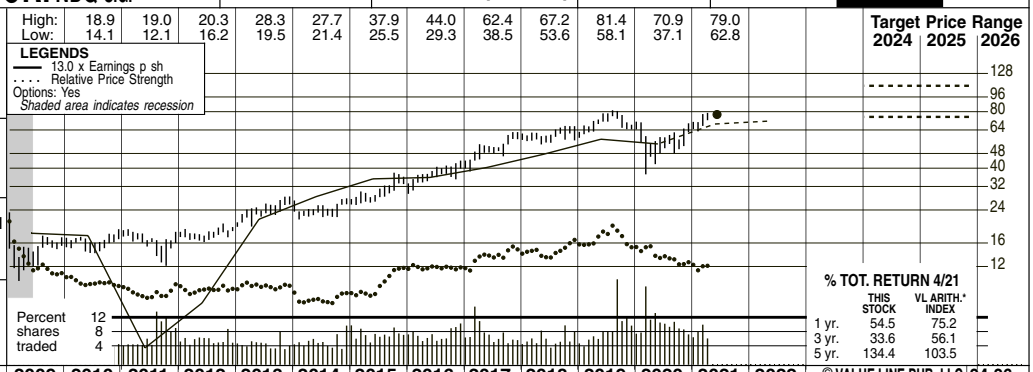
18-Month Target Price Range
Low-High Midpoint (% to Mid)
$56-$119 $88 (15%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	110	(+40%)	11%
Low	75	(-5%)	1%

Institutional Decisions

	2Q2020	3Q2020	4Q2020
to Buy	114	91	103
to Sell	118	114	113
Hld's(000)	48105	47307	47460



2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
24.94	26.18	27.94	28.28	26.88	26.39	26.45	28.72	31.04	33.93	34.69	37.57	39.17	41.33	43.68	44.77	49.35	51.65	P/C Prem Earned per sh	53.85
2.39	2.74	3.21	2.48	2.23	2.71	2.71	2.39	2.41	2.54	2.12	2.29	2.77	3.31	3.74	3.79	4.65	4.75	Investment Inc per sh	5.15
1.21	.97	.25	d.26	d.04	d.44	d1.94	d1.14	.61	1.29	2.64	2.74	2.72	2.19	2.84	1.98	3.50	4.00	Underwriting Inc per sh	4.75
2.24	2.30	2.22	1.43	1.39	1.35	.34	.59	1.65	2.17	2.70	2.75	3.11	3.66	4.40	4.15	5.30	5.50	Earnings per sh A	7.00
.40	.44	.49	.52	.52	.52	.52	.52	.52	.53	.57	.61	.66	.74	.83	.94	1.03	1.14	Div'ds Decl'd per sh B■	1.48
17.26	18.81	19.81	16.84	18.83	19.96	20.39	19.77	20.63	23.36	24.37	26.77	29.28	30.40	36.91	42.38	48.35	52.50	Book Value per sh	58.45
56.86	57.27	54.31	52.88	53.24	53.68	54.41	55.16	55.92	54.59	57.36	57.21	58.50	58.95	59.46	59.91	60.00	60.00	Common Shs Outst'g C	65.00
142%	144%	122%	133%	80%	81%	80%	91%	117%	103%	124%	141%	172%	198%	190%	134%			Price to Book Value	156%
10.9	11.8	10.9	15.7	10.8	12.0	48.1	30.5	14.6	11.1	11.2	13.5	16.2	16.4	15.9	13.7			Avg Ann'l P/E Ratio	13.0
.58	.64	.58	.94	.72	.76	3.02	1.94	.82	.58	.56	.71	.81	.89	.85	.71			Relative P/E Ratio	.70
1.6%	1.6%	2.0%	2.3%	3.5%	3.2%	3.2%	2.9%	2.2%	2.2%	1.9%	1.6%	1.3%	1.2%	1.2%	1.7%			Avg Ann'l Div'd Yield	1.6%
1439.3	1584.1	1736.1	1852.6	1989.9	2149.6	2291.0	2436.2	2597.2	2681.8	2960	3100	P/C Premiums Earned	3500
74.7%	70.8%	64.6%	62.5%	57.7%	57.4%	58.7%	61.5%	59.7%	61.0%	59.5%	59.0%	Loss to Prem Earned	58.0%
32.6%	33.2%	33.4%	33.7%	34.7%	35.5%	34.4%	33.2%	13.1%	13.7%	13.0%	13.0%	Expense to Prem Writ	13.0%
-7.3%	-4.0%	2.0%	3.8%	7.6%	7.0%	6.9%	5.3%	27.1%	25.3%	27.5%	28.0%	Underwriting Margin	29.0%
--	--	29.6%	27.0%	28.4%	28.1%	27.7%	18.0%	18.9%	18.7%	19.0%	19.0%	Income Tax Rate	19.0%
19.1	32.1	86.7	124.5	157.1	161.7	184.9	218.6	264.4	249.7	320	330	Net Profit ($mill)	455
3.8%	3.2%	3.1%	3.0%	2.5%	2.5%	2.9%	3.5%	3.5%	3.2%	3.6%	3.7%	Inv Inc/Total Inv	3.8%
5736	6794	6270	6582	6904	7356	7686	7953	8797	9688	10500	11500	Total Assets ($mill)	14000
1109.2	1090.6	1153.9	1275.6	1398.0	1531.4	1713.0	1791.8	2194.9	2738.9	2900	3150	Shr. Equity ($mill)	3800
1.7%	2.9%	7.5%	9.8%	11.2%	10.6%	10.8%	12.2%	12.0%	9.1%	11.0%	10.5%	Return on Shr. Equity	12.0%
NMF	.5%	5.1%	7.5%	9.0%	8.4%	8.6%	9.8%	9.9%	7.7%	9.0%	8.5%	Retained to Com Eq	9.5%
NMF	84%	32%	23%	20%	21%	20%	19%	18%	22%	19%	21%	All Div'ds to Net Prof	21%

Bold figures are Value Line estimates

CAPITAL STRUCTURE as of 3/31/21
Total Debt $550.9 mill. **Due in 5 Yrs** $550.9 mill.
LT Debt $550.9 mill. **LT Interest** $32.0 mill.
(17% of Cap'l)
Leases, Uncapitalized $8.4 million.
Pension Assets-12/20 $433 mill. **Oblig.** $425 mill.

Pfd Stock None
Common Stock 60,024,254 shs.
as of 4/16/21
MARKET CAP: $4.6 billion (Mid Cap)

FINANCIAL POSITION ($MILL.)	2019	2020	3/31/21
Bonds	6116.4	6472.7	6546.0
Stocks	72.9	310.4	324.3
Mortgages	- -	- -	- -
Other	2607.9	2904.8	2978.3
Total Assets	8797.2	9687.9	9848.6
Unearned Prems	1523.2	1618.3	1689.5
Reserves	4067.2	4260.4	4360.2
Other	1011.8	1070.3	1054.9
Total Liab.	6602.2	6949.0	7104.6

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Premium Inc	5.0%	5.5%	3.5%
Invest Income	4.0%	9.0%	6.0%
Earnings	11.5%	13.5%	9.5%
Dividends	5.0%	9.0%	10.0%
Book Value	7.0%	10.0%	8.0%

Calendar	NET PREM. EARNED ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	591.8	604.8	614.3	625.3	2436.2
2019	632.6	642.6	653.6	668.4	2597.2
2020	651.7	630.7	694.5	704.9	2681.8
2021	725.0	740	745	750	2960
2022	760	775	780	785	3100

Calendar	EARNINGS PER SHARE A Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.46	1.01	.99	1.20	3.66
2019	.90	1.16	.97	1.37	4.40
2020	.84	.40	1.06	1.84	4.15
2021	1.70	1.20	1.05	1.35	5.30
2022	1.75	1.25	1.10	1.40	5.50

Calendar	QUARTERLY DIVIDENDS PAID B■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.16	.16	.16	.18	.66
2018	.18	.18	.18	.20	.74
2019	.20	.20	.20	.23	.83
2020	.23	.23	.23	.25	.94
2021	.25	.25			

BUSINESS: Selective Insurance Group, Inc. is a holding company for five property/casualty insurance companies. (Main subsidiary: Selective Insurance Company of America.) Markets products primarily in the East and Midwest. New Jersey accounted for 18% of premiums written in '20. Mix of 2020 premiums written: personal lines, 20%; commercial lines, 80%. Commercial premiums by industry (as percentage of total): automobile, 26%; general liability, 32%; workers' compensation, 17%; other, 25%. Has about 2,400 employees. Officers/directors own 2.0% of common stock; BlackRock, 11.2% (4/21 Proxy). Chairman, Pres. & CEO: John J. Marchioni. Inc.: NJ Address: 40 Wantage Ave., Branchville, NJ 07890. Telephone: 973-948-3000. Internet: www.selective.com.

Selective Insurance Group has been running like a well-oiled machine thus far in 2021. Despite a difficult combination of low interest rates, elevated industrywide catastrophe losses, and uneven economic conditions, solid premium growth and stringent underwriting standards have bolstered the top and bottom lines here. The company's results have been further aided by renewal price increases in the mid-single-digit range and elevated retention levels. Also, it's important to note that claim frequencies remain below pre-COVID rates, allowing for a reduced combined ratio and greater underwriting income. That said, leadership remains rather cautious in terms of future loss trends, meaning it may opt to further fuel reserves in case of a near-term spike in loss activity. For our part, we have chosen to raise our 2021 share-net outlook by $0.85, to $5.30, highlighting the company's stronger operating fundamentals.

This P&C insurance provider should notch another high-water mark on the bottom line next year, as well. We feel a return to more-normalized weather-related loss trends ought to pave the way for a minor downtick in the combined ratio (yielding better underwriting profits). Though a persistently sluggish interest-rate landscape will likely hinder a more-meaningful advance for investment income moving forward. In terms of policy pricing, it stands to reason that earlier elevated loss statistics will probably provide insurers with greater leverage during policy renewal season, yielding higher rates. Meanwhile, Selective's enhanced underwriting software ought to help it shed unwanted risk exposure and capitalize on possible coverage shortfalls. Our 2022 EPS target has risen by $0.65, to $5.50.

This equity maintains a Timeliness rank of 2 (Above Average). We do, however, believe that a bulk of the good news here has already been baked into the stock's recent quotation, as its 3- to 5-year capital appreciation potential is rather limited at this juncture. Moreover, SIGI's dividend yield fails to stand out from the crowd. Lastly, these shares appear adequately valued on a price-to-earnings basis, indicating that those searching for a bargain will want to hold off, for now.

Kenneth J. DeFranco, Jr. *June 4, 2021*

(A) Diluted egs. Excludes cap'l gains/losses beginning in 2005: '05, 9¢. Excl. loss from discontinued ops.: '08, 1¢; '09, 15¢; '10, 7¢; '11, 1¢. EPS may not sum due to rounding. Next earnings report due early August. **(B)** Dividends historically paid in early March, June, September, December. ■ Div'd reinvestment plan available. **(C)** In mill., adj. for stock split.

Company's Financial Strength	B+
Stock's Price Stability	85
Price Growth Persistence	90
Earnings Predictability	75

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SIRIUS XM HOLDINGS NDQ-SIRI

RECENT PRICE 6.34 | P/E RATIO 21.1 (Trailing:NMF Median: 36.0) | RELATIVE P/E RATIO 1.11 | DIV'D YLD 0.9% | VALUE LINE

TIMELINESS 3 Lowered 12/25/20
SAFETY 3 Raised 1/29/21
TECHNICAL 3 Raised 7/30/21
BETA .95 (1.00 = Market)

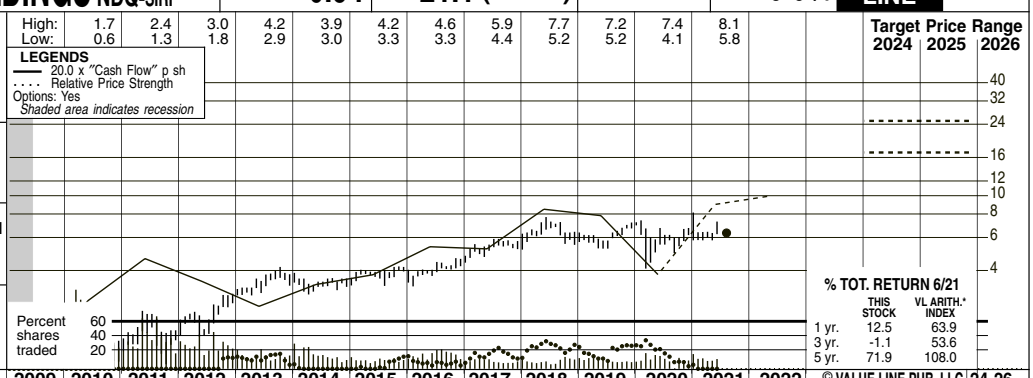
18-Month Target Price Range
Low-High Midpoint (% to Mid)
$5-$11 $8 (25%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	25	(+295%)	*41%*
Low	17	(+170%)	*29%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	257	284	236
to Sell	277	247	329
Hld's(000)	668021	626377	573524



2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
.18	.44	.63	.46	.64	.72	.80	.65	.62	.74	.89	1.06	1.20	1.33	1.77	1.93	*2.10*	*2.20*	Revenues per sh	*2.55*
d.56	d.70	d.31	d.09	.04	.11	.19	.14	.10	.13	.15	.21	.21	.34	.31	.15	*.45*	*.50*	"Cash Flow" per sh	*1.00*
d.65	d.79	d.39	d.25	d.10	.03	.07	.07	.06	.08	.09	.15	.14	.26	.20	.03	*.30*	*.35*	Earnings per sh A	*.85*
--	--	--	--	--	--	--	--	--	--	--	.01	.04	.05	.05	.06	*.06*	*.08*	Div'ds Decl'd per sh D	*.15*
.04	.07	.04	.04	.06	.08	.04	.02	.03	.02	.03	.04	.06	.08	.08	.08	*.10*	*.10*	Cap'l Spending per sh	*.10*
.24	d.27	d.54	d.01	.00	.05	.19	.77	.45	.23	d.03	d.17	d.34	d.42	d.17	d.55	*d.65*	*d.30*	Book Value per sh B	*.55*
1346.2	1434.6	1471.1	3651.7	3882.7	3933.2	3753.2	5262.4	6096.2	5638.7	5147.6	4740.9	4527.7	4345.6	4412.0	4173.0	*4000.0*	*3900.0*	Common Shs Outst'g C	*3800.0*
--	--	--	--	--	35.9	26.4	33.4	58.0	42.9	43.0	27.0	37.5	24.7	30.7	NMF	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*25.0*
--	--	--	--	--	2.28	1.66	2.13	3.26	2.26	2.17	1.42	1.89	1.33	1.64	NMF			Relative P/E Ratio	*1.40*
--	--	--	--	--	--	--	--	--	--	--	.2%	.8%	.7%	.8%	.9%			Avg Ann'l Div'd Yield	*.7%*
3014.5	3402.0	3799.1	4181.1	4570.1	5017.2	5425.1	5770.7	7794.0	8040.0	*8350*	*8600*	Revenues ($mill)	*9675*
31.3%	33.5%	42.6%	45.0%	31.7%	33.9%	35.7%	35.1%	27.1%	17.0%	*30.0%*	*32.0%*	Operating Margin	*50.0%*
267.9	266.3	253.3	266.4	272.2	269.0	298.6	300.7	468.0	506.0	*515*	*525*	Depreciation ($mill)	*600*
427.0	470.9	377.2	493.2	509.7	745.9	647.9	1175.9	914.0	131.0	*1250*	*1400*	Net Profit ($mill)	*3230*
3.2%	.8%	40.8%	40.6%	42.9%	31.7%	48.8%	17.2%	23.6%	69.5%	*30.0%*	*22.0%*	Income Tax Rate	*22.0%*
14.2%	13.8%	9.9%	11.8%	11.2%	14.9%	11.9%	20.4%	11.7%	1.6%	*15.0%*	*16.3%*	Net Profit Margin	*33.4%*
d970.6	d486.4	d1320	d764.0	d1935	d2026	d2351	d2325	d2290	d2200	*d2820*	*d2550*	Working Cap'l ($mill)	*d850*
3012.4	2431.0	3093.8	4493.9	5443.6	5842.8	6741.2	6884.5	7842.0	8499.0	*8800*	*8500*	Long-Term Debt ($mill)	*8000*
704.1	4039.6	2745.7	1309.8	d166.5	d792.0	d1524	d1817	d736.0	d2285	*d2625*	*d1200*	Shr. Equity ($mill)	*2000*
15.6%	8.0%	8.2%	10.8%	12.5%	18.0%	15.7%	26.7%	15.6%	5.3%	*16.0%*	*19.0%*	Return on Total Cap'l	*32.5%*
60.6%	11.7%	13.7%	37.7%	--	--	--	--	37.7%	--	*NMF*	*NMF*	Return on Shr. Equity	*NMF*
60.6%	11.7%	13.7%	37.7%	--	--	--	--	37.7%	--	*NMF*	*NMF*	Retained to Com Eq	*NMF*
--	--	--	--	--	6%	29%	17%	25%	NMF	*19%*	*22%*	All Div'ds to Net Prof	*18%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $8,879 mill. **Due in 5 Yrs** $3,350 mill.
LT Debt $8,878 mill. **LT Interest** $360.0 mill.
(Tot. Interest Covered: 2.1x)
(NMF of Total Cap'l)
Leases, Uncapitalized Annual rentals $71.0 mill.

No Defined Benefit Pension Plan

Pfd Stock None
Common Stock 4,139,978,947 shares
as of 1/29/21

MARKET CAP: $26.2 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	106	71	59
Receivables	670	559	611
Inventory (FIFO)	11	10	8
Other	216	327	227
Current Assets	1003	967	905
Accts Payable	1151	1223	1057
Debt Due	2	1	1
Other	2140	1943	1792
Current Liab.	3293	3167	2850

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	10.5%	17.5%	*7.5%*
"Cash Flow"	31.5%	15.5%	*24.5%*
Earnings	--	16.5%	*31.5%*
Dividends	--	--	*20.0%*
Book Value	--	--	*NMF*

Calendar	QUARTERLY REVENUES ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1375.1	1432.3	1467.4	1495.9	5770.7
2019	1744.0	1977.0	2011.0	2062.0	7794.0
2020	1952.0	1874.0	2025.0	2189	8040
2021	2058	*2025*	*2050*	*2217*	*8350*
2022	*2100*	*2120*	*2150*	*2230*	*8600*

Calendar	EARNINGS PER SHARE A Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.06	.06	.07	.06	.26
2019	.03	.06	.05	.05	.20
2020	.07	.05	.06	d.16	.03
2021	.07	*.06*	*.07*	*.10*	*.30*
2022	*.10*	*.06*	*.07*	*.12*	*.35*

Calendar	QUARTERLY DIVIDENDS PAID D Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.01	.01	.01	.011	.041
2018	.011	.011	.011	.012	.045
2019	.012	.012	.012	.013	.049
2020	.013	.013	.015	.015	.056
2021	.015	.015			

BUSINESS: Sirius XM Holdings, Inc. broadcasts a wide variety of programming (music, sports, talk, news, comedy, etc.) in the U.S. through two audio entertainment systems: SiriusXM and Pandora. As of 12/31/20, SiriusXM (and 360L) had about 34.7 million subscribers and Pandora had 6.3 mill. subscribers. It offers programming through satellite radio, streaming media through mobile, web, and connected devices. Revenues are supported by subscriptions and ad revenues. It has 5,726 employees. Officers/directors own less than 1% of stock, Liberty Media Corp., 77.0% (4/21 proxy). Inc.: DE. Chairman: Gregory B. Maffei. CEO: Jennifer Witz. Address: 1221 Avenue of the Americas, 35th Floor New York, NY 10020. Tel.: 212-584-5100. Internet: www.siriusxm.com.

Sirius XM Holdings ought to post solid gains this year. The satellite radio company got off to a relatively good start in the March period. Sirius Self-Pay Net Subscriber Additions increased 83% year over year during the interim. The company has benefited from the reopening of the economy, better monetization of its content, and the rebounding ad market. In fact, ad revenues recovered 24% during the March period, and total sales were up 5%. Profits slipped slightly from the year-ago period, to a nickel a share. (Note: Excluding impairments related to the failure of the company's SXM-7 satellite, the surrender of office space, and a benefit from a tax audit settlement, the bottom line held steady at $0.07 a share.) Looking ahead, share net should bounce back nicely this year. Contributions from recent acquisitions, and subscriber growth ought to help sales climb between 3% and 5% for 2021.

Next year should shape up nicely, as well. The top line will probably advance 3% in 2022. Too, Sirius has been using a lot of its cash to lower its stock count, which ought to boost per-share comparisons moving forward. Therefore, we look for share profits to expand between 10% and 15%, next year.

The company is bolstering its operations. In May, it launched a consolidated advertising sales organization named SXM Media. We imagine the segment will better leverage its audio ad technology platforms AdsWizz and SimpleCast, with podcast ad network Midroll, and will better serve the SiriusXM, Pandora, Stitcher, and SoundCloud platforms. What's more, recent acquisitions have been accretive to its results, and strategic partnerships should pay off moving forward. Too, Sirius will probably invest heavily in its content and technological improvements.

Debt maturities have been pushed out. In June, the company issued $2.0 billion 4.0% senior notes due 2028. It plans to use the bulk of the proceeds to redeem borrowings coming due soon, namely the 3.875% notes due in 2022.

These shares offer robust capital appreciation potential over the coming 3 to 5 years. For now, however, SIRI is ranked to perform in line with the broader market averages.

Orly Seidman *July 30, 2021*

(A) Fully diluted earnings. Excludes nonrecurring gains/(losses): '15, $0.01, '12, $0.44; '10, ($0.02); '09, ($0.05); '08, ($2.20); '05, ($0.03). Next earnings report due early Aug.
(B) Includes intangibles. In 2020, $6.462 billion, or $1.55 per share.
(C) In millions.
(D) Excl. special dividend of $0.05, paid 12/28/12. Quarterly dividend instituted on 11/1/16 and historically paid in late February, May, August, and November.

Company's Financial Strength	C++
Stock's Price Stability	85
Price Growth Persistence	85
Earnings Predictability	45

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SYNOPSYS, INC. NDQ-SNPS

RECENT PRICE 283.89 | P/E RATIO 42.2 (Trailing: 43.4 Median: 18.0) | RELATIVE P/E RATIO 2.18 | DIV'D YLD Nil | VALUE LINE

TIMELINESS 3 Lowered 6/11/21
SAFETY 1 Raised 8/17/12
TECHNICAL 4 Lowered 6/25/21
BETA .95 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$193-$422 $308 (10%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	320	(+15%)	3%
Low	265	(-5%)	-1%

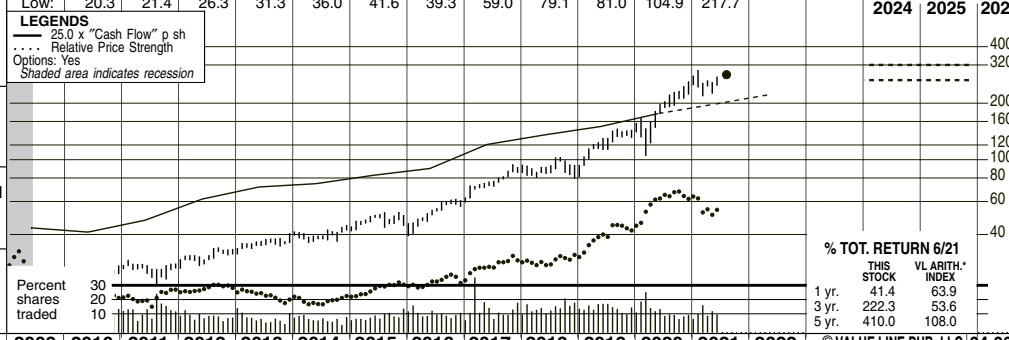
Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	300	347	347
to Sell	283	295	330
Hld's(000)	133715	132638	132308

	27.4	29.3	34.2	40.8	45.0	52.8	62.0	94.8	103.4	146.7	261.1	300.9
High:												
Low:	20.3	21.4	26.3	31.3	36.0	41.6	39.3	59.0	79.1	81.0	104.9	217.7

LEGENDS
25.0 x "Cash Flow" p sh
Relative Price Strength
Options: Yes
Shaded area indicates recession

Target Price Range 2024 2025 2026



% TOT. RETURN 6/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	41.4	63.9
3 yr.	222.3	53.6
5 yr.	410.0	108.0

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
6.80	7.79	8.28	9.43	9.26	9.30	10.72	11.64	12.73	13.19	14.43	16.00	18.11	20.91	22.36	24.15	*26.85*	*29.45*	Sales per sh [A]	*37.00*
.80	.97	1.44	1.78	1.74	1.65	1.91	2.47	2.86	2.99	3.31	3.59	4.82	5.42	6.01	7.04	*7.90*	*8.95*	"Cash Flow" per sh	*11.45*
.39	.54	1.04	1.35	1.37	1.26	1.42	2.10	2.45	2.53	2.77	3.02	3.42	3.91	4.56	5.55	*6.50*	*7.45*	Earnings per sh [A B]	*9.75*
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*Nil*	*Nil*	Div'ds Decl'd per sh	*.80*
.30	.34	.31	.27	.27	.26	.40	.34	.42	.66	.56	.44	.47	.66	1.32	1.01	*.70*	*1.05*	Cap'l Spending per sh	*1.40*
8.35	8.27	9.81	10.78	12.55	14.14	14.66	16.58	18.09	19.60	20.16	21.10	21.77	23.31	27.16	32.15	*33.55*	*35.05*	Book Value per sh [D]	*39.85*
145.90	140.57	146.37	141.79	146.95	148.48	143.31	150.90	154.17	155.97	155.44	151.45	150.45	149.27	150.33	152.62	*152.00*	*151.00*	Common Shs Outst'g [C]	*148.00*
46.0	37.7	25.3	17.1	14.4	17.9	18.4	14.2	14.3	15.4	16.8	16.8	21.3	23.0	25.1	30.5	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*30.0*
2.45	2.04	1.34	1.03	.96	1.14	1.15	.90	.80	.81	.85	.88	1.07	1.24	1.34	1.58			Relative P/E Ratio	*1.65*
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			Avg Ann'l Div'd Yield	*.3%*
1535.6	1756.0	1962.2	2057.5	2242.2	2422.5	2724.9	3121.1	3360.7	3685.3	*4080*	*4450*	Sales ($mill) [A]	*5475*
22.2%	23.8%	25.6%	25.3%	26.3%	26.1%	26.3%	28.9%	30.3%	33.2%	*34.0%*	*35.5%*	Operating Margin	*36.5%*
59.1	57.0	59.9	66.7	75.8	77.4	189.4	209.2	201.7	210.0	*210*	*220*	Depreciation ($mill)	*250*
213.9	315.5	381.4	398.9	438.4	466.8	536.1	600.0	702.5	864.6	*990*	*1130*	Net Profit ($mill)	*1445*
26.2%	24.4%	20.7%	14.5%	17.2%	19.0%	19.0%	13.0%	16.0%	16.0%	*16.0%*	*16.0%*	Income Tax Rate	*16.0%*
13.9%	18.0%	19.4%	19.4%	19.6%	19.3%	19.7%	19.2%	20.9%	23.5%	*24.3%*	*25.4%*	Net Profit Margin	*26.4%*
329.3	d111.9	225.1	117.9	d14.6	1.9	68.5	d558.6	d13.6	409.3	*375*	*435*	Working Cap'l ($mill)	*660*
--	105.0	75.0	45.0	--	--	134.1	125.5	120.1	100.8	*50.0*	*100*	Long-Term Debt ($mill)	*150*
2101.3	2501.7	2788.3	3056.2	3134.0	3195.1	3275.6	3479.2	4083.0	4907.4	*5100*	*5290*	Shr. Equity ($mill) [D]	*5900*
10.2%	12.1%	13.4%	12.9%	14.0%	14.6%	15.8%	16.7%	16.8%	17.3%	*19.0%*	*21.0%*	Return on Total Cap'l	*24.0%*
10.2%	12.6%	13.7%	13.1%	14.0%	14.6%	16.4%	17.2%	17.2%	17.6%	*19.5%*	*21.5%*	Return on Shr. Equity	*24.5%*
10.2%	12.6%	13.7%	13.1%	14.0%	14.6%	16.4%	17.2%	17.2%	17.6%	*19.5%*	*21.5%*	Retained to Com Eq	*22.5%*
--	--	--	--	--	--	--	--	--	--	*Nil*	*Nil*	All Div'ds to Net Prof	*8%*

CAPITAL STRUCTURE as of 4/30/21
Total Debt $115.5 mill. **Due in 5 Yrs** $100.0 mill.
LT Debt $25.6 mill. **LT Interest** .7 mill. (1% of Cap'l)

Leases, Uncapitalized Annual rentals $52.4 mill.
No Defined Benefit Pension Plan

Common Stock 152,554,000 shs.

MARKET CAP: $43.3 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	4/30/21
Cash Assets	728.6	1235.7	1457.9
Receivables	553.9	780.7	612.3
Inventory (Avg Cst)	--	--	--
Other	456.4	532.8	619.6
Current Assets	1738.9	2549.2	2689.8
Accts Payable	506.5	623.7	480.8
Debt Due	17.6	27.1	89.9
Other	1228.4	1489.1	1685.0
Current Liab.	1752.5	2139.9	2255.7

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	9.0%	11.0%	*8.5%*
"Cash Flow"	13.5%	15.0%	*11.0%*
Earnings	13.5%	12.5%	*13.0%*
Dividends	--	--	*Nil*
Book Value	8.0%	7.5%	*6.5%*

Fiscal Year Ends	QUARTERLY SALES ($mill.) [A] Jan.Per	Apr.Per	July Per	Oct.Per	Full Fiscal Year
2018	769.4	776.9	779.7	795.1	3121.1
2019	820.4	836.2	853.0	851.1	3360.7
2020	834.4	861.3	964.1	1025.5	3685.3
2021	970.3	1024.3	*1050*	*1035.4*	*4080*
2022	*1050*	*1105*	*1125*	*1170*	*4450*

Fiscal Year Ends	EARNINGS PER SHARE [A B] Jan.Per	Apr.Per	July Per	Oct.Per	Full Fiscal Year
2018	1.10	1.08	.95	.78	3.91
2019	1.08	1.16	1.18	1.15	4.56
2020	1.01	1.22	1.74	1.58	5.55
2021	1.52	1.70	*1.80*	*1.48*	*6.50*
2022	*1.75*	*1.85*	*1.90*	*1.95*	*7.45*

Calendar	QUARTERLY DIVIDENDS PAID Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017					
2018	NO CASH DIVIDENDS BEING PAID				
2019					
2020					
2021					

BUSINESS: Synopsys, Inc. provides software, intellectual property (IP), and services used to design integrated circuits (ICs) and electronic systems. It supplies the electronic design automation (EDA) software that engineers use to design and test ICs, aka chips. IP products are pre-designed circuits used as components of larger chip designs. Also provides software and hardware used to develop electronic systems, and technical support. 2020 Backlog, $4.3 bill.; foreign sales, 52%. Employs 15,036. Officers and directors own 1.6% of common stock; Vanguard Group, 11.1%; BlackRock, 8.3% (2/21 Proxy). Chmn./co-CEO: Aart De Geus; co-CEO: Chi-Foon Chan. Inc.: DE. Addr.: 690 E. Middlefield Road, Mountain View, CA 94043. Telephone: 650-584-5000. Internet: www.synopsys.com.

Synopsys is firing on all cylinders. The Mountain View, California-based provider of chip design software continues to benefit from strong global demand for semiconductors. The company's tools have become a must-have for chipmakers that want to create the most advanced circuit boards, typically those used in smartphones, data centers, and increasingly the automotive industry. During the first six months of fiscal 2021 (years end in October), share net and revenue increased 44% and 18%, respectively, as customers flooded Synopsys with orders for IP products and electronic design tools. The level of demand also appears to be sustainable—and not just pandemic-related—thanks to what we view as a permanent shift in the use of microprocessors in everything from computers and smartphones to home appliances and wearable health monitors.

The company hiked its guidance for fiscal 2021. Revenue is now expected to be between $4.035 billion and $4.085 billion, up from $4.000 billion-$4.050 billion previously. The revised outlook represents year-over-year growth of 9%-11%. Synopsys also boosted its EPS forecast range to $6.38-$6.45 (previously $6.23-$6.30) and its operating cash flow estimate to $1.275 billion (previously $1.25 billion).

Leadership has remained active on the acquisition front. During the last three months, Synopsys completed two deals. In May, it purchased MorethanIP for an undisclosed sum, bolstering its presence in the high-speed Ethernet solutions market. Then in June, the company announced it was acquiring Code Dx, a provider of software tools that automate and accelerate the discovery of product vulnerabilities. Both transactions fit with management's style of doing smaller, bolt-on deals that can augment a particular field Synospsys views as promising. Since 2015, the company has inked nearly 30 agreements, the largest being a $550 million transaction for Black Duck Software.

These shares are ranked 3 (Average) for year-ahead relative price performance, having slipped a couple of notches on our Timeliness scale since May. Long-term investors won't find much to like here either, as the equity currently offers lackluster 3- to 5-year appeal.

Daniel Henigson, CFA *August 6, 2021*

(A) Fiscal year ends October 31st. **(B)** Diluted earnings exclude nonrecurring gains/(losses): '05, (50¢); '06, (37¢); '07, (17¢); '08, (6¢); '09, (22¢); '10, 30¢; '11, 5¢; '12, (89¢); '13, (86¢); '14, (89¢); '15, (39¢); '16, (d25¢); '17, ($2.54); '18, ($1.09); '19, ($1.11); '20, ($1.28). Qlty. figures may not sum due to rounding. Next earnings report due mid-August. **(C)** In millions. **(D)** Includes intangibles. In 2020: $3,619.4 mill, or $23.72/sh.

Company's Financial Strength	A+
Stock's Price Stability	85
Price Growth Persistence	90
Earnings Predictability	100

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TEXAS INSTR. NDQ-TXN

RECENT PRICE 190.26 | P/E RATIO 25.5 (Trailing: 28.8 Median: 19.0) | RELATIVE P/E RATIO 1.21 | DIV'D YLD 2.1% | VALUE LINE

TIMELINESS 3 Lowered 12/4/20
SAFETY 1 Raised 7/8/11
TECHNICAL 3 Lowered 6/11/21
BETA .85 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$145-$285 $215 (15%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	190	(Nil)	2%
Low	155	(-20%)	-2%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	797	936	896
to Sell	692	660	772
Hld's(000)	765929	765539	768276

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
8.37	9.83	10.30	9.78	8.41	11.96	12.05	11.33	11.12	12.25	12.86	13.42	15.22	16.70	15.43	15.73	*18.80*	*19.70*	Sales per sh	*22.80*
2.25	2.54	2.73	2.43	1.89	3.51	2.76	2.40	2.60	3.45	3.71	4.22	5.06	6.53	6.14	6.88	*8.50*	*8.85*	"Cash Flow" per sh	*10.35*
1.34	1.69	1.83	1.57	1.15	2.62	1.88	1.51	1.75	2.57	2.82	3.48	4.35	5.59	5.24	5.97	*7.45*	*7.75*	Earnings per sh [B]	*9.05*
.11	.13	.30	.40	.45	.49	.56	.72	1.07	1.24	1.40	1.64	2.12	2.63	3.21	3.72	*4.08*	*4.08*	Div'ds Decl'd per sh [C]	*4.08*
.83	.88	.51	.60	.61	1.03	.72	.44	.38	.36	.54	.53	.71	1.20	.91	.71	*.55*	*.55*	Cap'l Spending per sh	*.55*
7.46	7.83	7.43	7.30	7.84	8.94	9.61	9.68	9.84	9.76	9.84	10.52	10.51	9.52	9.56	9.99	*14.40*	*18.30*	Book Value per sh	*32.65*
1600.3	1450.0	1343.2	1277.9	1240.1	1167.4	1139.5	1132.0	1098.0	1065.0	1011.3	995.98	983.16	945.15	932.03	919.35	*925.00*	*925.00*	Common Shs Outst'g [A]	*925.00*
21.4	18.4	18.3	16.0	18.0	10.0	16.9	19.9	21.6	18.5	19.1	18.1	19.4	19.0	22.1	22.2	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*19.0*
1.14	.99	.97	.96	1.20	.64	1.06	1.27	1.21	.97	.96	.95	.98	1.03	1.18	1.15			Relative P/E Ratio	*1.05*
.4%	.4%	.9%	1.6%	2.2%	1.9%	1.8%	2.4%	2.8%	2.6%	2.6%	2.6%	2.5%	2.5%	2.8%	2.8%			Avg Ann'l Div'd Yield	*2.8%*
13735	12825	12205	13045	13000	13370	14961	15784	14383	14461	*17400*	*18200*	Sales ($mill)	*21070*
31.5%	28.4%	30.1%	38.9%	40.8%	42.7%	44.3%	46.3%	44.7%	45.8%	*52.0%*	*51.5%*	Operating Margin	*52.0%*
904.0	957.0	879.0	850.0	766.0	605.0	539.0	590.0	708.0	733.0	*775*	*825*	Depreciation ($mill)	*975*
2236.0	1759.0	1971.0	2821.0	2986.0	3595.0	4437.3	5580.0	5017.0	5595.0	*7075*	*7365*	Net Profit ($mill)	*8600*
24.3%	9.1%	23.1%	27.2%	29.2%	27.1%	27.0%	16.5%	12.4%	7.0%	*12.0%*	*12.0%*	Income Tax Rate	*12.0%*
16.3%	13.7%	16.1%	21.6%	23.0%	26.9%	29.7%	35.4%	34.9%	38.7%	*40.7%*	*40.5%*	Net Profit Margin	*40.8%*
4329.0	4800.0	5272.0	5106.0	4519.0	5193.0	6476.0	5623.0	6638.0	7849.0	*12330*	*16345*	Working Cap'l ($mill)	*30980*
4211.0	4186.0	4158.0	3641.0	3120.0	2978.0	3577.0	4319.0	5303.0	6248.0	*6300*	*6400*	Long-Term Debt ($mill)	*6500*
10952	10961	10807	10390	9946.0	10473	10337	8994.0	8907.0	9187.0	*13340*	*16930*	Shr. Equity ($mill)	*30190*
14.9%	11.9%	13.5%	20.4%	23.2%	27.0%	32.2%	42.4%	35.9%	36.9%	*36.0%*	*31.5%*	Return on Total Cap'l	*23.5%*
20.4%	16.0%	18.2%	27.2%	30.0%	34.3%	42.9%	62.0%	56.3%	60.9%	*53.0%*	*43.5%*	Return on Shr. Equity	*28.5%*
14.5%	8.6%	7.4%	14.4%	15.5%	18.6%	22.6%	33.6%	22.6%	23.6%	*24.5%*	*21.0%*	Retained to Com Eq	*16.0%*
29%	47%	60%	47%	48%	46%	47%	46%	60%	61%	*53%*	*51%*	All Div'ds to Net Prof	*44%*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $6.3 bill. **Due in 5 Years** 3.1 bill.
LT Debt $6.3 bill. **LT Interest** $170 mill. (38% of capital)

Leases, Uncapitalized: Annual Rentals: $75 mill.
Pension Assets-12/20 $4458 mill. **Oblig.** $4354 mill.
Pfd Stock None

Common Stock 923,523,523 shs.
as of 4/20/21
MARKET CAP: $176 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	5387	6568	6686
Receivables	1074	1414	1584
Inventory (Avg Cst)	2001	1955	1890
Other	299	302	245
Current Assets	8761	10239	10405
Accts Payable	388	415	567
Debt Due	500	600	- -
Other	1235	1375	1133
Current Liab.	2123	2390	1700

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	4.5%	5.5%	*6.0%*
"Cash Flow"	9.5%	15.0%	*8.0%*
Earnings	12.0%	18.5%	*8.5%*
Dividends	21.5%	21.0%	*4.0%*
Book Value	2.0%	-.5%	*22.5%*

Calendar	QUARTERLY SALES ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	3789	4017	4261	3717	15784
2019	3594	3668	3771	3350	14383
2020	3329	3239	3817	4076	14461
2021	4289	*4300*	*4400*	*4411*	*17400*
2022	*4490*	*4500*	*4600*	*4610*	*18200*

Calendar	EARNINGS PER SHARE [B] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1.35	1.40	1.58	1.27	5.59
2019	1.26	1.36	1.49	1.12	5.24
2020	1.24	1.48	1.45	1.80	5.97
2021	1.87	*1.85*	*1.85*	*1.88*	*7.45*
2022	*1.95*	*1.92*	*1.93*	*1.95*	*7.75*

Calendar	QUARTERLY DIVIDENDS PAID [C] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.50	.50	.50	.62	2.12
2018	.62	.62	.62	.77	2.63
2019	.77	.77	.77	.90	3.21
2020	.90	.90	.90	1.02	3.72
2021	1.02	1.02			

BUSINESS: Texas Instruments Incorporated is a global manufacturer of semiconductors and electronic products. The company is the leading supplier of digital signal processors and analog devices. Markets electrical controls, educational and productivity solutions, and metallurgical materials. Royalty income from licensing proprietary technology is significant. Research & Development, 10.6% of 2020 revenues. Has 30,000 employees. The Vanguard Group owns 9.2% of common stock; BlackRock, 7.7%; Officers and directors own less than 1% of stock (3/21 proxy). Chief Executive Officer & President: Richard K. Templeton. Incorporated: Delaware. Address: 12500 TI Boulevard, P.O. Box 660199, Dallas, Texas 75266-0199. Telephone: 972-995-3773. Internet: www.ti.com.

Shares of Texas Instruments continue to trend higher. Indeed, the stock's price has climbed another 8.8% since our March review, largely reflecting the company getting off to a healthy start this year. This steady advance adds onto the stock's sharp increase of nearly 80% last year.

The semiconductor manufacturer posted better-than-expected March-quarter financial results. This is evident in sales rising 28.8%, to $4.289 billion, thanks to solid, double-digit gains in the Analog and Embedded Processing division. Meanwhile, on the profitability front, cost of goods sold and operating expenses declined 250 basis points and 340 basis points as a percentage of the top line, respectively. All told, these factors drove the bottom line more than 50% higher, to $1.87 a share.

As a result, we have raised our 2021 top- and bottom-line estimates by $1.7 billion and $0.90, to $17.4 billion and $7.45 a share, respectively. Our revised figure would represent a nearly 25% rise in annual earnings. This ought to be supported by an estimated increase in sales of approximately 20%, thanks to improved traction for its industrial, automotive, and personal electronic applications, as Texas Instruments continues to introduce new offerings. To this point, the company spends more than 10% of every sales dollar on research and development. Further benefits ought to stem from cost cuts put into play over the past year. We look for this solid momentum to continue into 2022, just at a more moderate pace.

The balance sheet is in good shape and improving. During the first quarter of this year, cash and equivalents increased about 2%, to $6.7 billion. At the same time, the long-term debt load remained flat at $6.3 billion, or roughly 38% of total capital.

Still, at this juncture, shares of Texas Instruments are not overly compelling. Even after raising our earnings estimates and projections, TXN is trading inside our 3- to 5-year Target Price Range, suggesting the equity offers limited upside potential. In the near term, our Timeliness Ranking System has the stock pegged to mirror the broader market averages in the coming year (Timeliness: 3).

Bryan J. Fong *June 25, 2021*

(A) In mill.
(B) Diluted earnings. Excl. nonrecur. gains (losses) & amort. of purchased intang.: '05, 6¢; '17, (75¢). Excl. disc. operations: '06, $1.09. Next egs. rpt. due late July. Qtly egs. may not sum to total due to change in shares outstanding.
(C) Dividends historically paid mid-February, May, August, and November.

Company's Financial Strength	A++
Stock's Price Stability	95
Price Growth Persistence	90
Earnings Predictability	85

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AMERCO NDQ-UHAL

RECENT PRICE 638.01 | P/E RATIO 14.4 (Trailing: 14.4 Median: 15.0) | RELATIVE P/E RATIO 0.75 | DIV'D YLD Nil | VALUE LINE 318

TIMELINESS 3 Lowered 1/1/21
SAFETY 2 Raised 8/21/20
TECHNICAL 3 Raised 8/13/21
BETA .95 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$263-$709 $486 (-25%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	690	(+10%)	2%
Low	510	(-20%)	-5%

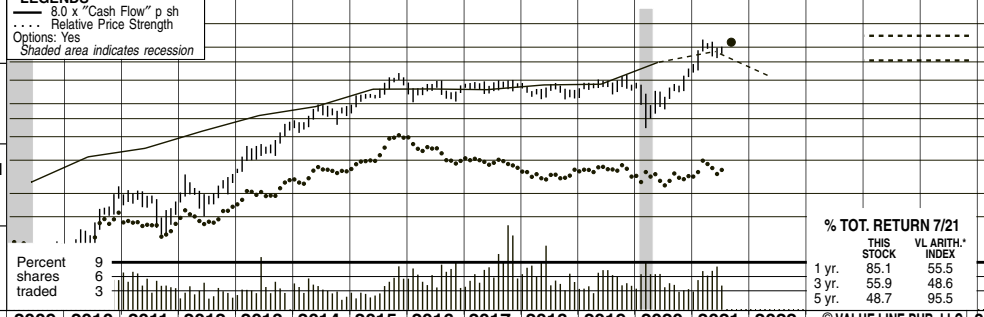
Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	100	119	128
to Sell	124	107	136
Hld's(000)	6873	6896	6812

Percent shares traded 9 6 3

High:	109.1	104.0	126.9	240.4	297.1	436.9	399.2	401.0	386.6	426.5	460.9	657.9
Low:	35.6	60.2	75.4	128.4	210.0	266.3	305.7	338.3	316.0	322.2	222.3	439.7

LEGENDS
8.0 x "Cash Flow" p sh
Relative Price Strength
Options: Yes
Shaded area indicates recession



% TOT. RETURN 7/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	85.1	55.5
3 yr.	55.9	48.6
5 yr.	48.7	95.5

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
98.97	101.51	104.38	101.61	102.10	114.30	127.64	130.49	144.60	156.80	167.06	174.51	183.66	192.20	202.92	231.64	*265.40*	*251.30*	Revenues per sh	*266.65*
12.44	12.83	14.40	13.55	14.30	19.56	21.68	26.79	32.41	36.19	44.80	44.88	44.57	47.17	47.59	62.26	*70.00*	*64.35*	"Cash Flow" per sh	*67.20*
6.30	3.72	2.78	.02	2.74	8.80	10.09	13.56	17.51	18.21	24.95	20.34	15.70	18.93	15.10	31.15	*44.35*	*38.00*	Earnings per sh [AB]	*40.00*
- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	*Nil*	*Nil*	Div'ds Decl'd per sh [D]	*Nil*
16.18	31.56	29.20	20.26	13.23	24.51	30.08	33.51	50.99	57.49	76.97	72.40	69.55	95.37	117.78	73.51	*55.00*	*65.00*	Cap'l Spending per sh	*100.00*
32.68	34.95	38.63	36.60	41.46	50.64	52.83	62.69	77.90	96.10	114.82	133.61	173.84	188.31	215.26	247.44	*292.30*	*328.20*	Book Value per sh	*446.15*
21.28	20.55	19.63	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	19.61	*19.50*	*19.50*	Common Shs Outst'g [C]	*19.50*
10.3	22.7	23.6	NMF	16.3	8.9	8.7	8.3	11.2	15.4	14.5	17.7	23.4	18.7	24.3	12.5	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*15.0*
.55	1.23	1.25	NMF	1.09	.57	.55	.53	.63	.81	.73	.93	1.18	1.01	1.29	.64			Relative P/E Ratio	*.85*
- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -			Avg Ann'l Div'd Yield	*Nil*
2502.7	2558.6	2835.3	3074.5	3275.7	3421.8	3601.1	3768.7	3978.9	4542.0	*5175*	*4900*	Revenues ($mill) [A]	*5300*
25.5%	29.7%	32.6%	33.0%	38.3%	35.8%	32.4%	31.9%	29.6%	34.7%	*34.5%*	*33.5%*	Operating Margin	*32.0%*
222.7	260.5	293.2	352.8	389.4	481.5	567.8	554.0	637.1	609.9	*500*	*510*	Depreciation ($mill)	*530*
205.4	264.7	342.4	356.7	489.0	398.4	306.2	370.9	296.0	610.9	*865*	*745*	Net Profit ($mill)	*780*
36.9%	35.2%	36.3%	36.5%	36.4%	36.6%	35.0%	22.3%	21.7%	23.3%	*24.0%*	*24.0%*	Income Tax Rate	*25.0%*
8.2%	10.3%	12.1%	11.6%	14.9%	11.6%	8.5%	9.8%	7.4%	13.4%	*16.5%*	*15.5%*	Net Profit Margin	*14.7%*
723.7	436.0	464.9	213.3	522.1	632.6	708.2	624.7	797.6	1354.8	*1400*	*1400*	Working Cap'l ($mill)	*800*
1303.3	1434.9	1778.8	1930.1	2688.8	3262.9	3513.1	4163.3	4621.3	4668.9	*4300*	*4300*	Long-Term Debt ($mill)	*4000*
1035.8	1229.3	1527.4	1884.4	2251.4	2619.7	3408.7	3692.4	4220.7	4851.9	*5700*	*6400*	Shr. Equity ($mill)	*8700*
10.7%	11.3%	11.5%	10.5%	10.9%	7.7%	5.3%	5.6%	4.3%	7.3%	*10.5%*	*7.5%*	Return on Total Cap'l	*7.0%*
19.8%	21.5%	22.4%	18.9%	21.7%	15.2%	9.0%	10.0%	7.0%	12.6%	*15.0%*	*11.5%*	Return on Shr. Equity	*9.0%*
19.5%	21.5%	22.4%	18.9%	21.7%	15.2%	9.0%	10.0%	7.0%	12.6%	*15.0%*	*11.5%*	Retained to Com Eq	*9.0%*
- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	*Nil*	*Nil*	All Div'ds to Net Prof	*Nil*

CAPITAL STRUCTURE as of 6/30/21
LT Debt $4673.4 mill **Due in 5 Yrs** $3198.6 mill.
LT Interest $165.5 mill.
(48% of Cap'l)

Leases, Uncapitalized $30.6 mill.

No Defined Benefit Pension Plan

Pfd Stock None
Common Stock 19,607,788 shs.
as of 8/3/21

MARKET CAP: $12.5 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	6/30/21
Cash Assets	494.4	1194.0	1520.0
Receivables	186.7	224.4	233.1
Inventory (LIFO)	101.1	105.6	118.0
Other	562.9	469.1	306.6
Current Assets	1345.1	1993.1	2177.7
Accts Payable	554.4	645.6	696.8
Other	- -	- -	- -
Current Liab.	554.4	645.6	696.8

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	7.0%	6.0%	*4.5%*
"Cash Flow"	12.5%	6.5%	*7.5%*
Earnings	19.0%	1.5%	*13.5%*
Dividends	- -	- -	*Nil*
Book Value	17.5%	17.5%	*12.0%*

Fiscal Year Begins	QUARTERLY REVENUES ($ mill.) [A] Jun.30	Sep.30	Dec.31	Mar.31	Full Fiscal Year
2018	1019.6	1104.5	919.1	725.5	3768.7
2019	1079.2	1150.2	927.9	821.5	3978.9
2020	987.2	1324.9	1170.0	1059.9	4542.0
2021	1472.9	*1400*	*1200*	*1102.1*	*5175*
2022	*1200*	*1350*	*1225*	*1125*	*4900*

Fiscal Year Begins	EARNINGS PER SHARE [AB] Jun.30	Sep.30	Dec.31	Mar.31	Full Fiscal Year
2018	6.53	8.35	4.01	.04	18.93
2019	6.76	7.97	1.58	d1.21	15.10
2020	4.47	13.58	9.33	3.76	31.15
2021	17.60	*14.00*	*9.00*	*4.25*	*44.35*
2022	*10.00*	*13.50*	*9.00*	*5.50*	*38.00*

Calendar	QUARTERLY DIVIDENDS PAID [D] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017					
2018	NO CASH DIVIDENDS BEING PAID				
2019					
2020					
2021					

BUSINESS: AMERCO is the holding company for U-Haul International, Inc., Amerco Real Estate Co., Repwest Insurance Co., and Oxford Life Insurance Co. Moving and Storage, consisting of the rental of trucks, trailers, and storage facilities, accounts for 90% of revenues. The Property and Casualty Insurance unit (Repwest and ARCOA Risk Retention Group) provides loss adjusting and claims handling for U-Haul. The Life Insurance division (Oxford) offers life and health insurance products to the senior market. Has around 29,000 employees. Chairman, President & CEO: Edward J. Shoen owns 42.7% of common stock (as of 3/21 proxy). Inc.: NV. Address: 5555 Kietzke Lane, Suite 100, Reno, NV 89511. Telephone: 775-688-6300. Internet: www.amerco.com.

AMERCO is on track for another year of unprecedented revenues and profits. Indeed, the unique conditions created by the pandemic have proven a windfall for the parent company of the leading do-it-yourself mover, especially in the fast-growing self-storage business. U-Haul's products and services have fueled outsized share-net advances over the past several quarters, as COVID-19 has prompted mass migrations out of crowded cities. On point, the June period saw earnings skyrocket to a quarterly record of $17.60 a share on revenues of $1.473 billion. The showing blew the Street's consensus, as well as our own call of $7.50 a share, out of the water. The combination of accelerated easing of pandemic restrictions of late, the ongoing exodus from northern cities to more suburban and rural midwest and southern regions, the white-hot, seller's real estate market, realigning its fleet, and AMERCO's effective cost controls, propelled its profit margins in the first quarter of fiscal 2021 (began April 1st).

Although recent trends are unlikely to be sustainable, we have raised our top- and bottom-line forecasts for fiscal 2021 and fiscal 2022. The market conditions that have been driving AMERCO's outperformance over the past several quarters will probably taper off as efforts to restore economic activity gain traction, vaccination distribution widens, and the broader U.S. population develops greater immunity. That said, current momentum has enhanced the outlook for the this year, as we look for earnings to come in at $44.35 a share on revenues of $5.175 billion (our previous estimates were $34.25 and $4.7 billion, respectively). Furthermore, while we expect revenues and earnings to slip in fiscal 2022, as economic trends normalize and relocation activity cools down, we have upped our earnings and revenue estimates to $38.00 a share and $4.9 billion (from $36.00 and $4.8 billion, respectively).

Unfortunately, the stock is already trading within our 3- to 5-year Target Price Range. We do not envision a scenario where AMERCO can replicate recent performance over the pull to 2024–2026.

Simon R. Shoucair *August 20, 2021*

(A) Fiscal year ends March 31st of the following calendar year.
(B) Earnings based on diluted shares. Next earnings report is due early November. Revenues may not sum due to rounding. **(C)** In millions. **(D)** Excludes special dividends paid: $0.50, 7/21 $2.00, 12/20; $0.50, 9/20; $0.50, 12/19; $0.50, 9/19; $0.50, 3/19; $0.50, 12/18; $0.50, 8/18; $0.50, 1/18; $1, 8/17; $1, 3/17; $1, 11/16; $1, 4/16; $3, 10/15; $1, 7/15; $1, 3/15; $1, 2/14; $5, 11/12; $1, 1/12.

Company's Financial Strength	B++
Stock's Price Stability	90
Price Growth Persistence	65
Earnings Predictability	60

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UNITED PARCEL SVC. NYSE-UPS

RECENT PRICE 190.98 | P/E RATIO 17.1 (Trailing: 17.7 Median: 18.0) | RELATIVE P/E RATIO 0.90 | DIV'D YLD 2.1% | VALUE LINE 316

TIMELINESS 3 Lowered 5/7/21
SAFETY 1 Raised 5/15/20
TECHNICAL 2 Raised 8/20/21
BETA .80 (1.00 = Market)

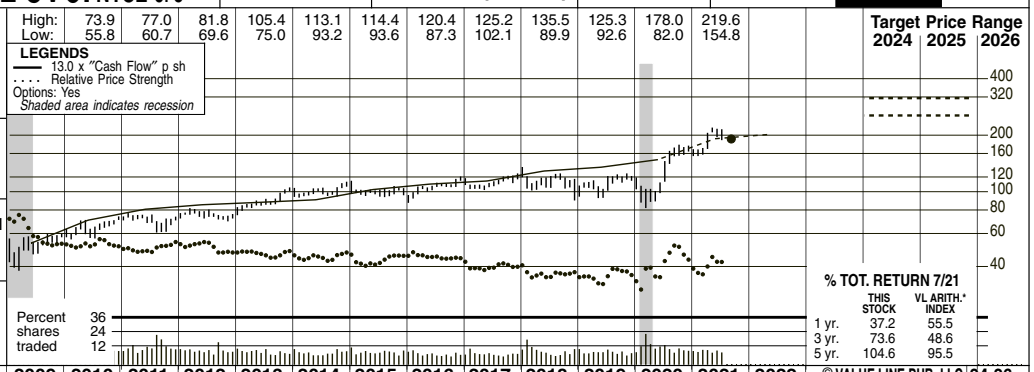
18-Month Target Price Range
Low-High Midpoint (% to Mid)
$164-$341 $253 (30%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	315	(+65%)	15%
Low	255	(+35%)	10%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	763	955	934
to Sell	866	809	829
Hld's(000)	482934	480421	488802



2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
38.82	44.44	48.04	51.72	45.62	50.19	55.15	56.80	60.00	64.34	65.87	70.17	76.68	83.75	86.50	97.88	*109.05*	*112.65*	Revenues per sh	*129.40*
5.03	5.56	5.91	5.42	4.09	5.43	6.20	6.56	6.75	6.97	7.91	8.44	8.78	9.92	10.39	11.41	*14.75*	*15.55*	"Cash Flow" per sh	*18.10*
3.47	3.86	4.11	3.50	2.31	3.56	4.23	4.53	4.61	4.75	5.43	5.75	6.01	7.24	7.53	8.23	*11.25*	*11.90*	Earnings per sh A	*14.30*
1.32	1.52	1.64	1.77	1.80	1.88	2.08	2.28	2.48	2.68	2.92	3.12	3.12	3.64	3.84	4.04	*4.08*	*4.32*	Div'ds Decl'd per sh B■	*5.75*
1.99	2.88	2.73	2.65	1.61	1.41	2.08	2.26	2.23	2.57	2.69	3.42	6.09	7.32	7.45	6.26	*4.45*	*5.50*	Cap'l Spending per sh	*5.00*
15.39	14.47	11.78	6.81	7.69	8.08	7.31	4.88	7.01	2.37	2.79	.47	1.16	3.52	3.81	.76	*14.45*	*19.30*	Book Value per sh C	*26.20*
1097.0	1070.0	1034.4	995.44	992.85	987.12	963.00	953.00	924.00	905.00	886.00	868.00	859.00	858.00	856.60	864.60	*871.00*	*870.00*	Common Shs Outst'g D	*850.00*
21.1	19.8	17.8	18.4	22.6	18.1	16.7	16.7	19.3	21.2	18.5	18.4	18.6	15.6	14.7	15.8	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*20.0*
1.12	1.07	.94	1.11	1.51	1.15	1.05	1.06	1.08	1.12	.93	.97	.94	.84	.78	.81			Relative P/E Ratio	*1.10*
1.8%	2.0%	2.2%	2.7%	3.5%	2.9%	2.9%	3.0%	2.8%	2.7%	2.9%	2.9%	2.8%	3.2%	3.5%	3.1%			Avg Ann'l Div'd Yield	*2.4%*
53105	54127	55438	58232	58363	60906	65872	71861	74094	84628	*95000*	*98000*	Revenues ($mill)	*110000*
15.9%	16.5%	16.1%	15.5%	16.9%	17.0%	16.1%	13.3%	14.2%	13.5%	*16.0%*	*16.0%*	Operating Margin	*16.0%*
1782.0	1858.0	1867.0	1923.0	2084.0	2224.0	2282.0	2207.0	2360.0	2698.0	*2990*	*3175*	Depreciation ($mill)	*3250*
4193.0	4389.0	4372.0	4389.0	4923.0	5104.0	5259.0	6301.0	6543.0	7166.0	*9875*	*10350*	Net Profit ($mill)	*12155*
34.3%	34.5%	34.5%	35.5%	34.0%	34.5%	33.8%	21.3%	22.0%	23.5%	*23.0%*	*23.0%*	Income Tax Rate	*23.5%*
7.9%	8.1%	7.9%	7.5%	8.4%	8.4%	8.0%	8.8%	8.8%	8.5%	*10.4%*	*10.6%*	Net Profit Margin	*11.0%*
5770.0	7201.0	6256.0	3169.0	2512.0	2119.0	2840.0	2123.0	1690.0	3200.0	*8400*	*9450*	Working Cap'l ($mill)	*6000*
11095	11089	10824	9864.0	11316	12394	20278	19931	21818	22031	*21000*	*20000*	Long-Term Debt ($mill)	*18500*
7035.0	4653.0	6474.0	2141.0	2470.0	405.0	1000.0	3021.0	3267.0	657.0	*12600*	*16800*	Shr. Equity ($mill)	*22250*
24.0%	28.9%	26.4%	38.0%	36.9%	41.4%	25.8%	28.8%	27.4%	33.1%	*29.5%*	*28.0%*	Return on Total Cap'l	*30.0%*
59.6%	NMF	67.5%	NMF	NMF	NMF	NMF	NMF	NMF	NMF	*NMF*	*NMF*	Return on Shr. Equity	*NMF*
31.2%	48.5%	32.6%	NMF	NMF	NMF	NMF	NMF	NMF	NMF	*49.5%*	*39.0%*	Retained to Com Eq	*33.0%*
48%	49%	52%	54%	51%	52%	53%	48%	49%	47%	*36%*	*36%*	All Div'ds to Net Prof	*40%*

CAPITAL STRUCTURE as of 6/30/21
Total Debt $22591 mill. **Due in 5 Yrs** $10274 mill.
LT Debt $21027 mill. **LT Interest** $680 mill. (66% of Cap'l)
Leases, Uncapitalized: Annual rentals $815 mill.
Pension Assets-12/20 $47730 mill. **Oblig.** $57553 mill.

Pfd Stock None
Common Stock 871,042,255 shs.
142,752,653 class A shares (10 votes each)
728,289,602 class B shares (1 vote each)
as of 7/22/21
MARKET CAP: $166 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	6/30/21
Cash Assets	5741	6316	9954
Receivables	9645	10888	10260
Other	1717	3012	1774
Current Assets	17103	20216	21988
Accts Payable	5555	6455	6563
Debt Due	3420	2623	1564
Other	6438	7938	7643
Current Liab.	15413	17016	15770

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Revenues	6.0%	7.0%	*6.5%*
"Cash Flow"	8.0%	8.0%	*9.0%*
Earnings	9.5%	9.0%	*10.5%*
Dividends	8.0%	7.5%	*8.5%*
Book Value	-9.5%	-8.0%	*30.5%*

Calendar	QUARTERLY REVENUES ($ mill.) Mar.31	Jun. 30	Sep. 30	Dec. 31	Full Year
2018	17113	17456	17444	19848	71861
2019	17160	18048	18318	20568	74094
2020	18035	20549	21192	24852	84628
2021	22908	23424	*22650*	*26018*	*95000*
2022	*23100*	*23350*	*23700*	*26850*	*98000*

Calendar	EARNINGS PER SHARE A Mar.31	Jun. 30	Sep. 30	Dec. 31	Full Year
2018	1.55	1.94	1.82	1.94	7.24
2019	1.39	1.96	2.07	2.11	7.53
2020	1.15	2.13	2.28	2.66	8.23
2021	2.77	3.06	*2.60*	*2.82*	*11.25*
2022	*2.70*	*3.05*	*2.95*	*3.20*	*11.90*

Calendar	QUARTERLY DIVIDENDS PAID B■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.83	.83	.83	.83	3.32
2018	.91	.91	.91	.91	3.64
2019	.96	.96	.96	.96	3.84
2020	1.01	1.01	1.01	1.01	4.04
2021	1.02	1.02			

BUSINESS: United Parcel Service, Inc. is the world's largest integrated air and ground package delivery carrier. Also provides specialized transportation and logistics services. Service is offered throughout the U.S. and in over 220 other countries and territories. Domestic package operations accounted for 63% of '20 revenues; international (19%); supply chain & freight (18%). Fleet owned and leased (at 12/31/20): 588 planes and 127,000 ground vehicles. Has about 543,000 employees (over 62% unionized). Officers and directors own less than 1.0% of common stock; BlackRock Inc., 7.3%; Vanguard, 8.0% (3/21 Proxy). CEO: Carol B. Tomé. Incorporated: Delaware. Address: 55 Glenlake Pkwy., NE, Atlanta GA 30328. Telephone: 404-828-6000. Internet: www.ups.com.

Shifting demand dynamics didn't stop United Parcel Service from reporting solid second-quarter results. Last year's pandemic-related spike in essential goods deliveries created a difficult comparison in U.S. Domestic, and contributed to average daily volume dropping 2.9% year over year, and 15.8% fewer business-to-consumer deliveries. Offsetting this was a 25.7% rise in business-to-business volume, which is somewhat ironic since it was driven by increased traffic to brick-and-mortar retail locations lifting demand for in-store inventory and associated shipping. Saturday Ground delivery volume grew 13%, as weekend coverage continued to expand. UPS achieved that with little capital cost, and cited this as evidence of its "better not bigger" strategy paying off. In all, revenue rose 14.5% year over year, in line with our estimate. Total expenses grew only 7.3%, with roughly equal amounts of that stemming from fuel, network enhancements, and employee benefits (due to the reinstatement of the federal excise tax). All business segments delivered record quarterly operating profit and expanded margins. Despite the progress, the shares declined after the release, as some investors have grown accustomed to big earnings beats during the pandemic.

The company is trying to diversify and improve the revenue mix. A relatively new focus of the company is going after small and midsized business clients. The strategy appears to be working, with average daily volume for this group growing 21.6% in the second quarter on a 13.4% rise in revenue per package. Too, revenue from global healthcare customers grew 19.8% and contributed to margin expansion across segments. Business-to-business and international are other target growth markets.

The shares are more reasonably valued at recent price levels. There is still a lot of uncertainty over how much e-commerce shopping activity will revert back to physical shopping post pandemic. Too, a tight labor market and global supply chain pressure will likely remain headwinds near term. Nonetheless, the company still appears well positioned to continue growing its business, and we recommend the shares to long-term investors.

Kevin Downing *August 20, 2021*

(A) Diluted earnings adjusted for nonrecurring gains (losses). May not sum due to changes in share count. Next earnings report due late Oct. **(B)** Dividends historically paid February, May, August, and November. ■ Dividend reinvestment plan available. **(C)** Includes intangibles. In 2020: $5641 mill., $6.52 per share. **(D)** In millions.

Company's Financial Strength	A+
Stock's Price Stability	85
Price Growth Persistence	65
Earnings Predictability	95

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VERISIGN NDQ-VRSN

RECENT PRICE 222.96 | P/E RATIO 41.3 (Trailing: 42.1 Median: 26.0) | RELATIVE P/E RATIO 2.13 | DIV'D YLD Nil | VALUE LINE

TIMELINESS 2 Lowered 6/18/21
SAFETY 2 Raised 5/7/21
TECHNICAL 3 Raised 7/30/21
BETA .90 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$176-$354 $265 (20%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	230	(+5%)	1%
Low	170	(-25%)	-6%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	245	248	244
to Sell	263	292	268
Hld's(000)	101489	101419	100830

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
High:	37.2	37.7	50.2	59.9	63.0	93.9	92.0	118.3	176.8	217.0	221.3	234.6								
Low:	21.2	27.0	32.8	37.6	46.4	53.5	70.3	76.4	105.4	142.4	148.8	184.6								
	6.53	6.46	6.71	5.02	5.62	3.94	4.84	5.70	7.22	8.53	9.62	11.08	11.94	10.12	10.55	11.15	*11.90*	*12.90*	Sales per sh	*16.65*
	1.49	2.00	1.19	1.30	1.48	.75	1.22	2.39	2.98	3.76	3.97	4.84	5.29	5.26	5.64	5.90	*5.90*	*6.75*	"Cash Flow" per sh	*9.30*
	1.05	1.53	.63	.73	1.03	.39	.83	1.91	2.17	2.71	2.82	3.42	3.75	4.75	5.15	5.40	*5.40*	*6.15*	Earnings per sh [A]	*8.25*
	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*Nil*	*Nil*	Div'ds Decl'd per sh [D]	*Nil*
	.57	.74	.68	.62	.64	.47	1.21	.35	.49	.33	.37	.26	.51	.31	.35	.38	*.45*	*.55*	Cap'l Spending per sh	*.85*
	8.24	9.75	6.86	.27	3.00	3.92	d.55	d.06	d3.17	d7.46	d9.73	d11.65	d12.91	d11.54	d12.77	d12.25	*d11.20*	*d8.20*	Book Value per sh [C]	*9.25*
	246.42	243.84	222.85	191.55	183.30	172.74	159.42	153.39	133.72	118.45	110.07	103.09	97.59	120.04	116.72	113.47	*111.50*	*110.00*	Common Shs Outst'g [B]	*108.00*
	24.8	14.5	47.9	42.5	20.4	NMF	40.3	21.6	22.4	20.1	24.5	23.9	25.6	28.7	37.0	37.8	*Bold figures are*		Avg Ann'l P/E Ratio	*24.0*
	1.32	.78	2.54	2.56	1.36	NMF	2.53	1.38	1.26	1.06	1.23	1.25	1.29	1.55	1.97	1.93	*Value Line*		Relative P/E Ratio	*1.35*
	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*estimates*		Avg Ann'l Div'd Yield	*Nil*
							772.0	873.6	965.1	1010.1	1059.4	1142.2	1165.1	1215.0	1231.7	1265.1	*1325*	*1420*	Sales ($mill)	*1800*
							51.9%	58.5%	61.0%	62.2%	63.0%	65.2%	65.0%	67.1%	69.2%	68.8%	*68.5%*	*69.5%*	Operating Margin	*70.0%*
							55.7	54.8	60.7	63.7	61.5	58.2	49.9	48.4	46.3	46.4	*48.0*	*60.0*	Depreciation ($mill)	*95.0*
							138.6	312.5	338.5	381.8	375.2	440.6	466.2	582.5	612.3	622.9	*610*	*685*	Net Profit ($mill)	*910*
							28.4%	24.3%	25.9%	21.0%	23.1%	24.2%	22.2%	20.2%	19.3%	17.0%	*21.0%*	*21.0%*	Income Tax Rate	*21.0%*
							17.9%	35.8%	35.1%	37.8%	35.4%	38.6%	40.0%	47.9%	49.7%	49.2%	*46.0%*	*48.2%*	Net Profit Margin	*50.6%*
							788.9	948.5	d226.0	d430.0	464.9	320.3	885.7	369.4	313.4	229.2	*250*	*325*	Working Cap'l ($mill)	*600*
							690.1	697.6	750.0	750.0	1235.4	1237.2	1782.5	1785.0	1787.6	1790.1	*1850*	*1950*	Long-Term Debt ($mill)	*2250g*
							d88.1	d9.3	d423.6	d883.5	d1070	d1201	d1260	d1385	d1490	d1390	*d1250*	*d900*	Shr. Equity ($mill)	*1000*
							35.3%	49.0%	109.9%	--	249.1%	308.8%	98.9%	160.1%	NMF	NMF	*NMF*	*70.0%*	Return on Total Cap'l	*29.5%*
							--	--	--	--	--	--	--	--	--	--	*NMF*	*NMF*	Return on Shr. Equity	*NMF*
							--	--	--	--	--	--	--	--	--	--	*NMF*	*NMF*	Retained to Com Eq	*NMF*
							--	--	--	--	--	--	--	--	--	--	*Nil*	*Nil*	All Div'ds to Net Prof	*Nil*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $1784.7 mill. **Due in 5 Yrs** $1250.0 mill.
LT Debt $1784.7 mill. **LT Interest** $90.0 mill.

Leases, Uncapitalized $4.6 mill.
No Defined Benefit Pension Plan

Pfd Stock None

Common Stock 111,874,436 shs.
as of 7/16/21
MARKET CAP: $24.9 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	1218.1	1166.9	1123.0
Receivables	--	--	--
Inventory	--	--	--
Other	60.5	51.0	66.1
Current Assets	1278.6	1217.9	1189.1
Accts Payable	210.0	208.6	175.4
Debt Due	--	--	--
Other	755.2	780.1	822.9
Current Liab.	965.2	988.7	998.3

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	8.0%	4.5%	*8.0%*
"Cash Flow"	17.0%	9.5%	*9.0%*
Earnings	21.5%	14.5%	*8.5%*
Dividends	--	--	*Nil*
Book Value	--	--	*NMF*

Calendar	QUARTERLY SALES ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	299.3	302.5	305.8	307.4	1215.0
2019	306.4	306.3	308.4	310.6	1231.7
2020	312.5	314.4	317.9	320.3	1265.1
2021	323.6	329.4	*332*	*340*	*1325*
2022	*345*	*350*	*360*	*365*	*1420*

Calendar	EARNINGS PER SHARE [A] [E] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1.09	1.04	1.13	1.50	4.75
2019	1.35	1.24	1.30	1.26	5.15
2020	1.42	1.32	1.28	1.38	5.40
2021	1.33	1.31	*1.35*	*1.41*	*5.40*
2022	*1.45*	*1.50*	*1.60*	*1.60*	*6.15*

Calendar	QUARTERLY DIVIDENDS PAID Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017					
2018	NO CASH DIVIDENDS BEING PAID				
2019					
2020					
2021					

BUSINESS: VeriSign, Inc. is a global provider of domain name registry services and Internet infrastructure. The company enables the security, stability, and resiliency of key Internet infrastructure and services. Has one reportable segment. International sales were 36% of the total for 2020. Acquired m-Qube (5/06). Berkshire Hathaway, Inc. owns 11.4% of common stock; The Vanguard Group, 9.5%; BlackRock, Inc., 8.1%; Renaissance Technologies, LLC, 5.1%; officers & directors, 1.3% (4/21 Proxy). Had 909 employees at 12/31/20. Executive Chairman & Chief Executive Officer: D. James Bidzos. Inc.: Delaware. Address: 12061 Bluemont Way, Reston, Virginia 20190. Telephone: 703-948-3200. Internet: investor.verisign.com/investor-relations.

Shares of VeriSign have moved higher in price in recent months. The company reported moderate top-line growth for the June period. VeriSign finished the recent interim with 170.6 million .com and .net registrations in the domain name base, a 5.2% increase on a year-over-year basis. During the term, VeriSign processed 11.7 million new domain name registrations for .com and .net, compared with 11.1 million in the second quarter of 2020. However, expenses also increased, and share net of $1.31 marked a slight decline from the prior-year tally. The final .com and .net renewal rate for the March quarter was 76% compared with 75.4% for the year-earlier term. Renewal rates are not fully measurable until 45 days after the end of the period. We expect moderate top-line growth will continue in the back half of the year, and we envision more favorable bottom-line comparisons, as well.

Meantime, the company has been active in buying back stock. During the first six months of the year, VeriSign spent more than $360 million on stock buybacks. Repurchases ought to continue to support share earnings going forward.

Long-term prospects look fairly solid here. The company remains well positioned in its industry, and ought to further benefit from attractive business fundamentals from 2022 onward. VeriSign is a global provider of domain name registry services and Internet infrastructure, enabling navigation for many of the world's most recognized domain names. Internet usage ought to further increase in the coming years, and so should domain name registrations.

This stock is ranked to outperform the broader market averages for the coming six to 12 months. Looking further out, we anticipate solid growth in sales and earnings per share for the company over the pull to mid-decade. However, this appears to be reflected in the recent quotation. Long-term appreciation potential is very limited at this juncture, as the shares presently trade well within our Target Price Range. At this time, the stock appears to be most suitable as a year-ahead selection. Subscribers with a long time horizon can probably find better choices elsewhere.

Michael Napoli, CFA *August 6, 2021*

(A) Diluted earnings. Excludes nonrecurring gains/losses: '05, 49¢; '07, ($1.22); '08, ($2.60); '09, 25¢; '10, $4.25; '11, 3¢; '12, 4¢; '13, $1.32; '14, (19¢); '17, (7¢); '20, $1.65. Next earnings report due late October. **(B)** In millions. **(C)** Includes intangibles. In 2020: $52.5 million, $0.46 per share. **(D)** Special cash dividends of $3.00 per share and $2.75 per share were paid on 12/20/10 and 5/18/11, respectively. **(E)** Totals may not sum due to rounding.

Company's Financial Strength	A
Stock's Price Stability	95
Price Growth Persistence	90
Earnings Predictability	95

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WATERS CORP. NYSE-WAT

RECENT PRICE 388.85 | P/E RATIO 36.6 (Trailing: 39.4 Median: 22.0) | RELATIVE P/E RATIO 1.91 | DIV'D YLD Nil | VALUE LINE

TIMELINESS 3 Lowered 7/2/21
SAFETY 2 Raised 5/27/11
TECHNICAL 4 Lowered 7/23/21
BETA .95 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$260-$484 $372 (-5%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	425	(+10%)	2%
Low	315	(-20%)	-5%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	209	248	257
to Sell	254	239	255
Hld's(000)	55190	54954	53938

	High:	81.0	100.0	94.5	108.9	117.7	137.4	162.5	202.0	220.2	255.2	252.7	394.0
	Low:	56.0	70.9	73.0	85.0	93.6	111.8	112.0	134.7	167.9	175.0	154.4	244.8

LEGENDS
16.0 x "Cash Flow" p sh
Relative Price Strength
Options: Yes
Shaded area indicates recession

Target Price Range 2024 2025 2026

% TOT. RETURN 7/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	82.9	55.5
3 yr.	97.6	48.6
5 yr.	145.3	95.5

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
11.00	12.63	14.59	16.09	15.92	17.89	20.38	20.62	22.45	23.93	25.07	27.09	29.10	33.10	38.45	37.96	*44.00*	*45.45*	Sales per sh	*50.00*
2.61	2.77	3.18	4.00	4.04	4.84	5.50	5.58	5.76	5.75	6.31	7.16	8.38	9.34	10.32	9.47	*12.40*	*12.90*	"Cash Flow" per sh	*17.60*
1.99	2.25	2.62	3.25	3.34	4.06	4.69	5.19	5.20	5.07	5.65	6.41	7.49	8.05	8.69	8.36	*10.60*	*11.05*	Earnings per sh [A]	*15.80*
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*Nil*	*Nil*	Div'ds Decl'd per sh	*Nil*
.48	.51	.60	.71	1.00	.68	.94	1.17	1.40	1.10	1.23	1.19	1.08	1.31	2.62	2.77	*1.60*	*1.65*	Cap'l Spending per sh	*2.00*
2.69	3.57	5.80	6.75	9.02	11.64	13.50	16.42	20.79	22.79	25.27	28.77	28.16	21.44	d3.46	3.73	*14.25*	*18.90*	Book Value per sh [B]	*63.90*
105.34	101.37	100.98	97.89	94.12	91.85	90.83	89.39	84.82	83.15	81.47	80.02	79.34	73.12	62.59	62.31	*62.50*	*62.50*	Common Shs Outst'g [C]	*62.50*
21.1	19.6	24.3	17.7	14.4	16.7	17.9	16.0	18.8	21.1	22.3	21.7	23.2	24.4	25.4	25.0	*Bold figures are*		Avg Ann'l P/E Ratio	*23.5*
1.12	1.06	1.29	1.07	.96	1.06	1.12	1.02	1.06	1.11	1.12	1.14	1.17	1.32	1.35	1.28	*Value Line*		Relative P/E Ratio	*1.30*
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*estimates*		Avg Ann'l Div'd Yield	*Nil*
1851.2	1843.6	1904.2	1989.3	2042.3	2167.4	2309.1	2419.9	2406.6	2365.4	*2750*	*2840*	Sales ($mill)	*3125*
32.7%	30.9%	29.7%	28.9%	30.7%	31.2%	34.0%	33.0%	31.7%	30.5%	*37.0%*	*38.0%*	Operating Margin	*37.5%*
66.4	37.4	38.2	46.4	45.3	51.7	61.5	58.0	53.8	68.7	*115*	*120*	Depreciation ($mill)	*135*
433.0	461.4	450.0	431.6	469.1	521.5	603.7	625.2	592.2	521.6	*660*	*685*	Net Profit ($mill)	*965*
15.0%	5.4%	8.2%	12.0%	13.4%	13.1%	11.8%	14.5%	12.7%	14.6%	*14.5%*	*14.5%*	Income Tax Rate	*14.5%*
23.4%	25.0%	23.6%	21.7%	23.0%	24.1%	26.1%	25.8%	24.6%	22.1%	*24.0%*	*24.1%*	Net Profit Margin	*31.8%*
1340.2	1753.5	2068.8	2272.1	2649.4	3115.2	3663.9	2214.3	721.2	596.0	*705*	*735*	Working Cap'l ($mill)	*735*
700.0	1045.0	1190.0	1240.0	1493.0	1702.0	1897.5	1148.2	1580.8	1206.5	*1555*	*1555*	Long-Term Debt ($mill)	*1405*
1226.6	1467.4	1763.2	1894.7	2058.9	2301.9	2233.8	1567.3	d216.3	232.1	*890*	*1180*	Shr. Equity ($mill)	*3995*
22.9%	18.6%	15.7%	14.2%	13.7%	13.6%	14.9%	23.9%	45.2%	38.0%	*36.5%*	*25.0%*	Return on Total Cap'l	*18.0%*
35.3%	31.4%	25.5%	22.8%	22.8%	22.7%	27.0%	39.9%	39.9%	NMF	*74.0%*	*58.0%*	Return on Shr. Equity	*24.0%*
35.3%	31.4%	25.5%	22.8%	22.8%	22.7%	27.0%	39.9%	39.9%	NMF	*74.0%*	*58.0%*	Retained to Com Eq	*24.0%*
--	--	--	--	--	--	--	--	--	--	*Nil*	*Nil*	All Div'ds to Net Prof	*Nil*

CAPITAL STRUCTURE as of 3/31/21
Total Debt $1703.1 mill. **Due in 5 Yrs** $250.0 mill.
LT Debt $1601.1 mill **LT Interest** $49.7 mill.
(Total interest coverage: 16.6x) (87% of Capital)
Leases, Uncapitalized Annual rentals $29.6 mill.
Pension Assets-12/20 $110.1 mill.
Oblig. $145.0 mill.

Preferred Stock None

Common Stock 62,700,498 shs.
as of 4/4/21

MARKET CAP: $24.4 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	337.1	443.1	809.8
Receivables	587.7	573.3	550.7
Inventory	320.6	304.3	328.0
Other	67.1	80.3	79.5
Current Assets	1312.5	1401.0	1768.0
Accts Payable	49.0	72.2	81.5
Debt Due	100.4	150.0	100.2
Other	441.9	582.8	603.5
Current Liab.	591.3	805.0	785.2

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	8.0%	9.0%	*4.5%*
"Cash Flow"	8.5%	10.5%	*5.5%*
Earnings	9.0%	9.5%	*6.0%*
Dividends	--	--	*Nil*
Book Value	-2.5%	-20.5%	*7.5%*

Calendar	QUARTERLY SALES ($ mill.) Mar.Per	Jun.Per	Sep.Per	Dec.Per	Full Year
2018	530.7	596.2	578.0	715.0	2419.9
2019	513.9	599.2	577.3	716.2	2406.6
2020	464.9	520.0	593.8	786.7	2365.4
2021	608.5	681.6	*640*	*819.9*	*2750*
2022	*620*	*675*	*730*	*815*	*2840*

Calendar	EARNINGS PER SHARE [A] Mar.Per	Jun.Per	Sep.Per	Dec.Per	Full Year
2018	1.59	1.95	1.92	2.59	8.05
2019	1.51	2.08	2.07	3.12	8.69
2020	.86	1.98	2.03	3.49	8.36
2021	2.37	2.69	*2.30*	*3.24*	*10.60*
2022	*2.40*	*2.40*	*2.60*	*3.65*	*11.05*

Calendar	QUARTERLY DIVIDENDS PAID Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017					
2018	NO CASH DIVIDENDS BEING PAID				
2019					
2020					
2021					

BUSINESS: Waters Corp. manufactures, distributes, and services high-performance and ultra-performance liquid chromatography (HPLC and UPLC) and mass spectrometry systems, chemistry consumables, and related products through its Waters division (90% of '20 sales) and thermal analysis, rheometry, and calorimetry instruments through its TA division (10%). HPLC and UPLC are used to identify and analyze the components of a variety of chemicals and materials. Acquired Thar Instruments 2/09. Vanguard, 10.7% of common stock; MFS Co. 6.4%; BlackRock, 7.6%; Off. & dir., 1.1% (4/21 proxy). Chairman: Flemming Ornskov, MD; President & CEO: Udit Batra, Ph.D. Inc.: DE. Address: 34 Maple Street, Milford, MA 01757. Tel: 508-482-2314. Internet: www.waters.com.

Waters reported strong second-quarter results. Net sales increased 31.1%, to $681.6 million and were well above our estimate of $625 million. Net income of $167.3 million was up 36.1% year to year, supporting diluted earnings per share of $2.69, well above our call of $2.25 per diluted share and the previous-year results. Performance was even better than the first quarter, when all regions displayed double-digit growth. Growth in China was 68%, while growth elsewhere was 29%. Sales in Asia increased 29.7% to $269.9 million, or 40% of total revenues, even as this metric in the Americas increased a more modest 28.7%, to $224.9 million (33% of the total). Sales in Europe of $186.8 million (27%) were up by 36.4%. The pharmaceutical market was especially strong, generating a sales increase of 34.0%, to $416.7 million, or 68% of the total. Reflecting demand deferred by the pandemic and new product introductions, sales of Waters' instruments increased 43.1%, to $314.5 million, while consumables were up 17.4% to $224.9 million. **CEO Dr. Udit Batra has effected a turn around of the company, since his appointment a year ago.** Although Waters had leading and innovative products, it was underperforming peers and losing some market share. Dr. Batra has inspired management to execute on its innovation, initiating replacement of older tools in its large installed base of both liquid chromatography and mass spectometry systems. The Waters segment, which offers both tools, increased sales in the second quarter 30.4%, to $607.3 million (89% of the total). He has also led a revamp of the company's website in an effort to increase its e-commerce business from the 20% level to the industry norm of 50%. His success is evident in the company's strong performance. To reflect this, we have increased our share-net estimates for 2021 and 2022 by $0.15 and $0.50, respectively, to $10.60 and $11.05. Our sales estimates, in turn, are $2.75 billion, and $2.84 billion.

Ranked 3 (Average) for Timeliness, Waters shares have below average 3- to 5-year appreciation potential. Still, given the pace of changes under way, improved performance will likely continue.

Glenn Pierr Johnson *August 13, 2021*

(A) Diluted earnings. Excludes non-recurring gains (losses): '04, ($0.10); '05, ($0.25); '06, ($0.12); '08 ($0.04); '18 ($0.40). Figures may not sum due to rounding. Next earnings report due late October.
(B) Includes intangibles. In 2020: $703.0 mill., $11.28/sh.
(C) In millions.

Company's Financial Strength	A
Stock's Price Stability	90
Price Growth Persistence	80
Earnings Predictability	100

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WATSCO, INC. NYSE-WSO

RECENT PRICE 287.96 | P/E RATIO 33.9 (Trailing: 38.1 Median: 25.0) | RELATIVE P/E RATIO 1.59 | DIV'D YLD 2.8% | VALUE LINE 1144

TIMELINESS 2 Lowered 6/11/21
SAFETY 1 Raised 9/18/20
TECHNICAL 3 Raised 6/4/21
BETA .85 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$200-$381 $291 (0%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	290	(Nil)	3%
Low	235	(-20%)	-1%

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	193	211	243
to Sell	206	211	175
Hld's(000)	31003	30718	30553

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
High:	65.7	73.4	80.3	98.1	108.9	133.1	159.5	172.0	192.9	183.0	249.3	307.8								
Low:	47.3	50.4	64.1	73.6	84.3	103.0	106.6	134.1	131.9	136.4	133.0	224.3								
Sales per sh	61.27	64.70	62.86	60.02	62.29	87.66	90.22	99.41	107.79	112.68	116.48	118.79	116.63	121.37	124.90	131.22	145.60	148.70	Sales per sh	156.25
"Cash Flow" per sh	2.87	3.17	2.64	2.38	1.61	2.82	3.10	3.45	4.19	4.84	5.44	5.71	5.94	7.07	7.08	7.67	9.20	9.45	"Cash Flow" per sh	11.25
Earnings per sh A	2.52	2.96	2.43	2.18	1.40	2.49	2.74	3.03	3.68	4.32	4.90	5.15	5.54	6.49	6.50	7.01	8.50	8.75	Earnings per sh A	10.55
Div'ds Decl'd per sh C	.62	.95	1.31	1.75	1.89	2.04	2.23	2.48	1.15	2.00	2.80	3.60	4.60	5.60	6.40	6.93	7.63	8.25	Div'ds Decl'd per sh C	10.00
Cap'l Spending per sh	.27	.36	.22	.14	.18	.26	.42	.36	.42	.61	.67	1.23	.48	.46	.47	.43	.45	.45	Cap'l Spending per sh	.50
Book Value per sh D	16.41	18.55	19.66	20.15	22.96	23.56	24.32	21.67	24.20	25.25	27.11	28.31	34.86	35.98	37.58	38.59	39.30	41.05	Book Value per sh D	46.25
Common Shs Outst'g B	27.46	27.83	27.97	28.33	32.14	32.45	33.01	34.52	34.73	35.01	35.31	35.53	37.23	37.46	38.19	38.52	38.80	39.00	Common Shs Outst'g B	40.00
Avg Ann'l P/E Ratio	18.4	19.1	20.1	19.2	32.9	22.7	23.1	23.9	23.8	22.6	24.8	26.3	27.5	26.3	24.7	28.1	Bold figures are Value Line estimates		Avg Ann'l P/E Ratio	25.0
Relative P/E Ratio	.98	1.03	1.07	1.16	2.19	1.44	1.45	1.52	1.34	1.19	1.25	1.38	1.38	1.42	1.32	1.46			Relative P/E Ratio	1.40
Avg Ann'l Div'd Yield	1.3%	1.7%	2.7%	4.2%	4.1%	3.6%	3.5%	3.4%	1.3%	2.1%	2.3%	2.7%	3.0%	3.3%	4.0%	3.5%			Avg Ann'l Div'd Yield	3.8%
Sales ($mill)	2977.8	3431.7	3743.3	3944.5	4113.2	4220.7	4342.0	4546.7	4770.4	5054.9	5650	5800	Sales ($mill)	6250
Operating Margin	7.1%	7.0%	7.7%	8.2%	8.7%	8.7%	8.6%	8.5%	8.0%	8.2%	8.7%	8.7%	Operating Margin	9.0%
Depreciation ($mill)	11.7	15.9	17.7	17.9	19.1	20.1	22.0	22.1	24.5	25.9	27.0	28.0	Depreciation ($mill)	30.0
Net Profit ($mill)	90.5	103.3	127.7	151.4	172.9	182.8	199.0	242.9	246.0	269.6	330	340	Net Profit ($mill)	420
Income Tax Rate	29.2%	28.4%	29.3%	30.6%	31.6%	31.0%	28.6%	19.7%	18.5%	19.2%	20.0%	20.0%	Income Tax Rate	20.0%
Net Profit Margin	3.0%	3.0%	3.4%	3.8%	4.2%	4.3%	4.6%	5.3%	5.2%	5.3%	5.8%	5.9%	Net Profit Margin	6.7%
Working Cap'l ($mill)	605.2	733.1	777.6	870.3	911.0	925.3	920.9	1084.2	1085.0	997.3	1000	1000	Working Cap'l ($mill)	1000
Long-Term Debt ($mill)	- -	316.2	230.0	303.2	245.3	235.3	21.8	135.2	155.7	4.8	50.0	50.0	Long-Term Debt ($mill)	50.0
Shr. Equity ($mill)	802.8	748.2	840.4	884.0	957.3	1005.8	1298.0	1347.8	1435.4	1486.7	1525	1600	Shr. Equity ($mill)	1850
Return on Total Cap'l	11.3%	9.9%	12.2%	13.0%	14.6%	14.9%	15.3%	16.5%	15.6%	18.1%	21.0%	20.5%	Return on Total Cap'l	22.0%
Return on Shr. Equity	11.3%	13.8%	15.2%	17.1%	18.1%	18.2%	15.3%	18.0%	17.1%	18.1%	21.5%	21.5%	Return on Shr. Equity	22.5%
Retained to Com Eq	2.1%	2.5%	10.5%	9.2%	7.8%	5.5%	2.7%	2.5%	.3%	.3%	4.0%	3.0%	Retained to Com Eq	1.0%
All Div'ds to Net Prof	81%	82%	31%	46%	57%	70%	82%	86%	98%	99%	90%	94%	All Div'ds to Net Prof	95%

CAPITAL STRUCTURE as of 3/31/21
Total Debt $127.4 mill. **Due in 5 Yrs** $127.4 mill.
LT Debt $54.6 mill. **LT Interest** $2 mill.
Includes Capital Leases
(Total interest coverage: over 25x)
(4% of Cap'l)
Leases, Uncapitalized: Annual rentals $77.2 mill.
No Defined Pension Benefit Plan

Common Stock 38,681,094 shs.
includes 5,768,007 Class B shs.
Each Class B share entitled to 10 votes
as of 5/3/21
MARKET CAP: $11.1 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	74.5	146.1	93.9
Receivables	533.8	535.3	596.5
Inventory (FIFO)	920.8	781.3	986.6
Other	17.6	21.7	18.4
Current Assets	1546.7	1484.4	1695.4
Accts Payable	239.7	251.6	384.1
Debt Due	- -	71.8	72.8
Other	222.0	163.7	173.9
Current Liab.	461.7	487.1	630.8

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '18-'20 to '24-'26
Sales	6.0%	2.5%	3.5%
"Cash Flow"	12.5%	8.5%	7.5%
Earnings	12.5%	9.0%	8.0%
Dividends	13.0%	26.0%	8.0%
Book Value	5.5%	8.0%	3.5%

Calendar	QUARTERLY SALES ($ mill.) A Mar.31	Jun. 30	Sep. 30	Dec. 31	Full Year
2018	926.6	1332.7	1296.0	991.3	4546.7
2019	931.3	1371.9	1394.9	1072.3	4770.4
2020	1008.1	1355.4	1536.7	1154.7	5054.9
2021	1136.1	1650	1650	1213.9	5650
2022	1150	1700	1700	1250	5800

Calendar	EARNINGS PER SHARE A Mar.31	Jun. 30	Sep. 30	Dec. 31	Full Year
2018	.89	2.40	2.11	1.02	6.49
2019	.88	2.40	2.20	.92	6.50
2020	.72	2.26	2.76	1.14	7.01
2021	1.39	3.00	3.00	1.11	8.50
2022	1.40	3.05	3.05	1.25	8.75

Calendar	QUARTERLY DIVIDENDS PAID C Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	1.05	1.05	1.25	1.25	4.60
2018	1.25	1.45	1.45	1.45	5.60
2019	1.60	1.60	1.60	1.60	6.40
2020	1.60	1.775	1.775	1.775	6.925
2021	1.775	1.95			

% TOT. RETURN 5/21

	THIS STOCK	VL ARITH.* INDEX
1 yr.	69.0	68.0
3 yr.	75.2	54.6
5 yr.	154.8	106.2

Target Price Range 2024 2025 2026

BUSINESS: Watsco, Inc. distributes heating, ventilation, and air conditioning (HVAC) equipment, as well as related parts and supplies, in the United States and overseas. Its HVAC equipment includes residential central ACs; light commercial ACs; gas, electric, and oil furnaces; commercial AC and heating equipment and systems; and other specialized equipment. Officers and directors own 1.0% of Class A stock; BlackRock, Inc., 10.5%; The Vanguard Group, 10.0%; Albert H. Nahmad owns 76.9% of Class B shares (4/21 proxy). Has about 5,800 employees. Chairman & Chief Executive Officer: Albert H. Nahmad. Incorporated: Florida. Address: 2665 South Bayshore Drive, Suite 901, Miami, Florida 33133. Telephone: 305-714-4100. Internet: www.watsco.com.

Watsco jumped out of the gate in the first quarter. Indeed, both sales and earnings were notably better than expected, as demand for the company's products remained strong. Consumers remained focused on their homes during the March period, and many were flush with cash thanks to government stimulus checks and high personal savings rates in 2020. The period also offered few options for travel and leisure activities, which compete with home improvements for a share of household budgets. Specifically, sales jumped 13% from a year earlier, while we had modeled for 4% growth. Sales of HVAC equipment, which account for about two-thirds of the top line, rose 14% year to year, driven by 18% growth in residential products. At the same time, the gross margin expanded 130 basis points, helped by a favorable mix of more higher-efficiency systems. SG&A expenses also came down as a percentage of sales, aided by operating efficiencies. All told, earnings clocked in at $1.39 a share, 93% higher than the year-earlier tally (58% above the like 2019 figure) and well ahead of our $0.90 forecast.

We look for the momentum to continue. Even as America's successful vaccination drive continues and more-normal spending patterns emerge, we think that some shifts from the pandemic will be longer lasting, including a greater focus on the home. Additionally, with environmental stewardship growing increasingly mainstream, we expect to see greater demand for higher-efficiency systems, especially because of the aging stock of installed HVAC systems. Given these factors and the impressive March-period performance, we've raised our 2021 earnings estimate by $1.25 a share, to $8.50.

Watsco recently completed two acquisitions. The purchases should add about $350 million to annual sales and increase Watsco's reach in the Sunbelt and Midwest. Such purchases have been a hallmark of WSO's growth strategy, and it has proven adept at integration.

These shares have climbed sharply since our March full-page review. Their investment appeal remains broad, given their good marks for Timeliness and Safety and their generous dividend yield.

Matthew E. Spencer, CFA June 18, 2021

(A) Diluted earnings based off of earnings allocated to Watsco shareholders, which is net income less earnings attributed to noncontrolling interest. Excludes nonrecurring gains/(losses): '07, (7¢); '12, (33¢); '17, 27¢. Next earnings report due late July. May not sum due to change in shares outstanding. **(B)** In millions. **(C)** Dividend historically paid mid-Jan., April, July, and Oct. Excludes $5/share special dividend paid 10/31/12. **(D)** Includes intangibles. In 2020: $582.4 million, $15.12/sh.

Company's Financial Strength	A+
Stock's Price Stability	95
Price Growth Persistence	80
Earnings Predictability	100

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WESTERN UNION NYSE-WU

RECENT PRICE 23.40 | P/E RATIO 11.4 (Trailing: 12.5 Median: 12.0) | RELATIVE P/E RATIO 0.59 | DIV'D YLD 4.0% | VALUE LINE

TIMELINESS 5 Lowered 7/9/21
SAFETY 3 New 11/24/06
TECHNICAL 3 Lowered 7/30/21
BETA .80 (1.00 = Market)

18-Month Target Price Range

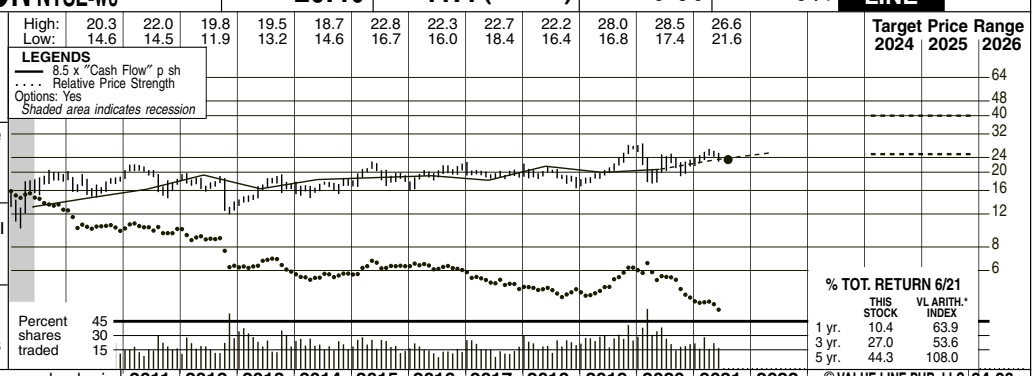
Low-High	Midpoint (% to Mid)
$19-$37	$28 (20%)

2024-26 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	40	(+50%)	*14%*
Low	25	(+5%)	*6%*

Institutional Decisions

	3Q2020	4Q2020	1Q2021
to Buy	244	237	259
to Sell	269	275	256
Hld's(000)	418396	410673	405280



The Western Union Company, a leader in global money transfer processes and services was spunoff in a 100% tax-free offering to the shareholders of First Data Corp. on September 29, 2006. Approximately 765 million shares of common stock were distributed.

CAPITAL STRUCTURE as of 3/31/21
Total Debt $3230.5 mill. **Due in 5 Yrs** $2000 mill.
LT Debt $3230.5 mill. **LT Interest** $50.0 mill.
(Total interest coverage: 7.6x)
(NMF of Cap'l)

Leases, Uncapitalized Annual rentals $44.1 mill.

Pension Assets 12/20 $280.6 mill.
Oblig. $240.7 mill.

Common Stock 409,252,217 shares
as of 4/30/21

MARKET CAP: $9.6 billion (Large Cap)

CURRENT POSITION ($MILL.)	2019	2020	3/31/21
Cash Assets	1450.5	1428.2	1502.6
Receivables	- -	- -	- -
Inventory	- -	- -	- -
Other	3296.7	3821.4	3638.2
Current Assets	4747.2	5249.6	5140.8
Accts Payable	601.9	500.9	513.3
Debt Due	- -	- -	- -
Other	4316.4	4750.3	4571.3
Current Liab.	4918.3	5251.2	5085.6

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '17-'19 to '24-'26
Revenues	5.5%	4.0%	*4.5%*
"Cash Flow"	5.0%	2.0%	*5.5%*
Earnings	3.5%	1.5%	*6.0%*
Dividends	32.0%	9.5%	*6.0%*
Book Value	- -	- -	*NMF*

Calendar	QUARTERLY REVENUES ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	1389	1411	1388	1401	5589.9
2019	1337	1340	1307	1308	5292.1
2020	1190	1115	1307	1272	4835.0
2021	1210	*1235*	*1315*	*1320*	*5080*
2022	*1250*	*1290*	*1370*	*1390*	*5300*

Calendar	EARNINGS PER SHARE A Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2018	.46	.47	.46	.48	1.87
2019	.39	.45	.49	.38	1.71
2020	.42	.39	.57	.45	1.87
2021	.44	*.48*	*.58*	*.55*	*2.05*
2022	*.52*	*.55*	*.62*	*.61*	*2.30*

Calendar	QUARTERLY DIVIDENDS PAID D Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2017	.175	.175	.175	.175	.70
2018	.190	.190	.190	.190	.76
2019	.200	.200	.200	.200	.80
2020	.225	.225	.225	.225	.90
2021	.235	.235			

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PUB. LLC	24-26
	8.87	9.90	10.04	10.75	10.92	11.26	12.04	12.67	12.66	11.76	*13.05*	*13.95*	Revenues per sh	*16.95*
	1.91	2.28	1.92	2.16	2.21	2.26	2.14	2.53	2.35	2.44	*2.75*	*3.00*	"Cash Flow" per sh	*3.55*
	1.57	1.74	1.43	1.59	1.62	1.66	1.60	1.87	1.71	1.87	*2.05*	*2.30*	Earnings per sh A	*2.75*
	.31	.43	.50	.50	.62	.64	.70	.76	.80	.90	*.94*	*1.02*	Div'ds Decl'd per sh D	*1.08*
	.09	.11	.15	.13	.19	.14	.15	.31	.12	.09	*.15*	*.15*	Cap'l Spending per sh	*.25*
	1.44	1.64	2.00	2.49	2.80	1.87	d1.07	d.70	d.09	.45	*.60*	*1.00*	Book Value per sh B	*2.45*
	619.40	572.10	552.20	521.50	502.40	481.50	459.00	441.20	418.00	411.20	*390.00*	*380.00*	Common Shs Outst'g C	*340.00*
	12.1	9.7	11.5	10.5	12.0	11.8	12.3	10.4	12.5	11.9	*Bold figures are Value Line estimates*		Avg Ann'l P/E Ratio	*12.0*
	.76	.62	.65	.55	.60	.62	.62	.56	.67	.61			Relative P/E Ratio	*.65*
	1.6%	2.5%	3.0%	3.0%	3.2%	3.3%	3.6%	3.9%	3.7%	4.0%			Avg Ann'l Div'd Yield	*3.3%*
	5491.4	5664.8	5542.0	5607.2	5483.7	5422.9	5524.3	5589.9	5292.1	4835.0	*5080*	*5300*	Revenues ($mill)	*5750*
	29.6%	28.6%	24.7%	25.2%	25.4%	24.3%	21.7%	24.8%	24.7%	25.5%	*26.5%*	*27.0%*	Operating Margin	*28.0%*
	192.6	246.1	262.8	271.9	270.2	263.2	262.9	264.7	257.7	225.6	*265*	*270*	Depreciation ($mill)	*280*
	992.7	1056.6	798.4	852.4	837.8	824.2	718.0	851.9	724.6	777.8	*800*	*870*	Net Profit ($mill)	*935*
	24.9%	12.8%	13.9%	12.0%	11.0%	9.7%	11.5%	14.1%	20.4%	13.0%	*16.0%*	*16.0%*	Income Tax Rate	*20.0%*
	18.1%	18.7%	14.4%	15.2%	15.3%	15.2%	13.0%	15.2%	13.7%	16.1%	*15.8%*	*16.5%*	Net Profit Margin	*16.2%*
	533.5	1002.0	1217.3	609.8	308.6	d618.4	d1185	d830.3	d465.8	d189.5	*125*	*275*	Working Cap'l ($mill)	*690*
	3583.2	4029.2	4213.0	3720.4	3225.6	2786.1	3033.6	3308.7	2984.3	2987.2	*3300*	*3400*	Long-Term Debt ($mill)	*3000*
	894.8	940.6	1104.7	1300.4	1404.9	902.2	d491.4	d309.8	d39.5	186.6	*240*	*375*	Shr. Equity ($mill) B	*835*
	24.2%	23.1%	16.9%	18.7%	19.9%	24.4%	31.0%	30.9%	27.2%	26.4%	*24.5%*	*24.5%*	Return on Total Cap'l	*NMF*
	110.9%	112.3%	72.3%	65.5%	59.6%	91.4%	- -	- -	NMF	416.8%	*NMF*	*NMF*	Return on Shr. Equity	*NMF*
	89.2%	85.3%	47.2%	45.2%	37.1%	56.8%	- -	- -	NMF	218.4%	*NMF*	*NMF*	Retained to Com Eq	*NMF*
	20%	24%	35%	31%	38%	38%	45%	40%	47%	48%	*46%*	*44%*	All Div'ds to Net Prof	*39%*

BUSINESS: The Western Union Company is a leader in global money movement and payment services. Services are available through a global network of roughly 510,000 agent locations in more than 200 countries. About 90% of locations are outside of the United States. Spunoff from First Data Corp. on 9/29/06. Consumer segment accounted for about 87% of '20 revenues; Business Solutions, 7%; other, 6%. International consisted of 65% of revenues. Employs 11,000. President & CEO: Hikmet Ersek. Chairman: Jack Greenberg. BlackRock owns 11.9% of common stock; Vanguard, 11.6%; Cap'l Research, 8.0% (4/21 proxy). Incorporated: DE. Address: 7001 East Belleview Avenue, Denver, Colorado 80237. Telephone: 866-405-5012. Internet: www.westernunion.com.

Western Union finally got some relief on the top line. Specifically, the provider of money movement and payment services posted first-quarter revenues of $1.21 billion, a 2% uptick from the year-ago tally. In fact, the turnaround comes after two years of top-line contraction. On the one hand, COVID-19 has pressured the company's retail money transfer business and restricted cross-border transactions in the Business Solutions unit. At the same time, the core Consumer-to-consumer segment (87% of first-quarter revenues) has been led by a step-up in digital money transfers, which grew 45%. Additionally, westernunion.com delivered its fourth-consecutive quarter with transaction growth above 50% and a 40% increase in average monthly active users. We note that shifts in consumer behavior to send money through digital channels were brought on by COVID-19. Management anticipates the June period delivered the strongest year-to-year growth rate as it cycled over the height of the pandemic. Going forward, the company is launching new payment solutions and implementing cloud migration in order to reduce project run times and enhance data analytic capabilities. Still, we expect some unevenness in year-to-year comparisons over the rest of 2021.

The company continues to see growth on the bottom line. Earnings increased 5%, to $0.44 a share, due to higher revenue, a lower tax rate, the absence of costs related to its restructuring program (completed last quarter), and share-repurchase activity. This was partially offset by increased growth-related investments and marketing costs. Moreover, the company continues to focus on improving functionality of its mobile applications and extending its range of services. Meanwhile, its three-year productivity programs, designed to drive efficiency, are expected to deliver $150 million in annual savings through 2022. For 2021, management outlined share net to land between $2.00 and $2.10. All told, we forecast earnings gains of 10% and 12%, respectively, for this year and next.

This stock is ranked Lowest (5) for year-ahead relative price performance. However, the stock offers decent recovery potential for 2024-2026.

Oriatal J. Haiby *August 6, 2021*

(A) Diluted earnings. Next earnings report due early Nov. Excludes nonrecurring gains/(losses): '11, 27¢; '12, (5¢); '16 ($d1.16); '17 (d$2.85); '19, 75¢.
(B) Includes intangibles. In 2020: $3071.6 million, $7.45 a share.
(C) In millions.
(D) Quarterly dividend initiated '09, Q4. '11, Q3 dividend paid during Q4. Dividends typically paid late March, June, September, and December.

Company's Financial Strength	B+
Stock's Price Stability	95
Price Growth Persistence	30
Earnings Predictability	100

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Duke Energy Kentucky, Inc.
Recommended Capital Structure and Cost Rates
for Ratemaking Purposes

Type Of Capital	Ratios (1)	Cost Rate		Weighted Cost Rate
Long-Term Debt	46.72%	3.84%	(1)	1.80%
Short-Term Debt	2.58%	1.67%	(1)	0.04%
Common Equity	50.70%	10.30%	(2)	5.22%
Total	100.00%			7.06%

Notes:

(1) Company-provided
(2) From page 2 of this Schedule.

Duke Energy Kentucky, Inc.
Brief Summary of Common Equity Cost Rate

Line No.	Principal Methods	Proxy Group of Thirteen Combination Electric and Gas Utilities
1.	Discounted Cash Flow Model (DCF) (1)	8.89%
2.	Risk Premium Model (RPM) (2)	10.80%
3.	Capital Asset Pricing Model (CAPM) (3)	12.12%
4.	Market Models Applied to Comparable Risk, Non-Price Regulated Companies (4)	12.37%
5.	Range of Common Equity Model Results	8.89% - 12.37%
6.	Size Risk Adjustment (5)	0.25%
7.	Credit Risk Adjustment (6)	0.08%
8.	Flotation Cost Adjustment (7)	0.11%
9.	Indicated Range of Common Equity Cost Rates after Adjustment	9.33% - 12.81%
10.	Recommended Common Equity Cost Rate	10.30%

Notes:
(1) From page 1 of Schedule DWD-2.
(2) From page 1 of Schedule DWD-3.
(3) From page 1 of Schedule DWD-4.
(4) From page 1 of Schedule DWD-6.
(5) Adjustment to reflect the Company's greater business risk due to its smaller size relative to the Utility Proxy Group as detailed in Mr. D'Ascendis' direct testimony.
(6) Company-specific risk adjustment to reflect Duke Energy Kentucky' greater risk due to its Baa1 long-term issuer rating relative to the average A3 long-term issuer rating of the Utility Proxy Group as detailed in Mr. D'Ascendis' Direct Testimony.
(7) From page 1 of Schedule DWD-8.

Duke Energy Kentucky, Inc.
Indicated Common Equity Cost Rate Using the Discounted Cash Flow Model for the
Proxy Group of Thirteen Combination Electric and Gas Utilities

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
Proxy Group of Thirteen Combination Electric and Gas Utilities	Average Dividend Yield (1)	Value Line Projected Five Year Growth in EPS (2)	Zack's Five Year Projected Growth Rate in EPS	Bloomberg's Five Year Projected Growth Rate in EPS	Yahoo! Finance Projected Five Year Growth in EPS	Average Projected Five Year Growth in EPS (3)	Adjusted Dividend Yield (4)	Indicated Common Equity Cost Rate (5)
Ameren Corporation	2.59 %	6.50 %	7.30 %	7.60 %	7.70 %	7.27 %	2.68 %	9.95 %
Avista Corporation	3.93	3.00	5.10	5.62	6.20	4.98	4.03	9.01
Black Hills Corporation	3.28	5.00	5.10	5.59	4.67	5.09	3.36	8.45
CMS Energy Corporation	2.82	7.50	6.90	5.87	6.18	6.61	2.91	9.52
Duke Energy Corporation	3.81	7.00	5.30	4.16	5.45	5.48	3.91	9.39
Consolidated Edison, Inc.	4.14	4.00	2.00	3.30	2.00	2.83	4.20	7.03
Eversource Energy	2.82	6.50	6.40	7.77	6.68	6.84	2.92	9.76
MGE Energy, Inc.	2.00	4.50	5.60	5.57	5.60	5.32	2.05	7.37
NorthWestern Corporation	3.97	3.00	4.80	5.16	4.50	4.37	4.06	8.43
Public Service Enterprise Group Incorporated	3.29	3.50	3.50	4.67	2.35	3.50	3.35	6.85
Southern Company	4.15	6.00	4.90	4.60	6.50	5.50	4.26	9.76
WEC Energy Group, Inc.	2.90	6.50	6.30	6.78	6.50	6.52	2.99	9.51
Xcel Energy Inc.	2.68	6.00	6.10	6.59	6.30	6.25	2.76	9.01
							Average	8.77 %
							Median	9.01 %
							Average of Mean and Median	8.89 %

NA= Not Available
NMF= Not Meaningful Figure

Notes:

(1) Indicated dividend at 08/31/2021 divided by the average closing price of the last 60 trading days ending 08/31/2021 for each company.
(2) From pages 2 through 14 of this Schedule.
(3) Average of columns 2 through 5 excluding negative growth rates.
(4) This reflects a growth rate component equal to one-half the conclusion of growth rate (from column 6) x column 1 to reflect the periodic payment of dividends (Gordon Model) as opposed to the continuous payment. Thus, for Ameren Corporation, 2.59% x (1+(1/2 x 7.27%)) = 2.68%.
(5) Column 6 + column 7.

Source of Information:

Value Line Investment Survey
www.zacks.com Downloaded on 08/31/2021
www.yahoo.com Downloaded on 08/31/2021
Bloomberg Professional Services

Duke Energy Kentucky, Inc.
Summary of Risk Premium Models for the
Proxy Group of Thirteen Combination Electric and Gas Utilities

	Proxy Group of Thirteen Combination Electric and Gas Utilities	
Predictive Risk Premium Model (PRPM) (1)	11.07	%
Risk Premium Using an Adjusted Total Market Approach (2)	10.52	
Average	10.80	%

Notes:
(1) From page 2 of this Schedule.
(2) From page 3 of this Schedule.

Duke Energy Kentucky, Inc.
Indicated ROE
Derived by the Predictive Risk Premium Model (1)

	[1]	[2]	[3]	[4]	[5]	[6]	[7]
Proxy Group of Thirteen Combination Electric and Gas Utilities	LT Average Predicted Variance	Spot Predicted Variance	Recommended Variance (2)	GARCH Coefficient	Predicted Risk Premium (3)	Risk-Free Rate (4)	Indicated ROE (5)
Ameren Corporation	0.23%	0.32%	0.28%	2.0383	7.07%	2.70%	9.77%
Avista Corporation	0.47%	0.64%	0.55%	0.9944	6.76%	2.70%	9.46%
Black Hills Corporation	0.43%	0.34%	0.39%	1.5669	7.58%	2.70%	10.28%
CMS Energy Corporation	0.54%	0.38%	0.46%	1.6320	9.39%	2.70%	12.09%
Duke Energy Corporation	0.31%	0.31%	0.31%	1.8669	7.17%	2.70%	9.87%
Consolidated Edison, Inc.	0.46%	0.40%	0.43%	1.5466	8.28%	2.70%	10.98%
Eversource Energy	0.31%	0.30%	0.30%	1.6900	6.26%	2.70%	8.96%
MGE Energy, Inc.	0.24%	0.23%	0.24%	2.6171	7.80%	2.70%	10.50%
NorthWestern Corporation	0.34%	0.26%	0.30%	2.3747	8.89%	2.70%	11.59%
Public Service Enterprise Group Incorporate	0.30%	0.35%	0.33%	2.4071	9.96%	2.70%	12.66%
Southern Company	1.28%	0.34%	0.81%	0.9780	9.93%	2.70%	12.63%
WEC Energy Group, Inc.	0.23%	0.30%	0.26%	3.0098	9.81%	2.70%	12.51%
Xcel Energy Inc.	0.28%	0.34%	0.31%	2.8250	11.03%	2.70%	13.73%
						Average	11.16%
						Median	10.98%
						Average of Mean and Median	11.07%

Notes:

(1) The Predictive Risk Premium Model uses historical data to generate a predicted variance and a GARCH coefficient. The historical data used are the equity risk premiums for the first available trading month as reported by Bloomberg Professional Service.

(2) Given current market conditions, I recommend using average of the the long-term average predicted variance and the spot variance.

(3) (1+(Column [3] * Column [4])^12) - 1.

(4) From note 2 on page 2 of Schedule DWD-4.

(5) Column [5] + Column [6].

Duke Energy Kentucky, Inc.
Indicated Common Equity Cost Rate
Through Use of a Risk Premium Model
Using an Adjusted Total Market Approach

Line No.		Proxy Group of Thirteen Combination Electric and Gas Utilities	
1.	Prospective Yield on Aaa Rated Corporate Bonds (1)	3.41	%
2.	Adjustment to Reflect Yield Spread Between Aaa Rated Corporate Bonds and A2 Rated Public Utility Bonds	0.38	(2)
3.	Adjusted Prospective Yield on A2 Rated Public Utility Bonds	3.79	%
4.	Adjustment to Reflect Bond Rating Difference of Proxy Group	0.08	(3)
5.	Adjusted Prospective Bond Yield	3.87	%
6.	Equity Risk Premium (4)	6.65	
7.	Risk Premium Derived Common Equity Cost Rate	10.52	%

Notes:
(1) Consensus forecast of Moody's Aaa Rated Corporate bonds from Blue Chip Financial Forecasts (see pages 10 and 11 of this Schedule).
(2) The average yield spread of A2 rated public utility bonds over Aaa rated corporate bonds of 0.38% from page 4 of this Schedule.
(3) Adjustment to reflect the A3 Moody's LT issuer rating of the Utility Proxy Group as shown on page 5 of this Exhibit. The 0.08% upward adjustment is derived by taking 1/3 of the spread between A2 and Baa2 Public Utility Bonds (1/3 * 0.25% = 0.08%) as derived from page 4 of this Schedule.
(4) From page 7 of this Schedule.

Duke Energy Kentucky, Inc.
Interest Rates and Bond Spreads for
Moody's Corporate and Public Utility Bonds

Selected Bond Yields - Moody's

	[1] Aaa Rated Corporate Bond	[2] A2 Rated Public Utility Bond	[3] Baa2 Rated Public Utility Bond
Aug-2021	2.55 %	2.95 %	3.19 %
Jul-2021	2.57	2.95	3.20
Jun-2021	2.79	3.16	3.41
Average	2.64 %	3.02 %	3.27 %

Selected Bond Spreads

A2 Rated Public Utility Bonds Over Aaa Rated Corporate Bonds: 0.38 % (1)

Baa2 Rated Public Utility Bonds Over A2 Rated Public Utility Bonds: 0.25 % (2)

Notes:
(1) Column [2] - Column [1].
(2) Column [3] - Column [2].

Source of Information:
Bloomberg Professional Service

Duke Energy Kentucky, Inc.
Comparison of Long-Term Issuer Ratings for
Proxy Group of Thirteen Combination Electric and Gas Utilities

	Moody's		Standard & Poor's	
	Long-Term Issuer Rating		Long-Term Issuer Rating	
	August 2021		August 2021	
Proxy Group of Thirteen Combination Electric and Gas Utilities	Long-Term Issuer Rating (1)	Numerical Weighting (2)	Long-Term Issuer Rating (1)	Numerical Weighting (2)
Ameren Corporation	A3	7.0	BBB+	8.0
Avista Corporation	Baa3	10.0	NR	- -
Black Hills Corporation	A3	7.0	BBB+	8.0
CMS Energy Corporation	Baa1	8.0	A-	7.0
Duke Energy Corporation	A3	7.0	BBB+	8.0
Consolidated Edison, Inc.	Baa1/Baa2	8.5	A-	7.0
Eversource Energy	A3	7.0	A-	7.0
MGE Energy, Inc.	A1	5.0	AA-	4.0
NorthWestern Corporation	Baa2	9.0	BBB	9.0
Public Service Enterprise Group Incorporated	A2	6.0	A-	7.0
Southern Company	A3	7.0	A-	7.0
WEC Energy Group, Inc.	A2	6.0	A-	7.0
Xcel Energy Inc.	A3	7.0	A-	7.0
Average	A3	7.3	A-	7.2

Notes:

(1) Ratings are that of the average of each company's utility operating subsidiaries.
(2) From page 6 of this Schedule.

Source Information: Moody's Investors Service
Standard & Poor's Global Utilities Rating Service

Numerical Assignment for
Moody's and Standard & Poor's Bond Ratings

Moody's Bond Rating	Numerical Bond Weighting	Standard & Poor's Bond Rating
Aaa	1	AAA
Aa1	2	AA+
Aa2	3	AA
Aa3	4	AA-
A1	5	A+
A2	6	A
A3	7	A-
Baa1	8	BBB+
Baa2	9	BBB
Baa3	10	BBB-
Ba1	11	BB+
Ba2	12	BB
Ba3	13	BB-
B1	14	B+
B2	15	B
B3	16	B-

Duke Energy Kentucky, Inc.
Judgment of Equity Risk Premium for
Proxy Group of Thirteen Combination Electric and Gas Utilities

Line No.		Proxy Group of Thirteen Combination Electric and Gas Utilities
1.	Calculated equity risk premium based on the total market using the beta approach (1)	8.55 %
2.	Mean equity risk premium based on a study using the holding period returns of public utilities with A rated bonds (2)	5.62
3.	Predicted Equity Risk Premium Based on Regression Analysis of 1986 Fully-Litigated Natural Gas and Electric Distribution Utility Rate Cases (3)	5.78
4.	Average equity risk premium	6.65 %

Notes: (1) From page 8 of this Schedule.
(2) From page 12 of this Schedule.
(3) From page 13 of this Schedule.

Duke Energy Kentucky, Inc.
Derivation of Equity Risk Premium Based on the Total Market Approach
Using the Beta for the
Proxy Group of Thirteen Combination Electric and Gas Utilities

Line No.	Equity Risk Premium Measure	Proxy Group of Thirteen Combination Electric and Gas Utilities
	Ibbotson-Based Equity Risk Premiums:	
1.	Ibbotson Equity Risk Premium (1)	5.92 %
2.	Regression on Ibbotson Risk Premium Data (2)	8.87
3.	Ibbotson Equity Risk Premium based on PRPM (3)	7.88
4.	Equity Risk Premium Based on Value Line Summary and Index (4)	5.54
5.	Equity Risk Premium Based on Value Line S&P 500 Companies (5)	11.64
6.	Equity Risk Premium Based on Bloomberg S&P 500 Companies (6)	14.76
7.	Conclusion of Equity Risk Premium	9.10 %
8.	Adjusted Beta (7)	0.94
9.	Forecasted Equity Risk Premium	8.55 %

Notes provided on page 9 of this Schedule.

Notes:

(1) Based on the arithmetic mean historical monthly returns on large company common stocks from Ibbotson® SBBI® 2021 Market Report minus the arithmetic mean monthly yield of Moody's average Aaa and Aa corporate bonds from 1928-2020.

(2) This equity risk premium is based on a regression of the monthly equity risk premiums of large company common stocks relative to Moody's average Aaa and Aa rated corporate bond yields from 1928-2020 referenced in Note 1 above.

(3) The Predictive Risk Premium Model (PRPM) is discussed in the accompanying direct testimony. The Ibbotson equity risk premium based on the PRPM is derived by applying the PRPM to the monthly risk premiums between Ibbotson large company common stock monthly returns and average Aaa and Aa corporate monthly bond yields, from January 1928 through August 2021.

(4) The equity risk premium based on the Value Line Summary and Index is derived by subtracting the average consensus forecast of Aaa corporate bonds of 3.41% (from page 3 of this Exhibit) from the projected 3-5 year total annual market return of 8.95% (described fully in note 1 on page 2 of Schedule DWD-4).

(5) Using data from Value Line for the S&P 500, an expected total return of 15.05% was derived based upon expected dividend yields and long-term earnings growth estimates as a proxy for capital appreciation. Subtracting the average consensus forecast of Aaa corporate bonds of 3.41% results in an expected equity risk premium of 11.64%.

(6) Using data from the Bloomberg Professional Service for the S&P 500, an expected total return of 18.17% was derived based upon expected dividend yields and long-term earnings growth estimates as a proxy for capital appreciation. Subtracting the average consensus forecast of Aaa corporate bonds of 3.41% results in an expected equity risk premium of 14.76%.

(7) Average of mean and median beta from Schedule DWD-4.

Sources of Information:

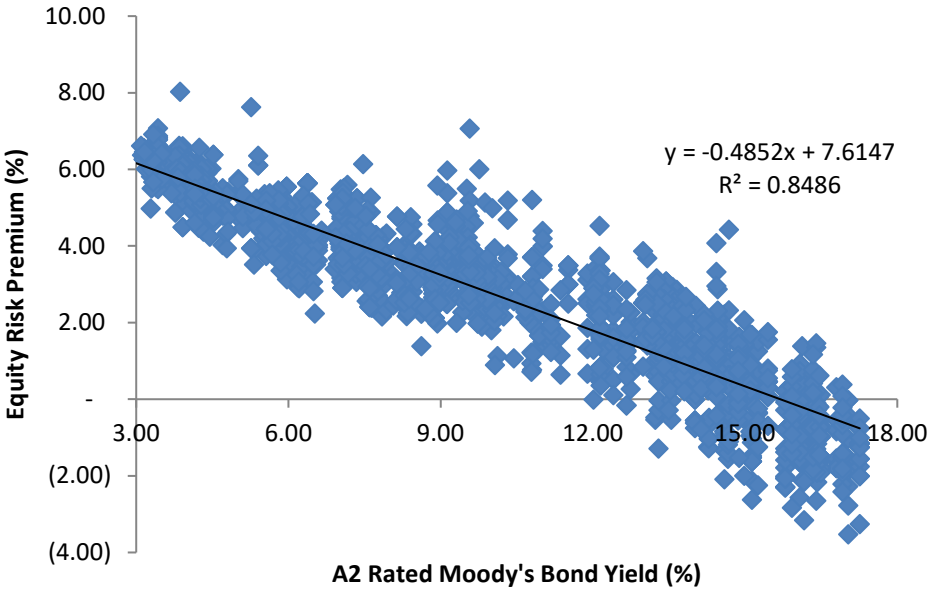
Stocks, Bonds, Bills, and Inflation - 2021 SBBI Yearbook, John Wiley & Sons, Inc.
Industrial Manual and Mergent Bond Record Monthly Update.
Value Line Summary and Index
Blue Chip Financial Forecasts, September 1, 2021 and June 1, 2021
Bloomberg Professional Service

Duke Energy Kentucky, Inc.
Derivation of Mean Equity Risk Premium Based Studies
Using Holding Period Returns and
Projected Market Appreciation of the S&P Utility Index

Line No.		Implied Equity Risk Premium
	Equity Risk Premium based on S&P Utility Index Holding Period Returns (1):	
1.	Historical Equity Risk Premium	4.16 %
2.	Regression of Historical Equity Risk Premium (2)	6.51
3.	Forecasted Equity Risk Premium Based on PRPM (3)	4.94
4.	Forecasted Equity Risk Premium based on Projected Total Return on the S&P Utilities Index (Value Line Data) (4)	7.15
5.	Forecasted Equity Risk Premium based on Projected Total Return on the S&P Utilities Index (Bloomberg Data) (5)	5.32
6.	Average Equity Risk Premium (6)	5.62 %

Notes:
(1) Based on S&P Public Utility Index monthly total returns and Moody's Public Utility Bond average monthly yields from 1928-2020. Holding period returns are calculated based upon income received (dividends and interest) plus the relative change in the market value of a security over a one-year holding period.
(2) This equity risk premium is based on a regression of the monthly equity risk premiums of the S&P Utility Index relative to Moody's A2 rated public utility bond yields from 1928 - 2020 referenced in note 1 above.
(3) The Predictive Risk Premium Model (PRPM) is applied to the risk premium of the monthly total returns of the S&P Utility Index and the monthly yields on Moody's A2 rated public utility bonds from January 1928 - August 2021.
(4) Using data from Value Line for the S&P Utilities Index, an expected return of 10.94% was derived based on expected dividend yields and long-term growth estimates as a proxy for market appreciation. Subtracting the expected A2 rated public utility bond yield of 3.79%, calculated on line 3 of page 3 of this Schedule results in an equity risk premium of 7.15%. (10.94% - 3.79% = 7.15%).
(5) Using data from Bloomberg Professional Service for the S&P Utilities Index, an expected return of 9.11% was derived based on expected dividend yields and long-term growth estimates as a proxy for market appreciation. Subtracting the expected A2 rated public utility bond yield of 3.79%, calculated on line 3 of page 3 of this Schedule results in an equity risk premium of 5.32%. (9.11% - 3.79% = 5.32%)
(6) Average of lines 1 through 5.

Duke Energy Kentucky, Inc.
Prediction of Equity Risk Premiums Relative to
Moody's A2 Rated Utility Bond Yields



Constant	Slope	Prospective A2 Rated Utility Bond (1)	Prospective Equity Risk Premium
7.614683 %	-0.48522	3.79 %	5.78 %

Notes:
(1) From line 3 of page 3 of this Schedule.

Source of Information:
Regulatory Research Associates
Bloomberg Professional Services

Duke Energy Kentucky, Inc.
Indicated Common Equity Cost Rate Through Use
of the Traditional Capital Asset Pricing Model (CAPM) and Empirical Capital Asset Pricing Model (ECAPM)

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
Proxy Group of Thirteen Combination Electric and Gas Utilities	Value Line Adjusted Beta	Bloomberg Adjusted Beta	Average Beta	Market Risk Premium (1)	Risk-Free Rate (2)	Traditional CAPM Cost Rate	ECAPM Cost Rate	Indicated Common Equity Cost Rate (3)
Ameren Corporation	0.80	0.95	0.88	9.93 %	2.70 %	11.44 %	11.73 %	11.59 %
Avista Corporation	0.95	0.99	0.97	9.93	2.70	12.33	12.41	12.37
Black Hills Corporation	1.00	1.23	1.11	9.93	2.70	13.72	13.45	13.58
CMS Energy Corporation	0.80	0.98	0.89	9.93	2.70	11.54	11.81	11.67
Duke Energy Corporation	0.90	0.98	0.94	9.93	2.70	12.03	12.18	12.11
Consolidated Edison, Inc.	0.75	0.79	0.77	9.93	2.70	10.34	10.92	10.63
Eversource Energy	0.90	1.06	0.98	9.93	2.70	12.43	12.48	12.45
MGE Energy, Inc.	0.75	0.78	0.76	9.93	2.70	10.25	10.84	10.54
NorthWestern Corporation	0.95	1.27	1.11	9.93	2.70	13.72	13.45	13.58
Public Service Enterprise Group Incorporate	0.95	1.09	1.02	9.93	2.70	12.83	12.78	12.80
Southern Company	0.95	1.11	1.03	9.93	2.70	12.93	12.85	12.89
WEC Energy Group, Inc.	0.80	0.98	0.89	9.93	2.70	11.54	11.81	11.67
Xcel Energy Inc.	0.80	0.99	0.89	9.93	2.70	11.54	11.81	11.67
Mean			0.94			12.05 %	12.19 %	12.12 %
Median			0.94			12.03 %	12.18 %	12.11 %
Average of Mean and Median			0.94			12.04 %	12.19 %	12.12 %

Notes on page 2 of this Schedule.

Duke Energy Kentucky, Inc.
Notes to Accompany the Application of the CAPM and ECAPM

Notes:

(1) The market risk premium (MRP) is derived by using six different measures from three sources: Ibbotson, Value Line, and Bloomberg as illustrated below:

Historical Data MRP Estimates:

Measure 1: Ibbotson Arithmetic Mean MRP (1926-2020)

Arithmetic Mean Monthly Returns for Large Stocks 1926-2020:	12.20	%
Arithmetic Mean Income Returns on Long-Term Government Bonds:	5.05	
MRP based on Ibbotson Historical Data:	7.15	%

Measure 2: Application of a Regression Analysis to Ibbotson Historical Data
(1926-2020) 9.57 %

Measure 3: Application of the PRPM to Ibbotson Historical Data:
(January 1926 - August 2021) 8.77 %

Value Line MRP Estimates:

Measure 4: Value Line Projected MRP (Thirteen weeks ending September 03, 2021)

Total projected return on the market 3-5 years hence*:	8.95	%
Projected Risk-Free Rate (see note 2):	2.70	
MRP based on Value Line Summary & Index:	6.25	%

*Forcasted 3-5 year capital appreciation plus expected dividend yield

Measure 5: Value Line Projected Return on the Market based on the S&P 500

Total return on the Market based on the S&P 500:	15.05	%
Projected Risk-Free Rate (see note 2):	2.70	
MRP based on Value Line data	12.35	%

Measure 6: Bloomberg Projected MRP

Total return on the Market based on the S&P 500:	18.17	%
Projected Risk-Free Rate (see note 2):	2.70	
	15.47	%

Average of Value Line, Ibbotson, and Bloomberg MRP: 9.93 %

(2) For reasons explained in the direct testimony, the appropriate risk-free rate for cost of capital purposes is the average forecast of 30 year Treasury Bonds per the consensus of nearly 50 economists reported in Blue Chip Financial Forecasts. (See pages 10 and 11 of Schedule DWD-3.) The projection of the risk-free rate is illustrated below:

Third Quarter 2021	2.10	%
Fourth Quarter 2021	2.20	
First Quarter 2022	2.30	
Second Quarter 2022	2.50	
Third Quarter 2022	2.50	
Fourth Quarter 2022	2.60	
2023-2027	3.50	
2028-2032	3.90	
	2.70	%

(3) Average of Column 6 and Column 7.

Sources of Information:
Value Line Summary and Index
Blue Chip Financial Forecasts, September 1, 2021 and June 1, 2021
Stocks, Bonds, Bills, and Inflation - 2021 SBBI Yearbook, John Wiley & Sons, Inc.
Bloomberg Professional Services

Duke Energy Kentucky, Inc.
Basis of Selection of Comparable Risk
Domestic Non-Price Regulated Companies

Proxy Group of Thirteen Combination Electric and Gas Utilities	[1] Value Line Adjusted Beta	[2] Unadjusted Beta	[3] Residual Standard Error of the Regression	[4] Standard Deviation of Beta
Ameren Corporation	0.80	0.69	2.6359	0.0658
Avista Corporation	0.95	0.90	3.7652	0.0939
Black Hills Corporation	1.00	0.95	2.8708	0.0716
CMS Energy Corporation	0.80	0.64	2.8457	0.0710
Duke Energy Corporation	0.85	0.77	2.7562	0.0688
Consolidated Edison, Inc.	0.75	0.60	3.2682	0.0815
Eversource Energy	0.90	0.84	3.0312	0.0756
MGE Energy, Inc.	0.75	0.57	2.8206	0.0704
NorthWestern Corporation	0.95	0.89	2.8009	0.0699
Public Service Enterprise Group Incorporate	0.90	0.84	2.3742	0.0592
Southern Company	0.95	0.89	2.7077	0.0676
WEC Energy Group, Inc.	0.80	0.65	3.2683	0.0815
Xcel Energy Inc.	0.80	0.66	2.7280	0.0681
Average	0.86	0.76	2.9133	0.0727

Beta Range (+/- 2 std. Devs. of Beta)	0.61	0.91
2 std. Devs. of Beta	0.15	
Residual Std. Err. Range (+/- 2 std. Devs. of the Residual Std. Err.)	2.6573	3.1693
Std. dev. of the Res. Std. Err.	0.1280	
2 std. devs. of the Res. Std. Err.	0.2560	

Source of Information: Valueline Proprietary Database, June 2021

Duke Energy Kentucky, Inc.
Proxy Group of Non-Price Regulated Companies
Comparable in Total Risk to the
Proxy Group of Thirteen Combination Electric and Gas Utilities

Proxy Group of Forty-Three Non-Price Regulated Companies	[1] VL Adjusted Beta	[2] Unadjusted Beta	[3] Residual Standard Error of the Regression	[4] Standard Deviation of Beta
Abbott Labs.	0.12	0.84	0.6078	3.4583
Analog Devices	0.09	1.02	0.6219	3.4727
Assurant Inc.	0.12	1.01	0.5966	3.5125
Smith (A.O.)	0.10	1.00	0.5685	3.2989
Becton, Dickinson	0.08	0.57	0.4746	3.2851
Brown-Forman 'B'	0.13	0.97	0.5985	3.3705
Broadridge Fin'l	0.09	0.83	0.5298	3.2593
CACI Int'l	0.14	1.00	0.5966	3.7223
Cerner Corp.	0.09	0.89	0.6100	3.3666
Chemed Corp.	0.09	0.92	0.5507	3.1865
Cooper Cos.	0.15	0.94	0.6403	3.4996
CSW Industrials	0.12	1.05	0.5893	3.4707
Quest Diagnostics	0.07	0.97	0.5090	3.3960
Lauder (Estee)	0.11	1.01	0.6233	3.6454
Exponent, Inc.	0.12	0.96	0.5662	3.5846
Hershey Co.	0.06	0.85	0.5666	3.2380
Ingredion Inc.	0.08	0.93	0.5910	3.5598
Hunt (J.B.)	0.08	0.94	0.6043	3.5954
J&J Snack Foods	0.10	0.81	0.5891	3.6511
Henry (Jack) & Assoc	0.10	0.88	0.5307	3.3357
ManTech Int'l 'A'	0.09	1.13	0.5271	3.6422
McCormick & Co.	0.06	0.70	0.5218	3.2606
Monster Beverage	0.12	0.97	0.5310	3.5565
Altria Group	0.06	0.91	0.5877	3.6422
MSCI Inc.	0.16	0.93	0.5895	3.6748
Motorola Solutions	0.07	0.96	0.5881	3.3703
Northrop Grumman	0.07	0.79	0.5285	3.3936
Old Dominion Freight	0.10	0.98	0.5826	3.6733
PerkinElmer Inc.	0.11	0.80	0.5601	3.6651
Post Holdings	0.10	0.90	0.5952	3.6615
RLI Corp.	0.12	0.91	0.4840	3.4699
Rollins, Inc.	0.12	0.69	0.5234	3.4648
Sherwin-Williams	0.11	0.99	0.6230	3.3939
Selective Ins. Group	0.10	0.99	0.5556	3.5914
Sirius XM Holdings	0.32	1.12	0.6107	3.5984
Synopsys, Inc.	0.13	1.02	0.6187	3.6759
Texas Instruments	0.09	0.89	0.5790	3.2727
AMERCO	0.14	1.08	0.6391	3.4618
United Parcel Serv.	0.11	0.83	0.4686	3.4044
VeriSign Inc.	0.09	0.77	0.5940	3.3146
Waters Corp.	0.06	0.85	0.6126	3.5251
Watsco, Inc.	0.08	0.80	0.5551	3.2888
Western Union	0.06	1.07	0.5200	3.1795
Average	0.10	0.92	0.5700	3.4700
Proxy Group of Thirteen Combination Electric and Gas Utilities	0.86	0.76	2.9133	0.0727

Source of Information: Valueline Proprietary Database, June 2021

Duke Energy Kentucky, Inc.
Summary of Cost of Equity Models Applied to
Proxy Group of Forty-Three Non-Price Regulated Companies
Comparable in Total Risk to the
Proxy Group of Thirteen Combination Electric and Gas Utilities

Principal Methods	Proxy Group of Forty-Three Non-Price Regulated Companies
Discounted Cash Flow Model (DCF) (1)	12.48 %
Risk Premium Model (RPM) (2)	12.46
Capital Asset Pricing Model (CAPM) (3)	11.86
Mean	12.27 %
Median	12.46 %
Average of Mean and Median	12.37 %

Notes:
(1) From page 2 of this Schedule.
(2) From page 3 of this Schedule.
(3) From page 6 of this Schedule.

Duke Energy Kentucky, Inc.
DCF Results for the Proxy Group of Non-Price-Regulated Companies Comparable in Total Risk to the
Proxy Group of Thirteen Combination Electric and Gas Utilities

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
Proxy Group of Forty-Three Non-Price Regulated Companies	Average Dividend Yield	Value Line Projected Five Year Growth in EPS	Zack's Five Year Projected Growth Rate in EPS	Bloomberg's Five Year Projected Growth Rate in EPS	Yahoo! Finance Projected Five Year Growth in EPS	Average Projected Five Year Growth Rate in EPS	Adjusted Dividend Yield	Indicated Common Equity Cost Rate (1)
Abbott Labs.	1.52 %	11.50 %	11.90 %	11.47 %	12.53 %	11.85 %	1.61 %	13.46 %
Analog Devices	1.66	8.50	12.30	12.80	13.52	11.78	1.76	13.54
Assurant Inc.	1.66	11.50	17.90	17.92	17.90	16.31	1.80	18.11
Smith (A.O.)	1.48	9.50	9.00	10.00	8.00	9.13	1.55	10.68
Becton, Dickinson	1.34	7.50	8.30	7.74	10.10	8.41	1.40	9.81
Brown-Forman 'B'	0.99	13.00	NA	NA	8.44	10.72	1.04	11.76
Broadridge Fin'l	1.52	8.50	NA	11.90	11.80	10.73	1.60	12.33
CACI Int'l	-	13.50	5.40	3.23	1.44	5.89	-	NA
Cerner Corp.	1.11	9.00	12.30	7.89	11.81	10.25	1.17	11.42
Chemed Corp.	0.30	9.00	7.50	7.54	7.55	7.90	0.31	8.21
Cooper Cos.	0.01	14.50	10.00	11.07	10.00	11.39	0.01	11.40
CSW Industrials	0.49	11.50	NA	15.00	12.00	12.83	0.52	13.35
Quest Diagnostics	1.78	7.00	26.50	(4.79)	(8.60)	16.75	1.93	18.68
Lauder (Estee)	0.66	11.00	11.30	15.00	18.71	14.00	0.71	14.71
Exponent, Inc.	0.80	12.00	NA	NA	15.00	13.50	0.85	14.35
Hershey Co.	2.04	5.50	7.70	7.60	8.82	7.41	2.12	9.53
Ingredion Inc.	2.87	7.50	NA	10.70	1.90	6.70	2.97	9.67
Hunt (J.B.)	0.72	8.00	15.00	14.65	20.50	14.54	0.77	15.31
J&J Snack Foods	1.50	10.00	NA	NA	6.00	8.00	1.56	9.56
Henry (Jack) & Assoc	1.08	9.50	11.00	12.47	9.64	10.65	1.14	11.79
ManTech Int'l 'A'	1.78	9.00	5.10	5.53	5.38	6.25	1.84	8.09
McCormick & Co.	1.57	6.00	6.80	6.35	6.50	6.41	1.62	8.03
Monster Beverage	-	11.50	14.70	12.17	14.85	13.31	-	NA
Altria Group	7.52	6.00	4.00	4.25	4.67	4.73	7.70	12.43
MSCI Inc.	0.73	16.00	NA	13.30	17.79	15.70	0.79	16.49
Motorola Solutions	1.27	7.00	9.00	12.40	13.73	10.53	1.34	11.87
Northrop Grumman	1.72	7.00	9.00	5.29	6.66	6.99	1.78	8.77
Old Dominion Freight	0.30	9.50	22.70	20.88	22.70	18.94	0.33	19.27
PerkinElmer Inc.	0.17	11.00	37.90	(3.57)	37.90	28.93	0.19	29.12
Post Holdings	-	9.50	NA	21.70	28.20	19.80	-	NA
RLI Corp.	0.94	12.00	NA	NA	9.80	10.90	0.99	11.89
Rollins, Inc.	0.88	11.50	NA	NA	8.20	9.85	0.92	10.77
Sherwin-Williams	0.77	10.50	12.60	1.80	11.87	9.19	0.81	10.00
Selective Ins. Group	1.25	9.50	12.40	12.44	10.00	11.09	1.32	12.41
Sirius XM Holdings	0.91	31.50	12.20	28.98	10.05	20.68	1.00	21.68
Synopsys, Inc.	-	13.00	16.00	15.89	16.00	15.22	-	NA
Texas Instruments	2.16	8.50	9.30	10.60	10.00	9.60	2.26	11.86
AMERCO	-	13.50	NA	NA	15.00	14.25	-	NA
United Parcel Serv.	2.02	10.50	11.70	14.39	15.89	13.12	2.15	15.27
VeriSign Inc.	-	8.50	NA	NA	8.00	8.25	-	NA
Waters Corp.	-	6.00	9.40	10.76	9.30	8.86	-	NA
Watsco, Inc.	2.76	8.00	NA	NA	15.00	11.50	2.92	14.42
Western Union	4.09	6.00	NA	3.35	9.19	6.18	4.22	10.40
							Mean	13.07 %
							Median	11.88 %
							Average of Mean and Median	12.48 %

NA= Not Available
NMF= Not Meaningful Figure

(1) The application of the DCF model to the domestic, non-price regulated comparable risk companies is identical to the application of the DCF to the Utility Proxy Group. The dividend yield is derived by using the 60 day average price and the spot indicated dividend as of August 31, 2021. The dividend yield is then adjusted by 1/2 the average projected growth rate in EPS, which is calculated by averaging the 5 year projected growth in EPS provided by Value Line, www.zacks.com, Bloomberg Professional Services, and www.yahoo.com (excluding any negative growth rates) and then adding that growth rate to the adjusted dividend yield.

Source of Information:
Value Line Investment Survey
www.zacks.com Downloaded on 08/31/2021
www.yahoo.com Downloaded on 08/31/2021
Bloomberg Professional Services

Duke Energy Kentucky, Inc.
Indicated Common Equity Cost Rate
Through Use of a Risk Premium Model
Using an Adjusted Total Market Approach

Line No.		Proxy Group of Forty-Three Non-Price Regulated Companies
1.	Prospective Yield on Baa2 Rated Corporate Bonds (1)	4.30 %
2.	Adjustment to Reflect Proxy Group Bond Rating (2)	(0.12)
3.	Prospective Bond Rating	4.18
4.	Equity Risk Premium (3)	8.28
5.	Risk Premium Derived Common Equity Cost Rate	12.46 %

Notes: (1) Average forecast of Baa2 corporate bonds based upon the consensus of nearly 50 economists reported in Blue Chip Financial Forecasts dated September 1, 2021 and June 1, 2021 (see pages 10 and 11 of Schedule DWD-3). The estimates are detailed below.

Third Quarter 2021	3.40 %
Fourth Quarter 2021	3.70
First Quarter 2022	3.90
Second Quarter 2022	4.00
Third Quarter 2022	4.10
Fourth Quarter 2022	4.20
2023-2027	5.30
2028-2032	5.80
Average	4.30 %

(2) To reflect the Baa1 average rating of the non-utility proxy group, the prosepctive yield on Baa corporate bonds must be adjusted downward by 1/3 of the spread between A2 and Baa2 corporate bond yields as shown below:

	A2 Corp. Bond Yield	Baa2 Corp. Bond Yield	Spread
Aug-2021	2.89 %	3.24 %	0.35 %
Jul-2021	2.89	3.24	0.35
Jun-2021	3.10	3.45	0.35
	Average yield spread		0.35 %
		1/3 of spread	0.12 %

(3) From page 5 of this Schedule.

Duke Energy Kentucky, Inc.
Comparison of Long-Term Issuer Ratings for the
Proxy Group of Forty-Three Non-Price Regulated Companies of Comparable risk to the
Proxy Group of Thirteen Combination Electric and Gas Utilities

	Moody's Long-Term Issuer Rating August 2021		Standard & Poor's Long-Term Issuer Rating August 2021	
Proxy Group of Forty-Three Non-Price Regulated Companies	Long-Term Issuer Rating	Numerical Weighting (1)	Long-Term Issuer Rating	Numerical Weighting (1)
Abbott Labs.	A2	6.0	A+	5.0
Analog Devices	Baa1	8.0	BBB	9.0
Assurant Inc.	Baa3	10.0	BBB	9.0
Smith (A.O.)	NA	--	NA	--
Becton, Dickinson	Baa3	10.0	BBB	9.0
Brown-Forman 'B'	A1	5.0	A-	7.0
Broadridge Fin'l	Baa1	8.0	BBB+	8.0
CACI Int'l	NA	--	BB+	11.0
Cerner Corp.	NA	--	NA	--
Chemed Corp.	WR	--	NR	--
Cooper Cos.	WR	--	NR	--
CSW Industrials	NA	--	NA	--
Quest Diagnostics	Baa2	9.0	BBB+	8.0
Lauder (Estee)	A1	5.0	A+	5.0
Exponent, Inc.	NA	--	NA	--
Hershey Co.	A1	5.0	A	6.0
Ingredion Inc.	Baa1	8.0	BBB	9.0
Hunt (J.B.)	Baa1	8.0	BBB+	8.0
J&J Snack Foods	NA	--	NA	--
Henry (Jack) & Assoc	NA	--	NA	--
ManTech Int'l 'A'	WR	--	BB+	11.0
McCormick & Co.	Baa2	9.0	BBB	9.0
Monster Beverage	NA	--	NA	--
Altria Group	A3	7.0	BBB	9.0
MSCI Inc.	Ba1	11.0	BB+	11.0
Motorola Solutions	Baa3	10.0	BBB-	10.0
Northrop Grumman	Baa1	8.0	BBB+	8.0
Old Dominion Freight	NA	--	NA	--
PerkinElmer Inc.	Baa3	10.0	BBB	9.0
Post Holdings	B2	15.0	B+	14.0
RLI Corp.	Baa2	9.0	BBB	9.0
Rollins, Inc.	NA	--	NA	--
Sherwin-Williams	Baa2	9.0	BBB	9.0
Selective Ins. Group	Baa2	9.0	BBB	9.0
Sirius XM Holdings	NA	--	BB	12.0
Synopsys, Inc.	NA	--	NA	--
Texas Instruments	A1	5.0	A+	5.0
AMERCO	WR	--	NR	--
United Parcel Serv.	A2	6.0	A-	7.0
VeriSign Inc.	Baa3	10.0	BBB	9.0
Waters Corp.	NA	--	NA	--
Watsco, Inc.	NA	--	NA	--
Western Union	Baa2	9.0	BBB	9.0
Average	Baa1	8.4	BBB	8.7

Notes:
(1) From page 6 of Schedule DWD-3.

Source of Information:
Bloomberg Professional Services

Duke Energy Kentucky, Inc.
Derivation of Equity Risk Premium Based on the Total Market Approach
Using the Beta for
Proxy Group of Forty-Three Non-Price Regulated Companies of Comparable risk to the
Proxy Group of Thirteen Combination Electric and Gas Utilities

Line No.	Equity Risk Premium Measure	Proxy Group of Forty-Three Non-Price Regulated Companies
	Ibbotson-Based Equity Risk Premiums:	
1.	Ibbotson Equity Risk Premium (1)	5.92 %
2.	Regression on Ibbotson Risk Premium Data (2)	8.87
3.	Ibbotson Equity Risk Premium based on PRPM (3)	7.88
4.	Equity Risk Premium Based on Value Line Summary and Index (4)	5.54
5	Equity Risk Premium Based on Value Line S&P 500 Companies (5)	11.64
6.	Equity Risk Premium Based on Bloomberg S&P 500 Companies (6)	14.76
7.	Conclusion of Equity Risk Premium	9.10 %
8.	Adjusted Beta (7)	0.91
9.	Forecasted Equity Risk Premium	8.28 %

Notes:
(1) From note 1 of page 9 of Schedule DWD-3.
(2) From note 2 of page 9 of Schedule DWD-3.
(3) From note 3 of page 9 of Schedule DWD-3.
(4) From note 4 of page 9 of Schedule DWD-3.
(5) From note 5 of page 9 of Schedule DWD-3.
(6) From note 6 of page 9 of Schedule DWD-3.
(7) Average of mean and median beta from page 6 of this Schedule.

Sources of Information:
Stocks, Bonds, Bills, and Inflation - 2021 SBBI Yearbook, John Wiley & Sons, Inc.
Value Line Summary and Index
Blue Chip Financial Forecasts, September 1, 2021 and June 1, 2021
Bloomberg Professional Services

Duke Energy Kentucky, Inc.
Traditional CAPM and ECAPM Results for the Proxy Group of Non-Price-Regulated Companies Comparable in Total Risk to the
Proxy Group of Thirteen Combination Electric and Gas Utilities

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
Proxy Group of Forty-Three Non-Price Regulated Companies	Value Line Adjusted Beta	Bloomberg Beta	Average Beta	Market Risk Premium (1)	Risk-Free Rate (2)	Traditional CAPM Cost Rate	ECAPM Cost Rate	Indicated Common Equity Cost Rate (3)
Abbott Labs.	0.90	0.84	0.87	9.93 %	2.70 %	11.34 %	11.66 %	11.50 %
Analog Devices	0.95	1.02	0.98	9.93	2.70	12.43	12.48	12.45
Assurant Inc.	0.90	1.01	0.95	9.93	2.70	12.13	12.26	12.19
Smith (A.O.)	0.85	1.00	0.93	9.93	2.70	11.93	12.11	12.02
Becton, Dickinson	0.75	0.57	0.66	9.93	2.70	9.25	10.10	9.67
Brown-Forman 'B'	0.90	0.97	0.93	9.93	2.70	11.93	12.11	12.02
Broadridge Fin'l	0.85	0.83	0.84	9.93	2.70	11.04	11.44	11.24
CACI Int'l	0.95	1.00	0.98	9.93	2.70	12.43	12.48	12.45
Cerner Corp.	0.90	0.89	0.89	9.93	2.70	11.54	11.81	11.67
Chemed Corp.	0.85	0.92	0.89	9.93	2.70	11.54	11.81	11.67
Cooper Cos.	0.95	0.94	0.95	9.93	2.70	12.13	12.26	12.19
CSW Industrials	0.90	1.05	0.98	9.93	2.70	12.43	12.48	12.45
Quest Diagnostics	0.80	0.97	0.88	9.93	2.70	11.44	11.74	11.59
Lauder (Estee)	0.95	1.01	0.98	9.93	2.70	12.43	12.48	12.45
Exponent, Inc.	0.90	0.96	0.93	9.93	2.70	11.93	12.11	12.02
Hershey Co.	0.85	0.85	0.85	9.93	2.70	11.14	11.51	11.33
Ingredion Inc.	0.90	0.93	0.91	9.93	2.70	11.73	11.96	11.85
Hunt (J.B.)	0.95	0.94	0.94	9.93	2.70	12.03	12.18	12.11
J&J Snack Foods	0.95	0.81	0.88	9.93	2.70	11.44	11.74	11.59
Henry (Jack) & Assoc	0.85	0.88	0.87	9.93	2.70	11.34	11.66	11.50
ManTech Int'l 'A'	0.85	1.13	0.99	9.93	2.70	12.53	12.55	12.54
McCormick & Co.	0.80	0.70	0.75	9.93	2.70	10.15	10.77	10.46
Monster Beverage	0.85	0.97	0.91	9.93	2.70	11.73	11.96	11.85
Altria Group	0.95	0.91	0.93	9.93	2.70	11.93	12.11	12.02
MSCI Inc.	0.95	0.93	0.94	9.93	2.70	12.03	12.18	12.11
Motorola Solutions	0.90	0.96	0.93	9.93	2.70	11.93	12.11	12.02
Northrop Grumman	0.85	0.79	0.82	9.93	2.70	10.84	11.29	11.06
Old Dominion Freight	0.90	0.98	0.94	9.93	2.70	12.03	12.18	12.11
PerkinElmer Inc.	0.90	0.80	0.85	9.93	2.70	11.14	11.51	11.33
Post Holdings	0.95	0.90	0.92	9.93	2.70	11.83	12.03	11.93
RLI Corp.	0.80	0.91	0.85	9.93	2.70	11.14	11.51	11.33
Rollins, Inc.	0.85	0.69	0.77	9.93	2.70	10.34	10.92	10.63
Sherwin-Williams	0.95	0.99	0.97	9.93	2.70	12.33	12.41	12.37
Selective Ins. Group	0.90	0.99	0.94	9.93	2.70	12.03	12.18	12.11
Sirius XM Holdings	0.95	1.12	1.04	9.93	2.70	13.03	12.93	12.98
Synopsys, Inc.	0.95	1.02	0.98	9.93	2.70	12.43	12.48	12.45
Texas Instruments	0.85	0.89	0.87	9.93	2.70	11.34	11.66	11.50
AMERCO	0.95	1.08	1.01	9.93	2.70	12.73	12.70	12.72
United Parcel Serv.	0.80	0.83	0.81	9.93	2.70	10.74	11.21	10.98
VeriSign Inc.	0.90	0.77	0.84	9.93	2.70	11.04	11.44	11.24
Waters Corp.	0.95	0.85	0.90	9.93	2.70	11.64	11.88	11.76
Watsco, Inc.	0.85	0.80	0.83	9.93	2.70	10.94	11.36	11.15
Western Union	0.80	1.07	0.93	9.93	2.70	11.93	12.11	12.02
		Mean	0.90			11.66 %	11.90 %	11.78 %
		Median	0.92			11.83 %	12.03 %	11.93 %
		Average of Mean and Median	0.91			11.75 %	11.97 %	11.86 %

Notes:
(1) From note 1 of page 2 of Schedule DWD-4.
(2) From note 2 of page 2 of Schedule DWD-4.
(3) Average of CAPM and ECAPM cost rates.

Duke Energy Kentucky, Inc.
Derivation of Investment Risk Adjustment Based upon
Ibbotson Associates' Size Premia for the Decile Portfolios of the NYSE/AMEX/NASDAQ

Line No.		[1] Market Capitalization on August 31, 2021 (1) (millions)	(times larger)		[2] Applicable Decile of the NYSE/AMEX/ NASDAQ (2)	[3] Applicable Size Premium (3)	[4] Spread from Applicable Size Premium (4)
1.	Duke Energy Kentucky, Inc.	$ 1,564.533			7	1.54%	
2.	Proxy Group of Thirteen Combination Electric and Gas Utilities	$ 26,662.656	17.0	x	2	0.49%	1.05%
			[A]		[B]	[C]	[D]

	Decile	Market Capitalization of Smallest Company (millions)	Market Capitalization of Largest Company (millions)	Size Premium (Return in Excess of CAPM)*
Largest	1	$ 29,025.803	$ 1,966,078.882	-0.22%
	2	13,178.743	28,808.073	0.49%
	3	6,743.361	13,177.828	0.71%
	4	3,861.858	6,710.676	0.75%
	5	2,445.693	3,836.536	1.09%
	6	1,591.865	2,444.745	1.37%
	7	911.586	1,591.765	1.54%
	8	451.955	911.103	1.46%
	9	190.019	451.800	2.29%
Smallest	10	2.194	189.831	5.01%

*From 2021 Duff & Phelps Cost of Capital Navigator

Notes:

(1) From page 2 of this Schedule.
(2) Gleaned from Columns [B] and [C] on the bottom of this page. The appropriate decile (Column [A]) corresponds to the market capitalization of the proxy group, which is found in Column [1].
(3) Corresponding risk premium to the decile is provided in Column [D] on the bottom of this page.
(4) Line No. 1 Column [3] – Line No. 2 Column [3]. For example, the 1.05% in Column [4], Line No. 2 is derived as follows 1.05% = 1.54% - 0.49%.

Duke Energy Kentucky, Inc.
Market Capitalization of Duke Energy Kentucky, Inc. and the
Proxy Group of Thirteen Combination Electric and Gas Utilities

Company	Exchange	[1] Total Common Equity at Fiscal Year End 2020 (millions)	[2] Closing Stock Market Price on August 31, 2021	[3] Market-to-Book Ratio on August 31, 2021 (1)	[4] Market Capitalization on August 31, 2021 (2) (millions)
Duke Energy Kentucky, Inc.		718.236 (3)	NA		
Based upon Proxy Group of Thirteen Combination Electric and Gas Utilities				217.8 (4)	$ 1,564.533 (5)
Proxy Group of Thirteen Combination Electric and Gas Utilities					
Ameren Corporation	NYSE			241.1 %	$ 22,404.565
Avista Corporation	NYSE			140.9	2,915.597
Black Hills Corporation	NYSE			167.9	4,464.568
CMS Energy Corporation	NYSE			320.5	18,575.526
Duke Energy Corporation	NYSE			174.3	80,483.543
Consolidated Edison, Inc.	NYSE			134.9	26,662.656
Eversource Energy	NYSE			217.8	31,178.754
MGE Energy, Inc.	NASDAQ			289.2	2,912.598
NorthWestern Corporation	NASDAQ			150.6	3,279.294
Public Service Enterprise Group Incorporated	NYSE			203.0	32,326.597
Southern Company	NYSE			246.9	69,651.540
WEC Energy Group, Inc.	NYSE			275.2	29,802.256
Xcel Energy Inc.	NASDAQ			250.2	37,017.520
Median				217.830 %	26,662.656

NA= Not Available

Notes: (1) Source: Bloomberg Professional Services
(2) Source: Bloomberg Professional Services
(3) Requested rate base multiplied by the requested common equity ratio.
(4) The market-to-book ratio of Duke Energy Kentucky, Inc. on August 31, 2021 is assumed to be equal to the market-to-book ratio of Proxy Group of Thirteen Combination Electric and Gas Utilities on August 31, 2021 as appropriate.
(5) Column [1] multiplied by Column [3].

Source of Information: Bloomberg Professional
yahoo.finance.com

Duke Energy Kentucky, Inc.
Derivation of the Flotation Cost Adjustment to the Cost of Common Equity

Equity Issuances since 2010

		[Column 1]	[Column 2]	[Column 3]	[Column 4]	[Column 5]	[Column 6]	[Column 7]	[Column 8]	[Column 9]	[Column 10]
Date of Offering	Transaction (1)	Shares Issued	Market Price per Share	Average Offering Price per Share	Market Pressure (2)	Total Offering Expense per Share	Net Proceeds per Share (3)	Gross Equity Issue before Costs (4)	Total Net Proceeds (5)	Total Flotation Costs (6)	Flotation Cost Percentage (7)
11/18/19	Equity Offering	28,750,000	$ 88.65	$ 85.99	$ 2.66	$ 0.021	$ 85.9694	$ 2,548,687,500	$ 2,471,620,500	$ 77,067,000	3.02%
03/06/18	Equity Offering	21,275,000	$ 75.86	$ 74.07	$ 1.79	$ 0.021	$ 74.0508	$ 1,613,921,500	$ 1,575,431,800	$ 38,489,700	2.38%
03/01/16	Equity Offering	10,637,500	$ 73.35	$ 69.84	$ 3.51	$ 0.038	$ 69.8024	$ 780,260,625	$ 742,523,000	$ 37,737,625	4.84%
								$ 4,942,869,625	$ 4,789,575,300	$ 153,294,325	3.10%

Flotation Cost Adjustment

	Average Dividend Yield	Average Projected EPS Growth Rate	Adjusted Dividend Yield	Average DCF Cost Rate Unadjusted for Flotation (8)	DCF Cost Rate Adjusted for Flotation (9)	Flotation Cost Adjustment (10)
Proxy Group of Thirteen Combination Electric and Gas Utilities	3.26 %	5.43 %	3.35 %	8.78 %	8.89 %	0.11 %

See page 2 of this Schedule for notes.

Source of Information: Company SEC filings

Utility Proxy Group	Proxy Company Exchange	CEM Proxy Group
AEE	NYSE	ABT
AVA	NYSE	ADI
BKH	NYSE	AIZ
CMS	NYSE	AOS
DUK	NYSE	BDX
ED	NYSE	BFB
ES	NYSE	BR
MGEE	NASDAQ	CACI
NWE	NASDAQ	CERN
PEG	NYSE	CHE
SO	NYSE	COO
WEC	NYSE	CSWI
XEL	NASDAQ	DGX
		EL
		EXPO
		HSY
		INGR
		JBHT
		JJSF
		JKHY
		MANT
		MKC
		MNST
		MO
		MSCI
		MSI
		NOC
		ODFL
		PKI
		POST
		RLI
		ROL
		SHW
		SIGI
		SIRI
		SNPS
		TXN
		UHAL
		UPS
		VRSN
		WAT
		WSO
		WU

Bond Index - Date	Aug-21	Jul-21	Jun-21
MOODUA Index	2.95	2.95	3.16
MOODUBAA Index	3.19	3.20	3.41
MOODCAAA Index	2.55	2.57	2.79
MOODCAA Index	2.73	2.71	2.91
MOODCA Index	2.89	2.89	3.10
MOODCBAA Index	3.24	3.24	3.45

Historical Risk Premium Data

Arithmetic Mean of Monthly Returns on Large Company Common Stocks (1928 - 2020)	11.94%
Arithmetic Mean of Moody's Aaa and Aa Corporate Bond Yields (1928 - 2020)	6.02%
Arithmetic Mean Holding Period Returns on the S&P Utility Index (1928 - 2020)	10.65%
Arithmetic Mean on Moody's A Rated Public Utility Bond Yields (1928 - 2020)	6.49%

		EPS Growth Rates				Beta			Annual Div.	Value Line Beta Calculation				Bond Ratings	
Ticker	Company Name	Zacks	Yahoo	Bloomberg	Value Line	Value Line	Bloomberg	Unadjusted		R Factor	Std. Error	Std. Dev Y	Std. Dev Beta	S&P	Moody's
AEE	Ameren Corporation	7.30%	7.70%	7.60%	6.50%	0.80	0.95	0.69	2.20	**0.5477**	**2.6359**	**3.1443**	**0.0658**	BBB+	A3
AVA	Avista Corporation	5.10%	6.20%	5.62%	3.00%	0.95	0.99	0.90	1.69	0.5117	3.7652	4.3737	0.0939	NR	Baa3
BKH	Black Hills Corporation	5.10%	4.67%	5.59%	5.00%	1.00	1.23	0.95	2.26	0.6381	2.8708	3.7212	0.0716	BBB+	A3
CMS	CMS Energy Corporation	6.90%	6.18%	5.87%	7.50%	0.80	0.98	0.64	1.74	0.4875	2.8457	3.2529	0.0710	A-	Baa1
DUK	Duke Energy Corporation	5.30%	5.45%	4.16%	7.00%	0.85	0.98	0.77	3.94	0.5701	2.7562	3.3483	0.0688	BBB+	A3
ED	Consolidated Edison, Inc.	2.00%	2.00%	3.30%	4.00%	0.75	0.79	0.60	3.10	0.4169	3.2682	3.5886	0.0815	A-	Baa1/Baa2
ES	Eversource Energy	6.40%	6.68%	7.77%	6.50%	0.90	1.06	0.84	2.41	0.5687	3.0312	3.6781	0.0756	A-	A3
MGEE	MGE Energy, Inc.	5.60%	5.60%	5.57%	4.50%	0.75	0.78	0.57	1.55	0.4525	2.8206	3.1569	0.0704	AA-	A1
NWE	NorthWestern Corporation	4.80%	4.50%	5.16%	3.00%	0.95	1.27	0.89	2.48	0.6230	2.8009	3.5738	0.0699	BBB	Baa2
PEG	Public Service Enterprise Group Incorpor	3.50%	2.35%	4.67%	3.50%	0.90	1.09	0.84	2.04	0.6617	2.3742	3.1604	0.0592	A-	A2
SO	Southern Company	4.90%	6.50%	4.60%	6.00%	0.95	1.11	0.89	2.64	0.6331	2.7077	3.4911	0.0676	A-	A3
WEC	WEC Energy Group, Inc.	6.30%	6.50%	6.78%	6.50%	0.80	0.98	0.65	2.71	0.4471	3.2683	3.6468	0.0815	A-	A2
XEL	Xcel Energy Inc.	6.10%	6.30%	6.59%	6.00%	0.80	0.99	0.66	1.83	0.5169	2.7280	3.1805	0.0681	A-	A3

S&P	Moody's			S&P	Moody's
BBB+	A3	Ameren Illinois Company	AEE	8.00	7.00
NR	Baa2	Illinois Power Company	AEE	NR	9.00
BBB+	Baa1	Union Electric Company	AEE	8.00	8.00
NR	A1	Central Illinois Light Co	AEE	NR	5.00
			AEE	8.00	7.25
NR	Baa3	Alaska Electric Light and Power Company	AVA	NR	10.00
BBB+	A3	Black Hills Power Inc.	BKH	8.00	7.00
A-	Baa1	Consumers Energy Co.	CMS	7.00	8.00
BBB+	A2	Duke Energy Carolinas	DUK	8.00	6.00
BBB+	A3	Duke Energy FL	DUK	8.00	7.00
BBB+	A2	Duke Energy IN	DUK	8.00	6.00
BBB+	Baa1	Duke Energy KY	DUK	8.00	8.00
BBB+	Baa1	Duke Energy OH	DUK	8.00	8.00
BBB+	A2	Duke Energy Progress	DUK	8.00	6.00
BBB+	NR	FL Progress Corp.	DUK	8.00	NR
BBB+	A3	Piedmont Gas	DUK	8.00	7.00
BBB+	Baa1	Progress Energy, Inc.	DUK	8.00	8.00
			DUK	8.00	7.00
A-	Baa1	Consolidated Edison Co. of New York Inc.	ED	7.00	8.00
A-	Baa2	Orange and Rockland Utilities Inc.	ED	7.00	9.00
A-	NR	Rockland Electric Co.	ED	7.00	NR
			ED	7.00	8.50
NR	A3	Aquarion Water Company of Connecticut	ES	NR	7.00
A-	Baa2	Aquarion Co.	ES	7.00	9.00
A	A3	Connecticut Light and Power	ES	6.00	7.00
A-	NR	Eversource Gas Company of Massachusetts	ES	7.00	NR
BBB+	Baa2	Eversource Gas Company of MA (Bay State	ES	8.00	9.00
A	A1	NSTAR Electric	ES	6.00	5.00
A-	NR	NSTAR Gas	ES	7.00	NR
A	A3	PSC of New Hampshire	ES	6.00	7.00
A-	Baa1	Yankee Gas Services Company	ES	7.00	8.00
				6.75	7.43
AA-	A1	Madison Gas and Electricity Company	MGEE	4.00	5.00
BBB	Baa2	Northwestern Corporation	NWE	9.00	9.00
A-	A2	Public Service Electric and Gas Co.	PEG	7.00	6.00
A	A1	Alabama Power Co.	SO	6.00	5.00
A-	NR	Atlanta Gas Light Company	SO	7.00	NR
A-	Baa1	Georgia Power Company	SO	7.00	8.00
A-	Baa1	Mississippi Power Company	SO	7.00	8.00
A-	WR	Southern Co Services	SO	7.00	NR
A-	NR	Southern Company Gas	SO	7.00	NR
			SO	6.83	7.00
A-	A2	The Peoples Gas Light and Coke Company	WEC	7.00	6.00
A-	A2	Wisconsin Electric Power Company	WEC	7.00	6.00
A-	A3	Wisconsin Gas LLC	WEC	7.00	7.00
A-	A2	Wisconsin Public Service Corporation	WEC	7.00	6.00
			WEC	7.00	6.25
A-	A2	NSP - MN	XEL	7.00	6.00
A-	A2	NSP - WI	XEL	7.00	6.00
A-	A3	PSC - CO	XEL	7.00	7.00
A-	Baa2	SPS	XEL	7.00	9.00
				7.00	7.00

	Tickers	AEE	AVA	BKH	CMS	DUK	ED	ES	MGEE	NWE	PEG	SO	WEC	XEL
	PX_LAST	AEE US Equity	AVA US Equit	BKH US Equi	CMS US Equi	DUK US Equi	ED US Equity	ES US Equity	MGEE US Ec	NWE US Eq	PEG US Equ	SO US Equit	WEC US Eq	XEL US Equity
1	8/31/2021	87.72	41.85	70.33	64.13	104.66	75.45	90.73	80.54	63.60	63.94	65.73	94.48	68.75
2	8/30/2021	88.49	41.60	70.66	64.48	104.79	75.70	91.05	80.81	63.64	64.24	65.75	95.02	69.03
3	8/27/2021	88.02	41.43	70.71	64.16	104.67	75.64	90.18	80.67	63.98	64.17	65.99	94.41	68.70
4	8/26/2021	87.62	41.17	70.21	63.84	104.85	75.22	90.29	79.78	62.95	63.79	66.14	94.38	68.30
5	8/25/2021	87.34	41.65	70.93	63.64	105.38	75.27	90.35	80.42	63.52	64.11	65.87	94.66	68.31
6	8/24/2021	87.14	41.87	70.84	63.54	105.15	75.02	90.88	80.94	63.41	63.81	65.73	94.45	68.29
7	8/23/2021	87.55	42.05	71.58	64.07	105.83	75.79	91.12	81.97	64.01	64.34	66.67	95.79	68.99
8	8/20/2021	89.59	42.56	72.59	64.81	107.21	76.95	92.11	82.46	64.57	64.95	67.32	97.59	70.61
9	8/19/2021	89.57	41.84	71.76	64.01	106.88	76.69	91.18	81.19	63.80	64.26	66.38	96.97	70.12
10	8/18/2021	89.28	41.96	71.84	63.82	107.05	76.60	90.22	80.78	63.64	64.00	66.01	96.46	69.33
11	8/17/2021	89.98	42.99	72.35	64.27	107.71	77.24	90.84	81.04	64.94	64.73	66.45	97.36	69.95
12	8/16/2021	89.61	42.26	72.39	63.87	107.81	78.25	90.81	81.22	63.79	64.82	66.38	97.18	69.77
13	8/13/2021	88.84	41.75	72.05	63.46	106.00	77.74	90.44	81.09	63.15	64.72	65.53	96.21	69.04
14	8/12/2021	87.92	41.90	71.21	63.00	105.69	77.25	89.60	80.57	62.51	63.85	65.72	95.60	68.79
15	8/11/2021	88.16	42.19	71.39	63.19	107.14	77.12	89.92	80.67	62.73	63.53	65.63	96.41	69.07
16	8/10/2021	87.68	42.14	70.24	62.94	106.90	76.40	88.92	80.06	62.24	62.90	65.21	96.10	68.71
17	8/9/2021	87.71	42.40	69.91	63.26	106.15	76.07	88.95	79.81	62.35	63.83	64.85	96.33	69.12
18	8/6/2021	86.86	42.67	70.25	63.27	106.96	75.52	88.96	80.52	62.59	63.86	64.70	96.31	69.08
19	8/5/2021	86.13	43.13	70.59	63.21	107.93	75.32	89.03	79.73	62.91	63.90	64.78	96.48	69.24
20	8/4/2021	85.25	42.77	69.96	63.26	106.73	74.87	88.17	79.48	61.94	63.27	64.03	95.83	68.95
21	8/3/2021	85.61	44.24	69.93	63.24	106.61	74.85	87.80	79.44	62.47	63.51	64.13	95.61	68.70
22	8/2/2021	84.81	42.96	68.03	62.66	106.19	74.50	87.30	78.49	61.92	62.86	64.08	94.70	68.56
23	7/30/2021	83.92	42.83	67.65	61.79	105.11	73.77	86.27	78.12	61.99	62.23	63.87	94.14	68.25
24	7/29/2021	84.27	43.35	68.24	62.35	105.68	74.52	86.39	78.31	62.46	63.07	64.46	94.58	68.79
25	7/28/2021	84.19	43.65	68.37	62.26	105.65	74.59	86.38	78.17	63.54	62.50	63.99	94.44	68.70
26	7/27/2021	84.99	43.31	68.06	63.22	106.36	75.53	87.60	78.07	62.72	62.85	64.54	96.50	69.46
27	7/26/2021	83.25	43.33	67.49	61.98	104.58	73.96	85.82	76.77	62.64	61.55	63.73	94.16	68.31
28	7/23/2021	83.39	43.18	67.66	62.08	104.47	74.18	86.22	77.00	62.99	61.22	63.86	94.03	68.27
29	7/22/2021	82.49	42.66	66.33	61.23	102.92	73.04	84.81	75.85	61.48	60.21	62.98	92.47	67.24
30	7/21/2021	82.30	42.90	67.12	61.04	103.16	72.78	83.78	76.34	61.94	60.05	62.82	92.10	67.06
31	7/20/2021	83.98	43.54	67.92	61.94	103.74	73.57	85.94	77.01	62.27	60.67	62.95	93.82	68.16
32	7/19/2021	83.98	42.90	66.37	61.45	103.89	73.77	86.23	76.29	61.17	60.19	62.79	94.23	68.27
33	7/16/2021	85.06	43.00	68.48	62.01	104.76	74.93	87.36	78.03	62.83	61.74	63.11	95.44	69.13
34	7/15/2021	84.07	42.74	67.87	61.51	103.94	74.36	86.11	77.16	62.81	61.19	62.67	94.75	68.72
35	7/14/2021	83.22	41.97	66.46	60.48	102.70	73.19	84.04	75.75	61.56	60.39	61.89	93.15	68.09
36	7/13/2021	82.63	41.79	66.09	60.00	101.53	72.63	82.93	75.08	61.13	59.83	61.34	91.89	67.58
37	7/12/2021	82.88	42.56	66.81	60.36	101.53	73.36	82.50	76.00	61.42	60.70	61.80	92.37	67.84
38	7/9/2021	81.92	42.53	66.66	60.31	100.66	73.30	82.63	76.22	60.83	60.49	61.47	91.84	67.67
39	7/8/2021	82.06	42.19	65.61	60.27	100.56	73.36	82.61	75.38	60.28	60.54	61.55	92.21	67.50
40	7/7/2021	82.32	42.69	66.00	60.15	100.37	73.34	82.70	75.24	61.09	60.85	61.69	91.79	67.69
41	7/6/2021	81.40	42.59	65.49	59.81	99.83	72.94	81.04	74.25	60.19	60.30	61.64	90.70	67.07
42	7/2/2021	80.70	42.56	65.77	59.91	99.51	72.47	80.70	74.53	60.42	60.10	61.53	90.02	66.82
43	7/1/2021	80.70	42.97	66.21	60.07	99.55	72.54	79.86	75.18	60.96	60.24	61.48	90.19	67.03
44	6/30/2021	80.04	42.67	65.63	59.08	98.72	71.72	80.24	74.44	60.22	59.74	60.51	88.95	65.88
45	6/29/2021	79.91	42.88	65.63	58.85	98.12	72.05	80.13	74.11	59.70	59.49	60.46	89.02	65.71
46	6/28/2021	81.92	43.48	67.46	60.01	100.01	73.82	81.46	75.42	60.95	60.24	61.49	90.96	67.06
47	6/25/2021	81.74	43.57	67.98	60.13	99.72	73.87	80.29	76.00	61.10	59.86	61.53	90.10	67.10
48	6/24/2021	81.25	43.34	67.59	59.10	99.07	73.43	79.28	75.16	60.92	59.37	60.98	89.08	66.26
49	6/23/2021	81.69	43.32	67.13	58.54	99.23	73.47	78.74	74.54	60.98	59.19	61.47	88.97	66.23
50	6/22/2021	82.52	44.40	68.58	58.61	100.40	74.46	80.22	75.21	61.63	59.62	62.08	90.17	66.75
51	6/21/2021	83.39	44.40	69.55	58.53	101.31	75.19	80.69	75.71	62.29	60.06	62.50	90.67	67.14
52	6/18/2021	82.11	43.33	67.59	58.12	99.61	74.49	79.92	73.87	61.29	59.34	61.45	89.43	66.60
53	6/17/2021	84.49	44.78	69.93	59.51	102.42	76.28	82.69	76.51	63.84	61.20	63.35	92.38	68.35
54	6/16/2021	83.91	45.17	69.95	59.67	101.81	76.22	81.97	76.65	63.90	61.23	62.98	91.93	67.76
55	6/15/2021	86.14	45.44	69.82	60.50	103.22	77.75	83.77	76.99	64.72	62.35	64.32	93.10	69.19
56	6/14/2021	85.84	44.94	69.44	60.30	102.53	77.75	82.55	76.10	64.25	61.84	63.79	92.69	69.08
57	6/11/2021	85.79	44.95	69.67	60.67	101.93	77.23	82.81	76.73	65.11	61.80	63.85	92.90	69.54
58	6/10/2021	85.85	45.21	69.15	60.24	101.71	77.04	83.12	75.50	64.85	61.63	63.88	93.13	69.63
59	6/9/2021	85.36	44.85	69.05	59.93	101.39	76.88	82.56	75.50	64.66	61.13	63.63	92.91	69.35
60	6/8/2021	84.75	44.80	68.77	60.33	100.59	76.29	81.15	75.53	63.71	61.01	63.44	91.93	68.80

PX_LAST	AEE AEE US Equity	AVA AVA US Equity	BKH BKH US Equity	CMS CMS US Equity	DUK DUK US Equity	ED ED US Equity	ES ES US Equity	MGEE MGEE US Equit	NWE NWE US Equity	PEG PEG US Equity	SO SO US Equity	WEC WEC US Equity	XEL XEL US Equity
8/31/2021	87.72	41.85	70.33	64.13	104.66	75.45	90.73	80.54	63.60	63.94	65.73	94.48	68.75
8/30/2021	88.49	41.60	70.66	64.48	104.79	75.70	91.05	80.81	63.64	64.24	65.75	95.02	69.03
8/27/2021	88.02	41.43	70.71	64.16	104.67	75.64	90.18	80.67	63.98	64.17	65.99	94.41	68.70
8/26/2021	87.62	41.17	70.21	63.84	104.85	75.22	90.29	79.78	62.95	63.79	66.14	94.38	68.30
8/25/2021	87.34	41.65	70.93	63.64	105.38	75.27	90.35	80.42	63.52	64.11	65.87	94.66	68.31
8/24/2021	87.14	41.87	70.84	63.54	105.15	75.02	90.88	80.94	63.41	63.81	65.73	94.45	68.29
8/23/2021	87.55	42.05	71.58	64.07	105.83	75.79	91.12	81.97	64.01	64.34	66.67	95.79	68.99
8/20/2021	89.59	42.56	72.59	64.81	107.21	76.95	92.11	82.46	64.57	64.95	67.32	97.59	70.61
8/19/2021	89.57	41.84	71.76	64.01	106.88	76.69	91.18	81.19	63.80	64.26	66.38	96.97	70.12
8/18/2021	89.28	41.96	71.84	63.82	107.05	76.60	90.22	80.78	63.64	64.00	66.01	96.46	69.33
8/17/2021	89.98	42.99	72.35	64.27	107.71	77.24	90.84	81.04	64.94	64.73	66.45	97.36	69.95
8/16/2021	89.61	42.26	72.39	63.87	107.81	78.25	90.81	81.22	63.79	64.82	66.38	97.18	69.77
8/13/2021	88.84	41.75	72.05	63.46	106.00	77.74	90.44	81.09	63.15	64.72	65.53	96.21	69.04
8/12/2021	87.92	41.90	71.21	63.00	105.69	77.25	89.60	80.57	62.51	63.85	65.72	95.60	68.79
8/11/2021	88.16	42.19	71.39	63.19	107.14	77.12	89.92	80.67	62.73	63.53	65.63	96.41	69.07
8/10/2021	87.68	42.14	70.24	62.94	106.90	76.40	88.92	80.06	62.24	62.90	65.21	96.10	68.71
8/9/2021	87.71	42.40	69.91	63.26	106.15	76.07	88.95	79.81	62.35	63.83	64.85	96.33	69.12
8/6/2021	86.86	42.67	70.25	63.27	106.96	75.52	88.96	80.52	62.59	63.86	64.70	96.31	69.08
8/5/2021	86.13	43.13	70.59	63.21	107.93	75.32	89.03	79.73	62.91	63.90	64.78	96.48	69.24
8/4/2021	85.25	42.77	69.96	63.26	106.73	74.87	88.17	79.48	61.94	63.27	64.03	95.83	68.95
8/3/2021	85.61	44.24	69.93	63.24	106.61	74.85	87.80	79.44	62.47	63.51	64.13	95.61	68.70
8/2/2021	84.81	42.96	68.03	62.66	106.19	74.50	87.30	78.49	61.92	62.86	64.08	94.70	68.56
7/30/2021	83.92	42.83	67.65	61.79	105.11	73.77	86.27	78.12	61.99	62.23	63.87	94.14	68.25
7/29/2021	84.27	43.35	68.24	62.35	105.68	74.52	86.39	78.31	62.46	63.07	64.46	94.58	68.79
7/28/2021	84.19	43.65	68.37	62.26	105.65	74.59	86.38	78.17	63.54	62.50	63.99	94.44	68.70
7/27/2021	84.99	43.31	68.06	63.22	106.36	75.53	87.60	78.07	62.72	62.85	64.54	96.50	69.46
7/26/2021	83.25	43.33	67.49	61.98	104.58	73.96	85.82	76.77	62.64	61.55	63.73	94.16	68.31
7/23/2021	83.39	43.18	67.66	62.08	104.47	74.18	86.22	77.00	62.99	61.22	63.86	94.03	68.27
7/22/2021	82.49	42.66	66.33	61.23	102.92	73.04	84.81	75.85	61.48	60.21	62.98	92.47	67.24
7/21/2021	82.30	42.90	67.12	61.04	103.16	72.78	83.78	76.34	61.94	60.05	62.82	92.10	67.06
7/20/2021	83.98	43.54	67.92	61.94	103.74	73.57	85.94	77.01	62.27	60.67	62.95	93.82	68.16
7/19/2021	83.98	42.90	66.37	61.45	103.89	73.77	86.23	76.29	61.17	60.19	62.79	94.23	68.27
7/16/2021	85.06	43.00	68.48	62.01	104.76	74.93	87.36	78.03	62.83	61.74	63.11	95.44	69.13
7/15/2021	84.07	42.74	67.87	61.51	103.94	74.36	86.11	77.16	62.81	61.19	62.67	94.75	68.72
7/14/2021	83.22	41.97	66.46	60.48	102.70	73.19	84.04	75.75	61.56	60.39	61.89	93.15	68.09
7/13/2021	82.63	41.79	66.09	60.00	101.53	72.63	82.93	75.08	61.13	59.83	61.34	91.89	67.58
7/12/2021	82.88	42.56	66.81	60.36	101.53	73.36	82.50	76.00	61.42	60.70	61.80	92.37	67.84
7/9/2021	81.92	42.53	66.66	60.31	100.66	73.30	82.63	76.22	60.83	60.49	61.47	91.84	67.67
7/8/2021	82.06	42.19	65.61	60.27	100.56	73.36	82.61	75.38	60.28	60.54	61.55	92.21	67.50
7/7/2021	82.32	42.69	66.00	60.15	100.37	73.34	82.70	75.24	61.09	60.85	61.69	91.79	67.69
7/6/2021	81.40	42.59	65.49	59.81	99.83	72.94	81.04	74.25	60.19	60.30	61.64	90.70	67.07
7/2/2021	80.70	42.56	65.77	59.91	99.51	72.47	80.70	74.53	60.42	60.10	61.53	90.02	66.82
7/1/2021	80.70	42.97	66.21	60.07	99.55	72.54	79.86	75.18	60.96	60.24	61.48	90.19	67.03
6/30/2021	80.04	42.67	65.63	59.08	98.72	71.72	80.24	74.44	60.22	59.74	60.51	88.95	65.88
6/29/2021	79.91	42.88	65.63	58.85	98.12	72.05	80.13	74.11	59.70	59.49	60.46	89.02	65.71
6/28/2021	81.92	43.48	67.46	60.01	100.01	73.82	81.46	75.42	60.95	60.24	61.49	90.96	67.06
6/25/2021	81.74	43.57	67.98	60.13	99.72	73.87	80.29	76.00	61.10	59.86	61.53	90.10	67.10
6/24/2021	81.25	43.34	67.59	59.10	99.07	73.43	79.28	75.16	60.92	59.37	60.98	89.08	66.26
6/23/2021	81.69	43.32	67.13	58.54	99.23	73.47	78.74	74.54	60.98	59.19	61.47	88.97	66.23
6/22/2021	82.52	44.40	68.58	58.61	100.40	74.46	80.22	75.21	61.63	59.62	62.08	90.17	66.75
6/21/2021	83.39	44.40	69.55	58.53	101.31	75.19	80.69	75.71	62.29	60.06	62.50	90.67	67.14
6/18/2021	82.11	43.33	67.59	58.12	99.61	74.49	79.92	73.87	61.29	59.34	61.45	89.43	66.60
6/17/2021	84.49	44.78	69.93	59.51	102.42	76.28	82.69	76.51	63.84	61.20	63.35	92.38	68.35
6/16/2021	83.91	45.17	69.95	59.67	101.81	76.22	81.97	76.65	63.90	61.23	62.98	91.93	67.76
6/15/2021	86.14	45.44	69.82	60.50	103.22	77.75	83.77	76.99	64.72	62.35	64.32	93.10	69.19
6/14/2021	85.84	44.94	69.44	60.30	102.53	77.75	82.55	76.10	64.25	61.84	63.79	92.69	69.08
6/11/2021	85.79	44.95	69.67	60.67	101.93	77.23	82.81	76.73	65.11	61.80	63.85	92.90	69.54
6/10/2021	85.85	45.21	69.15	60.24	101.71	77.04	83.12	75.50	64.85	61.63	63.88	93.13	69.63
6/9/2021	85.36	44.85	69.05	59.93	101.39	76.88	82.56	75.50	64.66	61.13	63.63	92.91	69.35
6/8/2021	84.75	44.80	68.77	60.33	100.59	76.29	81.15	75.53	63.71	61.01	63.44	91.93	68.80
Average Price	84.86	43.00	68.82	61.61	103.51	74.96	85.54	77.67	62.53	61.96	63.68	93.52	68.29
Indicated Dividend	2.20	1.69	2.26	1.74	3.94	3.10	2.41	1.550	2.480	2.040	2.640	2.710	1.830
Indicated Dividend Yield	2.59%	3.93%	3.28%	2.82%	3.81%	4.14%	2.82%	2.00%	3.97%	3.29%	4.15%	2.90%	2.68%

		EPS Growth Rates				Beta			Annual Div.	Bond Ratings		Value Line Beta Calculation			
Ticker	Company Name	Zacks	Yahoo	Bloomberg	Value Line	Value Line	Bloomberg	Unadjusted		Moody's	S&P	R Factor	Std. Error	Std. Dev Y	Std. Dev Beta
ABT	Abbott Labs.	11.90%	12.53%	11.47%	11.50%	0.90	0.841	0.84	1.80	A2	A+	0.6078	2.7516	3.4583	0.0687
ADI	Analog Devices	12.30%	13.52%	12.80%	8.50%	0.95	1.019	0.87	2.76	Baa1	BBB	0.6219	2.7247	3.4727	0.0680
AIZ	Assurant Inc.	17.90%	17.90%	17.92%	11.50%	0.90	1.009	0.84	2.64	Baa3	BBB	0.5966	2.8245	3.5125	0.0705
AOS	Smith (A.O.)	9.00%	8.00%	10.00%	9.50%	0.85	1.001	0.75	1.04	NA	NA	0.5685	2.7193	3.2989	0.0678
BDX	Becton, Dickinson	8.30%	10.10%	7.74%	7.50%	0.80	0.567	0.62	3.32	Baa3	BBB	0.4746	2.8971	3.2851	0.0723
BFB	Brown-Forman 'B'	NA	8.44%	NA	13.00%	0.90	0.966	0.81	0.72	A1	A-	0.5985	2.7054	3.3705	0.0675
BR	Broadridge Fin'l	NA	11.80%	11.90%	8.50%	0.80	0.832	0.69	2.56	Baa1	BBB+	0.5298	2.7697	3.2593	0.0691
CACI	CACI Int'l	5.40%	1.44%	3.23%	13.50%	0.95	1.000	0.89	-	NA	BB+	0.5966	2.9930	3.7223	0.0747
CERN	Cerner Corp.	12.30%	11.81%	7.89%	9.00%	0.90	0.889	0.82	0.88	NA	NA	0.6100	2.6729	3.3666	0.0667
CHE	Chemed Corp.	7.50%	7.55%	7.54%	9.00%	0.85	0.920	0.70	1.44	WR	NR	0.5507	2.6649	3.1865	0.0665
COO	Cooper Cos.	10.00%	10.00%	11.07%	14.50%	0.95	0.943	0.90	0.06	WR	NR	0.6403	2.6935	3.4996	0.0672
CSWI	CSW Industrials	NA	12.00%	15.00%	11.50%	0.90	1.052	0.82	0.60	NA	NA	0.5893	2.8095	3.4707	0.0701
DGX	Quest Diagnostics	26.50%	-8.60%	-4.79%	7.00%	0.80	0.965	0.69	2.48	Baa2	BBB+	0.5090	2.9288	3.3960	0.0731
EL	Lauder (Estee)	11.30%	18.71%	15.00%	11.00%	0.95	1.008	0.91	2.12	A1	A+	0.6233	2.8562	3.6454	0.0713
EXPO	Exponent, Inc.	NA	15.00%	NA	12.00%	0.90	0.962	0.81	0.80	NA	NA	0.5662	2.9605	3.5846	0.0739
HSY	Hershey Co.	7.70%	8.82%	7.60%	5.50%	0.85	0.845	0.74	3.60	A1	A	0.5666	2.6733	3.2380	0.0667
INGR	Ingredion Inc.	NA	1.90%	10.70%	7.50%	0.90	0.928	0.84	2.56	Baa1	BBB	0.5910	2.8771	3.5598	0.0718
JBHT	Hunt (J.B.)	15.00%	20.50%	14.65%	8.00%	0.95	0.937	0.87	1.20	Baa1	BBB+	0.6043	2.8702	3.5954	0.0716
JJSF	J&J Snack Foods	NA	6.00%	NA	10.00%	0.95	0.807	0.86	2.53	NA	NA	0.5891	2.9559	3.6511	0.0738
JKHY	Henry (Jack) & Assoc	11.00%	9.64%	12.47%	9.50%	0.85	0.882	0.71	1.84	NA	NA	0.5307	2.8328	3.3357	0.0707
MANT	ManTech Int'l 'A'	5.10%	5.38%	5.53%	9.00%	0.85	1.127	0.77	1.52	WR	BB+	0.5271	3.1011	3.6422	0.0774
MKC	McCormick & Co.	6.80%	6.50%	6.35%	6.00%	0.80	0.697	0.68	1.36	Baa2	BBB	0.5218	2.7869	3.2606	0.0695
MNST	Monster Beverage	14.70%	14.85%	12.17%	11.50%	0.85	0.970	0.76	-	NA	NA	0.5310	3.0195	3.5565	0.0753
MO	Altria Group	4.00%	4.67%	4.25%	6.00%	0.95	0.905	0.86	3.60	A3	BBB	0.5877	2.9525	3.6422	0.0737
MSCI	MSCI Inc.	NA	17.79%	13.30%	16.00%	0.95	0.925	0.87	4.16	Ba1	BB+	0.5895	2.9742	3.6748	0.0742
MSI	Motorola Solutions	9.00%	13.73%	12.40%	7.00%	0.90	0.962	0.79	2.84	Baa3	BBB-	0.5881	2.7312	3.3703	0.0681
NOC	Northrop Grumman	9.00%	6.66%	5.29%	7.00%	0.85	0.788	0.72	6.28	Baa1	BBB+	0.5285	2.8865	3.3936	0.0720
ODFL	Old Dominion Freight	22.70%	22.70%	20.88%	9.50%	0.95	0.984	0.86	0.80	NA	NA	0.5826	2.9913	3.6733	0.0746
PKI	PerkinElmer Inc.	37.90%	37.90%	-3.57%	11.00%	0.90	0.797	0.82	0.28	Baa3	BBB	0.5601	3.0422	3.6651	0.0759
POST	Post Holdings	NA	28.20%	21.70%	9.50%	0.95	0.897	0.87	-	B2	B+	0.5952	2.9481	3.6615	0.0736
RLI	RLI Corp.	NA	9.80%	NA	12.00%	0.80	0.907	0.67	1.00	Baa2	BBB	0.4840	3.0423	3.4699	0.0759
ROL	Rollins, Inc.	NA	8.20%	NA	11.50%	0.85	0.686	0.73	0.32	NA	NA	0.5234	2.9580	3.4648	0.0738
SHW	Sherwin-Williams	12.60%	11.87%	1.80%	10.50%	0.95	0.992	0.85	2.20	Baa2	BBB	0.6230	2.6598	3.3939	0.0664
SIGI	Selective Ins. Group	12.40%	10.00%	12.44%	9.50%	0.90	0.990	0.80	1.00	Baa2	BBB	0.5556	2.9918	3.5914	0.0746
SIRI	Sirius XM Holdings	12.20%	10.05%	28.98%	31.50%	0.95	1.125	0.88	0.06	NA	BB	0.6107	2.8551	3.5984	0.0712
SNPS	Synopsys, Inc.	16.00%	16.00%	15.89%	13.00%	0.95	1.017	0.91	-	NA	NA	0.6187	2.8936	3.6759	0.0722
TXN	Texas Instruments	9.30%	10.00%	10.60%	8.50%	0.85	0.893	0.76	4.08	A1	A+	0.5790	2.6736	3.2727	0.0667
UHAL	AMERCO	NA	15.00%	NA	13.50%	0.95	1.077	0.89	NA	WR	NR	0.6391	2.6678	3.4618	0.0666
UPS	United Parcel Serv.	11.70%	15.89%	14.39%	10.50%	0.80	0.830	0.64	4.08	A2	A-	0.4686	3.0134	3.4044	0.0752
VRSN	VeriSign Inc.	NA	8.00%	NA	8.50%	0.90	0.770	0.79	NA	Baa3	BBB	0.5940	2.6717	3.3146	0.0667
WAT	Waters Corp.	9.40%	9.30%	10.76%	6.00%	0.95	0.847	0.87	-	NA	NA	0.6126	2.7917	3.5251	0.0697
WSO	Watsco, Inc.	NA	15.00%	NA	8.00%	0.85	0.802	0.73	7.80	NA	NA	0.5551	2.7408	3.2888	0.0684
WU	Western Union	NA	9.19%	3.35%	6.00%	0.80	1.068	0.66	0.94	Baa2	BBB	0.5200	2.7210	3.1795	0.0679

Lookup	Tickers	ABT	ADI	AIZ	AOS	BDX	BFB	BR	CACI	CERN	CHE	COO	CSWI	DGX
Reference	PX_LAST	ABT US Equity	ADI US Equity	AIZ US Equity	AOS US Equity	BDX US Equity	BFB US Equity	BR US Equity	CACI US Equity	CERN US Equity	CHE US Equity	COO US Equity	CSWI US Equity	DGX US Equity
1	8/31/2021	126.37	162.95	170.11	72.72	251.70	70.22	172.22	257.54	76.35	476.70	450.71	132.79	152.83
2	8/30/2021	125.94	166.98	168.61	72.94	250.47	70.40	172.33	256.74	76.22	472.31	449.38	135.20	150.77
3	8/27/2021	124.59	166.48	169.36	72.38	248.50	70.17	171.58	257.74	76.84	473.68	446.58	137.04	149.14
4	8/26/2021	125.47	167.36	167.22	71.74	247.53	69.68	169.81	256.61	76.07	466.29	446.07	131.35	149.59
5	8/25/2021	124.74	164.00	168.81	72.25	247.00	69.39	170.98	257.31	76.51	465.50	446.74	133.32	149.71
6	8/24/2021	125.50	165.85	166.74	71.81	247.87	69.80	171.27	256.50	77.19	465.00	447.79	133.28	149.53
7	8/23/2021	125.84	169.63	166.69	71.29	249.85	69.50	172.50	257.54	77.92	466.19	444.84	134.25	150.53
8	8/20/2021	126.32	166.64	165.13	71.06	249.30	69.54	174.54	259.65	78.96	466.16	444.18	131.27	152.00
9	8/19/2021	125.72	166.79	163.54	70.33	247.88	68.83	173.73	257.79	79.62	459.88	442.04	129.12	151.60
10	8/18/2021	123.93	165.78	165.03	70.31	248.31	68.51	173.67	257.53	79.36	451.98	432.61	128.25	149.13
11	8/17/2021	125.69	166.30	167.48	70.96	253.48	69.98	176.80	260.02	80.78	456.46	438.59	127.22	152.28
12	8/16/2021	124.66	171.07	166.64	72.64	249.61	69.89	176.99	255.22	80.15	456.22	439.54	129.66	151.35
13	8/13/2021	123.06	170.08	165.00	71.96	246.79	69.23	174.36	251.96	79.63	457.28	436.99	129.85	148.22
14	8/12/2021	122.81	168.58	165.94	71.42	246.10	68.37	172.90	253.60	79.54	455.95	440.12	132.22	148.07
15	8/11/2021	121.46	170.46	164.01	72.25	240.66	69.36	172.12	253.64	79.48	457.55	408.20	132.14	148.55
16	8/10/2021	122.70	171.00	162.28	71.89	238.63	69.67	171.53	253.29	79.10	459.77	406.55	132.44	148.57
17	8/9/2021	123.16	171.31	159.69	71.41	238.54	70.04	172.93	251.18	80.00	470.46	407.28	128.06	147.90
18	8/6/2021	122.17	171.13	160.03	71.67	241.04	70.34	173.37	252.31	80.00	466.81	413.00	127.68	146.60
19	8/5/2021	122.21	169.93	158.79	71.34	243.08	70.47	173.93	251.60	79.90	469.63	411.70	123.54	147.30
20	8/4/2021	121.57	172.58	155.62	71.52	254.74	69.96	174.04	252.75	80.09	473.89	414.13	119.87	146.71
21	8/3/2021	122.12	168.68	158.04	71.64	255.77	70.78	174.99	256.44	81.91	474.72	423.98	119.58	145.36
22	8/2/2021	120.92	167.62	157.26	69.84	256.13	70.79	173.39	268.27	80.11	476.07	423.61	117.68	143.04
23	7/30/2021	120.98	167.42	157.81	70.33	255.75	70.92	173.49	266.96	80.39	476.02	421.77	118.29	141.80
24	7/29/2021	121.09	166.54	157.95	70.43	255.31	71.46	172.47	268.87	78.53	470.81	416.90	117.51	141.24
25	7/28/2021	120.52	164.04	156.62	69.40	253.48	72.16	170.84	268.72	78.76	457.01	413.64	115.34	139.97
26	7/27/2021	119.81	162.59	156.72	70.11	254.69	72.47	171.89	268.46	79.35	480.19	410.00	114.58	139.96
27	7/26/2021	119.52	163.90	155.78	69.81	249.43	72.25	172.37	267.89	78.29	477.92	405.61	115.33	138.38
28	7/23/2021	120.80	163.55	155.02	69.63	251.08	72.02	172.49	268.63	78.41	479.78	410.07	116.53	139.43
29	7/22/2021	118.25	162.02	152.41	68.63	249.35	71.24	170.54	266.58	78.06	474.77	404.08	115.69	137.97
30	7/21/2021	118.98	164.84	153.96	70.73	246.35	72.50	169.70	266.30	77.69	472.95	401.50	116.12	135.78
31	7/20/2021	118.73	160.91	154.13	70.20	247.00	72.19	169.15	264.69	77.81	473.41	402.32	115.75	136.27
32	7/19/2021	118.79	158.98	151.47	68.94	247.25	71.52	166.62	261.02	76.72	467.46	396.76	112.02	136.25
33	7/16/2021	117.51	160.44	155.76	69.91	248.07	71.96	169.87	264.17	77.46	472.03	403.89	114.51	134.52
34	7/15/2021	116.66	163.66	156.05	70.77	246.62	72.67	170.66	262.22	79.50	473.32	402.76	113.92	134.07
35	7/14/2021	117.17	166.16	155.05	71.01	246.00	72.78	170.05	261.01	79.62	468.84	405.51	115.22	134.61
36	7/13/2021	118.65	167.26	155.20	71.03	248.62	72.08	168.26	260.30	79.72	477.78	409.08	116.37	135.04
37	7/12/2021	118.81	167.55	157.13	71.19	249.58	73.28	168.46	260.69	80.01	481.17	410.85	118.83	135.63
38	7/9/2021	119.74	166.27	156.99	70.75	249.80	74.12	168.70	261.15	79.57	476.18	411.23	118.51	135.04
39	7/8/2021	119.26	163.91	154.35	70.35	251.00	73.89	166.45	258.66	79.74	475.76	410.65	117.83	133.87
40	7/7/2021	119.87	165.43	156.97	72.03	251.98	74.43	168.18	258.52	80.22	479.27	413.82	119.83	134.63
41	7/6/2021	118.82	168.32	156.81	70.41	249.35	74.21	164.66	256.33	79.56	481.78	409.55	118.82	133.46
42	7/2/2021	118.04	170.67	156.50	70.98	248.45	74.44	164.41	257.44	79.46	485.71	407.75	119.01	133.32
43	7/1/2021	117.16	169.17	156.85	72.10	246.77	74.54	162.93	256.86	78.49	482.47	403.00	118.59	132.95
44	6/30/2021	115.93	172.16	156.18	72.06	243.19	74.94	161.53	255.12	78.16	474.50	396.27	118.46	131.97
45	6/29/2021	117.21	171.40	155.82	71.59	246.89	75.31	162.05	255.24	78.36	483.93	397.12	118.06	132.98
46	6/28/2021	115.70	170.57	156.56	70.37	243.70	75.30	160.81	257.99	78.50	485.28	395.50	117.07	131.66
47	6/25/2021	112.72	167.66	158.53	69.27	241.20	75.11	160.69	260.42	78.45	488.95	396.43	117.94	129.63
48	6/24/2021	111.70	167.04	155.48	67.77	239.82	74.07	160.32	257.65	78.28	482.46	390.61	117.71	129.19
49	6/23/2021	110.84	163.63	154.99	68.14	240.22	72.92	159.70	258.72	78.14	481.14	387.69	116.25	129.16
50	6/22/2021	110.96	163.67	154.83	67.92	240.32	73.69	161.07	261.82	79.07	480.01	390.74	117.38	130.24
51	6/21/2021	111.44	164.15	154.73	67.64	240.83	74.03	160.89	263.09	79.48	479.52	389.44	116.86	129.43
52	6/18/2021	110.33	162.19	150.87	66.05	240.54	73.02	158.33	260.78	78.80	470.27	383.96	115.09	127.50
53	6/17/2021	111.63	166.22	154.60	66.81	240.25	74.78	159.72	263.83	78.93	472.98	381.88	116.75	128.09
54	6/16/2021	110.06	166.02	159.87	68.38	240.28	75.20	160.22	264.08	79.30	464.92	381.53	116.70	127.46
55	6/15/2021	110.41	167.62	160.90	69.26	241.44	75.84	161.63	265.94	80.24	471.07	376.87	116.50	128.17
56	6/14/2021	110.48	168.44	160.83	68.84	242.72	75.71	160.96	263.85	80.69	478.65	376.54	114.65	128.04
57	6/11/2021	109.91	167.60	162.85	68.94	242.64	75.56	162.76	266.57	81.27	480.82	375.19	115.56	127.29
58	6/10/2021	110.15	167.34	162.08	67.79	245.41	75.54	161.37	264.71	81.08	486.54	374.12	116.16	128.18
59	6/9/2021	109.05	166.37	162.76	68.44	243.35	75.19	159.07	260.63	80.03	482.47	372.41	117.80	127.50
60	6/8/2021	107.90	164.91	163.45	68.39	239.25	79.69	158.23	260.01	79.49	485.00	372.36	118.69	127.52

EL	EXPO	HSY	INGR	JBHT	JJSF	JKHY	MANT	MKC	MNST	MO	MSCI	MSI	NOC	ODFL
EL US Equity	EXPO US Equity	HSY US Equity	INGR US Equity	JBHT US Equity	JJSF US Equity	JKHY US Equity	MANT US Equity	MKC US Equity	MNST US Equity	MO US Equity	MSCI US Equity	MSI US Equity	NOC US Equity	ODFL US Equity
340.49	116.90	177.70	87.86	177.40	163.76	176.38	79.17	86.29	97.57	50.23	634.58	244.22	367.70	288.72
343.48	116.89	176.53	87.77	182.71	162.02	176.32	79.75	85.45	97.81	49.70	638.43	244.56	367.62	293.84
340.82	115.85	175.63	88.66	179.56	163.83	175.93	79.18	85.22	97.33	49.53	629.59	242.81	364.84	289.78
336.49	113.48	175.11	87.36	174.95	160.65	173.95	77.30	84.93	96.84	48.75	623.91	243.05	366.76	286.10
335.32	114.80	175.60	87.96	175.21	161.90	173.45	78.26	85.56	97.13	48.65	627.91	241.33	362.66	286.06
337.60	115.20	176.14	87.12	174.06	163.05	173.21	78.15	85.88	96.63	48.21	618.37	239.12	362.77	285.53
336.29	116.77	178.75	86.95	174.90	161.73	176.52	79.12	86.73	96.75	48.48	621.19	239.03	362.92	284.14
330.18	115.60	180.03	86.28	174.49	161.60	177.13	79.73	87.56	96.74	48.47	618.86	240.00	363.00	282.51
327.40	114.44	180.25	85.43	171.53	161.29	176.29	79.35	87.48	97.18	48.24	610.00	237.41	361.09	279.51
319.08	113.04	179.51	86.51	173.25	161.33	172.38	81.33	86.34	95.86	48.22	610.21	233.91	363.16	276.47
322.60	113.42	182.13	87.67	174.87	164.03	178.58	83.42	87.84	97.52	48.56	629.48	234.41	368.63	279.80
327.98	114.79	181.16	88.66	176.81	163.95	177.74	82.94	87.38	98.42	48.39	630.21	234.90	368.62	281.68
326.60	114.47	179.40	88.35	175.61	164.00	177.12	81.83	86.68	98.12	48.60	630.02	233.03	363.11	281.00
326.78	114.63	177.64	87.22	173.15	162.30	174.31	82.99	85.68	97.62	48.12	625.16	230.54	363.86	279.05
327.59	116.08	178.67	87.69	172.76	161.72	173.71	83.30	85.48	98.72	48.17	624.94	227.15	366.10	276.33
327.72	114.48	178.96	86.97	167.12	161.68	172.24	83.75	84.24	98.79	48.11	625.08	229.72	362.68	272.41
326.47	113.32	178.47	86.05	165.37	162.50	172.89	83.67	83.70	98.47	47.48	627.68	228.17	360.99	272.19
328.83	115.04	178.59	86.10	167.05	163.78	173.95	84.57	83.43	96.97	47.35	628.90	228.52	362.11	272.72
328.69	114.19	178.75	84.69	166.87	162.42	173.44	84.42	83.25	91.95	47.36	627.38	222.27	358.72	272.19
325.78	111.06	178.16	85.09	167.64	160.76	173.59	82.94	83.18	92.01	47.03	624.22	222.77	357.25	270.36
327.54	109.53	179.85	87.72	171.22	164.43	175.83	84.37	83.79	93.04	47.79	619.07	224.99	364.44	273.82
327.67	108.25	178.41	89.13	167.47	163.46	174.57	87.44	84.09	93.36	47.73	610.92	223.93	361.84	266.79
333.83	107.09	178.88	87.81	168.45	164.38	174.09	87.46	84.17	94.32	48.04	595.96	223.92	363.02	269.15
333.59	100.15	178.52	88.95	167.41	165.02	173.29	87.77	84.25	94.58	48.60	594.76	223.78	365.66	267.99
330.87	98.25	176.50	88.78	164.49	166.29	171.93	87.07	84.70	94.05	47.62	591.84	221.48	360.11	259.03
329.78	95.93	179.24	88.21	165.39	166.60	176.12	86.55	85.75	95.18	47.79	584.21	221.65	362.20	259.27
333.32	95.55	178.00	88.04	165.55	174.19	175.81	86.80	85.38	96.00	47.61	575.90	222.67	358.26	258.78
333.55	95.14	179.26	87.28	167.25	166.65	176.27	87.41	85.72	96.29	47.49	578.95	221.70	361.31	261.08
326.58	92.70	176.91	86.66	163.66	164.00	174.88	86.10	84.73	93.37	46.99	572.15	220.12	359.26	255.34
323.08	94.91	178.02	87.99	163.63	166.50	173.13	87.09	85.56	93.35	47.33	564.86	219.42	361.46	254.41
323.45	94.13	180.28	88.11	164.34	168.19	173.63	87.01	87.70	93.71	47.21	563.57	218.58	359.97	253.04
316.11	91.02	179.43	86.07	159.68	165.88	170.35	85.18	88.61	92.25	46.79	556.84	216.60	355.00	250.15
324.49	90.18	179.99	87.31	164.95	167.53	171.67	87.42	87.90	93.07	47.31	564.83	219.99	362.81	253.94
326.96	89.55	179.49	88.29	167.76	168.28	170.64	87.04	87.07	93.62	47.49	559.85	222.63	364.12	258.81
326.56	89.54	177.57	88.28	169.63	168.32	168.31	87.52	86.18	93.00	47.56	555.19	222.91	363.94	258.76
320.63	90.05	175.93	87.71	166.91	167.49	166.73	87.62	85.70	92.02	46.84	557.57	222.20	367.39	257.58
320.48	90.02	176.82	90.24	165.45	170.37	167.06	87.62	86.69	91.17	47.49	559.95	223.23	370.33	257.62
317.87	90.31	176.75	93.28	165.78	170.53	167.38	87.08	87.10	90.24	47.40	560.23	224.52	371.82	260.58
313.57	89.45	175.79	92.06	162.31	170.61	166.58	86.61	87.08	89.84	46.43	553.54	222.31	369.94	256.44
319.15	89.99	176.57	92.82	166.94	172.14	166.81	86.72	88.18	90.84	46.79	555.77	224.45	371.26	259.17
319.04	90.25	175.10	91.55	163.02	172.63	164.71	85.31	88.05	90.61	46.67	550.02	223.01	367.65	254.53
317.56	90.77	174.00	91.44	165.31	172.58	165.82	86.95	88.59	90.86	47.53	541.91	221.02	369.20	258.00
317.08	90.76	173.70	90.99	166.94	174.23	164.51	87.99	87.97	91.15	47.83	534.03	218.74	367.62	258.00
318.08	89.21	174.18	90.50	162.95	174.41	163.51	86.54	88.32	91.35	47.68	533.08	216.85	363.43	253.80
317.51	87.96	172.00	89.99	161.66	172.19	165.52	85.70	87.62	91.56	46.78	542.17	217.01	360.31	255.03
314.54	88.16	174.54	90.00	161.78	173.90	165.24	87.02	88.15	91.46	47.18	534.47	215.11	370.21	255.58
315.95	89.91	175.12	90.80	162.00	175.10	166.59	89.78	87.28	92.12	47.62	531.75	215.62	373.31	253.61
308.70	88.44	172.39	90.59	160.49	175.84	164.45	87.26	86.28	90.14	47.43	533.08	214.56	369.68	252.10
302.38	88.18	170.37	90.03	159.24	173.96	164.32	87.82	86.11	90.31	47.02	523.86	213.32	370.28	252.96
300.51	88.28	172.27	90.61	160.35	174.46	165.71	89.03	87.26	91.78	47.24	522.19	213.95	372.57	252.93
301.48	88.54	172.24	90.86	159.69	173.37	166.85	89.17	87.17	92.04	47.29	515.59	211.31	373.29	251.40
295.88	86.06	170.49	89.99	155.89	172.93	164.55	87.80	86.13	91.76	46.31	502.90	207.03	367.19	246.35
299.90	91.25	173.51	91.44	158.63	176.40	163.19	90.65	87.54	92.57	46.87	505.54	210.88	368.70	249.19
299.00	90.29	172.67	92.80	164.51	176.33	164.61	91.22	87.57	91.52	47.37	495.90	209.70	372.21	252.44
302.81	89.59	174.85	94.42	166.78	177.97	163.91	91.05	88.77	92.19	47.90	495.00	210.94	375.00	253.41
303.22	89.60	174.67	94.28	164.61	176.56	163.33	89.91	89.20	93.40	48.08	490.76	211.40	372.23	250.13
300.22	89.36	174.80	94.57	165.25	176.11	162.57	89.45	88.85	93.50	49.76	479.51	212.31	375.06	251.03
298.28	88.59	174.38	95.12	164.20	175.72	163.13	88.20	88.74	93.77	50.14	476.46	212.58	372.51	248.41
297.84	88.68	172.86	95.52	165.58	176.17	159.72	87.87	88.13	93.24	49.90	465.83	209.12	372.60	249.77
300.02	88.68	173.58	95.94	165.49	178.31	158.23	87.43	88.50	94.16	49.88	463.37	210.41	371.11	255.40

PKI	POST	RLI	ROL	SHW	SIGI	SIRI	SNPS	TXN	UHAL	UPS	VRSN	WAT	WSO	WU
PKI US Equity	POST US Equity	RLI US Equity	ROL US Equity	SHW US Equity	SIGI US Equity	SIRI US Equity	SNPS US Equity	TXN US Equity	UHAL US Equity	UPS US Equity	VRSN US Equity	WAT US Equity	WSO US Equity	WU US Equity
184.80	111.91	109.23	38.92	303.67	83.57	6.27	332.24	190.91	661.15	195.63	216.26	414.02	278.42	21.64
187.95	111.93	109.57	39.16	305.31	84.02	6.27	334.28	191.43	671.53	194.01	216.15	413.06	281.49	21.27
182.91	112.00	110.71	38.61	302.87	84.69	6.25	331.81	190.52	673.74	193.30	214.66	407.35	278.10	21.65
183.68	111.05	107.98	38.34	302.27	82.93	6.20	326.51	187.97	660.15	192.36	212.73	407.35	275.46	21.47
185.02	112.90	110.02	38.22	302.73	84.09	6.31	325.01	188.09	652.95	192.87	211.96	407.10	277.99	21.75
182.20	112.78	111.70	38.05	303.11	84.36	6.31	324.95	187.82	645.05	193.27	213.36	402.27	276.27	21.69
181.51	113.13	111.48	38.38	304.72	84.83	6.24	320.92	187.85	648.11	193.00	214.69	402.78	275.35	21.67
181.10	113.58	110.42	39.33	307.06	85.18	6.30	316.88	184.97	644.30	193.24	213.04	402.25	274.86	21.61
181.77	113.22	108.16	38.77	302.64	84.40	6.17	315.99	185.04	640.00	194.06	211.84	404.86	273.05	21.67
181.07	114.31	107.54	37.83	301.11	83.70	6.14	290.63	183.80	648.06	194.80	208.71	400.74	271.48	21.91
182.85	116.55	109.13	37.95	304.92	84.74	6.12	291.62	186.32	653.11	197.76	211.55	406.12	274.60	22.33
184.61	114.72	108.79	37.58	307.76	84.14	6.07	294.42	189.85	659.80	197.07	210.60	408.13	278.75	22.42
183.11	114.22	108.83	37.15	305.66	83.70	6.03	293.12	188.70	659.72	193.98	209.44	405.27	276.24	22.49
182.29	113.16	108.67	37.19	303.71	83.89	6.03	292.19	187.87	654.98	193.64	210.30	401.33	275.99	22.44
179.23	110.90	108.74	37.39	302.33	84.36	6.14	288.95	189.50	660.39	192.40	211.74	397.78	277.33	22.65
183.50	109.88	108.69	37.38	296.07	83.62	6.16	288.25	189.65	649.14	190.61	211.96	394.88	275.33	22.61
186.68	109.74	109.30	37.68	297.41	83.28	6.25	291.40	190.45	638.01	190.98	214.39	393.62	277.16	22.73
185.43	107.75	109.91	38.16	296.95	82.80	6.50	292.43	192.96	625.69	192.60	213.91	395.47	276.71	22.70
187.05	99.32	108.52	38.41	295.66	80.95	6.51	293.20	193.16	627.96	190.42	214.87	397.34	278.15	22.27
186.85	99.08	107.60	39.00	296.23	79.35	6.43	291.49	192.38	584.11	190.79	213.88	394.25	279.80	22.13
185.07	102.00	108.17	38.99	295.98	80.73	6.45	289.20	189.34	590.30	194.15	215.77	391.75	283.32	22.74
183.84	101.65	108.07	38.54	291.57	80.80	6.49	287.61	190.72	582.27	191.94	216.44	388.85	281.27	22.79
182.23	102.34	108.38	38.33	291.03	81.35	6.47	287.99	190.62	587.96	191.36	216.37	389.81	282.44	23.21
179.30	102.13	109.55	37.83	289.39	80.20	6.49	285.53	189.83	588.84	191.81	216.04	391.02	279.35	23.26
174.46	102.44	107.27	36.84	287.54	78.56	6.48	283.69	186.85	578.99	192.04	216.24	386.22	275.99	23.15
170.16	103.91	107.63	37.15	287.72	78.65	6.71	281.16	185.13	578.08	195.19	219.17	378.52	280.99	23.35
172.11	104.43	106.96	37.37	285.48	78.30	6.38	283.89	188.26	581.19	209.86	222.96	382.31	288.00	23.40
164.34	104.16	106.14	37.90	285.97	77.94	6.43	285.07	186.85	583.65	211.64	222.54	384.70	295.14	23.22
160.06	103.24	104.12	37.64	281.55	76.97	6.48	281.60	183.91	577.90	213.23	233.53	377.17	287.93	23.03
156.63	104.51	106.75	37.40	281.83	78.41	6.55	278.22	194.24	580.10	212.45	230.13	370.67	281.53	23.01
155.38	105.15	106.94	37.32	281.24	78.19	6.53	277.89	187.77	574.00	212.46	229.43	372.12	283.48	23.00
154.91	104.26	105.05	36.27	282.93	76.12	6.34	274.48	186.24	559.10	211.41	228.55	362.99	278.58	22.72
154.10	105.82	107.97	35.97	282.41	78.56	6.39	276.56	186.12	569.58	210.57	229.74	370.69	282.70	23.50
153.17	106.67	106.07	35.53	279.12	78.17	6.44	277.68	188.26	580.55	212.86	229.21	372.26	285.89	23.44
151.98	105.89	104.32	35.36	276.93	77.42	6.50	279.08	191.28	578.90	211.53	230.64	371.64	286.68	23.58
153.15	106.70	103.77	35.34	278.05	77.67	6.45	278.09	191.20	580.15	211.27	228.49	368.44	286.86	23.47
154.57	109.55	105.13	35.36	277.97	79.11	6.52	278.56	191.92	582.71	213.33	229.16	369.67	291.98	23.20
153.96	109.98	105.51	35.39	276.22	79.53	6.56	280.75	190.27	584.00	213.92	233.03	369.40	291.17	23.31
153.93	108.73	103.29	35.01	273.09	78.15	6.46	278.86	188.24	568.49	212.07	231.81	365.68	288.78	22.94
155.05	108.44	105.12	35.58	277.41	80.09	6.57	279.86	189.78	583.89	214.26	232.83	365.40	295.47	23.23
156.01	108.84	104.47	34.95	273.50	79.19	6.54	279.29	191.20	584.02	211.29	231.47	359.07	286.61	22.96
155.57	109.47	106.19	34.66	275.22	80.90	6.63	279.16	192.21	603.10	211.53	231.33	355.49	288.65	23.26
154.60	109.60	106.06	34.61	275.34	82.01	6.57	277.11	190.84	591.73	210.22	229.19	351.18	289.61	23.04
154.41	108.47	104.59	34.20	272.45	81.15	6.54	275.79	192.30	589.40	207.97	227.69	345.61	286.64	22.97
155.84	108.21	104.44	34.42	272.78	81.04	6.55	276.18	192.88	585.70	207.61	229.78	345.15	284.47	23.08
154.85	109.35	103.24	33.97	272.49	79.63	6.51	274.03	191.53	572.98	205.23	228.69	343.96	281.11	22.91
152.43	109.77	104.12	34.04	273.99	79.85	6.52	268.97	188.17	572.03	205.61	227.73	337.78	280.85	23.52
151.55	108.23	103.89	33.90	270.08	78.99	6.41	273.80	188.61	562.05	206.10	229.43	344.58	283.99	23.27
154.65	107.47	103.44	33.62	271.37	77.92	6.29	268.86	186.10	550.93	204.02	226.31	346.95	280.56	23.03
153.20	108.60	103.80	33.94	273.46	77.64	6.36	268.46	187.04	535.58	205.40	226.85	345.62	280.24	23.28
152.43	109.82	103.78	33.73	273.10	77.01	6.32	264.80	186.11	534.85	203.32	224.74	342.44	281.78	23.64
150.69	108.25	101.46	33.09	268.16	74.47	6.30	265.86	183.07	526.51	197.77	223.17	342.71	274.74	23.25
149.69	110.66	104.03	33.37	269.23	76.27	6.40	265.14	187.65	531.54	198.05	223.26	346.56	278.72	23.43
148.85	111.76	104.85	33.17	268.48	77.17	6.56	261.41	187.73	534.55	200.42	218.80	343.07	282.87	24.19
148.11	113.76	105.64	33.79	271.62	77.56	6.63	264.09	188.61	546.62	202.34	220.78	341.80	286.26	24.47
147.15	113.59	103.65	33.64	273.76	76.48	6.75	266.49	190.26	540.87	201.09	220.17	336.18	285.66	24.75
146.81	114.32	104.17	33.32	276.74	77.11	6.74	263.07	188.67	554.59	203.20	221.00	336.58	285.72	24.95
146.11	114.15	103.29	33.19	277.86	75.53	6.69	262.07	188.00	550.24	203.20	220.97	333.77	287.47	24.77
141.40	113.71	102.92	33.05	276.96	74.95	6.85	256.06	186.45	561.72	201.06	217.81	328.00	288.84	25.17
139.72	114.56	104.12	33.12	281.00	76.51	7.09	254.99	186.93	565.00	209.76	218.79	323.09	290.98	24.91

PX_LAST	ABT US Equity	ADI US Equity	AIZ US Equity	AOS US Equity	BDX US Equity	BFB US Equity	BR US Equity	CACI US Equity	CERN US Equity	CHE US Equity	COO US Equity	CSWI US Equity	DGX US Equity	EL US Equity	EXPO US Equity
8/31/2021	126.37	162.95	170.11	72.72	251.70	70.22	172.22	257.54	76.35	476.70	450.71	132.79	152.83	340.49	116.90
8/30/2021	125.94	166.98	168.61	72.94	250.47	70.40	172.33	256.74	76.22	472.31	449.38	135.20	150.77	343.48	116.89
8/27/2021	124.59	166.48	169.36	72.38	248.50	70.17	171.58	257.74	76.84	473.68	446.58	137.04	149.14	340.82	115.85
8/26/2021	125.47	167.36	167.22	71.74	247.53	69.68	169.81	256.61	76.07	466.29	446.07	131.35	149.59	336.49	113.48
8/25/2021	124.74	164.00	168.81	72.25	247.00	69.39	170.98	257.31	76.51	465.50	446.74	133.32	149.71	335.32	114.80
8/24/2021	125.50	165.85	166.74	71.81	247.87	69.80	171.27	256.50	77.19	465.00	447.79	133.28	149.53	337.60	115.20
8/23/2021	125.84	169.63	166.69	71.29	249.85	69.50	172.50	257.54	77.92	466.19	444.84	134.25	150.53	336.29	116.77
8/20/2021	126.32	166.64	165.13	71.06	249.30	69.54	174.54	259.65	78.96	466.16	444.18	131.27	152.00	330.18	115.60
8/19/2021	125.72	166.79	163.54	70.33	247.88	68.83	173.73	257.79	79.62	459.88	442.04	129.12	151.60	327.40	114.44
8/18/2021	123.93	165.78	165.03	70.31	248.31	68.51	173.67	257.53	79.36	451.98	432.61	128.25	149.13	319.08	113.04
8/17/2021	125.69	166.30	167.48	70.96	253.48	69.98	176.80	260.02	80.78	456.46	438.59	127.22	152.28	322.60	113.42
8/16/2021	124.66	171.07	166.64	72.64	249.61	69.89	176.99	255.22	80.15	456.22	439.54	129.66	151.35	327.98	114.79
8/13/2021	123.06	170.08	165.00	71.96	246.79	69.23	174.36	251.96	79.63	457.28	436.99	129.85	148.22	326.60	114.47
8/12/2021	122.81	168.58	165.94	71.42	246.10	68.37	172.90	253.60	79.54	455.95	440.12	132.22	148.07	326.78	114.63
8/11/2021	121.46	170.46	164.01	72.25	240.66	69.36	172.12	253.64	79.48	457.55	408.20	132.14	148.55	327.59	116.08
8/10/2021	122.70	171.00	162.28	71.89	238.63	69.67	171.53	253.29	79.10	459.77	406.55	132.44	148.57	327.72	114.48
8/9/2021	123.16	171.31	159.69	71.41	238.54	70.04	172.93	251.18	80.00	470.46	407.28	128.06	147.90	326.47	113.32
8/6/2021	122.17	171.13	160.03	71.67	241.04	70.34	173.37	252.31	80.00	466.81	413.00	127.68	146.60	328.83	115.04
8/5/2021	122.21	169.93	158.79	71.34	243.08	70.47	173.93	251.60	79.90	469.63	411.70	123.54	147.30	328.69	114.19
8/4/2021	121.57	172.58	155.62	71.52	254.74	69.96	174.04	252.75	80.09	473.89	414.13	119.87	146.71	325.78	111.06
8/3/2021	122.12	168.68	158.04	71.64	255.77	70.78	174.99	256.44	81.91	474.72	423.98	119.58	145.36	327.54	109.53
8/2/2021	120.92	167.62	157.26	69.84	256.13	70.79	173.39	268.27	80.11	476.07	423.61	117.68	143.04	327.67	108.25
7/30/2021	120.98	167.42	157.81	70.33	255.75	70.92	173.49	266.96	80.39	476.02	421.77	118.29	141.80	333.83	107.09
7/29/2021	121.09	166.54	157.95	70.43	255.31	71.46	172.47	268.87	78.53	470.81	416.90	117.51	141.24	333.59	100.15
7/28/2021	120.52	164.04	156.62	69.40	253.48	72.16	170.84	268.72	78.76	457.01	413.64	115.34	139.97	330.87	98.25
7/27/2021	119.81	162.59	156.72	70.11	254.69	72.47	171.89	268.46	79.35	480.19	410.00	114.58	139.96	329.78	95.93
7/26/2021	119.52	163.90	155.78	69.81	249.43	72.25	172.37	267.89	78.29	477.92	405.61	115.33	138.38	333.32	95.55
7/23/2021	120.80	163.55	155.02	69.63	251.08	72.02	172.49	268.63	78.41	479.78	410.07	116.53	139.43	333.55	95.14
7/22/2021	118.25	162.02	152.41	68.63	249.35	71.24	170.54	266.58	78.06	474.77	404.08	115.69	137.97	326.58	92.70
7/21/2021	118.98	164.84	153.96	70.73	246.35	72.50	169.70	266.30	77.69	472.95	401.50	116.12	135.78	323.08	94.91
7/20/2021	118.73	160.91	154.13	70.20	247.00	72.19	169.15	264.69	77.81	473.41	402.32	115.75	136.27	323.45	94.13
7/19/2021	118.79	158.98	151.47	68.94	247.25	71.52	166.62	261.02	76.72	467.46	396.76	112.02	136.25	316.11	91.02
7/16/2021	117.51	160.44	155.76	69.91	248.07	71.96	169.87	264.17	77.46	472.03	403.89	114.51	134.52	324.49	90.18
7/15/2021	116.66	163.66	156.05	70.77	246.62	72.67	170.66	262.22	79.50	473.32	402.76	113.92	134.07	326.96	89.55
7/14/2021	117.17	166.16	155.05	71.01	246.00	72.78	170.05	261.01	79.62	468.84	405.51	115.22	134.61	326.56	89.54
7/13/2021	118.65	167.26	155.20	71.03	248.62	72.08	168.26	260.30	79.72	477.78	409.08	116.37	135.04	320.63	90.05
7/12/2021	118.81	167.55	157.13	71.19	249.58	73.28	168.46	260.69	80.01	481.17	410.85	118.83	135.63	320.48	90.02
7/9/2021	119.74	166.27	156.99	70.75	249.80	74.12	168.70	261.15	79.57	476.18	411.23	118.51	135.04	317.87	90.31
7/8/2021	119.26	163.91	154.35	70.35	251.00	73.89	166.45	258.66	79.74	475.76	410.65	117.83	133.87	313.57	89.45
7/7/2021	119.87	165.43	156.97	72.03	251.98	74.43	168.18	258.52	80.22	479.27	413.82	119.83	134.63	319.15	89.99
7/6/2021	118.82	168.32	156.81	70.41	249.35	74.21	164.66	256.33	79.56	481.78	409.55	118.82	133.46	319.04	90.25
7/2/2021	118.04	170.67	156.50	70.98	248.45	74.44	164.41	257.44	79.46	485.71	407.75	119.01	133.32	317.56	90.77
7/1/2021	117.16	169.17	156.85	72.10	246.77	74.54	162.93	256.86	78.49	482.47	403.00	118.59	132.95	317.08	90.76
6/30/2021	115.93	172.16	156.18	72.06	243.19	74.94	161.53	255.12	78.16	474.50	396.27	118.46	131.97	318.08	89.21
6/29/2021	117.21	171.40	155.82	71.59	246.89	75.31	162.05	255.24	78.36	483.93	397.12	118.06	132.98	317.51	87.96
6/28/2021	115.70	170.57	156.56	70.37	243.70	75.30	160.81	257.99	78.50	485.28	395.50	117.07	131.66	314.54	88.16
6/25/2021	112.72	167.66	158.53	69.27	241.20	75.11	160.69	260.42	78.45	488.95	396.43	117.94	129.63	315.95	89.91
6/24/2021	111.70	167.04	155.48	67.77	239.82	74.07	160.32	257.65	78.28	482.46	390.61	117.71	129.19	308.70	88.44
6/23/2021	110.84	163.63	154.99	68.14	240.22	72.92	159.70	258.72	78.14	481.14	387.69	116.25	129.16	302.38	88.18
6/22/2021	110.96	163.67	154.83	67.92	240.32	73.69	161.07	261.82	79.07	480.01	390.74	117.38	130.24	300.51	88.28
6/21/2021	111.44	164.15	154.73	67.64	240.83	74.03	160.89	263.09	79.48	479.52	389.44	116.86	129.43	301.48	88.54
6/18/2021	110.33	162.19	150.87	66.05	240.54	73.02	158.33	260.78	78.80	470.27	383.96	115.09	127.50	295.88	86.06
6/17/2021	111.63	166.22	154.60	66.81	240.25	74.78	159.72	263.83	78.93	472.98	381.88	116.75	128.09	299.90	91.25
6/16/2021	110.06	166.02	159.87	68.38	240.28	75.20	160.22	264.08	79.30	464.92	381.53	116.70	127.46	299.00	90.29
6/15/2021	110.41	167.62	160.90	69.26	241.44	75.84	161.63	265.94	80.24	471.07	376.87	116.50	128.17	302.81	89.59
6/14/2021	110.48	168.44	160.83	68.84	242.72	75.71	160.96	263.85	80.69	478.65	376.54	114.65	128.04	303.22	89.60
6/11/2021	109.91	167.60	162.85	68.94	242.64	75.56	162.76	266.57	81.27	480.82	375.19	115.56	127.29	300.22	89.36
6/10/2021	110.15	167.34	162.08	67.79	245.41	75.54	161.37	264.71	81.08	486.54	374.12	116.16	128.18	298.28	88.59
6/9/2021	109.05	166.37	162.76	68.44	243.35	75.19	159.07	260.63	80.03	482.47	372.41	117.80	127.50	297.84	88.68
6/8/2021	107.90	164.91	163.45	68.39	239.25	79.69	158.23	260.01	79.49	485.00	372.36	118.69	127.52	300.02	88.68
Average Price	118.71	166.70	159.45	70.36	246.85	72.30	168.19	260.02	79.02	472.86	410.40	121.37	138.95	320.92	99.65
Indicated Dividend	1.80	2.76	2.64	1.04	3.32	0.72	2.56	-	0.88	1.44	0.06	0.60	2.48	2.12	0.80
Indicated Dividend	1.52	1.66	1.66	1.48	1.34	0.99	1.52	-	1.11	0.30	0.01	0.49	1.78	0.66	0.80

HSY US Equity	INGR US Equity	JBHT US Equity	JJSF US Equity	JKHY US Equity	MANT US Equity	MKC US Equity	MNST US Equity	MO US Equity	MSCI US Equity	MSI US Equity	NOC US Equity	ODFL US Equity	PKI US Equity	POST US Equity	RLI US Equity
177.70	87.86	177.40	163.76	176.38	79.17	86.29	97.57	50.23	634.58	244.22	367.70	288.72	184.80	111.91	109.23
176.53	87.77	182.71	162.02	176.32	79.75	85.45	97.81	49.70	638.43	244.56	367.62	293.84	187.95	111.93	109.57
175.63	88.66	179.56	163.83	175.93	79.18	85.22	97.33	49.53	629.59	242.81	364.84	289.78	182.91	112.00	110.71
175.11	87.36	174.95	160.65	173.95	77.30	84.93	96.84	48.75	623.91	243.05	366.76	286.10	183.68	111.05	107.98
175.60	87.96	175.21	161.90	173.45	78.26	85.56	97.13	48.65	627.91	241.33	362.66	286.06	185.02	112.90	110.02
176.14	87.12	174.06	163.05	173.21	78.15	85.88	96.63	48.21	618.37	239.12	362.77	285.53	182.20	112.78	111.70
178.75	86.95	174.90	161.73	176.52	79.12	86.73	96.75	48.48	621.19	239.03	362.92	284.14	181.51	113.13	111.48
180.03	86.28	174.49	161.60	177.13	79.73	87.56	96.74	48.47	618.86	240.00	363.00	282.51	181.10	113.58	110.42
180.25	85.43	171.53	161.29	176.29	79.35	87.48	97.18	48.24	610.00	237.41	361.09	279.51	181.77	113.22	108.16
179.51	86.51	173.25	161.33	172.38	81.33	86.34	95.86	48.22	610.21	233.91	363.16	276.47	181.07	114.31	107.54
182.13	87.67	174.87	164.03	178.58	83.42	87.84	97.52	48.56	629.48	234.41	368.63	279.80	182.85	116.55	109.13
181.16	88.66	176.81	163.95	177.74	82.94	87.38	98.42	48.39	630.21	234.90	368.62	281.68	184.61	114.72	108.79
179.40	88.35	175.61	164.00	177.12	81.83	86.68	98.12	48.60	630.02	233.03	363.11	281.00	183.11	114.22	108.83
177.64	87.22	173.15	162.30	174.31	82.99	85.68	97.62	48.12	625.16	230.54	363.86	279.05	182.29	113.16	108.67
178.67	87.69	172.76	161.72	173.71	83.30	85.48	98.72	48.17	624.94	227.15	366.10	276.33	179.23	110.90	108.74
178.96	86.97	167.12	161.68	172.24	83.75	84.24	98.79	48.11	625.08	229.72	362.68	272.41	183.50	109.88	108.69
178.47	86.05	165.37	162.50	172.89	83.67	83.70	98.47	47.48	627.68	228.17	360.99	272.19	186.68	109.74	109.30
178.59	86.10	167.05	163.78	173.95	84.57	83.43	96.97	47.35	628.90	228.52	362.11	272.72	185.43	107.75	109.91
178.75	84.69	166.87	162.42	173.44	84.42	83.25	91.95	47.36	627.38	222.27	358.72	272.19	187.05	99.32	108.52
178.16	85.09	167.64	160.76	173.59	82.94	83.18	92.01	47.03	624.22	222.77	357.25	270.36	186.85	99.08	107.60
179.85	87.72	171.22	164.43	175.83	84.37	83.79	93.04	47.79	619.07	224.99	364.44	273.82	185.07	102.00	108.17
178.41	89.13	167.47	163.46	174.57	87.44	84.09	93.36	47.73	610.92	223.93	361.84	266.79	183.84	101.65	108.07
178.88	87.81	168.45	164.38	174.09	87.46	84.17	94.32	48.04	595.96	223.92	363.02	269.15	182.23	102.34	108.38
178.52	88.95	167.41	165.02	173.29	87.77	84.25	94.58	48.60	594.76	223.78	365.66	267.99	179.30	102.13	109.55
176.50	88.78	164.49	166.29	171.93	87.07	84.70	94.05	47.62	591.84	221.48	360.11	259.03	174.46	102.44	107.27
179.24	88.21	165.39	166.60	176.12	86.55	85.75	95.18	47.79	584.21	221.65	362.20	259.27	170.16	103.91	107.63
178.00	88.04	165.55	174.19	175.81	86.80	85.38	96.00	47.61	575.90	222.67	358.26	258.78	172.11	104.43	106.96
179.26	87.28	167.25	166.65	176.27	87.41	85.72	96.29	47.49	578.95	221.70	361.31	261.08	164.34	104.16	106.14
176.91	86.66	163.66	164.00	174.88	86.10	84.73	93.37	46.99	572.15	220.12	359.26	255.34	160.06	103.24	104.12
178.02	87.99	163.63	166.50	173.13	87.09	85.56	93.35	47.33	564.86	219.42	361.46	254.41	156.63	104.51	106.75
180.28	88.11	164.34	168.19	173.63	87.01	87.70	93.71	47.21	563.57	218.58	359.97	253.04	155.38	105.15	106.94
179.43	86.07	159.68	165.88	170.35	85.18	88.61	92.25	46.79	556.84	216.60	355.00	250.15	154.91	104.26	105.05
179.99	87.31	164.95	167.53	171.67	87.42	87.90	93.07	47.31	564.83	219.99	362.81	253.94	154.10	105.82	107.97
179.49	88.29	167.76	168.28	170.64	87.04	87.07	93.62	47.49	559.85	222.63	364.12	258.81	153.17	106.67	106.07
177.57	88.28	169.63	168.32	168.31	87.52	86.18	93.00	47.56	555.19	222.91	363.94	258.76	151.98	105.89	104.32
175.93	87.71	166.91	167.49	166.73	87.62	85.70	92.02	46.84	557.57	222.20	367.39	257.58	153.15	106.70	103.77
176.82	90.24	165.45	170.37	167.06	87.62	86.69	91.17	47.49	559.95	223.23	370.33	257.62	154.57	109.55	105.13
176.75	93.28	165.78	170.53	167.38	87.08	87.10	90.24	47.40	560.23	224.52	371.82	260.58	153.96	109.98	105.51
175.79	92.06	162.31	170.61	166.58	86.61	87.08	89.84	46.43	553.54	222.31	369.94	256.44	153.93	108.73	103.29
176.57	92.82	166.94	172.14	166.81	86.72	88.18	90.84	46.79	555.77	224.45	371.26	259.17	155.05	108.44	105.12
175.10	91.55	163.02	172.63	164.71	85.31	88.05	90.61	46.67	550.02	223.01	367.65	254.53	156.01	108.84	104.47
174.00	91.44	165.31	172.58	165.82	86.95	88.59	90.86	47.53	541.91	221.02	369.20	258.00	155.57	109.47	106.19
173.70	90.99	166.94	174.23	164.51	87.99	87.97	91.15	47.83	534.03	218.74	367.62	258.00	154.60	109.60	106.06
174.18	90.50	162.95	174.41	163.51	86.54	88.32	91.35	47.68	533.08	216.85	363.43	253.80	154.41	108.47	104.59
172.00	89.99	161.66	172.19	165.52	85.70	87.62	91.56	46.78	542.17	217.01	360.31	255.03	155.84	108.21	104.44
174.54	90.00	161.78	173.90	165.24	87.02	88.15	91.46	47.18	534.47	215.11	370.21	255.58	154.85	109.35	103.24
175.12	90.80	162.00	175.10	166.59	89.78	87.28	92.12	47.62	531.75	215.62	373.31	253.61	152.43	109.77	104.12
172.39	90.59	160.49	175.84	164.45	87.26	86.28	90.14	47.43	533.08	214.56	369.68	252.10	151.55	108.23	103.89
170.37	90.03	159.24	173.96	164.32	87.82	86.11	90.31	47.02	523.86	213.32	370.28	252.96	154.65	107.47	103.44
172.27	90.61	160.35	174.46	165.71	89.03	87.26	91.78	47.24	522.19	213.95	372.57	252.93	153.20	108.60	103.80
172.24	90.86	159.69	173.37	166.85	89.17	87.17	92.04	47.29	515.59	211.31	373.29	251.40	152.43	109.82	103.78
170.49	89.99	155.89	172.93	164.55	87.80	86.13	91.76	46.31	502.90	207.03	367.19	246.35	150.69	108.25	101.46
173.51	91.44	158.63	176.40	163.19	90.65	87.54	92.57	46.87	505.54	210.88	368.70	249.19	149.69	110.66	104.03
172.67	92.80	164.51	176.33	164.61	91.22	87.57	91.52	47.37	495.90	209.70	372.21	252.44	148.85	111.76	104.85
174.85	94.42	166.78	177.97	163.91	91.05	88.77	92.19	47.90	495.00	210.94	375.00	253.41	148.11	113.76	105.64
174.67	94.28	164.61	176.56	163.33	89.91	89.20	93.40	48.08	490.76	211.40	372.23	250.13	147.15	113.59	103.65
174.80	94.57	165.25	176.11	162.57	89.45	88.85	93.50	49.76	479.51	212.31	375.06	251.03	146.81	114.32	104.17
174.38	95.12	164.20	175.72	163.13	88.20	88.74	93.77	50.14	476.46	212.58	372.51	248.41	146.11	114.15	103.29
172.86	95.52	165.58	176.17	159.72	87.87	88.13	93.24	49.90	465.83	209.12	372.60	249.77	141.40	113.71	102.92
173.58	95.94	165.49	178.31	158.23	87.43	88.50	94.16	49.88	463.37	210.41	371.11	255.40	139.72	114.56	104.12
176.62	89.28	167.30	168.31	170.24	85.49	86.48	94.02	47.87	570.33	223.55	365.88	264.27	165.93	108.95	106.56
3.60	2.56	1.20	2.53	1.84	1.52	1.36	-	3.60	4.16	2.84	6.28	0.80	0.28	-	1.00
2.04	2.87	0.72	1.50	1.08	1.78	1.57	-	7.52	0.73	1.27	1.72	0.30	0.17	-	0.94

ROL US Equity	SHW US Equity	SIGI US Equity	SIRI US Equity	SNPS US Equity	TXN US Equity	UHAL US Equity	UPS US Equity	VRSN US Equity	WAT US Equity	WSO US Equity	WU US Equity
38.92	303.67	83.57	6.27	332.24	190.91	661.15	195.63	216.26	414.02	278.42	21.64
39.16	305.31	84.02	6.27	334.28	191.43	671.53	194.01	216.15	413.06	281.49	21.27
38.61	302.87	84.69	6.25	331.81	190.52	673.74	193.30	214.66	407.35	278.10	21.65
38.34	302.27	82.93	6.20	326.51	187.97	660.15	192.36	212.73	407.35	275.46	21.47
38.22	302.73	84.09	6.31	325.01	188.09	652.95	192.87	211.96	407.10	277.99	21.75
38.05	303.11	84.36	6.31	324.95	187.82	645.05	193.27	213.36	402.27	276.27	21.69
38.38	304.72	84.83	6.24	320.92	187.85	648.11	193.00	214.69	402.78	275.35	21.67
39.33	307.06	85.18	6.30	316.88	184.97	644.30	193.24	213.04	402.25	274.86	21.61
38.77	302.64	84.40	6.17	315.99	185.04	640.00	194.06	211.84	404.86	273.05	21.67
37.83	301.11	83.70	6.14	290.63	183.80	648.06	194.80	208.71	400.74	271.48	21.91
37.95	304.92	84.74	6.12	291.62	186.32	653.11	197.76	211.55	406.12	274.60	22.33
37.58	307.76	84.14	6.07	294.42	189.85	659.80	197.07	210.60	408.13	278.75	22.42
37.15	305.66	83.70	6.03	293.12	188.70	659.72	193.98	209.44	405.27	276.24	22.49
37.19	303.71	83.89	6.03	292.19	187.87	654.98	193.64	210.30	401.33	275.99	22.44
37.39	302.33	84.36	6.14	288.95	189.50	660.39	192.40	211.74	397.78	277.33	22.65
37.38	296.07	83.62	6.16	288.25	189.65	649.14	190.61	211.96	394.88	275.33	22.61
37.68	297.41	83.28	6.25	291.40	190.45	638.01	190.98	214.39	393.62	277.16	22.73
38.16	296.95	82.80	6.50	292.43	192.96	625.69	192.60	213.91	395.47	276.71	22.70
38.41	295.66	80.95	6.51	293.20	193.16	627.96	190.42	214.87	397.34	278.15	22.27
39.00	296.23	79.35	6.43	291.49	192.38	584.11	190.79	213.88	394.25	279.80	22.13
38.99	295.98	80.73	6.45	289.20	189.34	590.30	194.15	215.77	391.75	283.32	22.74
38.54	291.57	80.80	6.49	287.61	190.72	582.27	191.94	216.44	388.85	281.27	22.79
38.33	291.03	81.35	6.47	287.99	190.62	587.96	191.36	216.37	389.81	282.44	23.21
37.83	289.39	80.20	6.49	285.53	189.83	588.84	191.81	216.04	391.02	279.35	23.26
36.84	287.54	78.56	6.48	283.69	186.85	578.99	192.04	216.24	386.22	275.99	23.15
37.15	287.72	78.65	6.71	281.16	185.13	578.08	195.19	219.17	378.52	280.99	23.35
37.37	285.48	78.30	6.38	283.89	188.26	581.19	209.86	222.96	382.31	288.00	23.40
37.90	285.97	77.94	6.43	285.07	186.85	583.65	211.64	222.54	384.70	295.14	23.22
37.64	281.55	76.97	6.48	281.60	183.91	577.90	213.23	233.53	377.17	287.93	23.03
37.40	281.83	78.41	6.55	278.22	194.24	580.10	212.45	230.13	370.67	281.53	23.01
37.32	281.24	78.19	6.53	277.89	187.77	574.00	212.46	229.43	372.12	283.48	23.00
36.27	282.93	76.12	6.34	274.48	186.24	559.10	211.41	228.55	362.99	278.58	22.72
35.97	282.41	78.56	6.39	276.56	186.12	569.58	210.57	229.74	370.69	282.70	23.50
35.53	279.12	78.17	6.44	277.68	188.26	580.55	212.86	229.21	372.26	285.89	23.44
35.36	276.93	77.42	6.50	279.08	191.28	578.90	211.53	230.64	371.64	286.68	23.58
35.34	278.05	77.67	6.45	278.09	191.20	580.15	211.27	228.49	368.44	286.86	23.47
35.36	277.97	79.11	6.52	278.56	191.92	582.71	213.33	229.16	369.67	291.98	23.20
35.39	276.22	79.53	6.56	280.75	190.27	584.00	213.92	233.03	369.40	291.17	23.31
35.01	273.09	78.15	6.46	278.86	188.24	568.49	212.07	231.81	365.68	288.78	22.94
35.58	277.41	80.09	6.57	279.86	189.78	583.89	214.26	232.83	365.40	295.47	23.23
34.95	273.50	79.19	6.54	279.29	191.20	584.02	211.29	231.47	359.07	286.61	22.96
34.66	275.22	80.90	6.63	279.16	192.21	603.10	211.53	231.33	355.49	288.65	23.26
34.61	275.34	82.01	6.57	277.11	190.84	591.73	210.22	229.19	351.18	289.61	23.04
34.20	272.45	81.15	6.54	275.79	192.30	589.40	207.97	227.69	345.61	286.64	22.97
34.42	272.78	81.04	6.55	276.18	192.88	585.70	207.61	229.78	345.15	284.47	23.08
33.97	272.49	79.63	6.51	274.03	191.53	572.98	205.23	228.69	343.96	281.11	22.91
34.04	273.99	79.85	6.52	268.97	188.17	572.03	205.61	227.73	337.78	280.85	23.52
33.90	270.08	78.99	6.41	273.80	188.61	562.05	206.10	229.43	344.58	283.99	23.27
33.62	271.37	77.92	6.29	268.86	186.10	550.93	204.02	226.31	346.95	280.56	23.03
33.94	273.46	77.64	6.36	268.46	187.04	535.58	205.40	226.85	345.62	280.24	23.28
33.73	273.10	77.01	6.32	264.80	186.11	534.85	203.32	224.74	342.44	281.78	23.64
33.09	268.16	74.47	6.30	265.86	183.07	526.51	197.77	223.17	342.71	274.74	23.25
33.37	269.23	76.27	6.40	265.14	187.65	531.54	198.05	223.26	346.56	278.72	23.43
33.17	268.48	77.17	6.56	261.41	187.73	534.55	200.42	218.80	343.07	282.87	24.19
33.79	271.62	77.56	6.63	264.09	188.61	546.62	202.34	220.78	341.80	286.26	24.47
33.64	273.76	76.48	6.75	266.49	190.26	540.87	201.09	220.17	336.18	285.66	24.75
33.32	276.74	77.11	6.74	263.07	188.67	554.59	203.20	221.00	336.58	285.72	24.95
33.19	277.86	75.53	6.69	262.07	188.00	550.24	203.20	220.97	333.77	287.47	24.77
33.05	276.96	74.95	6.85	256.06	186.45	561.72	201.06	217.81	328.00	288.84	25.17
33.12	281.00	76.51	7.09	254.99	186.93	565.00	209.76	218.79	323.09	290.98	24.91
36.24	286.22	80.15	6.43	285.46	188.84	595.71	201.49	221.10	373.91	282.10	22.99
0.32	2.20	1.00	0.06	-	4.08	NA	4.08	NA	-	7.80	0.94
0.88	0.77	1.25	0.91	-	2.16	-	2.02	-	-	2.76	4.09

Date of Value Line Summary & Index	Est. Median Appreciation Potential 3 - 5 Yrs. Hence	Est. Median Annual Appreciation Potential	Est. Median Dividend Yield	Est. Median Annual Total Return
3-Sep-2021	35%	7.79%	1.80%	9.59%
27-Aug-2021	35%	7.79%	1.80%	9.59%
20-Aug-2021	35%	7.79%	1.80%	9.59%
13-Aug-2021	35%	7.79%	1.80%	9.59%
6-Aug-2021	35%	7.79%	1.80%	9.59%
30-Jul-2021	40%	8.78%	1.90%	10.68%
23-Jul-2021	30%	6.78%	1.80%	8.58%
16-Jul-2021	30%	6.78%	1.70%	8.48%
9-Jul-2021	30%	6.78%	1.70%	8.48%
2-Jul-2021	30%	6.78%	1.70%	8.48%
25-Jun-2021	30%	6.78%	1.70%	8.48%
18-Jun-2021	25%	5.74%	1.70%	7.44%
11-Jun-2021	30%	6.78%	1.70%	8.48%
Average	32%	7.19%	1.76%	8.95%

Blue Chip Financial Forecasts
Consensus Forecast Yield for 30-year Treasury Bonds

Third Quarter 2021	2.10 %	
Fourth Quarter 2021	2.20	
First Quarter 2022	2.30	
Second Quarter 2022	2.50	
Third Quarter 2022	2.50	
Fourth Quarter 2022	2.60	Projected
2023-2027	3.50	Market
2028-2032	3.90	Risk Premium
Average	2.70 %	6.25 %

	Aaa Bonds	Baa Bonds
Third Quarter 2021	2.70	3.40
Fourth Quarter 2021	2.90	3.70
First Quarter 2022	3.00	3.90
Second Quarter 2022	3.10	4.00
Third Quarter 2022	3.20	4.10
Fourth Quarter 2022	3.30	4.20
2023-2027	4.30	5.30
2028-2032	4.80	5.80
	3.41	4.3

Total Projected Return on S&P 500 Based on Value Line	12.35
Average of Value Line MRPs:	9.30
Ibbotson-Based MRPs:	
PRPM Results	8.77
SBBI Common Stocks Total Return - 1926 - 2020	12.20 %
SBBI Long-Term Gov't Bonds Income Return 1926 - 2020	5.05

Historical Market Risk Premium	7.15 %
Regression analysis on SBBI data 1926-2020	9.57
Average of Ibbotson-Based MRPs:	8.50
Total Projected Return on S&P 500 Based on Bloomberg	15.47
Average of Hist'l & Proj'd Market Risk Premium	9.93 %

Source of Information: Value Line Investment Survey
Blue Chip Financial Forecasts September 1, 2021 and June 1, 2021
Stocks, Bonds, Bills, and Inflation - 2020 SBBI Yearbook, Appendix A Tables, John Wiley & Sons, Inc.
Value Line Summary and Index

Proxy Group	**VL Beta**	**CEM Group**	**VL Beta**
AEE	0.80	ABT	0.90
AVA	0.95	ADI	0.95
BKH	1.00	AIZ	0.90
CMS	0.80	AOS	0.85
DUK	0.90	BDX	0.75
ED	0.75	BFB	0.90
ES	0.90	BR	0.85
MGEE	0.75	CACI	0.95
NWE	0.95	CERN	0.90
PEG	0.95	CHE	0.85
SO	0.95	COO	0.95
WEC	0.80	CSWI	0.90
XEL	0.80	DGX	0.80
		EL	0.95
		EXPO	0.90
		HSY	0.85
		INGR	0.90
		JBHT	0.95
		JJSF	0.95
		JKHY	0.85
		MANT	0.85
		MKC	0.80
		MNST	0.85
		MO	0.95
		MSCI	0.95
		MSI	0.90
		NOC	0.85
		ODFL	0.90
		PKI	0.90
		POST	0.95
		RLI	0.80
		ROL	0.85

SHW	0.95
SIGI	0.90
SIRI	0.95
SNPS	0.95
TXN	0.85
UHAL	0.95
UPS	0.80
VRSN	0.90
WAT	0.95
WSO	0.85
WU	0.80

Today: 8/31/2021

	NAME	TICKER	CUR_MKT_CAP	EQY_DVD_YLD_EST	BEST_EST_LONG_TERM_GROWTH	EQY_SH_OUT	PX_LAST
A UN Equity	Agilent Technologies Inc	A	53167410000	0.454778595	16.35	303	175.47
AAL UW Equity	American Airlines Group Inc	AAL	12910309150	0	#N/A N/A	647.4578	19.94
AAP UN Equity	Advance Auto Parts Inc	AAP	12779700312	1.657382302	14.72	63.00074	202.85
AAPL UW Equity	Apple Inc	AAPL	2.50978E+12	0.569057499	12.8	16530.17	151.83
ABBV UN Equity	AbbVie Inc	ABBV	2.13439E+11	4.236628581	2.423	1767.176	120.78
ABC UN Equity	AmerisourceBergen Corp	ABC	25393663446	1.45487276	10.085	207.7871	122.21
ABMD UW Equity	ABIOMED Inc	ABMD	16516589603	#N/A N/A	#N/A N/A	45.38023	363.96
ABT UN Equity	Abbott Laboratories	ABT	2.24031E+11	1.344464667	11.468	1772.817	126.37
ACN UN Equity	Accenture PLC	ACN	2.13748E+11	1.050927026	10.7	634.1366	336.56
ADBE UW Equity	Adobe Inc	ADBE	3.16187E+11	0	17.783	476.4	663.7
ADI UW Equity	Analog Devices Inc	ADI	87571134997	1.654495244	12.8	537.4111	162.95
ADM UN Equity	Archer-Daniels-Midland Co	ADM	33561988680	2.46	5.86	559.3665	60
ADP UW Equity	Automatic Data Processing Inc	ADP	88440759426	1.859931114	12.75	423.0806	209.04
ADSK UW Equity	Autodesk Inc	ADSK	68223928848	0	29	220.0133	310.09
AEE UN Equity	Ameren Corp	AEE	22404564937	2.486320109	7.595	255.41	87.72
AEP UW Equity	American Electric Power Co Inc	AEP	44807512434	3.333705482	5.88	500.2513	89.57
AES UN Equity	AES Corp/The	AES	15906006970	2.559698366	8.325	666.3597	23.87
AFL UN Equity	Aflac Inc	AFL	38017619661	2.328863797	#N/A N/A	670.7413	56.68
AIG UN Equity	American International Group Inc	AIG	46659844963	2.358870968	20.767	855.2024	54.56
AIZ UN Equity	Assurant Inc	AIZ	10004780645	1.573099759	17.92	58.8136	170.11
AJG UN Equity	Arthur J Gallagher & Co	AJG	29693435000	1.327113215	14.285	206.75	143.62
AKAM UW Equity	Akamai Technologies Inc	AKAM	18440479493	#N/A N/A	11.733	162.8298	113.25
ALB UN Equity	Albemarle Corp	ALB	27686711514	0.645011405	19.407	116.9499	236.74
ALGN UW Equity	Align Technology Inc	ALGN	56019183987	#N/A N/A	26.555	79.01154	709
ALK UN Equity	Alaska Air Group Inc	ALK	7180844222	0.076735263	#N/A N/A	125.2327	57.34
ALL UN Equity	Allstate Corp/The	ALL	39999780874	2.315198108	0.677	295.6814	135.28
ALLE UN Equity	Allegion plc	ALLE	12915349502	0.993124523	7.67	89.69616	143.99
AMAT UW Equity	Applied Materials Inc	AMAT	1.22013E+11	0.675645675	20.667	902.9285	135.13
AMCR UN Equity	Amcor PLC	AMCR	19767409327	3.789883268	6.725	1538.32	12.85
AMD UW Equity	Advanced Micro Devices Inc	AMD	1.343E+11	0	27.15	1212.965	110.72
AME UN Equity	AMETEK Inc	AME	31437028015	0.580275061	11.554	231.2056	135.97
AMGN UW Equity	Amgen Inc	AMGN	1.28068E+11	3.109564138	6.958	567.8524	225.53
AMP UN Equity	Ameriprise Financial Inc	AMP	31042403667	1.635704078	13.3	113.7459	272.91
AMT UN Equity	American Tower Corp	AMT	1.32979E+11	1.782523873	14.773	455.1413	292.17
AMZN UW Equity	Amazon.com Inc	AMZN	1.75775E+12	0	28.88	506.4405	3470.79
ANET UN Equity	Arista Networks Inc	ANET	28349097392	0	12.188	76.71663	369.53
ANSS UW Equity	ANSYS Inc	ANSS	31878581803	0	10.93	87.25252	365.36
ANTM UN Equity	Anthem Inc	ANTM	91462501012	1.181190521	11.413	243.8155	375.13
AON UN Equity	Aon PLC	AON	64757826588	0.682214321	16	225.7471	286.86
AOS UN Equity	A O Smith Corp	AOS	11575449539	1.479647965	10	133.1976	72.72
APA UW Equity	APA Corp	APA	7363859580	0.513347023	5.193	378.0215	19.48
APD UN Equity	Air Products and Chemicals Inc	APD	59659989517	2.150940596	13.805	221.3647	269.51
APH UN Equity	Amphenol Corp	APH	45838934558	0.849536735	13.68	598.1852	76.63
APTV UN Equity	Aptiv PLC	APTV	41168547687	0.112359551	18.395	270.5076	152.19
ARE UN Equity	Alexandria Real Estate Equities Inc	ARE	31443152104	2.167466201	7.44	152.363	206.37
ATO UN Equity	Atmos Energy Corp	ATO	12753412176	2.546405497	7.463	130.7908	97.51
ATVI UW Equity	Activision Blizzard Inc	ATVI	64059844615	0.568168022	13.625	777.7084	82.37
AVB UN Equity	AvalonBay Communities Inc	AVB	32053216679	2.772018469	8.49	139.6168	229.58
AVGO UW Equity	Broadcom Inc	AVGO	2.03986E+11	2.882082018	19.603	410.2606	497.21
AVY UN Equity	Avery Dennison Corp	AVY	18680997567	1.156661786	7.2	82.88299	225.39
AWK UN Equity	American Water Works Co Inc	AWK	33077594970	1.294375857	9.4	181.4957	182.25
AXP UN Equity	American Express Co	AXP	1.31844E+11	1.060496505	32.857	794.4331	165.96
AZO UN Equity	AutoZone Inc	AZO	33376052561	0	11.61	21.54475	1549.15
BA UN Equity	Boeing Co/The	BA	1.2866E+11	0	#N/A N/A	586.1519	219.5
BAC UN Equity	Bank of America Corp	BAC	3.51322E+11	1.861077844	15.1	8414.904	41.75
BAX UN Equity	Baxter International Inc	BAX	38103159636	1.369719234	10.667	499.9103	76.22
BBWI UN Equity	Bath & Body Works Inc	BBWI	17865235528	0.815056313	#N/A N/A	264.7486	67.48
BBY UN Equity	Best Buy Co Inc	BBY	28657291272	2.337996738	1.2	245.9642	116.51
BDX UN Equity	Becton Dickinson and Co	BDX	72285768306	1.502582439	7.74	287.1902	251.7
BEN UN Equity	Franklin Resources Inc	BEN	16312589729	3.449445129	#N/A N/A	502.8542	32.44
BF/B UN Equity	Brown-Forman Corp	BF/B	32943351056	1.042438052	5.525	309.691	70.22
BIIB UW Equity	Biogen Inc	BIIB	50508924167	0	-1.902	149.0334	338.91
BIO UN Equity	Bio-Rad Laboratories Inc	BIO	23748556361	0	12.5	24.70375	804.82
BK UN Equity	Bank of New York Mellon Corp/The	BK	47664450499	2.3596523	8.75	863.1737	55.22
BKNG UW Equity	Booking Holdings Inc	BKNG	94424084552	0	42.5	41.05984	2299.67
BKR UN Equity	Baker Hughes Co	BKR	23748469444	3.156277436	#N/A N/A	828.4871	22.78
BLK UN Equity	BlackRock Inc	BLK	1.44477E+11	1.73552142	8	152.1958	943.29
BLL UN Equity	Ball Corp	BLL	31341656813	0.729470613	8.4	326.6103	95.96
BMY UN Equity	Bristol-Myers Squibb Co	BMY	1.48571E+11	2.930002991	3.795	2222.114	66.86
BR UN Equity	Broadridge Financial Solutions Inc	BR	20006508932	1.465567298	11.9	116.1683	172.22
BRK/B UN Equity	Berkshire Hathaway Inc	BRK/B	6.4678E+11	#N/A N/A	2.3	1325.373	285.77
BSX UN Equity	Boston Scientific Corp	BSX	64286947057	0	16.85	1423.853	45.15
BWA UN Equity	BorgWarner Inc	BWA	10234244669	1.494845361	19.7	239.7902	42.68
BXP UN Equity	Boston Properties Inc	BXP	17645555422	3.489689353	-1.27	156.1692	112.99
C UN Equity	Citigroup Inc	C	1.45746E+11	2.853566959	19.53	2026.785	71.91
CAG UN Equity	Conagra Brands Inc	CAG	15908647507	3.538647343	7.8	480.3336	33.12
CAH UN Equity	Cardinal Health Inc	CAH	15245269506	3.796913698	4.03	290.4414	52.49
CARR UN Equity	Carrier Global Corp	CARR	49979600410	0.845486111	17.295	867.7014	57.6
CAT UN Equity	Caterpillar Inc	CAT	1.15445E+11	2.044861763	15.45	547.4715	210.87
CB UN Equity	Chubb Ltd	CB	80693066869	1.7284689	17.7	438.74	183.92
CBOE UF Equity	Cboe Global Markets Inc	CBOE	13450502173	1.361870789	#N/A N/A	106.6231	126.15
CBRE UN Equity	CBRE Group Inc	CBRE	32331415705	0.003115265	14.85	335.7364	96.3

Company	Ticker	Market Capitalization	Estimated Dividend Yield	Long-Term Growth Est.	DCF Result	% Total Mkt Cap	Weighted DCF Result
Agilent Technolog	A	$ 53,167.41	0.45%	16.35%	16.84%	0.13%	0.0224%
American Airlines	AAL	$ 12,910.31	0.00%	N/A	N/A	N/A	N/A
Advance Auto Par	AAP	$ 12,779.70	1.66%	14.72%	16.50%	0.03%	0.0053%
Apple Inc	AAPL	$ 2,509,775.10	0.57%	12.80%	13.41%	6.28%	0.8423%
AbbVie Inc	ABBV	$ 213,439.46	4.24%	2.42%	6.71%	0.53%	0.0359%
AmerisourceBerge	ABC	$ 25,393.66	1.45%	10.09%	11.61%	0.06%	0.0074%
ABIOMED Inc	ABMD	$ 16,516.59	0.00%	N/A	N/A	N/A	N/A
Abbott Laboratorie	ABT	$ 224,030.93	1.34%	11.47%	12.89%	0.56%	0.0723%
Accenture PLC	ACN	$ 213,748.00	1.05%	10.70%	11.81%	0.54%	0.0632%
Adobe Inc	ADBE	$ 316,186.68	0.00%	17.78%	17.78%	0.79%	0.1408%
Analog Devices In	ADI	$ 87,571.13	1.65%	12.80%	14.56%	0.22%	0.0319%
Archer-Daniels-Mi	ADM	$ 33,561.99	2.46%	5.86%	8.39%	0.08%	0.0071%
Automatic Data Pr	ADP	$ 88,440.76	1.86%	12.75%	14.73%	0.22%	0.0326%
Autodesk Inc	ADSK	$ 68,223.93	0.00%	29.00%	29.00%	0.17%	0.0495%
Ameren Corp	AEE	$ 22,404.56	2.49%	7.60%	10.18%	0.06%	0.0057%
American Electric	AEP	$ 44,807.51	3.33%	5.88%	9.31%	0.11%	0.0104%
AES Corp/The	AES	$ 15,906.01	2.56%	8.33%	10.99%	0.04%	0.0044%
Aflac Inc	AFL	$ 38,017.62	2.33%	N/A	N/A	N/A	N/A
American Internati	AIG	$ 46,659.84	2.36%	20.77%	23.37%	0.12%	0.0273%
Assurant Inc	AIZ	$ 10,004.78	1.57%	17.92%	19.63%	0.03%	0.0049%
Arthur J Gallagher	AJG	$ 29,693.44	1.33%	14.29%	15.71%	0.07%	0.0117%
Akamai Technolog	AKAM	$ 18,440.48	0.00%	11.73%	11.73%	0.05%	0.0054%
Albemarle Corp	ALB	$ 27,686.71	0.65%	19.41%	20.11%	0.07%	0.0139%
Align Technology	ALGN	$ 56,019.18	0.00%	26.56%	26.56%	0.14%	0.0372%
Alaska Air Group I	ALK	$ 7,180.84	0.08%	N/A	N/A	N/A	N/A
Allstate Corp/The	ALL	$ 39,999.78	2.32%	0.68%	3.00%	0.10%	0.0030%
Allegion plc	ALLE	$ 12,915.35	0.99%	7.67%	8.70%	0.03%	0.0028%
Applied Materials	AMAT	$ 122,012.73	0.68%	20.67%	21.41%	0.31%	0.0654%
Amcor PLC	AMCR	$ 19,767.41	3.79%	6.73%	10.64%	0.05%	0.0053%
Advanced Micro D	AMD	$ 134,299.52	0.00%	27.15%	27.15%	0.34%	0.0913%
AMETEK Inc	AME	$ 31,437.03	0.58%	11.55%	12.17%	0.08%	0.0096%
Amgen Inc	AMGN	$ 128,067.74	3.11%	6.96%	10.18%	0.32%	0.0326%
Ameriprise Financ	AMP	$ 31,042.40	1.64%	13.30%	15.04%	0.08%	0.0117%
American Tower C	AMT	$ 132,978.63	1.78%	14.77%	16.69%	0.33%	0.0556%
Amazon.com Inc	AMZN	$ 1,757,748.69	0.00%	28.88%	28.88%	4.40%	1.2709%
Arista Networks In	ANET	$ 28,349.10	0.00%	12.19%	12.19%	0.07%	0.0087%
ANSYS Inc	ANSS	$ 31,878.58	0.00%	10.93%	10.93%	0.08%	0.0087%
Anthem Inc	ANTM	$ 91,462.50	1.18%	11.41%	12.66%	0.23%	0.0290%
Aon PLC	AON	$ 64,757.83	0.68%	16.00%	16.74%	0.16%	0.0271%
A O Smith Corp	AOS	$ 11,575.45	1.48%	10.00%	11.55%	0.03%	0.0033%
APA Corp	APA	$ 7,363.86	0.51%	5.19%	5.72%	0.02%	0.0011%
Air Products and C	APD	$ 59,659.99	2.15%	13.81%	16.10%	0.15%	0.0241%
Amphenol Corp	APH	$ 45,838.93	0.85%	13.68%	14.59%	0.11%	0.0167%
Aptiv PLC	APTV	$ 41,168.55	0.11%	18.40%	18.52%	0.10%	0.0191%
Alexandria Real E	ARE	$ 31,443.15	2.17%	7.44%	9.69%	0.08%	0.0076%
Atmos Energy Cor	ATO	$ 12,753.41	2.55%	7.46%	10.10%	0.03%	0.0032%
Activision Blizzard	ATVI	$ 64,059.84	0.57%	13.63%	14.23%	0.16%	0.0228%
AvalonBay Comm	AVB	$ 32,053.22	2.77%	8.49%	11.38%	0.08%	0.0091%
Broadcom Inc	AVGO	$ 203,985.65	2.88%	19.60%	22.77%	0.51%	0.1163%
Avery Dennison C	AVY	$ 18,681.00	1.16%	7.20%	8.40%	0.05%	0.0039%
American Water W	AWK	$ 33,077.59	1.29%	9.40%	10.76%	0.08%	0.0089%
American Express	AXP	$ 131,844.11	1.06%	32.86%	34.09%	0.33%	0.1125%
AutoZone Inc	AZO	$ 33,376.05	0.00%	11.61%	11.61%	0.08%	0.0097%
Boeing Co/The	BA	$ 128,660.34	0.00%	N/A	N/A	N/A	N/A
Bank of America C	BAC	$ 351,322.24	1.86%	15.10%	17.10%	0.88%	0.1504%
Baxter Internationa	BAX	$ 38,103.16	1.37%	10.67%	12.11%	0.10%	0.0116%
Bath & Body Work	BBWI	$ 17,865.24	0.82%	N/A	N/A	N/A	N/A
Best Buy Co Inc	BBY	$ 28,657.29	2.34%	1.20%	3.55%	0.07%	0.0025%
Becton Dickinson	BDX	$ 72,285.77	1.50%	7.74%	9.30%	0.18%	0.0168%
Franklin Resource	BEN	$ 16,312.59	3.45%	N/A	N/A	N/A	N/A
Brown-Forman Cc	BF/B	$ 32,943.35	1.04%	5.53%	6.60%	0.08%	0.0054%
Biogen Inc	BIIB	$ 50,508.92	0.00%	-1.90%	-1.90%	0.13%	-0.0024%
Bio-Rad Laborator	BIO	$ 23,748.56	0.00%	12.50%	12.50%	0.06%	0.0074%
Bank of New York	BK	$ 47,664.45	2.36%	8.75%	11.21%	0.12%	0.0134%
Booking Holdings	BKNG	$ 94,424.08	0.00%	42.50%	42.50%	0.24%	0.1005%
Baker Hughes Co	BKR	$ 23,748.47	3.16%	N/A	N/A	N/A	N/A
BlackRock Inc	BLK	$ 144,476.60	1.74%	8.00%	9.80%	0.36%	0.0355%
Ball Corp	BLL	$ 31,341.66	0.73%	8.40%	9.16%	0.08%	0.0072%
Bristol-Myers Squi	BMY	$ 148,570.51	2.93%	3.80%	6.78%	0.37%	0.0252%
Broadridge Financ	BR	$ 20,006.51	1.47%	11.90%	13.45%	0.05%	0.0067%
Berkshire Hathaw	BRK/B	$ 646,779.90	0.00%	2.30%	2.30%	1.62%	0.0372%
Boston Scientific C	BSX	$ 64,286.95	0.00%	16.85%	16.85%	0.16%	0.0271%
BorgWarner Inc	BWA	$ 10,234.24	1.49%	19.70%	21.34%	0.03%	0.0055%
Boston Properties	BXP	$ 17,645.56	3.49%	-1.27%	2.20%	0.04%	0.0010%
Citigroup Inc	C	$ 145,746.12	2.85%	19.53%	22.66%	0.36%	0.0827%
Conagra Brands In	CAG	$ 15,908.65	3.54%	7.80%	11.48%	0.04%	0.0046%
Cardinal Health In	CAH	$ 15,245.27	3.80%	4.03%	7.90%	0.04%	0.0030%
Carrier Global Cor	CARR	$ 49,979.60	0.85%	17.30%	18.21%	0.13%	0.0228%
Caterpillar Inc	CAT	$ 115,445.31	2.04%	15.45%	17.65%	0.29%	0.0510%
Chubb Ltd	CB	$ 80,693.07	1.73%	17.70%	19.58%	0.20%	0.0396%
Cboe Global Mark	CBOE	$ 13,450.50	1.36%	N/A	N/A	N/A	N/A
CBRE Group Inc	CBRE	$ 32,331.42	0.00%	14.85%	14.85%	0.08%	0.0120%

CCI UN Equity	Crown Castle International Corp	CCI	84144307382	2.783912887		16.067	432.1964	194.69	Crown Castle Inte	CCI	$	84,144.31	2.78%	16.07%	19.07%	0.21%	0.0402%
CCL UN Equity	Carnival Corp	CCL	26845325836	0	#N/A N/A		973.8245	24.14	Carnival Corp	CCL	$	26,845.33	0.00%	N/A	N/A	N/A	N/A
CDNS UW Equity	Cadence Design Systems Inc	CDNS	45247994400	0.203694642		11.56	276.78	163.48	Cadence Design S	CDNS	$	45,247.99	0.20%	11.56%	11.78%	0.11%	0.0133%
CDW UW Equity	CDW Corp/DE	CDW	27582965033	0.827974677		13.1	137.4955	200.61	CDW Corp/DE	CDW	$	27,582.97	0.83%	13.10%	13.98%	0.07%	0.0097%
CE UN Equity	Celanese Corp	CE	17622909101	1.71185372		16.29	111.1154	158.6	Celanese Corp	CE	$	17,622.91	1.71%	16.29%	18.14%	0.04%	0.0080%
CERN UW Equity	Cerner Corp	CERN	22567976594	1.117223314		7.89	295.5858	76.35	Cerner Corp	CERN	$	22,567.98	1.12%	7.89%	9.05%	0.06%	0.0051%
CF UN Equity	CF Industries Holdings Inc	CF	9769840501	2.642007926		7.2	215.1	45.42	CF Industries Hold	CF	$	9,769.84	2.64%	7.20%	9.94%	0.02%	0.0024%
CFG UN Equity	Citizens Financial Group Inc	CFG	18658181007	3.605846084		28.76	426.0831	43.79	Citizens Financial	CFG	$	18,658.18	3.61%	28.76%	32.88%	0.05%	0.0154%
CHD UN Equity	Church & Dwight Co Inc	CHD	20542144698	1.213244083		7.5	245.5432	83.66	Church & Dwight (	CHD	$	20,542.14	1.21%	7.50%	8.76%	0.05%	0.0045%
CHRW UW Equity	CH Robinson Worldwide Inc	CHRW	11861959845	2.35176549		13.467	131.7117	90.06	CH Robinson Wor	CHRW	$	11,861.96	2.35%	13.47%	15.98%	0.03%	0.0047%
CHTR UW Equity	Charter Communications Inc	CHTR	1.70228E+11	0		36.014	183.8222	816.66	Charter Communi	CHTR	$	170,228.28	0.00%	36.01%	36.01%	0.43%	0.1535%
CI UN Equity	Cigna Corp	CI	71983760629	2.133238838		9.515	340.1075	211.65	Cigna Corp	CI	$	71,983.76	2.13%	9.52%	11.75%	0.18%	0.0212%
CINF UW Equity	Cincinnati Financial Corp	CINF	19889967269	2.012155592	#N/A N/A		161.1829	123.4	Cincinnati Financi	CINF	$	19,889.97	2.01%	N/A	N/A	N/A	N/A
CL UN Equity	Colgate-Palmolive Co	CL	65751876546	2.389993586		5.95	843.5135	77.95	Colgate-Palmolive	CL	$	65,751.88	2.39%	5.95%	8.41%	0.16%	0.0138%
CLX UN Equity	Clorox Co/The	CLX	20638737254	2.780720024		5	122.8131	168.05	Clorox Co/The	CLX	$	20,638.74	2.78%	5.00%	7.85%	0.05%	0.0041%
CMA UN Equity	Comerica Inc	CMA	9898296972	3.695034501		21.975	133.9237	73.91	Comerica Inc	CMA	$	9,898.30	3.70%	21.98%	26.08%	0.02%	0.0065%
CMCSA UW Equity	Comcast Corp	CMCSA	2.78505E+11	1.641397495		14.44	4580.293	60.68	Comcast Corp	CMCSA	$	278,505.26	1.64%	14.44%	16.20%	0.70%	0.1130%
CME UW Equity	CME Group Inc	CME	72445371824	3.161312711	#N/A N/A		359.1351	201.72	CME Group Inc	CME	$	72,445.37	3.16%	N/A	N/A	N/A	N/A
CMG UN Equity	Chipotle Mexican Grill Inc	CMG	53473805110	0		26.05	28.09487	1903.33	Chipotle Mexican	CMG	$	53,473.81	0.00%	26.05%	26.05%	0.13%	0.0349%
CMI UN Equity	Cummins Inc	CMI	33888418089	2.361217052		12.197	143.6072	235.98	Cummins Inc	CMI	$	33,888.42	2.36%	12.20%	14.70%	0.08%	0.0125%
CMS UN Equity	CMS Energy Corp	CMS	18575526283	2.710120069		5.87	289.6542	64.13	CMS Energy Corp	CMS	$	18,575.53	2.71%	5.87%	8.66%	0.05%	0.0040%
CNC UN Equity	Centene Corp	CNC	36720083598	0		9.863	583.0436	62.98	Centene Corp	CNC	$	36,720.08	0.00%	9.86%	9.86%	0.09%	0.0091%
CNP UN Equity	CenterPoint Energy Inc	CNP	14564640952	2.510960542		3.573	580.4959	25.09	CenterPoint Energ	CNP	$	14,564.64	2.51%	3.57%	6.13%	0.04%	0.0022%
COF UN Equity	Capital One Financial Corp	COF	74041502241	1.510513948		50.647	446.1138	165.97	Capital One Finan	COF	$	74,041.50	1.51%	50.65%	52.54%	0.19%	0.0974%
COG UN Equity	Cabot Oil & Gas Corp	COG	6350663836	3.303964758		43.37	399.6642	15.89	Cabot Oil & Gas C	COG	$	6,350.66	3.30%	43.37%	47.39%	0.02%	0.0075%
COO UN Equity	Cooper Cos Inc/The	COO	22196541742	0.013312329		11.067	49.24795	450.71	Cooper Cos Inc/Th	COO	$	22,196.54	0.01%	11.07%	11.08%	0.06%	0.0062%
COP UN Equity	ConocoPhillips	COP	74359228069	3.138843868		1.5	1339.082	55.53	ConocoPhillips	COP	$	74,359.23	3.14%	1.50%	4.66%	0.19%	0.0087%
COST UW Equity	Costco Wholesale Corp	COST	2.01358E+11	0.638872423		10.208	442.0691	455.49	Costco Wholesale	COST	$	201,358.05	0.64%	10.21%	10.88%	0.50%	0.0548%
CPB UN Equity	Campbell Soup Co	CPB	12646338594	3.484303858		7.39	303.0515	41.73	Campbell Soup Co	CPB	$	12,646.34	3.48%	7.39%	11.00%	0.03%	0.0035%
CPRT UW Equity	Copart Inc	CPRT	34143008831	#N/A N/A	#N/A N/A		236.5785	144.32	Copart Inc	CPRT	$	34,143.01	0.00%	N/A	N/A	N/A	N/A
CRL UN Equity	Charles River Laboratories International	CRL	22369044641	0		16.233	50.39662	443.86	Charles River Lab	CRL	$	22,369.04	0.00%	16.23%	16.23%	0.06%	0.0091%
CRM UN Equity	salesforce.com Inc	CRM	2.59699E+11	0		21.467	979	265.27	salesforce.com Inc	CRM	$	259,699.33	0.00%	21.47%	21.47%	0.65%	0.1396%
CSCO UW Equity	Cisco Systems Inc/Delaware	CSCO	2.48722E+11	2.531345307		6.333	4214.205	59.02	Cisco Systems Inc	CSCO	$	248,722.36	2.53%	6.33%	8.94%	0.62%	0.0557%
CSX UW Equity	CSX Corp	CSX	73338751952	1.168152475		12.82	2254.496	32.53	CSX Corp	CSX	$	73,338.75	1.17%	12.82%	14.06%	0.18%	0.0258%
CTAS UW Equity	Cintas Corp	CTAS	40751346554	0.844429846		9.337	102.9672	395.77	Cintas Corp	CTAS	$	40,751.35	0.84%	9.34%	10.22%	0.10%	0.0104%
CTLT UN Equity	Catalent Inc	CTLT	22277487325	#N/A N/A		15.86	170.7872	130.44	Catalent Inc	CTLT	$	22,277.49	0.00%	15.86%	15.86%	0.06%	0.0088%
CTSH UW Equity	Cognizant Technology Solutions Corp	CTSH	40108322332	1.263268248		12	525.5972	76.31	Cognizant Techno	CTSH	$	40,108.32	1.26%	12.00%	13.34%	0.10%	0.0134%
CTVA UN Equity	Corteva Inc	CTVA	32292491370	1.241755743		17.7	734.421	43.97	Corteva Inc	CTVA	$	32,292.49	1.24%	17.70%	19.05%	0.08%	0.0154%
CTXS UW Equity	Citrix Systems Inc	CTXS	12779574275	1.433848547		5.2	124.2321	102.87	Citrix Systems Inc	CTXS	$	12,779.75	1.43%	5.20%	6.67%	0.03%	0.0021%
CVS UN Equity	CVS Health Corp	CVS	1.13998E+11	2.312767681		6.225	1319.575	86.39	CVS Health Corp	CVS	$	113,998.06	2.31%	6.23%	8.61%	0.29%	0.0246%
CVX UN Equity	Chevron Corp	CVX	1.87145E+11	5.486204402		-1.95	1933.912	96.77	Chevron Corp	CVX	$	187,144.66	5.49%	-1.95%	3.48%	0.47%	0.0163%
CZR UW Equity	Caesars Entertainment Inc	CZR	21690852179	0	#N/A N/A		213.4296	101.63	Caesars Entertain	CZR	$	21,690.85	0.00%	N/A	N/A	N/A	N/A
D UN Equity	Dominion Energy Inc	D	62932653300	3.233556012		6.987	808.4873	77.84	Dominion Energy	D	$	62,932.65	3.23%	6.99%	10.33%	0.16%	0.0163%
DAL UN Equity	Delta Air Lines Inc	DAL	25878157666	0	#N/A N/A		639.9149	40.44	Delta Air Lines Inc	DAL	$	25,878.16	0.00%	N/A	N/A	N/A	N/A
DD UN Equity	DuPont de Nemours Inc	DD	38716656342	1.63334234		10.557	523.0567	74.02	DuPont de Nemou	DD	$	38,716.66	1.63%	10.56%	12.28%	0.10%	0.0119%
DE UN Equity	Deere & Co	DE	1.17213E+11	0.884585879		39.56	310.0615	378.03	Deere & Co	DE	$	117,212.54	0.88%	39.56%	40.62%	0.29%	0.1192%
DFS UN Equity	Discover Financial Services	DFS	38397843377	1.466229917		55.73	299.4684	128.22	Discover Financia	DFS	$	38,397.84	1.47%	55.73%	57.60%	0.10%	0.0554%
DG UN Equity	Dollar General Corp	DG	52007180694	0.751424342		10.738	233.3102	222.91	Dollar General Co	DG	$	52,007.18	0.75%	10.74%	11.53%	0.13%	0.0150%
DGX UN Equity	Quest Diagnostics Inc	DGX	18672885398	1.59261925		-4.79	122.1808	152.83	Quest Diagnostics	DGX	$	18,672.89	1.59%	-4.79%	-3.24%	0.05%	-0.0015%
DHI UN Equity	DR Horton Inc	DHI	34250551970	0.835599247		30.3	358.1944	95.62	DR Horton Inc	DHI	$	34,250.55	0.84%	30.30%	31.26%	0.09%	0.0268%
DHR UN Equity	Danaher Corp	DHR	2.31418E+11	0.279800099		12.88	713.8996	324.16	Danaher Corp	DHR	$	231,417.68	0.28%	12.88%	13.18%	0.58%	0.0763%
DIS UN Equity	Walt Disney Co/The	DIS	3.29445E+11	0.050744622		64.457	1817.127	181.3	Walt Disney Co/Th	DIS	$	329,445.05	0.05%	64.46%	64.52%	0.82%	0.5322%
DISCA UW Equity	Discovery Inc	DISCA	19782496110	0		9.2	169.087	28.84	Discovery Inc	DISCA	$	19,782.50	0.00%	9.20%	9.20%	0.05%	0.0046%
DISH UW Equity	DISH Network Corp	DISH	23010692190	0		7.265	289.454	43.59	DISH Network Cor	DISH	$	23,010.69	0.00%	7.27%	7.27%	0.06%	0.0042%
DLR UN Equity	Digital Realty Trust Inc	DLR	47476340873	2.82899152		29.7	282.5934	163.91	Digital Realty Trus	DLR	$	47,476.34	2.83%	29.70%	32.95%	0.12%	0.0392%
DLTR UW Equity	Dollar Tree Inc	DLTR	20363520529	0		10.155	224.9119	90.54	Dollar Tree Inc	DLTR	$	20,363.52	0.00%	10.16%	10.16%	0.05%	0.0052%
DOV UN Equity	Dover Corp	DOV	25101028278	1.145905024		13.6	143.9609	174.36	Dover Corp	DOV	$	25,101.03	1.15%	13.60%	14.82%	0.06%	0.0093%
DOW UN Equity	Dow Inc	DOW	46874643568	4.454689984		27.49	745.2249	62.9	Dow Inc	DOW	$	46,874.64	4.45%	27.49%	32.56%	0.12%	0.0382%
DPZ UN Equity	Domino's Pizza Inc	DPZ	19049573124	0.728007893		13.15	36.85421	516.89	Domino's Pizza In	DPZ	$	19,049.57	0.73%	13.15%	13.93%	0.05%	0.0066%
DRE UN Equity	Duke Realty Corp	DRE	19866654982	1.965339935		4.99	378.3404	52.51	Duke Realty Corp	DRE	$	19,866.65	1.97%	4.99%	7.00%	0.05%	0.0035%
DRI UN Equity	Darden Restaurants Inc	DRI	19632779860	2.900763359		11.7	130.3205	150.65	Darden Restauran	DRI	$	19,632.78	2.90%	11.70%	14.77%	0.05%	0.0073%
DTE UN Equity	DTE Energy Co	DTE	23316062008	3.409506399		3.733	193.7516	120.34	DTE Energy Co	DTE	$	23,316.06	3.41%	3.73%	7.21%	0.06%	0.0042%
DUK UN Equity	Duke Energy Corp	DUK	80483540000	3.757882668		4.16	769	104.66	Duke Energy Corp	DUK	$	80,483.54	3.76%	4.16%	8.00%	0.20%	0.0161%
DVA UN Equity	DaVita Inc	DVA	13704696000	#N/A N/A		14.195	104.8	130.77	DaVita Inc	DVA	$	13,704.70	0.00%	14.20%	14.20%	0.03%	0.0049%
DVN UN Equity	Devon Energy Corp	DVN	20005350000	3.736040609		16.59	677	29.55	Devon Energy Cor	DVN	$	20,005.35	3.74%	16.59%	20.64%	0.05%	0.0103%
DXC UN Equity	DXC Technology Co	DXC	9249923766	0.544662309		27.62	251.9042	36.72	DXC Technology (	DXC	$	9,249.92	0.54%	27.62%	28.24%	0.02%	0.0065%
DXCM UW Equity	Dexcom Inc	DXCM	51220803167	0		15.195	96.7489	529.42	Dexcom Inc	DXCM	$	51,220.80	0.00%	15.20%	15.20%	0.13%	0.0195%
EA UW Equity	Electronic Arts Inc	EA	41324124194	0.321603195		15.7	284.5818	145.21	Electronic Arts Inc	EA	$	41,324.12	0.32%	15.70%	16.05%	0.10%	0.0166%
EBAY UW Equity	eBay Inc	EBAY	49885282476	0.927808183		10.375	650.0558	76.74	eBay Inc	EBAY	$	49,885.28	0.93%	10.38%	11.35%	0.12%	0.0142%
ECL UN Equity	Ecolab Inc	ECL	64472616575	0.89057508		15.45	286.0872	225.36	Ecolab Inc	ECL	$	64,472.62	0.89%	15.45%	16.41%	0.16%	0.0265%
ED UN Equity	Consolidated Edison Inc	ED	26662657414	4.129887343		3.3	353.3818	75.45	Consolidated Edis	ED	$	26,662.66	4.13%	3.30%	7.50%	0.07%	0.0050%
EFX UN Equity	Equifax Inc	EFX	33171417036	0.572981709		15.705	121.8373	272.26	Equifax Inc	EFX	$	33,171.42	0.57%	15.71%	16.32%	0.08%	0.0136%
EIX UN Equity	Edison International	EIX	21962125574	4.604080221		3.9	379.7048	57.84	Edison Internation	EIX	$	21,962.13	4.60%	3.90%	8.59%	0.05%	0.0047%
EL UN Equity	Estee Lauder Cos Inc/The	EL	1.23015E+11	0.673734911		15	233.0452	340.49	Estee Lauder Cos	EL	$	123,014.69	0.67%	15.00%	15.72%	0.31%	0.0484%
EMN UN Equity	Eastman Chemical Co	EMN	15365172482	2.415164369		13.885	135.7827	113.16	Eastman Chemica	EMN	$	15,365.17	2.42%	13.89%	16.47%	0.04%	0.0063%
EMR UN Equity	Emerson Electric Co	EMR	63067900000	1.921327014		10.343	597.8	105.5	Emerson Electric (	EMR	$	63,067.90	1.92%	10.34%	12.36%	0.16%	0.0195%
ENPH UQ Equity	Enphase Energy Inc	ENPH	23387740381	0		34.325	134.6212	173.73	Enphase Energy I	ENPH	$	23,387.74	0.00%	34.33%	34.33%	0.06%	0.0201%
EOG UN Equity	EOG Resources Inc	EOG	39422237733	3.625592417		13.08	583.8602	67.52	EOG Resources Ir	EOG	$	39,422.24	3.63%	13.08%	16.94%	0.10%	0.0167%
EQIX UW Equity	Equinix Inc	EQIX	75699812094	1.362262138		23.55	89.75021	843.45	Equinix Inc	EQIX	$	75,699.81	1.36%	23.55%	25.07%	0.19%	0.0475%
EQR UN Equity	Equity Residential	EQR	31480628322	2.873795646		9.13	374.4573	84.07	Equity Residential	EQR	$	31,480.63	2.87%	9.13%	12.13%	0.08%	0.0096%
ES UN Equity	Eversource Energy	ES	31178752526	2.656232779		7.77	343.6433	90.73	Eversource Energ	ES	$	31,178.75	2.66%	7.77%	10.53%	0.08%	0.0082%
ESS UN Equity	Essex Property Trust Inc	ESS	21509613390	2.528572292		8.04	65.03481	330.74	Essex Property Tr	ESS	$	21,509.61	2.53%	8.04%	10.67%	0.05%	0.0057%
ETN UN Equity	Eaton Corp PLC	ETN	67108296000	1.819315752		11.525	398.6	168.36	Eaton Corp PLC	ETN	$	67,108.30	1.82%	11.53%	13.45%	0.17%	0.0226%
ETR UN Equity	Entergy Corp	ETR	22227583550	3.502395805		3.217	200.9546	110.61	Entergy Corp	ETR	$	22,227.58	3.50%	3.22%	6.78%	0.06%	0.0038%
ETSY UW Equity	Etsy Inc	ETSY	27373498119	0		20.5	126.5768	216.26	Etsy Inc	ETSY	$	27,373.50	0.00%	20.50%	20.50%	0.07%	0.0140%
EVRG UN Equity	Evergy Inc	EVRG	15537683856	3.138056976		8.6	226.9932	68.45	Evergy Inc	EVRG	$	15,537.68	3.14%	8.60%	11.87%	0.04%	0.0046%
EW UN Equity	Edwards Lifesciences Corp	EW	73041556643	0		15.667	623.3278	117.18	Edwards Lifescien	EW	$	73,041.56	0.00%	15.67%	15.67%	0.18%	0.0286%

EXC UW Equity	Exelon Corp	EXC	47880777112	3.168094655		0.927	976.76	49.02	Exelon Corp	EXC	$	47,880.78	3.17%	0.93%	4.11%	0.12%	0.0049%
EXPD UW Equity	Expeditors International of Washington I	EXPD	21175233933	0.887355584		11.4	169.8912	124.64	Expeditors Interna	EXPD	$	21,175.23	0.89%	11.40%	12.34%	0.05%	0.0065%
EXPE UW Equity	Expedia Group Inc	EXPE	21793461389	0		4	145.2963	144.5	Expedia Group Inc	EXPE	$	21,793.46	0.00%	4.00%	4.00%	0.05%	0.0022%
EXR UN Equity	Extra Space Storage Inc	EXR	25009926555	2.203199401		8.6	133.8073	186.91	Extra Space Stora	EXR	$	25,009.93	2.20%	8.60%	10.90%	0.06%	0.0068%
F UN Equity	Ford Motor Co	F	52051780028	0.575594781		48.345	3923.912	13.03	Ford Motor Co	F	$	52,051.78	0.58%	48.35%	49.06%	0.13%	0.0639%
FANG UW Equity	Diamondback Energy Inc	FANG	13966478407	2.168784029		16.035	181.0536	77.14	Diamondback Ene	FANG	$	13,966.48	2.17%	16.04%	18.38%	0.03%	0.0064%
FAST UW Equity	Fastenal Co	FAST	32099195099	2.005371531		7.85	574.7394	55.85	Fastenal Co	FAST	$	32,099.20	2.01%	7.85%	9.93%	0.08%	0.0080%
FB UW Equity	Facebook Inc	FB	1.06964E+12	0		26.977	2383.812	379.38	Facebook Inc	FB	$	1,069,640.85	0.00%	26.98%	26.98%	2.68%	0.7224%
FBHS UN Equity	Fortune Brands Home & Security Inc	FBHS	13425270927	1.059874705		11.6	137.8789	97.37	Fortune Brands H	FBHS	$	13,425.27	1.06%	11.60%	12.72%	0.03%	0.0043%
FCX UN Equity	Freeport-McMoRan Inc	FCX	53422862897	0.783182193	#N/A N/A		1468.064	36.39	Freeport-McMoRa	FCX	$	53,422.86	0.78%	N/A	N/A	N/A	N/A
FDX UN Equity	FedEx Corp	FDX	70724267395	1.129135459		13.55	266.1909	265.69	FedEx Corp	FDX	$	70,724.27	1.13%	13.55%	14.76%	0.18%	0.0261%
FE UN Equity	FirstEnergy Corp	FE	21152806670	4.013377926		0.38	544.1936	38.87	FirstEnergy Corp	FE	$	21,152.81	4.01%	0.38%	4.40%	0.05%	0.0023%
FFIV UW Equity	F5 Networks Inc	FFIV	12277765343	0		14.775	60.31225	203.57	F5 Networks Inc	FFIV	$	12,277.77	0.00%	14.78%	14.78%	0.03%	0.0045%
FIS UN Equity	Fidelity National Information Services I	FIS	78922341761	1.195898881		13.097	617.6907	127.77	Fidelity National Ir	FIS	$	78,922.34	1.20%	13.10%	14.37%	0.20%	0.0284%
FISV UW Equity	Fiserv Inc	FISV	78001093380	0		17.457	662.2047	117.79	Fiserv Inc	FISV	$	78,001.09	0.00%	17.46%	17.46%	0.20%	0.0341%
FITB UW Equity	Fifth Third Bancorp	FITB	26841312089	2.923314462		13	690.7183	38.86	Fifth Third Bancor	FITB	$	26,841.31	2.92%	13.00%	16.11%	0.07%	0.0108%
FLT UN Equity	FleetCor Technologies Inc	FLT	21748008764	0		15.04	82.60411	263.28	FleetCor Technolc	FLT	$	21,748.01	0.00%	15.04%	15.04%	0.05%	0.0082%
FMC UN Equity	FMC Corp	FMC	12050123605	2.106162555		9.233	128.6994	93.63	FMC Corp	FMC	$	12,050.12	2.11%	9.23%	11.44%	0.03%	0.0035%
FOXA UW Equity	Fox Corp	FOXA	20813581762	1.308760684		8.04	323.4041	37.44	Fox Corp	FOXA	$	20,813.58	1.31%	8.04%	9.40%	0.05%	0.0049%
FRC UN Equity	First Republic Bank/CA	FRC	35562420301	0.431285815		17.17	178.7595	198.94	First Republic Ban	FRC	$	35,562.42	0.43%	17.17%	17.64%	0.09%	0.0157%
FRT UN Equity	Federal Realty Investment Trust	FRT	9469826408	3.500862281		7.39	77.76814	121.77	Federal Realty Inv	FRT	$	9,469.83	3.50%	7.39%	11.02%	0.02%	0.0026%
FTNT UW Equity	Fortinet Inc	FTNT	51468727828	0		15.175	163.3202	315.14	Fortinet Inc	FTNT	$	51,468.73	0.00%	15.18%	15.18%	0.13%	0.0196%
FTV UN Equity	Fortive Corp	FTV	26474336005	0.392581562		8.015	358.3909	73.87	Fortive Corp	FTV	$	26,474.34	0.39%	8.02%	8.42%	0.07%	0.0056%
GD UN Equity	General Dynamics Corp	GD	55994940638	2.352353852		8.657	279.5414	200.31	General Dynamics	GD	$	55,994.94	2.35%	8.66%	11.11%	0.14%	0.0156%
GE UN Equity	General Electric Co	GE	1.15705E+11	0.27321886		94.85	1097.663	105.41	General Electric C	GE	$	115,704.64	0.27%	94.85%	95.25%	0.29%	0.2759%
GILD UW Equity	Gilead Sciences Inc	GILD	91252251043	3.863698818		10.49	1253.809	72.78	Gilead Sciences Ir	GILD	$	91,252.25	3.86%	10.49%	14.56%	0.23%	0.0333%
GIS UN Equity	General Mills Inc	GIS	35048888401	3.601453036		6.35	606.2773	57.81	General Mills Inc	GIS	$	35,048.89	3.60%	6.35%	10.07%	0.09%	0.0088%
GL UN Equity	Globe Life Inc	GL	9772298811	0.82231706	#N/A N/A		101.7206	96.07	Globe Life Inc	GL	$	9,772.30	0.82%	N/A	N/A	N/A	N/A
GLW UN Equity	Corning Inc	GLW	34152744839	2.40060015		20.23	854.0321	39.99	Corning Inc	GLW	$	34,152.74	2.40%	20.23%	22.87%	0.09%	0.0196%
GM UN Equity	General Motors Co	GM	71148984026	0.346867986		12.903	1451.724	49.01	General Motors Cc	GM	$	71,148.98	0.35%	12.90%	13.27%	0.18%	0.0236%
GNRC UN Equity	Generac Holdings Inc	GNRC	27582478679	0		6.5	63.12069	436.98	Generac Holdings	GNRC	$	27,582.48	0.00%	6.50%	6.50%	0.07%	0.0045%
GOOGL UW Equity	Alphabet Inc	GOOGL	1.9348E+12	0		34.613	301.0846	2893.95	Alphabet Inc	GOOGL	$	1,934,798.59	0.00%	34.61%	34.61%	4.84%	1.6766%
GPC UN Equity	Genuine Parts Co	GPC	17499135253	2.667157705		10.235	143.2125	122.19	Genuine Parts Co	GPC	$	17,499.14	2.67%	10.24%	13.04%	0.04%	0.0057%
GPN UN Equity	Global Payments Inc	GPN	47775189846	0.531849484		18.263	293.7481	162.64	Global Payments I	GPN	$	47,775.19	0.53%	18.26%	18.84%	0.12%	0.0225%
GPS UN Equity	Gap Inc/The	GPS	10053288387	2.248410026		24.5	376.1051	26.73	Gap Inc/The	GPS	$	10,053.29	2.25%	24.50%	27.02%	0.03%	0.0068%
GRMN UW Equity	Garmin Ltd	GRMN	33546702563	1.5020352		9.05	192.3219	174.43	Garmin Ltd	GRMN	$	33,546.70	1.50%	9.05%	10.62%	0.08%	0.0089%
GS UN Equity	Goldman Sachs Group Inc/The	GS	1.45431E+11	1.574568934		12.4	337.0975	413.51	Goldman Sachs G	GS	$	145,431.01	1.57%	12.40%	14.07%	0.36%	0.0512%
GWW UN Equity	WW Grainger Inc	GWW	22584651233	1.474752133		12.4	52.07436	433.7	WW Grainger Inc	GWW	$	22,584.65	1.47%	12.40%	13.97%	0.06%	0.0079%
HAL UN Equity	Halliburton Co	HAL	17792177253	0.900900901		43.83	890.4994	19.98	Halliburton Co	HAL	$	17,792.18	0.90%	43.83%	44.93%	0.04%	0.0200%
HAS UW Equity	Hasbro Inc	HAS	13535623103	2.77794731		13.845	137.6831	98.31	Hasbro Inc	HAS	$	13,535.62	2.78%	13.85%	16.82%	0.03%	0.0057%
HBAN UW Equity	Huntington Bancshares Inc/OH	HBAN	22930936826	3.91500322		22.963	1476.557	15.53	Huntington Bancsl	HBAN	$	22,930.94	3.92%	22.96%	27.33%	0.06%	0.0157%
HBI UN Equity	Hanesbrands Inc	HBI	6522153887	3.244111349		12	349.1517	18.68	Hanesbrands Inc	HBI	$	6,522.15	3.24%	12.00%	15.44%	0.02%	0.0025%
HCA UN Equity	HCA Healthcare Inc	HCA	80989497862	0.653411337		12.903	320.1419	252.98	HCA Healthcare Ir	HCA	$	80,989.50	0.65%	12.90%	13.60%	0.20%	0.0276%
HD UN Equity	Home Depot Inc/The	HD	3.44237E+11	2.034459501		8.96	1055.359	326.18	Home Depot Inc/T	HD	$	344,236.90	2.03%	8.96%	11.09%	0.86%	0.0955%
HES UN Equity	Hess Corp	HES	21290015450	1.458909091		-5.23	309.673	68.75	Hess Corp	HES	$	21,290.02	1.46%	-5.23%	-3.81%	0.05%	-0.0020%
HIG UN Equity	Hartford Financial Services Group Inc/Th	HIG	23337819931	2.106515918		7	347.1857	67.22	Hartford Financial	HIG	$	23,337.82	2.11%	7.00%	9.18%	0.06%	0.0054%
HII UN Equity	Huntington Ingalls Industries Inc	HII	8195523044	2.274085321		28.7	40.14068	204.17	Huntington Ingalls	HII	$	8,195.52	2.27%	28.70%	31.30%	0.02%	0.0064%
HLT UN Equity	Hilton Worldwide Holdings Inc	HLT	34796734335	0		44	278.686	124.86	Hilton Worldwide I	HLT	$	34,796.73	0.00%	44.00%	44.00%	0.09%	0.0383%
HOLX UW Equity	Hologic Inc	HOLX	20063526839	0		11.175	253.4874	79.15	Hologic Inc	HOLX	$	20,063.53	0.00%	11.18%	11.18%	0.05%	0.0056%
HON UW Equity	Honeywell International Inc	HON	1.6011E+11	1.629080247		13.195	690.3993	231.91	Honeywell Interna	HON	$	160,110.49	1.63%	13.20%	14.93%	0.40%	0.0599%
HPE UN Equity	Hewlett Packard Enterprise Co	HPE	20189639784	3.124191462		5.93	1305.928	15.46	Hewlett Packard E	HPE	$	20,189.64	3.12%	5.93%	9.15%	0.05%	0.0046%
HPQ UN Equity	HP Inc	HPQ	35725338511	2.626092804		11.385	1201.255	29.74	HP Inc	HPQ	$	35,725.34	2.63%	11.39%	14.16%	0.09%	0.0127%
HRL UN Equity	Hormel Foods Corp	HRL	24686091219	2.151954326		5.25	542.0749	45.54	Hormel Foods Cor	HRL	$	24,686.09	2.15%	5.25%	7.46%	0.06%	0.0046%
HSIC UW Equity	Henry Schein Inc	HSIC	10559409744	#N/A N/A		13.85	139.6932	75.59	Henry Schein Inc	HSIC	$	10,559.41	0.00%	13.85%	13.85%	0.03%	0.0037%
HST UW Equity	Host Hotels & Resorts Inc	HST	11823400878	0		42.855	713.9735	16.56	Host Hotels & Res	HST	$	11,823.40	0.00%	42.86%	42.86%	0.03%	0.0127%
HSY UN Equity	Hershey Co/The	HSY	36613226969	1.892515476		7.6	145.4258	177.7	Hershey Co/The	HSY	$	36,613.23	1.89%	7.60%	9.56%	0.09%	0.0088%
HUM UN Equity	Humana Inc	HUM	52098360879	0.683488728		12.3	128.5047	405.42	Humana Inc	HUM	$	52,098.36	0.68%	12.30%	13.03%	0.13%	0.0170%
HWM UN Equity	Howmet Aerospace Inc	HWM	13617961556	0.125984252		36.05	428.9122	31.75	Howmet Aerospac	HWM	$	13,617.96	0.13%	36.05%	36.20%	0.03%	0.0123%
IBM UN Equity	International Business Machines Corp	IBM	1.2579E+11	4.71212769		9.58	896.3201	140.34	International Busir	IBM	$	125,789.56	4.71%	9.58%	14.52%	0.31%	0.0457%
ICE UN Equity	Intercontinental Exchange Inc	ICE	67313940578	1.105161884		8.9	563.1552	119.53	Intercontinental Ex	ICE	$	67,313.94	1.11%	8.90%	10.05%	0.17%	0.0169%
IDXX UW Equity	IDEXX Laboratories Inc	IDXX	57320759944	#N/A N/A		18.565	85.07593	673.76	IDEXX Laboratorie	IDXX	$	57,320.76	0.00%	18.57%	18.57%	0.14%	0.0266%
IEX UN Equity	IDEX Corp	IEX	17023582240	0.933482143		14.033	75.99814	224	IDEX Corp	IEX	$	17,023.58	0.93%	14.03%	15.03%	0.04%	0.0064%
IFF UN Equity	International Flavors & Fragrances Inc	IFF	37733303717	1.972277228		32.02	249.0647	151.5	International Flavc	IFF	$	37,733.30	1.97%	32.02%	34.31%	0.09%	0.0324%
ILMN UW Equity	Illumina Inc	ILMN	71545540000	0		31.477	156.5	457.16	Illumina Inc	ILMN	$	71,545.54	0.00%	31.48%	31.48%	0.18%	0.0564%
INCY UW Equity	Incyte Corp	INCY	16891689726	0		64.36	220.8353	76.49	Incyte Corp	INCY	$	16,891.69	0.00%	64.36%	64.36%	0.04%	0.0272%
INFO UN Equity	IHS Markit Ltd	INFO	48072642415	0.437810945		11.6	398.6123	120.6	IHS Markit Ltd	INFO	$	48,072.64	0.44%	11.60%	12.06%	0.12%	0.0145%
INTC UW Equity	Intel Corp	INTC	2.19321E+11	2.571217166		4.425	4057	54.06	Intel Corp	INTC	$	219,321.42	2.57%	4.43%	7.05%	0.55%	0.0387%
INTU UW Equity	Intuit Inc	INTU	1.54695E+11	0.458921411		15.158	273.2593	566.11	Intuit Inc	INTU	$	154,694.80	0.46%	15.16%	15.65%	0.39%	0.0606%
IP UN Equity	International Paper Co	IP	23485251955	3.411549343		4.25	390.8346	60.09	International Pape	IP	$	23,485.25	3.41%	4.25%	7.73%	0.06%	0.0045%
IPG UN Equity	Interpublic Group of Cos Inc/The	IPG	14654480977	2.900886382		7.57	393.6202	37.23	Interpublic Group	IPG	$	14,654.48	2.90%	7.57%	10.58%	0.04%	0.0039%
IPGP UW Equity	IPG Photonics Corp	IPGP	9130859938	0	#N/A N/A		53.49695	170.68	IPG Photonics Cor	IPGP	$	9,130.86	0.00%	N/A	N/A	N/A	N/A
IQV UN Equity	IQVIA Holdings Inc	IQV	49767472289	#N/A N/A		22.7	191.6123	259.73	IQVIA Holdings In	IQV	$	49,767.47	0.00%	22.70%	22.70%	0.12%	0.0283%
IR UN Equity	Ingersoll Rand Inc	IR	22276607761	0		15	420.1548	53.02	Ingersoll Rand Inc	IR	$	22,276.61	0.00%	15.00%	15.00%	0.06%	0.0084%
IRM UN Equity	Iron Mountain Inc	IRM	13821729994	5.220942408		3.925	289.4603	47.75	Iron Mountain Inc	IRM	$	13,821.73	5.22%	3.93%	9.25%	0.03%	0.0032%
ISRG UW Equity	Intuitive Surgical Inc	ISRG	1.2526E+11	0		18.578	118.8986	1053.56	Intuitive Surgical I	ISRG	$	125,266.79	0.00%	18.58%	18.58%	0.31%	0.0583%
IT UN Equity	Gartner Inc	IT	25825714458	#N/A N/A		13.5	83.64875	308.74	Gartner Inc	IT	$	25,825.71	0.00%	13.50%	13.50%	0.06%	0.0087%
ITW UN Equity	Illinois Tool Works Inc	ITW	73343405168	1.981877523		13.56	314.9678	232.86	Illinois Tool Works	ITW	$	73,343.41	1.98%	13.56%	15.68%	0.18%	0.0288%
IVZ UN Equity	Invesco Ltd	IVZ	11682439971	2.654028436		8.7	461.3918	25.32	Invesco Ltd	IVZ	$	11,682.44	2.65%	8.70%	11.47%	0.03%	0.0034%
J UN Equity	Jacobs Engineering Group Inc	J	17587233044	0.557943094		15.05	130.3144	134.96	Jacobs Engineerir	J	$	17,587.23	0.56%	15.05%	15.65%	0.04%	0.0069%
JBHT UW Equity	JB Hunt Transport Services Inc	JBHT	18661775899	0.671927847		14.65	105.196	177.4	JB Hunt Transport	JBHT	$	18,661.78	0.67%	14.65%	15.37%	0.05%	0.0072%
JCI UN Equity	Johnson Controls International plc	JCI	53274373451	1.439839572		14.2	712.2242	74.8	Johnson Controls	JCI	$	53,274.37	1.44%	14.20%	15.74%	0.13%	0.0210%
JKHY UW Equity	Jack Henry & Associates Inc	JKHY	13054589144	1.043769135		12.467	74.014	176.38	Jack Henry & Asso	JKHY	$	13,054.59	1.04%	12.47%	13.58%	0.03%	0.0044%
JNJ UN Equity	Johnson & Johnson	JNJ	4.55762E+11	2.409172298		10.18	2632.482	173.13	Johnson & Johnsc	JNJ	$	455,761.62	2.41%	10.18%	12.71%	1.14%	0.1450%
JNPR UN Equity	Juniper Networks Inc	JNPR	9422899773	2.753623188		8.933	325.1518	28.98	Juniper Networks	JNPR	$	9,422.90	2.75%	8.93%	11.81%	0.02%	0.0028%
JPM UN Equity	JPMorgan Chase & Co	JPM	4.77955E+11	2.37574242		9.7	2988.155	159.95	JPMorgan Chase	JPM	$	477,955.45	2.38%	9.70%	12.19%	1.20%	0.1459%
K UN Equity	Kellogg Co	K	21523097156	3.655369021		4.24	340.879	63.14	Kellogg Co	K	$	21,523.10	3.66%	4.24%	7.97%	0.05%	0.0043%
KEY UN Equity	KeyCorp	KEY	19433440473	3.730314961		18.277	956.3701	20.32	KeyCorp	KEY	$	19,433.44	3.73%	18.28%	22.35%	0.05%	0.0109%

KEYS UN Equity	Keysight Technologies Inc	KEYS	33041051394	#N/A N/A		13.01	184.1958	179.38	Keysight Technolc	KEYS	$	33,041.05	0.00%	13.01%	13.01%	0.08%	0.0108%
KHC UW Equity	Kraft Heinz Co/The	KHC	44029703025	4.448457905		0.275	1223.387	35.99	Kraft Heinz Co/Th	KHC	$	44,029.70	4.45%	0.28%	4.73%	0.11%	0.0052%
KIM UN Equity	Kimco Realty Corp	KIM	13354879550	3.166590179		13.09	612.8903	21.79	Kimco Realty Corp	KIM	$	13,354.88	3.17%	13.09%	16.46%	0.03%	0.0055%
KLAC UW Equity	KLA Corp	KLAC	51924523894	1.258677491		9.05	152.7372	339.96	KLA Corp	KLAC	$	51,924.52	1.26%	9.05%	10.37%	0.13%	0.0135%
KMB UN Equity	Kimberly-Clark Corp	KMB	46409183209	3.25157826		1.6	336.7621	137.81	Kimberly-Clark Co	KMB	$	46,409.18	3.25%	1.60%	4.88%	0.12%	0.0057%
KMI UN Equity	Kinder Morgan Inc	KMI	36876293367	6.63798402		7.65	2266.521	16.27	Kinder Morgan Inc	KMI	$	36,876.29	6.64%	7.65%	14.54%	0.09%	0.0134%
KMX UN Equity	CarMax Inc	KMX	20401098487	#N/A N/A		18.455	162.9351	125.21	CarMax Inc	KMX	$	20,401.10	0.00%	18.46%	18.46%	0.05%	0.0094%
KO UN Equity	Coca-Cola Co/The	KO	2.43069E+11	2.972828982		9.417	4316.619	56.31	Coca-Cola Co/The	KO	$	243,068.80	2.97%	9.42%	12.53%	0.61%	0.0762%
KR UN Equity	Kroger Co/The	KR	34395368776	1.625027156		7.105	747.2381	46.03	Kroger Co/The	KR	$	34,395.37	1.63%	7.11%	8.79%	0.09%	0.0076%
KSU UN Equity	Kansas City Southern	KSU	25531052245	0.76958706		11.1	90.96466	280.67	Kansas City South	KSU	$	25,531.05	0.77%	11.10%	11.91%	0.06%	0.0076%
L UN Equity	Loews Corp	L	14373844410	#N/A N/A	#N/A N/A		257.273	55.87	Loews Corp	L	$	14,373.84	0.00%	N/A	N/A	N/A	N/A
LDOS UN Equity	Leidos Holdings Inc	LDOS	13888960104	1.43002752		10.685	141.5652	98.11	Leidos Holdings Ir	LDOS	$	13,888.96	1.43%	10.69%	12.19%	0.03%	0.0042%
LEG UN Equity	Leggett & Platt Inc	LEG	6450334448	3.430460839	#N/A N/A		133.2989	48.39	Leggett & Platt Inc	LEG	$	6,450.33	3.43%	N/A	N/A	N/A	N/A
LEN UN Equity	Lennar Corp	LEN	32770105323	0.931879601		23.2	274.6948	107.31	Lennar Corp	LEN	$	32,770.11	0.93%	23.20%	24.24%	0.08%	0.0199%
LH UN Equity	Laboratory Corp of America Holdings	LH	29245832000	0		-9.41	96.4	303.38	Laboratory Corp o	LH	$	29,245.83	0.00%	-9.41%	-9.41%	0.07%	-0.0069%
LHX UN Equity	L3Harris Technologies Inc	LHX	46821885712	1.750139479		9.315	200.9437	233.01	L3Harris Technolc	LHX	$	46,821.89	1.75%	9.32%	11.15%	0.12%	0.0131%
LIN UN Equity	Linde PLC	LIN	1.62189E+11	1.345878763		12.275	515.5573	314.59	Linde PLC	LIN	$	162,189.18	1.35%	12.28%	13.70%	0.41%	0.0556%
LKQ UW Equity	LKQ Corp	LKQ	15484292929	#N/A N/A		11.3	293.8754	52.69	LKQ Corp	LKQ	$	15,484.29	0.00%	11.30%	11.30%	0.04%	0.0044%
LLY UN Equity	Eli Lilly & Co	LLY	2.47075E+11	1.270277595		14.126	956.5809	258.29	Eli Lilly & Co	LLY	$	247,075.28	1.27%	14.13%	15.49%	0.62%	0.0958%
LMT UN Equity	Lockheed Martin Corp	LMT	99634553462	2.960255698		3.88	276.9165	359.8	Lockheed Martin C	LMT	$	99,634.55	2.96%	3.88%	6.90%	0.25%	0.0172%
LNC UN Equity	Lincoln National Corp	LNC	12900935712	2.466132556		29.54	187.9233	68.65	Lincoln National C	LNC	$	12,900.94	2.47%	29.54%	32.37%	0.03%	0.0105%
LNT UW Equity	Alliant Energy Corp	LNT	15213175066	2.663266985		6.35	250.2579	60.79	Alliant Energy Cor	LNT	$	15,213.18	2.66%	6.35%	9.10%	0.04%	0.0035%
LOW UN Equity	Lowe's Cos Inc	LOW	1.4118E+11	1.44636814		20.363	692.4327	203.89	Lowe's Cos Inc	LOW	$	141,180.10	1.45%	20.36%	21.96%	0.35%	0.0776%
LRCX UW Equity	Lam Research Corp	LRCX	85856425342	0.926556661		14.4	141.9537	604.82	Lam Research Co	LRCX	$	85,856.43	0.93%	14.40%	15.39%	0.21%	0.0331%
LUMN UN Equity	Lumen Technologies Inc	LUMN	13594355236	8.146341463		-8.717	1105.232	12.3	Lumen Technolog	LUMN	$	13,594.36	8.15%	-8.72%	-0.93%	0.03%	-0.0003%
LUV UN Equity	Southwest Airlines Co	LUV	29452066047	0	#N/A N/A		591.6446	49.78	Southwest Airlines	LUV	$	29,452.07	0.00%	N/A	N/A	N/A	N/A
LVS UN Equity	Las Vegas Sands Corp	LVS	34081582837	0.77561085	#N/A N/A		763.9898	44.61	Las Vegas Sands	LVS	$	34,081.58	0.78%	N/A	N/A	N/A	N/A
LW UN Equity	Lamb Weston Holdings Inc	LW	9454500114	1.488871834		14.575	145.119	65.15	Lamb Weston Hol	LW	$	9,454.50	1.49%	14.58%	16.17%	0.02%	0.0038%
LYB UN Equity	LyondellBasell Industries NV	LYB	33568617179	4.4245142		8	334.5154	100.35	LyondellBasell Ind	LYB	$	33,568.62	4.42%	8.00%	12.60%	0.08%	0.0106%
LYV UN Equity	Live Nation Entertainment Inc	LYV	18986440196	0	#N/A N/A		218.9901	86.7	Live Nation Entert	LYV	$	18,986.44	0.00%	N/A	N/A	N/A	N/A
MA UN Equity	Mastercard Inc	MA	3.41651E+11	0.484937758		25.8	978.8288	346.23	Mastercard Inc	MA	$	341,651.12	0.48%	25.80%	26.35%	0.86%	0.2254%
MAA UN Equity	Mid-America Apartment Communities Inc	MAA	22318752395	2.134428445		3	116.0199	192.37	Mid-America Apar	MAA	$	22,318.75	2.13%	3.00%	5.17%	0.06%	0.0029%
MAR UW Equity	Marriott International Inc/MD	MAR	44009200761	0		74.633	325.6564	135.14	Marriott Internatio	MAR	$	44,009.20	0.00%	74.63%	74.63%	0.11%	0.0822%
MAS UN Equity	Masco Corp	MAS	15007734810	1.398221344		15.35	247.163	60.72	Masco Corp	MAS	$	15,007.73	1.40%	15.35%	16.86%	0.04%	0.0063%
MCD UN Equity	McDonald's Corp	MCD	1.77335E+11	2.201212836		11.867	746.7989	237.46	McDonald's Corp	MCD	$	177,334.86	2.20%	11.87%	14.20%	0.44%	0.0630%
MCHP UW Equity	Microchip Technology Inc	MCHP	43122961309	1.137519065		13.04	274.0402	157.36	Microchip Technol	MCHP	$	43,122.96	1.14%	13.04%	14.25%	0.11%	0.0154%
MCK UN Equity	McKesson Corp	MCK	31575266924	0.885176839		1.695	154.6746	204.14	McKesson Corp	MCK	$	31,575.27	0.89%	1.70%	2.59%	0.08%	0.0020%
MCO UN Equity	Moody's Corp	MCO	70899374000	0.651311816		11	186.2	380.77	Moody's Corp	MCO	$	70,899.37	0.65%	11.00%	11.69%	0.18%	0.0207%
MDLZ UW Equity	Mondelez International Inc	MDLZ	86762528687	2.14435315		7.33	1397.817	62.07	Mondelez Internat	MDLZ	$	86,762.53	2.14%	7.33%	9.55%	0.22%	0.0208%
MDT UN Equity	Medtronic PLC	MDT	1.79592E+11	1.804764759		10.288	1345.46	133.48	Medtronic PLC	MDT	$	179,591.94	1.80%	10.29%	12.19%	0.45%	0.0548%
MET UN Equity	MetLife Inc	MET	53127642582	3.077419355		5.63	856.8975	62	MetLife Inc	MET	$	53,127.64	3.08%	5.63%	8.79%	0.13%	0.0117%
MGM UN Equity	MGM Resorts International	MGM	20537741668	0.021116847		-19	481.8804	42.62	MGM Resorts Inte	MGM	$	20,537.74	0.02%	-19.00%	-18.98%	0.05%	-0.0098%
MHK UN Equity	Mohawk Industries Inc	MHK	13651222700	0	#N/A N/A		69.02924	197.76	Mohawk Industries	MHK	$	13,651.22	0.00%	N/A	N/A	N/A	N/A
MKC UN Equity	McCormick & Co Inc/MD	MKC	23050631540	1.569127361		6.353	249.1948	86.29	McCormick & Co I	MKC	$	23,050.63	1.57%	6.35%	7.97%	0.06%	0.0046%
MKTX UW Equity	MarketAxess Holdings Inc	MKTX	18085137042	0.554715078	#N/A N/A		38.00037	475.92	MarketAxess Hold	MKTX	$	18,085.14	0.55%	N/A	N/A	N/A	N/A
MLM UN Equity	Martin Marietta Materials Inc	MLM	23781358588	0.597508197		19.35	62.37733	381.25	Martin Marietta Ma	MLM	$	23,781.36	0.60%	19.35%	20.01%	0.06%	0.0119%
MMC UN Equity	Marsh & McLennan Cos Inc	MMC	79641596982	1.264631043		12.007	506.6259	157.2	Marsh & McLenna	MMC	$	79,641.60	1.26%	12.01%	13.35%	0.20%	0.0266%
MMM UN Equity	3M Co	MMM	1.12684E+11	3.039437198		9.45	578.6383	194.74	3M Co	MMM	$	112,684.01	3.04%	9.45%	12.63%	0.28%	0.0356%
MNST UW Equity	Monster Beverage Corp	MNST	51603388579	0		12.17	528.8858	97.57	Monster Beverage	MNST	$	51,603.39	0.00%	12.17%	12.17%	0.13%	0.0157%
MO UN Equity	Altria Group Inc	MO	92628032766	7.047581127		4.25	1844.078	50.23	Altria Group Inc	MO	$	92,628.03	7.05%	4.25%	11.45%	0.23%	0.0265%
MOS UN Equity	Mosaic Co/The	MOS	12225083658	0.78620261		7.233	379.8969	32.18	Mosaic Co/The	MOS	$	12,225.08	0.79%	7.23%	8.05%	0.03%	0.0025%
MPC UN Equity	Marathon Petroleum Corp	MPC	37826243090	3.980091108		-3	638.2022	59.27	Marathon Petroleu	MPC	$	37,826.24	3.98%	-3.00%	0.92%	0.09%	0.0009%
MPWR UW Equity	Monolithic Power Systems Inc	MPWR	22727185600	0.480876083		24.85	45.92	494.93	Monolithic Power	MPWR	$	22,727.19	0.48%	24.85%	25.39%	0.06%	0.0144%
MRK UN Equity	Merck & Co Inc	MRK	1.93119E+11	3.410669813		6.185	2531.375	76.29	Merck & Co Inc	MRK	$	193,118.58	3.41%	6.19%	9.70%	0.48%	0.0469%
MRNA UW Equity	Moderna Inc	MRNA	1.5205E+11	0		29.15	403.6463	376.69	Moderna Inc	MRNA	$	152,049.53	0.00%	29.15%	29.15%	0.38%	0.1110%
MRO UN Equity	Marathon Oil Corp	MRO	9263686405	1.370212766		2.333	788.3988	11.75	Marathon Oil Corp	MRO	$	9,263.69	1.37%	2.33%	3.72%	0.02%	0.0009%
MS UN Equity	Morgan Stanley	MS	1.90539E+11	2.010916403		3.81	1824.561	104.43	Morgan Stanley	MS	$	190,538.91	2.01%	3.81%	5.86%	0.48%	0.0279%
MSCI UN Equity	MSCI Inc	MSCI	52316229023	0.545872861		13.3	82.44229	634.58	MSCI Inc	MSCI	$	52,316.23	0.55%	13.30%	13.88%	0.13%	0.0182%
MSFT UW Equity	Microsoft Corp	MSFT	2.2686E+12	0.782430105		10.293	7514.891	301.88	Microsoft Corp	MSFT	$	2,268,595.37	0.78%	10.29%	11.12%	5.68%	0.6313%
MSI UN Equity	Motorola Solutions Inc	MSI	41352453812	1.177217263		12.4	169.3246	244.22	Motorola Solutions	MSI	$	41,352.45	1.18%	12.40%	13.65%	0.10%	0.0141%
MTB UN Equity	M&T Bank Corp	MTB	18016182418	3.174058996		11.593	128.6778	140.01	M&T Bank Corp	MTB	$	18,016.18	3.17%	11.59%	14.95%	0.05%	0.0067%
MTD UN Equity	Mettler-Toledo International Inc	MTD	35896676387	0		15.683	23.11694	1552.83	Mettler-Toledo Int	MTD	$	35,896.68	0.00%	15.68%	15.68%	0.09%	0.0141%
MU UW Equity	Micron Technology Inc	MU	82968037372	0.023066486		19.53	1125.754	73.7	Micron Technolog	MU	$	82,968.04	0.02%	19.53%	19.56%	0.21%	0.0406%
NCLH UN Equity	Norwegian Cruise Line Holdings Ltd	NCLH	9561581557	0		-99.44	370.0302	25.84	Norwegian Cruise	NCLH	$	9,561.58	0.00%	-99.44%	-99.44%	0.02%	-0.0238%
NDAQ UW Equity	Nasdaq Inc	NDAQ	32735168187	1.087955869		7.4	167.2038	195.78	Nasdaq Inc	NDAQ	$	32,735.17	1.09%	7.40%	8.53%	0.08%	0.0070%
NEE UN Equity	NextEra Energy Inc	NEE	1.64768E+11	1.825217288		9.075	1961.757	83.99	NextEra Energy In	NEE	$	164,767.97	1.83%	9.08%	10.98%	0.41%	0.0453%
NEM UN Equity	Newmont Corp	NEM	46341323873	3.79548198		-6.7	799.1261	57.99	Newmont Corp	NEM	$	46,341.32	3.80%	-6.70%	-3.03%	0.12%	-0.0035%
NFLX UW Equity	Netflix Inc	NFLX	2.51921E+11	0		35.365	442.5959	569.19	Netflix Inc	NFLX	$	251,921.15	0.00%	35.37%	35.37%	0.63%	0.2230%
NI UN Equity	NiSource Inc	NI	9672915892	3.598377282		5.81	392.4104	24.65	NiSource Inc	NI	$	9,672.92	3.60%	5.81%	9.51%	0.02%	0.0023%
NKE UN Equity	NIKE Inc	NKE	2.608E+11	0.710210028		14.513	1278.087	164.74	NIKE Inc	NKE	$	260,799.57	0.71%	14.51%	15.27%	0.65%	0.0997%
NLOK UW Equity	NortonLifeLock Inc	NLOK	15449505659	1.920180723		16.2	581.6832	26.56	NortonLifeLock In	NLOK	$	15,449.51	1.92%	16.20%	18.28%	0.04%	0.0071%
NLSN UN Equity	Nielsen Holdings PLC	NLSN	7699851198	1.118359739	#N/A N/A		358.8001	21.46	Nielsen Holdings F	NLSN	$	7,699.85	1.12%	N/A	N/A	N/A	N/A
NOC UN Equity	Northrop Grumman Corp	NOC	58872117173	1.65596954		5.29	160.1091	367.7	Northrop Grumma	NOC	$	58,872.12	1.66%	5.29%	6.99%	0.15%	0.0103%
NOV UN Equity	NOV Inc	NOV	5145573392	0.098709188	#N/A N/A		390.7041	13.17	NOV Inc	NOV	$	5,145.57	0.10%	N/A	N/A	N/A	N/A
NOW UN Equity	ServiceNow Inc	NOW	1.27505E+11	#N/A N/A		40.1	198.1	643.64	ServiceNow Inc	NOW	$	127,505.08	0.00%	40.10%	40.10%	0.32%	0.1280%
NRG UN Equity	NRG Energy Inc	NRG	11178960155	2.846507554		30.51	244.7769	45.67	NRG Energy Inc	NRG	$	11,178.96	2.85%	30.51%	33.79%	0.03%	0.0095%
NSC UN Equity	Norfolk Southern Corp	NSC	62617335898	1.594620178		13.223	246.9722	253.54	Norfolk Southern (	NSC	$	62,617.34	1.59%	13.22%	14.92%	0.16%	0.0234%
NTAP UW Equity	NetApp Inc	NTAP	19921644168	2.253457776		10.695	224.0149	88.93	NetApp Inc	NTAP	$	19,921.64	2.25%	10.70%	13.07%	0.05%	0.0065%
NTRS UW Equity	Northern Trust Corp	NTRS	24698949207	2.405501181		13	208.3948	118.52	Northern Trust Co	NTRS	$	24,698.95	2.41%	13.00%	15.56%	0.06%	0.0096%
NUE UN Equity	Nucor Corp	NUE	34526729417	1.383974141	#N/A N/A		293.6945	117.56	Nucor Corp	NUE	$	34,526.73	1.38%	N/A	N/A	N/A	N/A
NVDA UW Equity	NVIDIA Corp	NVDA	5.59625E+11	0.079517534		24.528	2500	223.85	NVIDIA Corp	NVDA	$	559,625.00	0.08%	24.53%	24.62%	1.40%	0.3449%
NVR UN Equity	NVR Inc	NVR	18460176933	14.7536458		19	3.56378	5179.94	NVR Inc	NVR	$	18,460.18	14.75%	19.00%	35.16%	0.05%	0.0162%
NWL UW Equity	Newell Brands Inc	NWL	10809414000	3.624557261	#N/A N/A		425.4	25.41	Newell Brands Inc	NWL	$	10,809.41	3.62%	N/A	N/A	N/A	N/A
NWSA UW Equity	News Corp	NWSA	13188388883	0.890075656		11.6	391.212	22.47	News Corp	NWSA	$	13,188.39	0.89%	11.60%	12.54%	0.03%	0.0041%
NXPI UW Equity	NXP Semiconductors NV	NXPI	57038466734	1.055640775		27.075	265.1349	215.13	NXP Semiconduct	NXPI	$	57,038.47	1.06%	27.08%	28.27%	0.14%	0.0404%
O UN Equity	Realty Income Corp	O	28121622015	3.91165882		6.165	389.3883	72.22	Realty Income Co	O	$	28,121.62	3.91%	6.17%	10.20%	0.07%	0.0072%
ODFL UW Equity	Old Dominion Freight Line Inc	ODFL	33436687164	0.314491549		20.877	115.8101	288.72	Old Dominion Frei	ODFL	$	33,436.69	0.31%	20.88%	21.22%	0.08%	0.0178%

OGN UN Equity	Organon & Co	OGN	8592641778	1.652404839	#N/A N/A			253.5451	33.89	Organon & Co	OGN	$	8,592.64	1.65%	N/A	N/A	N/A	N/A
OKE UN Equity	ONEOK Inc	OKE	23406111518	7.162985529		10.65		445.6609	52.52	ONEOK Inc	OKE	$	23,406.11	7.16%	10.65%	18.19%	0.06%	0.0107%
OMC UN Equity	Omnicom Group Inc	OMC	15698932453	3.884184649		11.837		214.4077	73.22	Omnicom Group I	OMC	$	15,698.93	3.88%	11.84%	15.95%	0.04%	0.0063%
ORCL UN Equity	Oracle Corp	ORCL	2.48851E+11	1.423763043		8.1		2792	89.13	Oracle Corp	ORCL	$	248,850.96	1.42%	8.10%	9.58%	0.62%	0.0597%
ORLY UW Equity	O'Reilly Automotive Inc	ORLY	40962849105	0		10.92		68.95174	594.08	O'Reilly Automotiv	ORLY	$	40,962.85	0.00%	10.92%	10.92%	0.10%	0.0112%
OTIS UN Equity	Otis Worldwide Corp	OTIS	39357528579	1.116894383		6.3		426.7787	92.22	Otis Worldwide Cc	OTIS	$	39,357.53	1.12%	6.30%	7.45%	0.10%	0.0073%
OXY UN Equity	Occidental Petroleum Corp	OXY	23987642825	0.848579214	#N/A N/A			933.7346	25.69	Occidental Petrole	OXY	$	23,987.64	0.85%	N/A	N/A	N/A	N/A
PAYC UN Equity	Paycom Software Inc	PAYC	29380149227	#N/A N/A		28.45		60.09439	488.9	Paycom Software	PAYC	$	29,380.15	0.00%	28.45%	28.45%	0.07%	0.0209%
PAYX UW Equity	Paychex Inc	PAYX	41189761277	2.296671617		7.4		359.8302	114.47	Paychex Inc	PAYX	$	41,189.76	2.30%	7.40%	9.78%	0.10%	0.0101%
PBCT UW Equity	People's United Financial Inc	PBCT	7031296953	4.430919051	#N/A N/A			427.9548	16.43	People's United Fi	PBCT	$	7,031.30	4.43%	N/A	N/A	N/A	N/A
PCAR UW Equity	PACCAR Inc	PCAR	28423085603	2.490533773		13.35		347.1734	81.87	PACCAR Inc	PCAR	$	28,423.09	2.49%	13.35%	16.01%	0.07%	0.0114%
PEAK UN Equity	Healthpeak Properties Inc	PEAK	19402861392	3.333333333		10.943		538.9684	36	Healthpeak Prope	PEAK	$	19,402.86	3.33%	10.94%	14.46%	0.05%	0.0070%
PEG UN Equity	Public Service Enterprise Group Inc	PEG	32326597984	3.192055052		4.665		505.5771	63.94	Public Service Ent	PEG	$	32,326.60	3.19%	4.67%	7.93%	0.08%	0.0064%
PENN UW Equity	Penn National Gaming Inc	PENN	12715611825	#N/A N/A	#N/A N/A			156.7893	81.1	Penn National Gai	PENN	$	12,715.61	0.00%	N/A	N/A	N/A	N/A
PEP UW Equity	PepsiCo Inc	PEP	2.16149E+11	2.713728499		8.517		1382.115	156.39	PepsiCo Inc	PEP	$	216,148.96	2.71%	8.52%	11.35%	0.54%	0.0614%
PFE UN Equity	Pfizer Inc	PFE	2.583E+11	3.412198828		-3.45		5606.688	46.07	Pfizer Inc	PFE	$	258,300.13	3.41%	-3.45%	-0.10%	0.65%	-0.0006%
PFG UW Equity	Principal Financial Group Inc	PFG	17931410623	3.656638228		15.19		268.3941	66.81	Principal Financia	PFG	$	17,931.41	3.66%	15.19%	19.12%	0.04%	0.0086%
PG UN Equity	Procter & Gamble Co/The	PG	3.45768E+11	2.461549266		6.4		2428.316	142.39	Procter & Gamble	PG	$	345,767.87	2.46%	6.40%	8.94%	0.87%	0.0774%
PGR UN Equity	Progressive Corp/The	PGR	56387802000	2.273199087		-2.33		585.3	96.34	Progressive Corp/	PGR	$	56,387.80	2.27%	-2.33%	-0.08%	0.14%	-0.0001%
PH UN Equity	Parker-Hannifin Corp	PH	38300523315	1.385714767		12.2		129.1014	296.67	Parker-Hannifin C	PH	$	38,300.52	1.39%	12.20%	13.67%	0.10%	0.0131%
PHM UN Equity	PulteGroup Inc	PHM	13977979337	1.043445971		35		259.5243	53.86	PulteGroup Inc	PHM	$	13,977.98	1.04%	35.00%	36.23%	0.03%	0.0127%
PKG UN Equity	Packaging Corp of America	PKG	14410315223	2.646011866		5		94.99219	151.7	Packaging Corp o	PKG	$	14,410.32	2.65%	5.00%	7.71%	0.04%	0.0028%
PKI UN Equity	PerkinElmer Inc	PKI	20718694735	0.151515152		-3.565		112.1141	184.8	PerkinElmer Inc	PKI	$	20,718.69	0.15%	-3.57%	-3.42%	0.05%	-0.0018%
PLD UN Equity	Prologis Inc	PLD	99614033691	1.87063716		7.263		739.7448	134.66	Prologis Inc	PLD	$	99,614.03	1.87%	7.26%	9.20%	0.25%	0.0229%
PM UN Equity	Philip Morris International Inc	PM	1.6053E+11	4.72815534		11.45		1558.541	103	Philip Morris Interr	PM	$	160,529.72	4.73%	11.45%	16.45%	0.40%	0.0661%
PNC UN Equity	PNC Financial Services Group Inc/The	PNC	81216206826	2.532182104		32.173		424.9932	191.1	PNC Financial Se	PNC	$	81,216.21	2.53%	32.17%	35.11%	0.20%	0.0714%
PNR UN Equity	Pentair PLC	PNR	12797996873	1.036806636		13.983		165.8631	77.16	Pentair PLC	PNR	$	12,798.00	1.04%	13.98%	15.09%	0.03%	0.0048%
PNW UN Equity	Pinnacle West Capital Corp	PNW	8673211717	4.361508453		1.61		112.7856	76.9	Pinnacle West Ca	PNW	$	8,673.21	4.36%	1.61%	6.01%	0.02%	0.0013%
POOL UW Equity	Pool Corp	POOL	19821838292	0.576977544		17		40.10083	494.3	Pool Corp	POOL	$	19,821.84	0.58%	17.00%	17.63%	0.05%	0.0087%
PPG UN Equity	PPG Industries Inc	PPG	37870242339	1.432779693		5.75		237.3566	159.55	PPG Industries Inc	PPG	$	37,870.24	1.43%	5.75%	7.22%	0.09%	0.0068%
PPL UN Equity	PPL Corp	PPL	22587930964	5.512776831		-4.45		769.6058	29.35	PPL Corp	PPL	$	22,587.93	5.51%	-4.45%	0.94%	0.06%	0.0005%
PRGO UN Equity	Perrigo Co PLC	PRGO	5475620282	2.442002442	#N/A N/A			133.7148	40.95	Perrigo Co PLC	PRGO	$	5,475.62	2.44%	N/A	N/A	N/A	N/A
PRU UN Equity	Prudential Financial Inc	PRU	40869680000	4.345485455		6.827		386	105.88	Prudential Financi	PRU	$	40,869.68	4.35%	6.83%	11.32%	0.10%	0.0116%
PSA UN Equity	Public Storage	PSA	56705612364	2.487253175		9.62		175.2282	323.61	Public Storage	PSA	$	56,705.61	2.49%	9.62%	12.23%	0.14%	0.0174%
PSX UN Equity	Phillips 66	PSX	31136667015	5.073850049	#N/A N/A			437.9894	71.09	Phillips 66	PSX	$	31,136.67	5.07%	N/A	N/A	N/A	N/A
PTC UW Equity	PTC Inc	PTC	15454485550	0		20.225		117.3818	131.66	PTC Inc	PTC	$	15,454.49	0.00%	20.23%	20.23%	0.04%	0.0078%
PVH UN Equity	PVH Corp	PVH	7477786107	0.068708846		38.06		71.35973	104.79	PVH Corp	PVH	$	7,477.79	0.07%	38.06%	38.14%	0.02%	0.0071%
PWR UN Equity	Quanta Services Inc	PWR	14207454425	0.222331048		14		139.1523	102.1	Quanta Services I	PWR	$	14,207.45	0.22%	14.00%	14.24%	0.04%	0.0051%
PXD UN Equity	Pioneer Natural Resources Co	PXD	36513350265	1.485935725		20		243.959	149.67	Pioneer Natural R	PXD	$	36,513.35	1.49%	20.00%	21.63%	0.09%	0.0198%
PYPL UW Equity	PayPal Holdings Inc	PYPL	3.39185E+11	#N/A N/A		21.763		1175.032	288.66	PayPal Holdings I	PYPL	$	339,184.78	0.00%	21.76%	21.76%	0.85%	0.1848%
QCOM UW Equity	QUALCOMM Inc	QCOM	1.65466E+11	1.816074715		24.72		1128	146.69	QUALCOMM Inc	QCOM	$	165,466.32	1.82%	24.72%	26.76%	0.41%	0.1109%
QRVO UW Equity	Qorvo Inc	QRVO	20897941134	0		18.506		111.1415	188.03	Qorvo Inc	QRVO	$	20,897.94	0.00%	18.51%	18.51%	0.05%	0.0097%
RCL UN Equity	Royal Caribbean Cruises Ltd	RCL	21070851828	2.828478182	#N/A N/A			254.6942	82.73	Royal Caribbean C	RCL	$	21,070.85	2.83%	N/A	N/A	N/A	N/A
RE UN Equity	Everest Re Group Ltd	RE	10562306574	2.371460929		67.425		39.87281	264.9	Everest Re Group	RE	$	10,562.31	2.37%	67.43%	70.60%	0.03%	0.0187%
REG UW Equity	Regency Centers Corp	REG	11668112068	3.474205771		9.56		169.8737	68.62	Regency Centers	REG	$	11,668.11	3.47%	9.56%	13.20%	0.03%	0.0039%
REGN UW Equity	Regeneron Pharmaceuticals Inc	REGN	72023752219	0		9.267		105.1064	673.4	Regeneron Pharm	REGN	$	72,023.75	0.00%	9.27%	9.27%	0.18%	0.0167%
RF UN Equity	Regions Financial Corp	RF	19501238042	3.191385218		29.15		954.5393	20.43	Regions Financial	RF	$	19,501.24	3.19%	29.15%	32.81%	0.05%	0.0160%
RHI UN Equity	Robert Half International Inc	RHI	11577702239	1.309477756		13.9		111.97	103.4	Robert Half Interna	RHI	$	11,577.70	1.31%	13.90%	15.30%	0.03%	0.0044%
RJF UN Equity	Raymond James Financial Inc	RJF	19193177728	1.106504646		15		137.1921	139.9	Raymond James F	RJF	$	19,193.18	1.11%	15.00%	16.19%	0.05%	0.0078%
RL UN Equity	Ralph Lauren Corp	RL	8536641048	2.327563937		57.38		48.62808	116.13	Ralph Lauren Cor	RL	$	8,536.64	2.33%	57.38%	60.38%	0.02%	0.0129%
RMD UN Equity	ResMed Inc	RMD	42324754969	0.584793309		18.74		145.6812	290.53	ResMed Inc	RMD	$	42,324.75	0.58%	18.74%	19.38%	0.11%	0.0205%
ROK UN Equity	Rockwell Automation Inc	ROK	37760571225	1.318174835		13.095		116.0257	325.45	Rockwell Automat	ROK	$	37,760.57	1.32%	13.10%	14.50%	0.09%	0.0137%
ROL UN Equity	Rollins Inc	ROL	19151725967	1.05344296	#N/A N/A			492.0793	38.92	Rollins Inc	ROL	$	19,151.73	1.05%	N/A	N/A	N/A	N/A
ROP UN Equity	Roper Technologies Inc	ROP	50949235328	0.46370634		13.5		105.4238	483.28	Roper Technologi	ROP	$	50,949.24	0.46%	13.50%	14.00%	0.13%	0.0179%
ROST UW Equity	Ross Stores Inc	ROST	42283086973	0.971283784		41.433		357.1207	118.4	Ross Stores Inc	ROST	$	42,283.09	0.97%	41.43%	42.61%	0.11%	0.0451%
RSG UN Equity	Republic Services Inc	RSG	39518629327	1.407395472		8.3		318.3649	124.13	Republic Services	RSG	$	39,518.63	1.41%	8.30%	9.77%	0.10%	0.0097%
RTX UN Equity	Raytheon Technologies Corp	RTX	1.27808E+11	2.353704578		20.54		1507.878	84.76	Raytheon Technol	RTX	$	127,807.75	2.35%	20.54%	23.14%	0.32%	0.0740%
SBAC UW Equity	SBA Communications Corp	SBAC	39326402664	0.648800735		8		109.5535	358.97	SBA Communicati	SBAC	$	39,326.40	0.65%	8.00%	8.67%	0.10%	0.0085%
SBUX UW Equity	Starbucks Corp	SBUX	1.38532E+11	1.620563452		22.967		1179.1	117.49	Starbucks Corp	SBUX	$	138,532.46	1.62%	22.97%	24.77%	0.35%	0.0859%
SCHW UN Equity	Charles Schwab Corp/The	SCHW	1.37541E+11	0.997940975		20.5		1808.709	72.85	Charles Schwab C	SCHW	$	137,540.99	1.00%	20.50%	21.60%	0.34%	0.0744%
SEE UN Equity	Sealed Air Corp	SEE	9147959110	1.263313125		8.3		149.8928	61.03	Sealed Air Corp	SEE	$	9,147.96	1.26%	8.30%	9.62%	0.02%	0.0022%
SHW UN Equity	Sherwin-Williams Co/The	SHW	79957055295	0.725458557		1.8		263.3025	303.67	Sherwin-Williams	SHW	$	79,957.06	0.73%	1.80%	2.53%	0.20%	0.0051%
SIVB UW Equity	SVB Financial Group	SIVB	31755713267	0		7		56.75731	559.5	SVB Financial Gro	SIVB	$	31,755.71	0.00%	7.00%	7.00%	0.08%	0.0056%
SJM UN Equity	J M Smucker Co/The	SJM	13400698292	3.088056926		0.73		108.3585	123.67	J M Smucker Co/T	SJM	$	13,400.70	3.09%	0.73%	3.83%	0.03%	0.0013%
SLB UN Equity	Schlumberger NV	SLB	39212061544	1.836661912		46.62		1398.433	28.04	Schlumberger NV	SLB	$	39,212.06	1.84%	46.62%	48.88%	0.10%	0.0480%
SNA UN Equity	Snap-on Inc	SNA	12140666225	2.144921094		7.71		53.97051	224.95	Snap-on Inc	SNA	$	12,140.67	2.14%	7.71%	9.94%	0.03%	0.0030%
SNPS UW Equity	Synopsys Inc	SNPS	50667514989	#N/A N/A		15.887		152.5028	332.24	Synopsys Inc	SNPS	$	50,667.51	0.00%	15.89%	15.89%	0.13%	0.0202%
SO UN Equity	Southern Co/The	SO	69651536723	3.989046098		4.6		1059.661	65.73	Southern Co/The	SO	$	69,651.54	3.99%	4.60%	8.68%	0.17%	0.0151%
SPG UN Equity	Simon Property Group Inc	SPG	44182846465	4.167348457		7.92		328.6112	134.45	Simon Property G	SPG	$	44,182.85	4.17%	7.92%	12.25%	0.11%	0.0136%
SPGI UN Equity	S&P Global Inc	SPGI	1.06961E+11	0.691496553		9.4		241	443.82	S&P Global Inc	SPGI	$	106,960.62	0.69%	9.40%	10.12%	0.27%	0.0271%
SRE UN Equity	Sempra Energy	SRE	41702784192	3.340132971		5.653		315.0709	132.36	Sempra Energy	SRE	$	41,702.78	3.34%	5.65%	9.09%	0.10%	0.0095%
STE UN Equity	STERIS PLC	STE	21449169904	0.758104274		12		99.75894	215.01	STERIS PLC	STE	$	21,449.17	0.76%	12.00%	12.80%	0.05%	0.0069%
STT UN Equity	State Street Corp	STT	31914874322	2.345280379		9.5		343.5031	92.91	State Street Corp	STT	$	31,914.87	2.35%	9.50%	11.96%	0.08%	0.0096%
STX UW Equity	Seagate Technology Holdings PLC	STX	19792927333	3.087110401		5.255		225.9725	87.59	Seagate Technolo	STX	$	19,792.93	3.09%	5.26%	8.42%	0.05%	0.0042%
STZ UN Equity	Constellation Brands Inc	STZ	40709337073	1.445960027		7.55		168.2514	211.14	Constellation Bran	STZ	$	40,709.34	1.45%	7.55%	9.05%	0.10%	0.0092%
SWK UN Equity	Stanley Black & Decker Inc	SWK	31495679269	1.551197806		15.38		162.9621	193.27	Stanley Black & D	SWK	$	31,495.68	1.55%	15.38%	17.05%	0.08%	0.0134%
SWKS UW Equity	Skyworks Solutions Inc	SWKS	30297489041	1.107053309		24.05		165.1449	183.46	Skyworks Solution	SWKS	$	30,297.49	1.11%	24.05%	25.29%	0.08%	0.0192%
SYF UN Equity	Synchrony Financial	SYF	28342531021	1.798994975		35.6		569.6991	49.75	Synchrony Financ	SYF	$	28,342.53	1.80%	35.60%	37.72%	0.07%	0.0268%
SYK UN Equity	Stryker Corp	SYK	1.04493E+11	0.899675208		12.325		377.0963	277.1	Stryker Corp	SYK	$	104,493.38	0.90%	12.33%	13.28%	0.26%	0.0347%
SYY UN Equity	Sysco Corp	SYY	40787315051	2.381669805		30.7		512.0818	79.65	Sysco Corp	SYY	$	40,787.32	2.38%	30.70%	33.45%	0.10%	0.0342%
T UN Equity	AT&T Inc	T	1.95779E+11	7.607585704		2.11		7140	27.42	AT&T Inc	T	$	195,778.80	7.61%	2.11%	9.80%	0.49%	0.0480%
TAP UN Equity	Molson Coors Beverage Co	TAP	10437849411	1.447506838		4.09		200.5723	47.53	Molson Coors Bev	TAP	$	10,437.85	1.45%	4.09%	5.57%	0.03%	0.0015%
TDG UN Equity	TransDigm Group Inc	TDG	33479149067	0.205771478		28.667		55.11243	607.47	TransDigm Group	TDG	$	33,479.15	0.21%	28.67%	28.90%	0.08%	0.0242%
TDY UN Equity	Teledyne Technologies Inc	TDY	21596585307	#N/A N/A		14.1		46.60664	463.38	Teledyne Technol	TDY	$	21,596.59	0.00%	14.10%	14.10%	0.05%	0.0076%
TECH UW Equity	Bio-Techne Corp	TECH	19506161096	0.261650038		20.275		39.07954	499.14	Bio-Techne Corp	TECH	$	19,506.16	0.26%	20.28%	20.56%	0.05%	0.0100%
TEL UN Equity	TE Connectivity Ltd	TEL	49271697022	1.294767674		12.577		327.9969	150.22	TE Connectivity Lt	TEL	$	49,271.70	1.29%	12.58%	13.95%	0.12%	0.0172%
TER UW Equity	Teradyne Inc	TER	20034345287	0.321969697	#N/A N/A			164.9732	121.44	Teradyne Inc	TER	$	20,034.35	0.32%	N/A	N/A	N/A	N/A

TFC UN Equity	Truist Financial Corp	TFC	76165431754	3.259726604		10.54	1334.831	57.06	Truist Financial Cc	TFC	$	76,165.43	3.26%	10.54%	13.97%	0.19%	0.0266%
TFX UN Equity	Teleflex Inc	TFX	18507978033	0.343903302		9.5	46.80114	395.46	Teleflex Inc	TFX	$	18,507.98	0.34%	9.50%	9.86%	0.05%	0.0046%
TGT UN Equity	Target Corp	TGT	1.20536E+11	1.260021054		19.327	488.0391	246.98	Target Corp	TGT	$	120,535.89	1.26%	19.33%	20.71%	0.30%	0.0625%
TJX UN Equity	TJX Cos Inc/The	TJX	87448650406	1.430143014		67.9	1202.539	72.72	TJX Cos Inc/The	TJX	$	87,448.65	1.43%	67.90%	69.82%	0.22%	0.1528%
TMO UN Equity	Thermo Fisher Scientific Inc	TMO	2.18328E+11	0.17334895		10.867	393.4189	554.95	Thermo Fisher Sc	TMO	$	218,327.82	0.17%	10.87%	11.05%	0.55%	0.0604%
TMUS UW Equity	T-Mobile US Inc	TMUS	1.70996E+11	0		20.4	1247.966	137.02	T-Mobile US Inc	TMUS	$	170,996.34	0.00%	20.40%	20.40%	0.43%	0.0873%
TPR UN Equity	Tapestry Inc	TPR	11272471258	2.475198413		19.933	279.5752	40.32	Tapestry Inc	TPR	$	11,272.47	2.48%	19.93%	22.65%	0.03%	0.0064%
TRMB UW Equity	Trimble Inc	TRMB	23707625942	#N/A N/A		10	251.6199	94.22	Trimble Inc	TRMB	$	23,707.63	0.00%	10.00%	10.00%	0.06%	0.0059%
TROW UW Equity	T Rowe Price Group Inc	TROW	50804360669	2.789118685		10.6	226.9369	223.87	T Rowe Price Gro	TROW	$	50,804.36	2.79%	10.60%	13.54%	0.13%	0.0172%
TRV UN Equity	Travelers Cos Inc/The	TRV	39846511059	2.205873145		8.627	249.4929	159.71	Travelers Cos Inc/	TRV	$	39,846.51	2.21%	8.63%	10.93%	0.10%	0.0109%
TSCO UW Equity	Tractor Supply Co	TSCO	22210223905	1.062033462		9.183	114.3383	194.25	Tractor Supply Co	TSCO	$	22,210.22	1.06%	9.18%	10.29%	0.06%	0.0057%
TSLA UW Equity	Tesla Inc	TSLA	7.3702E+11	0		40.267	1001.767	735.72	Tesla Inc	TSLA	$	737,020.26	0.00%	40.27%	40.27%	1.85%	0.7430%
TSN UN Equity	Tyson Foods Inc	TSN	28646143802	2.291136016		7.785	294.8157	78.52	Tyson Foods Inc	TSN	$	28,646.14	2.29%	7.79%	10.17%	0.07%	0.0073%
TT UN Equity	Trane Technologies PLC	TT	47165327546	1.179345088		17	237.6087	198.5	Trane Technologie	TT	$	47,165.33	1.18%	17.00%	18.28%	0.12%	0.0216%
TTWO UW Equity	Take-Two Interactive Software Inc	TTWO	18785085324	#N/A N/A		7.875	116.5183	161.22	Take-Two Interact	TTWO	$	18,785.09	0.00%	7.88%	7.88%	0.05%	0.0037%
TWTR UN Equity	Twitter Inc	TWTR	51468844217	0		39	797.9666	64.5	Twitter Inc	TWTR	$	51,468.84	0.00%	39.00%	39.00%	0.13%	0.0503%
TXN UW Equity	Texas Instruments Inc	TXN	1.7625E+11	2.188465769		10.6	923.21	190.91	Texas Instruments	TXN	$	176,250.02	2.19%	10.60%	12.90%	0.44%	0.0569%
TXT UN Equity	Textron Inc	TXT	16288105771	0.110086693		30.725	224.138	72.67	Textron Inc	TXT	$	16,288.11	0.11%	30.73%	30.85%	0.04%	0.0126%
TYL UN Equity	Tyler Technologies Inc	TYL	19837643266	#N/A N/A		17.9	40.84341	485.7	Tyler Technologie	TYL	$	19,837.64	0.00%	17.90%	17.90%	0.05%	0.0089%
UAA UN Equity	Under Armour Inc	UAA	10027741077	0		26.415	188.6451	23.14	Under Armour Inc	UAA	$	10,027.74	0.00%	26.42%	26.42%	0.03%	0.0066%
UAL UW Equity	United Airlines Holdings Inc	UAL	15051136680	0	#N/A N/A		323.6108	46.51	United Airlines Ho	UAL	$	15,051.14	0.00%	N/A	N/A	N/A	N/A
UDR UN Equity	UDR Inc	UDR	16035667971	2.68419104		4.48	296.8469	54.02	UDR Inc	UDR	$	16,035.67	2.68%	4.48%	7.22%	0.04%	0.0029%
UHS UN Equity	Universal Health Services Inc	UHS	12948488610	0.515536723		6.52	75.87428	155.76	Universal Health S	UHS	$	12,948.49	0.52%	6.52%	7.05%	0.03%	0.0023%
ULTA UW Equity	Ulta Beauty Inc	ULTA	21053228887	0		33.3	54.35757	387.31	Ulta Beauty Inc	ULTA	$	21,053.23	0.00%	33.30%	33.30%	0.05%	0.0176%
UNH UN Equity	UnitedHealth Group Inc	UNH	3.92508E+11	1.317894636		11.972	942.9174	416.27	UnitedHealth Grou	UNH	$	392,508.21	1.32%	11.97%	13.37%	0.98%	0.1314%
UNM UN Equity	Unum Group	UNM	5440958697	4.451540195		4.89	204.3936	26.62	Unum Group	UNM	$	5,440.96	4.45%	4.89%	9.45%	0.01%	0.0013%
UNP UN Equity	Union Pacific Corp	UNP	1.41406E+11	1.93598967		11.1	652.1229	216.84	Union Pacific Corp	UNP	$	141,406.34	1.94%	11.10%	13.14%	0.35%	0.0465%
UPS UN Equity	United Parcel Service Inc	UPS	1.70402E+11	2.114195164		14.388	728.2896	195.63	United Parcel Ser	UPS	$	170,402.00	2.11%	14.39%	16.65%	0.43%	0.0710%
URI UN Equity	United Rentals Inc	URI	25528382518	0		15.425	72.39014	352.65	United Rentals Inc	URI	$	25,528.38	0.00%	15.43%	15.43%	0.06%	0.0099%
USB UN Equity	US Bancorp	USB	85087717556	3.066736365		11.067	1482.623	57.39	US Bancorp	USB	$	85,087.72	3.07%	11.07%	14.30%	0.21%	0.0305%
V UN Equity	Visa Inc	V	5.03339E+11	0.541684854		19.595	1687.643	229.1	Visa Inc	V	$	503,338.86	0.54%	19.60%	20.19%	1.26%	0.2544%
VFC UN Equity	VF Corp	VFC	30025075807	2.582712175		22.5	392.6386	76.47	VF Corp	VFC	$	30,025.08	2.58%	22.50%	25.37%	0.08%	0.0191%
VIAC UW Equity	ViacomCBS Inc	VIAC	26982700875	2.342581423		0.783	605.8135	41.45	ViacomCBS Inc	VIAC	$	26,982.70	2.34%	0.78%	3.13%	0.07%	0.0021%
VLO UN Equity	Valero Energy Corp	VLO	27109081643	5.935756296		-19.39	408.8234	66.31	Valero Energy Cor	VLO	$	27,109.08	5.94%	-19.39%	-14.03%	0.07%	-0.0095%
VMC UN Equity	Vulcan Materials Co	VMC	24668870555	0.78309041		22.6	132.6783	185.93	Vulcan Materials C	VMC	$	24,668.87	0.78%	22.60%	23.47%	0.06%	0.0145%
VNO UN Equity	Vornado Realty Trust	VNO	8022564461	5.062082139		-2.07	191.5608	41.88	Vornado Realty Tr	VNO	$	8,022.56	5.06%	-2.07%	2.94%	0.02%	0.0006%
VRSK UW Equity	Verisk Analytics Inc	VRSK	32554070625	0.573949247		8.39	161.3505	201.76	Verisk Analytics In	VRSK	$	32,554.07	0.57%	8.39%	8.99%	0.08%	0.0073%
VRSN UW Equity	VeriSign Inc	VRSN	24193965529	0	#N/A N/A		111.8744	216.26	VeriSign Inc	VRSN	$	24,193.97	0.00%	N/A	N/A	N/A	N/A
VRTX UW Equity	Vertex Pharmaceuticals Inc	VRTX	51960913034	0		37.947	259.4284	200.29	Vertex Pharmaceu	VRTX	$	51,960.91	0.00%	37.95%	37.95%	0.13%	0.0494%
VTR UN Equity	Ventas Inc	VTR	21276923661	3.219520915		7.287	380.3526	55.94	Ventas Inc	VTR	$	21,276.92	3.22%	7.29%	10.62%	0.05%	0.0057%
VTRS UW Equity	Viatris Inc	VTRS	17691919430	3.212576897		-5.51	1209.29	14.63	Viatris Inc	VTRS	$	17,691.92	3.21%	-5.51%	-2.39%	0.04%	-0.0011%
VZ UN Equity	Verizon Communications Inc	VZ	2.27706E+11	4.605454545		3.045	4140.116	55	Verizon Communi	VZ	$	227,706.38	4.61%	3.05%	7.72%	0.57%	0.0440%
WAB UN Equity	Westinghouse Air Brake Technologies C	WAB	16973380998	0.540149237		10.985	189.0342	89.79	Westinghouse Air	WAB	$	16,973.38	0.54%	10.99%	11.55%	0.04%	0.0049%
WAT UN Equity	Waters Corp	WAT	25405674454	0		10.757	61.3634	414.02	Waters Corp	WAT	$	25,405.67	0.00%	10.76%	10.76%	0.06%	0.0068%
WBA UW Equity	Walgreens Boots Alliance Inc	WBA	43898105780	3.696551724		2.53	864.9873	50.75	Walgreens Boots /	WBA	$	43,898.11	3.70%	2.53%	6.27%	0.11%	0.0069%
WDC UW Equity	Western Digital Corp	WDC	19512876697	0		4.473	308.748	63.2	Western Digital Cc	WDC	$	19,512.88	0.00%	4.47%	4.47%	0.05%	0.0022%
WEC UN Equity	WEC Energy Group Inc	WEC	29802254489	2.866215072		6.777	315.4345	94.48	WEC Energy Grou	WEC	$	29,802.25	2.87%	6.78%	9.74%	0.07%	0.0073%
WELL UN Equity	Welltower Inc	WELL	36986925210	2.796755398		20.09	422.5628	87.53	Welltower Inc	WELL	$	36,986.93	2.80%	20.09%	23.17%	0.09%	0.0215%
WFC UN Equity	Wells Fargo & Co	WFC	1.87663E+11	1.312910284		37.055	4106.411	45.7	Wells Fargo & Co	WFC	$	187,662.96	1.31%	37.06%	38.61%	0.47%	0.1814%
WHR UN Equity	Whirlpool Corp	WHR	13890705247	2.460163409		8.12	62.7035	221.53	Whirlpool Corp	WHR	$	13,890.71	2.46%	8.12%	10.68%	0.03%	0.0037%
WLTW UW Equity	Willis Towers Watson PLC	WLTW	28482093294	1.403588257		13	129.0417	220.72	Willis Towers Wat	WLTW	$	28,482.09	1.40%	13.00%	14.49%	0.07%	0.0103%
WM UN Equity	Waste Management Inc	WM	65316662012	1.487976275		11.443	421.099	155.11	Waste Manageme	WM	$	65,316.66	1.49%	11.44%	13.02%	0.16%	0.0213%
WMB UN Equity	Williams Cos Inc/The	WMB	29997333488	6.646415553		6.7	1214.959	24.69	Williams Cos Inc/T	WMB	$	29,997.33	6.65%	6.70%	13.57%	0.08%	0.0102%
WMT UN Equity	Walmart Inc	WMT	4.14998E+11	1.46320054		7.233	2802.146	148.1	Walmart Inc	WMT	$	414,997.81	1.46%	7.23%	8.75%	1.04%	0.0909%
WRB UN Equity	W R Berkley Corp	WRB	13369775941	1.476563537		21.5	177.5299	75.31	W R Berkley Corp	WRB	$	13,369.78	1.48%	21.50%	23.14%	0.03%	0.0077%
WRK UN Equity	Westrock Co	WRK	13894997600	1.673712529		15.495	267.0061	52.04	Westrock Co	WRK	$	13,895.00	1.67%	15.50%	17.30%	0.03%	0.0060%
WST UN Equity	West Pharmaceutical Services Inc	WST	33410435271	0.150126212		20.405	73.97909	451.62	West Pharmaceut	WST	$	33,410.44	0.15%	20.41%	20.57%	0.08%	0.0172%
WU UN Equity	Western Union Co/The	WU	8793375091	4.353049908		3.35	406.3482	21.64	Western Union Cc	WU	$	8,793.38	4.35%	3.35%	7.78%	0.02%	0.0017%
WY UN Equity	Weyerhaeuser Co	WY	26992224000	1.894444444	#N/A N/A		749.784	36	Weyerhaeuser Co	WY	$	26,992.22	1.89%	N/A	N/A	N/A	N/A
WYNN UW Equity	Wynn Resorts Ltd	WYNN	11762648360	0		-115.01	115.6716	101.69	Wynn Resorts Ltd	WYNN	$	11,762.65	0.00%	-115.01%	-115.01%	0.03%	-0.0339%
XEL UW Equity	Xcel Energy Inc	XEL	37017519756	2.656		6.587	538.4367	68.75	Xcel Energy Inc	XEL	$	37,017.52	2.66%	6.59%	9.33%	0.09%	0.0086%
XLNX UW Equity	Xilinx Inc	XLNX	38503572570	0.98528183		9.25	247.4682	155.59	Xilinx Inc	XLNX	$	38,503.57	0.99%	9.25%	10.28%	0.10%	0.0099%
XOM UN Equity	Exxon Mobil Corp	XOM	2.30814E+11	6.397652238		17.15	4233.563	54.52	Exxon Mobil Corp	XOM	$	230,813.85	6.40%	17.15%	24.10%	0.58%	0.1392%
XRAY UW Equity	DENTSPLY SIRONA Inc	XRAY	13484572082	0.632090762		22.21	218.5506	61.7	DENTSPLY SIROI	XRAY	$	13,484.57	0.63%	22.21%	22.91%	0.03%	0.0077%
XYL UN Equity	Xylem Inc/NY	XYL	24558017712	0.821656518		15.8	180.163	136.31	Xylem Inc/NY	XYL	$	24,558.02	0.82%	15.80%	16.69%	0.06%	0.0103%
YUM UN Equity	Yum! Brands Inc	YUM	38738568495	1.524078455		14.55	295.6466	131.03	Yum! Brands Inc	YUM	$	38,738.57	1.52%	14.55%	16.18%	0.10%	0.0157%
ZBH UN Equity	Zimmer Biomet Holdings Inc	ZBH	31420052623	0.640744433		16.105	208.8405	150.45	Zimmer Biomet Hc	ZBH	$	31,420.05	0.64%	16.11%	16.80%	0.08%	0.0132%
ZBRA UW Equity	Zebra Technologies Corp	ZBRA	31356620133	#N/A N/A		14.6	53.40297	587.17	Zebra Technologie	ZBRA	$	31,356.62	0.00%	14.60%	14.60%	0.08%	0.0115%
ZION UW Equity	Zions Bancorp NA	ZION	9383879808	2.419689119		13.485	162.0705	57.9	Zions Bancorp NA	ZION	$	9,383.88	2.42%	13.49%	16.07%	0.02%	0.0038%
ZTS UN Equity	Zoetis Inc	ZTS	96950024120	0.475655065		14.73	473.9442	204.56	Zoetis Inc	ZTS	$	96,950.02	0.48%	14.73%	15.24%	0.24%	0.0370%

Total Market Capitalization:	$	39,943,939.44		S&P 500 Est. Required Mark	18.17%

S&P 500 8/31/2021

Company Name	Ticker	Market Capitalization	Dividend Yield	Projected EPS Growth	DCF Result	Weight in Index	Weighted DCF
Agilent Technologies Inc	A	$ 52,579.73	0.45%	11.50%	11.98%	0.15%	0.0174%
American Airlines Group Inc	AAL	$ 13,046.04	0.00%	N/A	N/A	N/A	N/A
Advance Auto Parts Inc	AAP	$ 13,477.03	1.89%	11.00%	12.99%	0.04%	0.0049%
Apple Inc	AAPL	$ 2,456,388.00	0.61%	14.50%	15.15%	6.81%	1.0313%
AbbVie Inc	ABBV	$ 212,749.90	4.32%	6.50%	10.96%	0.59%	0.0646%
AmerisourceBergen Corp	ABC	$ 24,528.59	1.54%	7.00%	8.59%	0.07%	0.0058%
ABIOMED Inc	ABMD	$ 16,245.78	0.00%	9.50%	9.50%	0.05%	0.0043%
Abbott Laboratories	ABT	$ 221,141.20	1.44%	11.50%	13.02%	0.61%	0.0798%
Accenture PLC	ACN	$ 211,718.10	1.16%	10.00%	11.22%	0.59%	0.0658%
Adobe Inc	ADBE	$ 313,293.60	0.00%	15.50%	15.50%	0.87%	0.1345%
Analog Devices Inc	ADI	$ 60,387.10	1.68%	8.50%	10.25%	0.17%	0.0171%
Archer-Daniels-Midland Co	ADM	$ 33,707.70	2.52%	8.50%	11.13%	0.09%	0.0104%
Automatic Data Processing Inc	ADP	$ 88,210.10	1.93%	9.00%	11.02%	0.24%	0.0269%
Autodesk Inc	ADSK	$ 75,299.41	0.00%	18.00%	18.00%	0.21%	0.0375%
Ameren Corp	AEE	$ 22,455.11	2.60%	6.50%	9.18%	0.06%	0.0057%
American Electric Power Co Inc	AEP	$ 44,684.48	3.45%	6.50%	10.06%	0.12%	0.0125%
AES Corp/The	AES	$ 16,165.17	2.47%	17.50%	20.19%	0.04%	0.0090%
Aflac Inc	AFL	$ 38,377.35	2.38%	8.50%	10.98%	0.11%	0.0117%
American International Group Inc	AIG	$ 46,961.20	2.33%	31.50%	34.20%	0.13%	0.0445%
Assurant Inc	AIZ	$ 10,037.11	1.56%	15.00%	16.68%	0.03%	0.0046%
Arthur J Gallagher & Co	AJG	$ 29,553.79	1.34%	12.50%	13.92%	0.08%	0.0114%
Akamai Technologies Inc	AKAM	$ 18,458.64	0.00%	9.50%	9.50%	0.05%	0.0049%
Albemarle Corp	ALB	$ 27,385.01	0.67%	6.50%	7.19%	0.08%	0.0055%
Align Technology Inc	ALGN	$ 56,597.82	0.00%	24.50%	24.50%	0.16%	0.0384%
Alaska Air Group Inc	ALK	$ 7,220.71	0.00%	80.00%	80.00%	0.02%	0.0160%
Allstate Corp/The	ALL	$ 40,947.39	2.35%	5.00%	7.41%	0.11%	0.0084%
Allegion plc	ALLE	$ 12,669.43	1.02%	8.50%	9.56%	0.04%	0.0034%
Applied Materials Inc	AMAT	$ 121,397.50	0.72%	16.00%	16.78%	0.34%	0.0564%
Amcor PLC	AMCR	$ 19,734.99	3.67%	N/A	N/A	N/A	N/A
Advanced Micro Devices Inc	AMD	$ 131,367.90	0.00%	26.50%	26.50%	0.36%	0.0964%

AMETEK Inc	AME	$	31,591.99	0.59%	14.00%	14.63%	0.09%	0.0128%
Amgen Inc	AMGN	$	126,217.70	3.35%	5.50%	8.94%	0.35%	0.0313%
Ameriprise Financial Inc	AMP	$	31,166.51	1.66%	13.50%	15.27%	0.09%	0.0132%
American Tower Corp	AMT	$	128,728.30	1.91%	9.50%	11.50%	0.36%	0.0410%
Amazon.com Inc	AMZN	$	1,669,385.00	0.00%	30.00%	30.00%	4.62%	1.3874%
Arista Networks Inc	ANET	$	28,681.91	0.00%	4.50%	4.50%	0.08%	0.0036%
ANSYS Inc	ANSS	$	31,900.74	0.00%	8.00%	8.00%	0.09%	0.0071%
Anthem Inc	ANTM	$	91,026.81	1.26%	13.00%	14.34%	0.25%	0.0362%
Aon PLC	AON	$	63,386.82	0.73%	7.00%	7.76%	0.18%	0.0136%
A O Smith Corp	AOS	$	11,500.61	1.44%	9.50%	11.01%	0.03%	0.0035%
APA Corp	APA	$	6,843.77	0.55%	72.50%	73.25%	0.02%	0.0139%
Air Products and Chemicals Inc	APD	$	59,584.81	2.23%	12.00%	14.36%	0.17%	0.0237%
Amphenol Corp	APH	$	45,278.55	0.77%	10.50%	11.31%	0.13%	0.0142%
Aptiv PLC	APTV	$	42,583.37	0.00%	15.50%	15.50%	0.12%	0.0183%
Alexandria Real Estate Equities Inc	ARE	$	27,862.89	2.20%	13.00%	15.34%	0.08%	0.0118%
Atmos Energy Corp	ATO	$	12,750.42	2.77%	7.00%	9.87%	0.04%	0.0035%
Activision Blizzard Inc	ATVI	$	62,845.21	0.64%	13.00%	13.68%	0.17%	0.0238%
AvalonBay Communities Inc	AVB	$	31,011.27	2.93%	1.00%	3.94%	0.09%	0.0034%
Broadcom Inc	AVGO	$	198,198.10	2.98%	27.00%	30.38%	0.55%	0.1668%
Avery Dennison Corp	AVY	$	18,576.27	1.25%	9.00%	10.31%	0.05%	0.0053%
American Water Works Co Inc	AWK	$	32,828.82	1.36%	8.00%	9.41%	0.09%	0.0086%
American Express Co	AXP	$	132,611.60	1.11%	9.50%	10.66%	0.37%	0.0392%
AutoZone Inc	AZO	$	34,881.92	0.00%	14.50%	14.50%	0.10%	0.0140%
Boeing Co/The	BA	$	129,496.20	0.00%	N/A	N/A	N/A	N/A
Bank of America Corp	BAC	$	357,733.40	1.99%	6.50%	8.55%	0.99%	0.0848%
Baxter International Inc	BAX	$	36,889.30	1.52%	8.50%	10.08%	0.10%	0.0103%
Bath & Body Works Inc	BBWI	$	18,885.86	0.88%	30.50%	31.51%	0.05%	0.0165%
Best Buy Co Inc	BBY	$	30,521.26	2.30%	7.50%	9.89%	0.08%	0.0084%
Becton Dickinson and Co	BDX	$	70,935.93	1.39%	7.50%	8.94%	0.20%	0.0176%
Franklin Resources Inc	BEN	$	16,363.42	3.44%	10.50%	14.12%	0.05%	0.0064%
Brown-Forman Corp	BF/B	$	33,219.00	1.08%	13.00%	14.15%	0.09%	0.0130%
Biogen Inc	BIIB	$	51,104.02	0.00%	3.00%	3.00%	0.14%	0.0042%
Bio-Rad Laboratories Inc	BIO	$	23,774.63	0.00%	9.00%	9.00%	0.07%	0.0059%
Bank of New York Mellon Corp/The	BK	$	47,966.58	2.45%	5.00%	7.51%	0.13%	0.0100%
Booking Holdings Inc	BKNG	$	92,951.22	0.00%	14.00%	14.00%	0.26%	0.0361%

Baker Hughes Co	BKR	$	18,514.08	3.22%	N/A	N/A	N/A	N/A
BlackRock Inc	BLK	$	143,088.00	1.76%	9.00%	10.84%	0.40%	0.0430%
Ball Corp	BLL	$	30,932.14	0.85%	22.00%	22.94%	0.09%	0.0197%
Bristol-Myers Squibb Co	BMY	$	150,214.90	2.90%	56.00%	59.71%	0.42%	0.2485%
Broadridge Financial Solutions Inc	BR	$	19,816.58	1.50%	9.50%	11.07%	0.05%	0.0061%
Berkshire Hathaway Inc	BRK/B		-	0.00%	N/A	N/A	N/A	N/A
Boston Scientific Corp	BSX	$	63,707.14	0.00%	17.50%	17.50%	0.18%	0.0309%
BorgWarner Inc	BWA	$	10,344.54	1.58%	9.00%	10.65%	0.03%	0.0031%
Boston Properties Inc	BXP	$	17,748.85	3.56%	-2.00%	1.52%	0.05%	0.0007%
Citigroup Inc	C	$	148,320.10	2.79%	7.00%	9.89%	0.41%	0.0406%
Conagra Brands Inc	CAG	$	15,771.06	3.44%	5.00%	8.53%	0.04%	0.0037%
Cardinal Health Inc	CAH	$	15,065.07	3.79%	11.50%	15.51%	0.04%	0.0065%
Carrier Global Corp	CARR	$	50,277.34	0.83%	N/A	N/A	N/A	N/A
Caterpillar Inc	CAT	$	117,574.90	2.07%	9.00%	11.16%	0.33%	0.0364%
Chubb Ltd	CB	$	81,899.69	1.71%	12.50%	14.32%	0.23%	0.0325%
Cboe Global Markets Inc	CBOE	$	13,392.79	1.53%	12.00%	13.62%	0.04%	0.0051%
CBRE Group Inc	CBRE	$	31,720.96	0.00%	10.50%	10.50%	0.09%	0.0092%
Crown Castle International Corp	CCI	$	82,209.59	2.96%	8.50%	11.59%	0.23%	0.0264%
Carnival Corp	CCL	$	23,478.90	0.00%	N/A	N/A	N/A	N/A
Cadence Design Systems Inc	CDNS	$	43,905.61	0.00%	11.00%	11.00%	0.12%	0.0134%
CDW Corp/DE	CDW	$	27,435.96	0.81%	10.50%	11.35%	0.08%	0.0086%
Celanese Corp	CE	$	17,678.40	1.71%	6.50%	8.27%	0.05%	0.0040%
Cerner Corp	CERN	$	22,913.21	1.15%	11.00%	12.21%	0.06%	0.0078%
CF Industries Holdings Inc	CF	$	9,823.07	2.74%	19.50%	22.51%	0.03%	0.0061%
Citizens Financial Group Inc	CFG	$	18,918.09	3.60%	8.50%	12.25%	0.05%	0.0064%
Church & Dwight Co Inc	CHD	$	20,207.19	1.23%	8.00%	9.28%	0.06%	0.0052%
CH Robinson Worldwide Inc	CHRW	$	11,933.11	2.26%	8.00%	10.35%	0.03%	0.0034%
Charter Communications Inc	CHTR	$	146,445.50	0.00%	26.50%	26.50%	0.41%	0.1075%
Cigna Corp	CI	$	71,895.23	1.89%	10.00%	11.98%	0.20%	0.0239%
Cincinnati Financial Corp	CINF	$	20,114.95	2.02%	17.50%	19.70%	0.06%	0.0110%
Colgate-Palmolive Co	CL	$	65,498.78	2.32%	4.50%	6.87%	0.18%	0.0125%
Clorox Co/The	CLX	$	20,237.83	2.82%	6.00%	8.90%	0.06%	0.0050%
Comerica Inc	CMA	$	10,073.24	3.62%	2.50%	6.17%	0.03%	0.0017%
Comcast Corp	CMCSA	$	272,997.60	1.68%	11.00%	12.77%	0.76%	0.0966%
CME Group Inc	CME	$	71,765.52	1.80%	8.50%	10.38%	0.20%	0.0206%

Chipotle Mexican Grill Inc	CMG	$	54,074.60	0.00%	22.00%	22.00%	0.15%	0.0330%
Cummins Inc	CMI	$	34,268.14	2.43%	7.00%	9.52%	0.09%	0.0090%
CMS Energy Corp	CMS	$	18,436.51	2.73%	7.50%	10.33%	0.05%	0.0053%
Centene Corp	CNC	$	37,055.61	0.00%	9.50%	9.50%	0.10%	0.0098%
CenterPoint Energy Inc	CNP	$	15,248.15	2.53%	8.00%	10.63%	0.04%	0.0045%
Capital One Financial Corp	COF	$	77,592.60	1.38%	4.00%	5.41%	0.21%	0.0116%
Cabot Oil & Gas Corp	COG	$	5,994.96	3.20%	13.50%	16.92%	0.02%	0.0028%
Cooper Cos Inc/The	COO	$	21,979.61	0.01%	13.50%	13.51%	0.06%	0.0082%
ConocoPhillips	COP	$	75,015.37	3.07%	13.50%	16.78%	0.21%	0.0349%
Costco Wholesale Corp	COST	$	199,507.30	0.70%	10.50%	11.24%	0.55%	0.0621%
Campbell Soup Co	CPB	$	13,278.53	3.60%	5.00%	8.69%	0.04%	0.0032%
Copart Inc	CPRT	$	34,049.23	0.00%	15.00%	15.00%	0.09%	0.0141%
Charles River Laboratories International	CRL	$	21,813.76	0.00%	7.00%	7.00%	0.06%	0.0042%
salesforce.com Inc	CRM	$	241,286.20	0.00%	20.00%	20.00%	0.67%	0.1337%
Cisco Systems Inc/Delaware	CSCO	$	250,160.30	2.49%	6.00%	8.56%	0.69%	0.0594%
CSX Corp	CSX	$	75,435.44	1.11%	11.50%	12.67%	0.21%	0.0265%
Cintas Corp	CTAS	$	40,808.56	0.97%	12.50%	13.53%	0.11%	0.0153%
Catalent Inc	CTLT	$	21,994.24	0.00%	28.00%	28.00%	0.06%	0.0171%
Cognizant Technology Solutions Corp	CTSH	$	40,682.25	1.24%	6.50%	7.78%	0.11%	0.0088%
Corteva Inc	CTVA	$	32,152.95	1.28%	N/A	N/A	N/A	N/A
Citrix Systems Inc	CTXS	$	12,623.97	1.50%	8.50%	10.06%	0.03%	0.0035%
CVS Health Corp	CVS	$	110,145.30	2.39%	6.00%	8.46%	0.31%	0.0258%
Chevron Corp	CVX	$	190,509.70	5.44%	24.00%	30.09%	0.53%	0.1588%
Caesars Entertainment Inc	CZR		N/A	0.00%	N/A	N/A	N/A	N/A
Dominion Energy Inc	D	$	63,514.74	3.30%	12.00%	15.50%	0.18%	0.0273%
Delta Air Lines Inc	DAL	$	26,428.49	0.00%	49.00%	49.00%	0.07%	0.0359%
DuPont de Nemours Inc	DD	$	39,364.04	1.65%	N/A	N/A	N/A	N/A
Deere & Co	DE	$	117,405.60	0.96%	17.00%	18.04%	0.33%	0.0587%
Discover Financial Services	DFS	$	39,699.50	1.52%	16.00%	17.64%	0.11%	0.0194%
Dollar General Corp	DG	$	55,446.76	0.72%	10.50%	11.26%	0.15%	0.0173%
Quest Diagnostics Inc	DGX	$	18,264.62	1.66%	7.50%	9.22%	0.05%	0.0047%
DR Horton Inc	DHI	$	34,795.43	0.85%	14.50%	15.41%	0.10%	0.0149%
Danaher Corp	DHR	$	228,044.80	0.26%	20.50%	20.79%	0.63%	0.1313%
Walt Disney Co/The	DIS	$	317,570.10	0.00%	14.00%	14.00%	0.88%	0.1232%
Discovery Inc	DISCA	$	14,542.44	0.00%	13.50%	13.50%	0.04%	0.0054%

DISH Network Corp	DISH	$	23,068.14	0.00%	2.50%	2.50%	0.06%	0.0016%
Digital Realty Trust Inc	DLR	$	44,462.40	3.00%	7.00%	10.11%	0.12%	0.0124%
Dollar Tree Inc	DLTR	$	24,644.98	0.00%	9.50%	9.50%	0.07%	0.0065%
Dover Corp	DOV	$	25,115.44	1.15%	7.00%	8.19%	0.07%	0.0057%
Dow Inc	DOW	$	47,632.46	4.54%	N/A	N/A	N/A	N/A
Domino's Pizza Inc	DPZ	$	18,874.41	0.76%	15.00%	15.82%	0.05%	0.0083%
Duke Realty Corp	DRE	$	18,465.07	2.18%	-1.00%	1.17%	0.05%	0.0006%
Darden Restaurants Inc	DRI	$	19,635.37	2.93%	19.00%	22.21%	0.05%	0.0121%
DTE Energy Co	DTE	$	23,401.37	2.73%	6.00%	8.81%	0.06%	0.0057%
Duke Energy Corp	DUK	$	81,037.23	3.76%	7.00%	10.89%	0.22%	0.0245%
DaVita Inc	DVA	$	13,812.58	0.00%	16.50%	16.50%	0.04%	0.0063%
Devon Energy Corp	DVN	$	19,795.48	1.51%	20.00%	21.66%	0.05%	0.0119%
DXC Technology Co	DXC	$	9,450.74	0.00%	6.50%	6.50%	0.03%	0.0017%
Dexcom Inc	DXCM	$	50,048.06	0.00%	34.00%	34.00%	0.14%	0.0471%
Electronic Arts Inc	EA	$	40,484.29	0.51%	12.50%	13.04%	0.11%	0.0146%
eBay Inc	EBAY	$	49,019.76	1.03%	16.50%	17.61%	0.14%	0.0239%
Ecolab Inc	ECL	$	64,109.29	0.86%	9.00%	9.90%	0.18%	0.0176%
Consolidated Edison Inc	ED	$	26,570.31	4.19%	4.00%	8.27%	0.07%	0.0061%
Equifax Inc	EFX	$	32,266.04	0.59%	10.50%	11.12%	0.09%	0.0099%
Edison International	EIX	$	22,166.59	4.63%	23.50%	28.67%	0.06%	0.0176%
Estee Lauder Cos Inc/The	EL	$	121,576.00	0.68%	11.50%	12.22%	0.34%	0.0412%
Eastman Chemical Co	EMN	$	15,458.89	2.42%	10.50%	13.05%	0.04%	0.0056%
Emerson Electric Co	EMR	$	62,311.60	1.96%	10.50%	12.56%	0.17%	0.0217%
Enphase Energy Inc	ENPH	$	23,268.67	0.00%	36.00%	36.00%	0.06%	0.0232%
EOG Resources Inc	EOG	$	40,128.63	2.50%	16.00%	18.70%	0.11%	0.0208%
Equinix Inc	EQIX	$	72,475.82	1.49%	17.00%	18.62%	0.20%	0.0374%
Equity Residential	EQR	$	30,513.88	2.94%	N/A	N/A	N/A	N/A
Eversource Energy	ES	$	31,044.35	2.76%	6.50%	9.35%	0.09%	0.0080%
Essex Property Trust Inc	ESS	$	20,666.43	2.67%	-0.50%	2.16%	0.06%	0.0012%
Eaton Corp PLC	ETN	$	67,845.70	1.79%	9.00%	10.87%	0.19%	0.0204%
Entergy Corp	ETR	$	22,866.44	3.45%	3.00%	6.50%	0.06%	0.0041%
Etsy Inc	ETSY	$	25,593.07	0.00%	30.00%	30.00%	0.07%	0.0213%
Evergy Inc	EVRG	$	15,789.32	3.24%	8.00%	11.37%	0.04%	0.0050%
Edwards Lifesciences Corp	EW	$	72,915.16	0.00%	13.00%	13.00%	0.20%	0.0263%
Exelon Corp	EXC	$	47,806.25	3.13%	5.50%	8.72%	0.13%	0.0115%

Expeditors International of Washington I	EXPD	$	20,998.95	0.94%	10.00%	10.99%	0.06%	0.0064%
Expedia Group Inc	EXPE	$	22,249.29	0.00%	N/A	N/A	N/A	N/A
Extra Space Storage Inc	EXR	$	23,674.65	2.77%	5.00%	7.84%	0.07%	0.0051%
Ford Motor Co	F	$	54,155.04	0.00%	47.50%	47.50%	0.15%	0.0713%
Diamondback Energy Inc	FANG	$	13,580.48	2.40%	N/A	N/A	N/A	N/A
Fastenal Co	FAST	$	31,901.88	2.02%	9.50%	11.62%	0.09%	0.0103%
Facebook Inc	FB	$	1,041,070.00	0.00%	18.50%	18.50%	2.88%	0.5336%
Fortune Brands Home & Security Inc	FBHS	$	14,092.61	1.02%	10.00%	11.07%	0.04%	0.0043%
Freeport-McMoRan Inc	FCX	$	50,593.51	0.85%	36.50%	37.51%	0.14%	0.0526%
FedEx Corp	FDX	$	71,740.52	1.11%	12.00%	13.18%	0.20%	0.0262%
FirstEnergy Corp	FE	$	21,223.57	4.08%	11.50%	15.81%	0.06%	0.0093%
F5 Networks Inc	FFIV	$	12,414.96	0.00%	8.00%	8.00%	0.03%	0.0028%
Fidelity National Information Services I	FIS	$	80,346.19	1.20%	34.50%	35.91%	0.22%	0.0799%
Fiserv Inc	FISV	$	78,731.71	0.00%	13.00%	13.00%	0.22%	0.0284%
Fifth Third Bancorp	FITB	$	27,649.95	3.05%	8.00%	11.17%	0.08%	0.0086%
FleetCor Technologies Inc	FLT	$	21,663.84	0.00%	11.00%	11.00%	0.06%	0.0066%
FMC Corp	FMC	$	11,956.14	2.11%	9.50%	11.71%	0.03%	0.0039%
Fox Corp	FOXA	$	21,590.32	1.30%	N/A	N/A	N/A	N/A
First Republic Bank/CA	FRC	$	34,480.75	0.46%	13.50%	13.99%	0.10%	0.0134%
Federal Realty Investment Trust	FRT	$	9,175.78	3.60%	-2.00%	1.56%	0.03%	0.0004%
Fortinet Inc	FTNT	$	49,974.70	0.00%	20.00%	20.00%	0.14%	0.0277%
Fortive Corp	FTV	$	26,650.62	0.38%	13.50%	13.91%	0.07%	0.0103%
General Dynamics Corp	GD	$	55,712.52	2.39%	5.00%	7.45%	0.15%	0.0115%
General Electric Co	GE	$	114,925.30	0.31%	14.50%	14.83%	0.32%	0.0472%
Gilead Sciences Inc	GILD	$	89,548.15	3.98%	15.50%	19.79%	0.25%	0.0491%
General Mills Inc	GIS	$	35,343.84	3.58%	3.00%	6.63%	0.10%	0.0065%
Globe Life Inc	GL	$	9,925.14	0.81%	7.00%	7.84%	0.03%	0.0022%
Corning Inc	GLW	$	34,207.16	2.35%	20.00%	22.59%	0.09%	0.0214%
General Motors Co	GM	$	72,150.68	0.00%	11.00%	11.00%	0.20%	0.0220%
Generac Holdings Inc	GNRC	$	30,770.38	0.00%	23.50%	23.50%	0.09%	0.0200%
Alphabet Inc	GOOGL		N/A	0.00%	N/A	N/A	N/A	N/A
Genuine Parts Co	GPC	$	17,875.49	2.61%	7.50%	10.21%	0.05%	0.0051%
Global Payments Inc	GPN	$	48,534.42	0.61%	16.50%	17.16%	0.13%	0.0231%
Gap Inc/The	GPS	$	10,359.96	1.75%	27.00%	28.99%	0.03%	0.0083%
Garmin Ltd	GRMN	$	33,196.52	1.67%	9.00%	10.75%	0.09%	0.0099%

Goldman Sachs Group Inc/The	GS	$	139,335.50	1.94%	8.50%	10.52%	0.39%	0.0406%
WW Grainger Inc	GWW	$	22,694.89	1.49%	5.50%	7.03%	0.06%	0.0044%
Halliburton Co	HAL	$	17,931.13	0.89%	7.00%	7.92%	0.05%	0.0039%
Hasbro Inc	HAS	$	13,552.14	2.76%	12.50%	15.43%	0.04%	0.0058%
Huntington Bancshares Inc/OH	HBAN	$	23,108.12	3.83%	8.50%	12.49%	0.06%	0.0080%
Hanesbrands Inc	HBI	$	6,891.53	3.04%	6.50%	9.64%	0.02%	0.0018%
HCA Healthcare Inc	HCA	$	81,380.95	0.77%	12.00%	12.82%	0.23%	0.0289%
Home Depot Inc/The	HD	$	342,017.30	2.13%	8.00%	10.22%	0.95%	0.0968%
Hess Corp	HES	$	21,472.72	1.44%	N/A	N/A	N/A	N/A
Hartford Financial Services Group Inc/Th	HIG	$	23,683.00	2.06%	6.50%	8.63%	0.07%	0.0057%
Huntington Ingalls Industries Inc	HII	$	8,290.04	2.21%	1.50%	3.73%	0.02%	0.0009%
Hilton Worldwide Holdings Inc	HLT	$	35,482.18	0.00%	26.50%	26.50%	0.10%	0.0260%
Hologic Inc	HOLX	$	19,655.46	0.00%	14.50%	14.50%	0.05%	0.0079%
Honeywell International Inc	HON	$	159,247.70	1.61%	10.00%	11.69%	0.44%	0.0516%
Hewlett Packard Enterprise Co	HPE	$	19,705.53	3.18%	6.50%	9.78%	0.05%	0.0053%
HP Inc	HPQ	$	35,297.39	2.65%	11.50%	14.30%	0.10%	0.0140%
Hormel Foods Corp	HRL	$	24,483.88	2.23%	9.00%	11.33%	0.07%	0.0077%
Henry Schein Inc	HSIC	$	10,553.46	0.00%	6.50%	6.50%	0.03%	0.0019%
Host Hotels & Resorts Inc	HST	$	11,406.32	0.00%	10.00%	10.00%	0.03%	0.0032%
Hershey Co/The	HSY	$	36,177.82	2.05%	5.50%	7.61%	0.10%	0.0076%
Humana Inc	HUM	$	52,394.88	0.69%	11.50%	12.23%	0.15%	0.0178%
Howmet Aerospace Inc	HWM	$	14,128.36	0.24%	10.50%	10.75%	0.04%	0.0042%
International Business Machines Corp	IBM	$	125,359.30	4.70%	1.50%	6.24%	0.35%	0.0217%
Intercontinental Exchange Inc	ICE	$	66,039.90	1.13%	8.00%	9.18%	0.18%	0.0168%
IDEXX Laboratories Inc	IDXX	$	57,560.64	0.00%	14.50%	14.50%	0.16%	0.0231%
IDEX Corp	IEX	$	17,232.23	0.95%	8.00%	8.99%	0.05%	0.0043%
International Flavors & Fragrances Inc	IFF	$	37,773.57	2.12%	7.50%	9.70%	0.10%	0.0102%
Illumina Inc	ILMN	$	71,658.09	0.00%	10.50%	10.50%	0.20%	0.0208%
Incyte Corp	INCY	$	16,699.40	0.00%	58.50%	58.50%	0.05%	0.0271%
IHS Markit Ltd	INFO	$	47,433.40	0.67%	10.50%	11.21%	0.13%	0.0147%
Intel Corp	INTC	$	218,307.20	2.58%	7.00%	9.67%	0.60%	0.0585%
Intuit Inc	INTU	$	151,920.40	0.49%	16.00%	16.53%	0.42%	0.0696%
International Paper Co	IP	$	23,240.88	3.45%	12.00%	15.66%	0.06%	0.0101%
Interpublic Group of Cos Inc/The	IPG	$	14,606.72	3.02%	12.00%	15.20%	0.04%	0.0062%
IPG Photonics Corp	IPGP	$	9,208.65	0.00%	17.00%	17.00%	0.03%	0.0043%

IQVIA Holdings Inc	IQV	$	49,568.84	0.00%	14.00%	14.00%	0.14%	0.0192%
Ingersoll Rand Inc	IR	$	21,881.29	0.00%	N/A	N/A	N/A	N/A
Iron Mountain Inc	IRM	$	13,280.38	5.41%	8.00%	13.63%	0.04%	0.0050%
Intuitive Surgical Inc	ISRG	$	123,918.00	0.00%	15.00%	15.00%	0.34%	0.0515%
Gartner Inc	IT	$	25,846.35	0.00%	18.50%	18.50%	0.07%	0.0132%
Illinois Tool Works Inc	ITW	$	72,639.00	2.12%	11.00%	13.24%	0.20%	0.0266%
Invesco Ltd	IVZ	$	11,691.88	2.92%	15.00%	18.14%	0.03%	0.0059%
Jacobs Engineering Group Inc	J	$	17,640.37	0.62%	15.00%	15.67%	0.05%	0.0077%
JB Hunt Transport Services Inc	JBHT	$	18,431.39	0.70%	8.00%	8.73%	0.05%	0.0045%
Johnson Controls International plc	JCI	$	53,509.39	1.44%	8.50%	10.00%	0.15%	0.0148%
Jack Henry & Associates Inc	JKHY	$	12,882.65	1.06%	9.50%	10.61%	0.04%	0.0038%
Johnson & Johnson	JNJ	$	458,571.50	2.43%	8.50%	11.03%	1.27%	0.1402%
Juniper Networks Inc	JNPR	$	9,551.52	2.78%	7.00%	9.88%	0.03%	0.0026%
JPMorgan Chase & Co	JPM	$	480,853.90	2.49%	6.50%	9.07%	1.33%	0.1208%
Kellogg Co	K	$	21,817.18	3.64%	3.50%	7.20%	0.06%	0.0044%
KeyCorp	KEY	$	20,021.75	3.65%	9.50%	13.32%	0.06%	0.0074%
Keysight Technologies Inc	KEYS	$	32,221.08	0.00%	12.00%	12.00%	0.09%	0.0107%
Kraft Heinz Co/The	KHC	$	44,945.25	4.35%	1.50%	5.88%	0.12%	0.0073%
Kimco Realty Corp	KIM	$	9,515.42	3.36%	-2.00%	1.33%	0.03%	0.0003%
KLA Corp	KLAC	$	51,030.24	1.26%	18.00%	19.37%	0.14%	0.0274%
Kimberly-Clark Corp	KMB	$	45,724.07	3.36%	5.50%	8.95%	0.13%	0.0113%
Kinder Morgan Inc	KMI	$	37,298.05	6.56%	19.00%	26.18%	0.10%	0.0271%
CarMax Inc	KMX	$	20,754.13	0.00%	12.50%	12.50%	0.06%	0.0072%
Coca-Cola Co/The	KO	$	241,942.00	3.00%	7.00%	10.11%	0.67%	0.0677%
Kroger Co/The	KR	$	34,304.20	1.83%	5.50%	7.38%	0.10%	0.0070%
Kansas City Southern	KSU	$	26,685.96	0.74%	10.50%	11.28%	0.07%	0.0083%
Loews Corp	L	$	14,839.31	0.44%	22.00%	22.49%	0.04%	0.0092%
Leidos Holdings Inc	LDOS	$	13,860.62	1.48%	9.00%	10.55%	0.04%	0.0040%
Leggett & Platt Inc	LEG	$	6,560.98	3.41%	10.00%	13.58%	0.02%	0.0025%
Lennar Corp	LEN	$	33,801.96	0.96%	9.00%	10.00%	0.09%	0.0094%
Laboratory Corp of America Holdings	LH	$	29,421.94	0.00%	5.50%	5.50%	0.08%	0.0045%
L3Harris Technologies Inc	LHX	$	47,950.33	1.75%	N/A	N/A	N/A	N/A
Linde PLC	LIN	$	161,559.20	1.46%	N/A	N/A	N/A	N/A
LKQ Corp	LKQ	$	15,516.60	0.00%	12.00%	12.00%	0.04%	0.0052%
Eli Lilly & Co	LLY	$	252,533.60	1.29%	11.00%	12.36%	0.70%	0.0865%

Lockheed Martin Corp	LMT	$	99,343.62	3.07%	7.50%	10.69%	0.28%	0.0294%
Lincoln National Corp	LNC	$	13,251.43	2.48%	9.00%	11.59%	0.04%	0.0043%
Alliant Energy Corp	LNT	$	15,133.10	2.66%	5.50%	8.23%	0.04%	0.0035%
Lowe's Cos Inc	LOW	$	147,418.70	1.55%	14.00%	15.66%	0.41%	0.0639%
Lam Research Corp	LRCX	$	83,962.73	0.88%	17.50%	18.46%	0.23%	0.0429%
Lumen Technologies Inc	LUMN	$	13,549.58	8.16%	2.50%	10.76%	0.04%	0.0040%
Southwest Airlines Co	LUV	$	30,321.81	0.00%	34.50%	34.50%	0.08%	0.0290%
Las Vegas Sands Corp	LVS	$	33,035.36	0.00%	17.50%	17.50%	0.09%	0.0160%
Lamb Weston Holdings Inc	LW	$	9,651.72	1.44%	2.50%	3.96%	0.03%	0.0011%
LyondellBasell Industries NV	LYB	$	34,447.22	4.39%	6.50%	11.03%	0.10%	0.0105%
Live Nation Entertainment Inc	LYV	$	18,809.05	0.00%	N/A	N/A	N/A	N/A
Mastercard Inc	MA	$	354,790.80	0.49%	12.50%	13.02%	0.98%	0.1280%
Mid-America Apartment Communities Inc	MAA	$	21,456.56	2.19%	0.50%	2.70%	0.06%	0.0016%
Marriott International Inc/MD	MAR	$	44,574.64	0.00%	16.00%	16.00%	0.12%	0.0198%
Masco Corp	MAS	$	15,263.28	1.52%	9.00%	10.59%	0.04%	0.0045%
McDonald's Corp	MCD	$	178,358.00	2.24%	10.50%	12.86%	0.49%	0.0635%
Microchip Technology Inc	MCHP	$	41,503.36	1.16%	9.00%	10.21%	0.11%	0.0117%
McKesson Corp	MCK	$	31,046.50	0.94%	8.50%	9.48%	0.09%	0.0082%
Moody's Corp	MCO	$	70,077.78	0.66%	8.50%	9.19%	0.19%	0.0178%
Mondelez International Inc	MDLZ	$	87,804.30	2.23%	8.00%	10.32%	0.24%	0.0251%
Medtronic PLC	MDT	$	181,023.70	1.93%	9.00%	11.02%	0.50%	0.0552%
MetLife Inc	MET	$	53,790.23	3.07%	6.50%	9.67%	0.15%	0.0144%
MGM Resorts International	MGM	$	20,497.51	0.02%	N/A	N/A	N/A	N/A
Mohawk Industries Inc	MHK	$	14,134.38	0.00%	8.50%	8.50%	0.04%	0.0033%
McCormick & Co Inc/MD	MKC	$	22,867.62	1.61%	6.00%	7.66%	0.06%	0.0049%
MarketAxess Holdings Inc	MKTX	$	17,952.32	0.56%	14.00%	14.60%	0.05%	0.0073%
Martin Marietta Materials Inc	MLM	$	24,092.02	0.63%	6.00%	6.65%	0.07%	0.0044%
Marsh & McLennan Cos Inc	MMC	$	78,741.80	1.38%	11.00%	12.46%	0.22%	0.0272%
3M Co	MMM	$	112,452.50	3.05%	6.00%	9.14%	0.31%	0.0285%
Monster Beverage Corp	MNST	$	51,367.88	0.00%	11.50%	11.50%	0.14%	0.0164%
Altria Group Inc	MO	$	89,773.22	7.07%	6.00%	13.28%	0.25%	0.0330%
Mosaic Co/The	MOS	$	12,285.77	0.99%	33.50%	34.66%	0.03%	0.0118%
Marathon Petroleum Corp	MPC	$	37,405.94	3.96%	N/A	N/A	N/A	N/A
Monolithic Power Systems Inc	MPWR	$	22,190.31	0.50%	17.50%	18.04%	0.06%	0.0111%
Merck & Co Inc	MRK	$	195,199.20	3.37%	7.50%	11.00%	0.54%	0.0595%

Moderna Inc	MRNA	$	160,341.60	0.00%	N/A	N/A	N/A	N/A
Marathon Oil Corp	MRO	$	9,310.20	1.70%	69.00%	71.29%	0.03%	0.0184%
Morgan Stanley	MS	$	194,536.40	2.69%	10.50%	13.33%	0.54%	0.0718%
MSCI Inc	MSCI	$	51,763.65	0.67%	16.00%	16.72%	0.14%	0.0240%
Microsoft Corp	MSFT	$	2,270,813.00	0.74%	17.00%	17.80%	6.29%	1.1200%
Motorola Solutions Inc	MSI	$	40,857.17	1.18%	7.00%	8.22%	0.11%	0.0093%
M&T Bank Corp	MTB	$	18,224.51	3.11%	8.00%	11.23%	0.05%	0.0057%
Mettler-Toledo International Inc	MTD	$	36,076.86	0.00%	12.00%	12.00%	0.10%	0.0120%
Micron Technology Inc	MU	$	82,924.79	0.54%	11.50%	12.07%	0.23%	0.0277%
Norwegian Cruise Line Holdings Ltd	NCLH	$	9,633.13	0.00%	N/A	N/A	N/A	N/A
Nasdaq Inc	NDAQ	$	33,707.14	1.13%	6.50%	7.67%	0.09%	0.0072%
NextEra Energy Inc	NEE	$	165,847.90	1.92%	10.50%	12.52%	0.46%	0.0575%
Newmont Corp	NEM	$	45,698.73	3.87%	14.50%	18.65%	0.13%	0.0236%
Netflix Inc	NFLX	$	242,356.70	0.00%	23.50%	23.50%	0.67%	0.1578%
NiSource Inc	NI	$	9,819.97	3.52%	9.50%	13.19%	0.03%	0.0036%
NIKE Inc	NKE	$	268,177.30	0.65%	25.00%	25.73%	0.74%	0.1912%
NortonLifeLock Inc	NLOK	$	15,512.70	1.87%	11.00%	12.97%	0.04%	0.0056%
Nielsen Holdings PLC	NLSN	$	7,872.07	1.09%	N/A	N/A	N/A	N/A
Northrop Grumman Corp	NOC	$	58,164.86	1.73%	7.50%	9.29%	0.16%	0.0150%
NOV Inc	NOV	$	5,179.74	0.00%	N/A	N/A	N/A	N/A
ServiceNow Inc	NOW	$	123,055.70	0.00%	44.50%	44.50%	0.34%	0.1517%
NRG Energy Inc	NRG	$	11,161.74	2.85%	-6.50%	-3.74%	0.03%	-0.0012%
Norfolk Southern Corp	NSC	$	64,499.20	1.67%	10.00%	11.75%	0.18%	0.0210%
NetApp Inc	NTAP	$	18,346.21	2.43%	6.50%	9.01%	0.05%	0.0046%
Northern Trust Corp	NTRS	$	24,884.45	2.35%	7.00%	9.43%	0.07%	0.0065%
Nucor Corp	NUE	$	35,231.65	1.35%	8.00%	9.40%	0.10%	0.0092%
NVIDIA Corp	NVDA	$	554,436.50	0.07%	15.50%	15.58%	1.54%	0.2392%
NVR Inc	NVR	$	18,559.40	0.00%	7.50%	7.50%	0.05%	0.0039%
Newell Brands Inc	NWL	$	10,779.64	3.63%	N/A	N/A	N/A	N/A
News Corp	NWSA	$	13,339.90	0.89%	N/A	N/A	N/A	N/A
NXP Semiconductors NV	NXPI	$	61,084.65	1.03%	11.00%	12.09%	0.17%	0.0205%
Realty Income Corp	O	$	25,627.22	4.03%	6.50%	10.66%	0.07%	0.0076%
Old Dominion Freight Line Inc	ODFL	$	33,128.61	0.29%	9.50%	9.80%	0.09%	0.0090%
Organon & Co	OGN		N/A	0.00%	N/A	N/A	N/A	N/A
ONEOK Inc	OKE	$	23,833.43	7.22%	10.00%	17.58%	0.07%	0.0116%

Omnicom Group Inc	OMC	$	15,557.37	4.00%	6.00%	10.12%	0.04%	0.0044%
Oracle Corp	ORCL	$	249,376.70	1.44%	10.00%	11.51%	0.69%	0.0795%
O'Reilly Automotive Inc	ORLY	$	41,968.57	0.00%	13.50%	13.50%	0.12%	0.0157%
Otis Worldwide Corp	OTIS	$	38,894.29	1.05%	N/A	N/A	N/A	N/A
Occidental Petroleum Corp	OXY	$	22,997.89	0.65%	36.50%	37.27%	0.06%	0.0237%
Paycom Software Inc	PAYC	$	28,039.84	0.00%	19.50%	19.50%	0.08%	0.0151%
Paychex Inc	PAYX	$	41,157.07	2.38%	7.00%	9.46%	0.11%	0.0108%
People's United Financial Inc	PBCT	$	7,050.14	4.43%	2.50%	6.99%	0.02%	0.0014%
PACCAR Inc	PCAR	$	28,458.35	2.49%	6.00%	8.56%	0.08%	0.0068%
Healthpeak Properties Inc	PEAK	$	18,968.01	3.41%	-12.00%	-8.79%	0.05%	-0.0046%
Public Service Enterprise Group Inc	PEG	$	32,311.44	3.24%	3.50%	6.80%	0.09%	0.0061%
Penn National Gaming Inc	PENN	$	12,530.42	0.00%	30.00%	30.00%	0.03%	0.0104%
PepsiCo Inc	PEP	$	214,486.40	2.77%	6.50%	9.36%	0.59%	0.0556%
Pfizer Inc	PFE	$	266,008.50	3.28%	8.00%	11.41%	0.74%	0.0841%
Principal Financial Group Inc	PFG	$	18,224.75	3.72%	6.00%	9.83%	0.05%	0.0050%
Procter & Gamble Co/The	PG	$	346,646.20	2.44%	7.00%	9.53%	0.96%	0.0915%
Progressive Corp/The	PGR	$	56,307.95	0.42%	5.00%	5.43%	0.16%	0.0085%
Parker-Hannifin Corp	PH	$	39,169.79	1.36%	14.00%	15.46%	0.11%	0.0168%
PulteGroup Inc	PHM	$	14,100.83	1.07%	11.00%	12.13%	0.04%	0.0047%
Packaging Corp of America	PKG	$	14,239.25	2.67%	5.00%	7.74%	0.04%	0.0031%
PerkinElmer Inc	PKI	$	20,726.86	0.15%	11.00%	11.16%	0.06%	0.0064%
Prologis Inc	PLD	$	96,511.40	2.01%	8.50%	10.60%	0.27%	0.0283%
Philip Morris International Inc	PM	$	157,790.60	4.74%	7.00%	11.91%	0.44%	0.0520%
PNC Financial Services Group Inc/The	PNC	$	81,655.25	2.60%	10.00%	12.73%	0.23%	0.0288%
Pentair PLC	PNR	$	13,111.47	1.01%	12.00%	13.07%	0.04%	0.0047%
Pinnacle West Capital Corp	PNW	$	8,773.47	4.46%	5.50%	10.08%	0.02%	0.0025%
Pool Corp	POOL	$	19,464.82	0.66%	17.00%	17.72%	0.05%	0.0096%
PPG Industries Inc	PPG	$	38,781.77	1.44%	10.00%	11.51%	0.11%	0.0124%
PPL Corp	PPL	$	22,486.66	5.68%	-7.00%	-1.52%	0.06%	-0.0009%
Perrigo Co PLC	PRGO	$	5,457.56	2.40%	-2.00%	0.38%	0.02%	0.0001%
Prudential Financial Inc	PRU	$	41,314.88	4.31%	5.50%	9.93%	0.11%	0.0114%
Public Storage	PSA	$	55,234.25	2.56%	4.00%	6.61%	0.15%	0.0101%
Phillips 66	PSX	$	31,614.04	5.06%	20.50%	26.08%	0.09%	0.0228%
PTC Inc	PTC	$	15,448.12	0.00%	33.50%	33.50%	0.04%	0.0143%
PVH Corp	PVH	$	7,877.85	0.00%	13.50%	13.50%	0.02%	0.0029%

Quanta Services Inc	PWR	$	14,224.64	0.24%	12.50%	12.76%	0.04%	0.0050%
Pioneer Natural Resources Co	PXD	$	36,386.48	1.50%	20.00%	21.65%	0.10%	0.0218%
PayPal Holdings Inc	PYPL	$	326,285.80	0.00%	16.00%	16.00%	0.90%	0.1446%
QUALCOMM Inc	QCOM	$	162,285.40	1.89%	16.50%	18.55%	0.45%	0.0834%
Qorvo Inc	QRVO	$	20,642.80	0.00%	37.00%	37.00%	0.06%	0.0212%
Royal Caribbean Cruises Ltd	RCL	$	21,243.86	0.00%	N/A	N/A	N/A	N/A
Everest Re Group Ltd	RE	$	10,912.49	2.33%	11.00%	13.46%	0.03%	0.0041%
Regency Centers Corp	REG	$	11,385.53	3.55%	10.00%	13.73%	0.03%	0.0043%
Regeneron Pharmaceuticals Inc	REGN	$	70,177.58	0.00%	12.50%	12.50%	0.19%	0.0243%
Regions Financial Corp	RF	$	19,977.98	3.25%	9.50%	12.90%	0.06%	0.0071%
Robert Half International Inc	RHI	$	11,576.58	1.53%	7.50%	9.09%	0.03%	0.0029%
Raymond James Financial Inc	RJF	$	19,194.63	1.11%	10.50%	11.67%	0.05%	0.0062%
Ralph Lauren Corp	RL	$	8,833.47	2.29%	11.50%	13.92%	0.02%	0.0034%
ResMed Inc	RMD	$	41,553.84	0.59%	13.50%	14.13%	0.12%	0.0163%
Rockwell Automation Inc	ROK	$	37,055.22	1.36%	7.00%	8.41%	0.10%	0.0086%
Rollins Inc	ROL	$	18,807.26	0.84%	11.50%	12.39%	0.05%	0.0065%
Roper Technologies Inc	ROP	$	50,550.81	0.47%	8.00%	8.49%	0.14%	0.0119%
Ross Stores Inc	ROST	$	44,275.36	0.94%	14.00%	15.01%	0.12%	0.0184%
Republic Services Inc	RSG	$	39,177.61	1.50%	7.50%	9.06%	0.11%	0.0098%
Raytheon Technologies Corp	RTX	$	129,270.40	2.38%	2.00%	4.40%	0.36%	0.0158%
SBA Communications Corp	SBAC	$	38,290.90	0.72%	45.00%	45.88%	0.11%	0.0487%
Starbucks Corp	SBUX	$	136,257.00	1.73%	16.00%	17.87%	0.38%	0.0674%
Charles Schwab Corp/The	SCHW	$	140,792.10	1.01%	8.50%	9.55%	0.39%	0.0373%
Sealed Air Corp	SEE	$	9,168.71	1.31%	13.50%	14.90%	0.03%	0.0038%
Sherwin-Williams Co/The	SHW	$	79,709.41	0.76%	10.50%	11.30%	0.22%	0.0250%
SVB Financial Group	SIVB	$	31,191.16	0.00%	5.00%	5.00%	0.09%	0.0043%
J M Smucker Co/The	SJM	$	13,789.39	3.11%	4.00%	7.17%	0.04%	0.0027%
Schlumberger NV	SLB	$	39,785.42	1.76%	8.50%	10.33%	0.11%	0.0114%
Snap-on Inc	SNA	$	12,212.02	2.34%	5.00%	7.40%	0.03%	0.0025%
Synopsys Inc	SNPS	$	49,595.55	0.00%	13.00%	13.00%	0.14%	0.0179%
Southern Co/The	SO	$	69,756.33	4.04%	6.00%	10.16%	0.19%	0.0196%
Simon Property Group Inc	SPG	$	43,538.46	4.23%	1.50%	5.76%	0.12%	0.0069%
S&P Global Inc	SPGI	$	105,521.80	0.75%	10.50%	11.29%	0.29%	0.0330%
Sempra Energy	SRE	$	41,450.85	3.43%	10.00%	13.60%	0.11%	0.0156%
STERIS PLC	STE	$	21,548.13	0.80%	10.00%	10.84%	0.06%	0.0065%

State Street Corp	STT	$	31,602.28	2.48%	7.00%	9.57%	0.09%	0.0084%
Seagate Technology Holdings PLC	STX	$	19,757.22	3.08%	5.50%	8.66%	0.05%	0.0047%
Constellation Brands Inc	STZ	$	41,252.95	1.41%	7.00%	8.46%	0.11%	0.0097%
Stanley Black & Decker Inc	SWK	$	34,351.02	1.63%	9.00%	10.70%	0.10%	0.0102%
Skyworks Solutions Inc	SWKS	$	29,896.31	1.24%	13.50%	14.82%	0.08%	0.0123%
Synchrony Financial	SYF	$	29,485.05	1.71%	9.50%	11.29%	0.08%	0.0092%
Stryker Corp	SYK	$	102,377.80	0.93%	9.00%	9.97%	0.28%	0.0283%
Sysco Corp	SYY	$	40,473.98	2.38%	10.50%	13.00%	0.11%	0.0146%
AT&T Inc	T	$	195,846.30	7.58%	2.50%	10.17%	0.54%	0.0552%
Molson Coors Beverage Co	TAP	$	10,722.26	2.84%	41.00%	44.42%	0.03%	0.0132%
TransDigm Group Inc	TDG	$	33,266.35	0.00%	10.50%	10.50%	0.09%	0.0097%
Teledyne Technologies Inc	TDY	$	21,346.49	0.00%	14.50%	14.50%	0.06%	0.0086%
Bio-Techne Corp	TECH	$	19,436.32	0.26%	13.00%	13.28%	0.05%	0.0071%
TE Connectivity Ltd	TEL	$	49,553.30	1.33%	9.00%	10.39%	0.14%	0.0143%
Teradyne Inc	TER	$	19,532.32	0.34%	13.50%	13.86%	0.05%	0.0075%
Truist Financial Corp	TFC	$	76,829.36	3.34%	7.00%	10.46%	0.21%	0.0223%
Teleflex Inc	TFX	$	18,024.56	0.35%	14.50%	14.88%	0.05%	0.0074%
Target Corp	TGT	$	124,593.80	1.43%	14.00%	15.53%	0.35%	0.0536%
TJX Cos Inc/The	TJX	$	91,456.20	1.37%	19.50%	21.00%	0.25%	0.0532%
Thermo Fisher Scientific Inc	TMO	$	215,625.10	0.19%	14.50%	14.70%	0.60%	0.0878%
T-Mobile US Inc	TMUS	$	174,534.20	0.00%	8.50%	8.50%	0.48%	0.0411%
Tapestry Inc	TPR	$	12,033.01	2.32%	10.00%	12.44%	0.03%	0.0041%
Trimble Inc	TRMB	$	23,703.24	0.00%	14.00%	14.00%	0.07%	0.0092%
T Rowe Price Group Inc	TROW	$	49,769.19	1.97%	9.00%	11.06%	0.14%	0.0152%
Travelers Cos Inc/The	TRV	$	40,563.71	2.17%	8.00%	10.26%	0.11%	0.0115%
Tractor Supply Co	TSCO	$	22,258.64	1.10%	10.00%	11.16%	0.06%	0.0069%
Tesla Inc	TSLA	$	699,820.80	0.00%	N/A	N/A	N/A	N/A
Tyson Foods Inc	TSN	$	28,729.15	2.26%	6.00%	8.33%	0.08%	0.0066%
Trane Technologies PLC	TT	$	47,508.99	1.18%	N/A	N/A	N/A	N/A
Take-Two Interactive Software Inc	TTWO	$	18,704.84	0.00%	12.00%	12.00%	0.05%	0.0062%
Twitter Inc	TWTR	$	51,203.87	0.00%	39.00%	39.00%	0.14%	0.0553%
Texas Instruments Inc	TXN	$	173,623.40	2.17%	8.50%	10.76%	0.48%	0.0518%
Textron Inc	TXT	$	16,493.55	0.11%	8.00%	8.11%	0.05%	0.0037%
Tyler Technologies Inc	TYL	$	22,909.30	0.00%	12.50%	12.50%	0.06%	0.0079%
Under Armour Inc	UAA	$	11,298.13	0.00%	33.00%	33.00%	0.03%	0.0103%

United Airlines Holdings Inc	UAL	$	15,400.65	0.00%	N/A	N/A	N/A	N/A
UDR Inc	UDR	$	15,477.21	2.82%	6.00%	8.90%	0.04%	0.0038%
Universal Health Services Inc	UHS	$	12,899.44	0.52%	11.00%	11.55%	0.04%	0.0041%
Ulta Beauty Inc	ULTA	$	21,228.50	0.00%	12.50%	12.50%	0.06%	0.0074%
UnitedHealth Group Inc	UNH	$	395,814.80	1.38%	11.50%	12.96%	1.10%	0.1421%
Unum Group	UNM	$	5,478.62	4.48%	3.00%	7.55%	0.02%	0.0011%
Union Pacific Corp	UNP	$	144,492.40	1.93%	10.00%	12.03%	0.40%	0.0481%
United Parcel Service Inc	UPS	$	168,124.80	2.13%	11.00%	13.25%	0.47%	0.0617%
United Rentals Inc	URI	$	25,362.23	0.00%	10.50%	10.50%	0.07%	0.0074%
US Bancorp	USB	$	85,457.23	3.19%	4.50%	7.76%	0.24%	0.0184%
Visa Inc	V	$	452,154.90	0.59%	12.00%	12.63%	1.25%	0.1581%
VF Corp	VFC	$	30,255.45	2.54%	9.50%	12.16%	0.08%	0.0102%
ViacomCBS Inc	VIAC	$	26,466.62	2.34%	7.00%	9.42%	0.07%	0.0069%
Valero Energy Corp	VLO	$	27,121.45	5.91%	13.00%	19.29%	0.08%	0.0145%
Vulcan Materials Co	VMC	$	25,153.09	0.78%	10.00%	10.82%	0.07%	0.0075%
Vornado Realty Trust	VNO	$	7,988.09	5.08%	-19.00%	-14.40%	0.02%	-0.0032%
Verisk Analytics Inc	VRSK	$	32,032.20	0.59%	8.00%	8.61%	0.09%	0.0076%
VeriSign Inc	VRSN	$	23,739.73	0.00%	8.50%	8.50%	0.07%	0.0056%
Vertex Pharmaceuticals Inc	VRTX	$	52,167.42	0.00%	17.00%	17.00%	0.14%	0.0246%
Ventas Inc	VTR	$	20,652.19	3.27%	4.50%	7.84%	0.06%	0.0045%
Viatris Inc	VTRS		N/A	0.00%	N/A	N/A	N/A	N/A
Verizon Communications Inc	VZ	$	227,416.60	4.62%	2.50%	7.18%	0.63%	0.0452%
Westinghouse Air Brake Technologies Cor	WAB	$	16,563.96	0.55%	9.50%	10.08%	0.05%	0.0046%
Waters Corp	WAT	$	25,028.91	0.00%	11.00%	11.00%	0.07%	0.0076%
Walgreens Boots Alliance Inc	WBA	$	42,076.51	3.93%	7.50%	11.58%	0.12%	0.0135%
Western Digital Corp	WDC	$	20,043.00	0.00%	5.50%	5.50%	0.06%	0.0031%
WEC Energy Group Inc	WEC	$	29,859.08	2.96%	6.50%	9.56%	0.08%	0.0079%
Welltower Inc	WELL	$	35,433.17	2.97%	-1.50%	1.45%	0.10%	0.0014%
Wells Fargo & Co	WFC	$	202,483.20	1.62%	5.50%	7.16%	0.56%	0.0402%
Whirlpool Corp	WHR	$	14,103.81	2.50%	7.00%	9.59%	0.04%	0.0037%
Willis Towers Watson PLC	WLTW	$	27,909.13	1.48%	8.00%	9.54%	0.08%	0.0074%
Waste Management Inc	WM	$	64,313.15	1.51%	7.50%	9.07%	0.18%	0.0162%
Williams Cos Inc/The	WMB	$	29,852.26	6.67%	10.50%	17.52%	0.08%	0.0145%
Walmart Inc	WMT	$	417,832.80	1.48%	7.50%	9.04%	1.16%	0.1046%
W R Berkley Corp	WRB	$	13,517.17	0.68%	14.50%	15.23%	0.04%	0.0057%

Westrock Co	WRK	$	13,675.96	1.87%	8.00%	9.94%	0.04%	0.0038%
West Pharmaceutical Services Inc	WST	$	32,894.48	0.15%	16.50%	16.66%	0.09%	0.0152%
Western Union Co/The	WU	$	8,852.25	4.32%	7.00%	11.47%	0.02%	0.0028%
Weyerhaeuser Co	WY	$	26,437.31	1.93%	21.00%	23.13%	0.07%	0.0169%
Wynn Resorts Ltd	WYNN	$	11,665.57	0.00%	N/A	N/A	N/A	N/A
Xcel Energy Inc	XEL	$	36,771.68	2.77%	6.00%	8.85%	0.10%	0.0090%
Xilinx Inc	XLNX	$	37,685.55	0.00%	7.50%	7.50%	0.10%	0.0078%
Exxon Mobil Corp	XOM	$	234,817.60	6.31%	32.00%	39.32%	0.65%	0.2558%
DENTSPLY SIRONA Inc	XRAY	$	13,243.29	0.73%	11.50%	12.27%	0.04%	0.0045%
Xylem Inc/NY	XYL	$	24,331.51	0.83%	6.50%	7.36%	0.07%	0.0050%
Yum! Brands Inc	YUM	$	39,794.24	1.53%	10.50%	12.11%	0.11%	0.0134%
Zimmer Biomet Holdings Inc	ZBH	$	31,386.40	0.64%	8.50%	9.17%	0.09%	0.0080%
Zebra Technologies Corp	ZBRA	$	31,193.23	0.00%	12.50%	12.50%	0.09%	0.0108%
Zions Bancorp NA	ZION	$	9,205.95	2.68%	8.50%	11.29%	0.03%	0.0029%
Zoetis Inc	ZTS	$	96,942.95	0.49%	10.50%	11.02%	0.27%	0.0296%
		$	36,096,487.93					15.05%

Today: 8/31/2021

	NAME	TICKER	CUR_MKT_CAP	EQY_DVD_YLD_EST	BEST_EST_LONG_TERM_GROWTH	EQY_SH_OUT	PX_LAST		Mkt Cap	Div Yield	LT EPS Growth
AEE UN Equity	Ameren Corp	AEE	22404564937	2.486320109	7.595	255.41	87.72	$	22,404.56	2.49%	7.60%
AEP UN Equity	American Electric Power Co Inc	AEP	44807512434	3.333705482	5.88	500.2513	89.57	$	44,807.51	3.33%	5.88%
AES UN Equity	AES Corp/The	AES	15906006970	2.559698366	8.325	666.3597	23.87	$	15,906.01	2.56%	8.33%
ATO UN Equity	Atmos Energy Corp	ATO	12753412176	2.546405497	7.463	130.7908	97.51	$	12,753.41	2.55%	7.46%
AWK UN Equity	American Water Works Co Inc	AWK	33077594970	1.294375857	9.4	181.4957	182.25	$	33,077.59	1.29%	9.40%
CMS UN Equity	CMS Energy Corp	CMS	18575526283	2.710120069	5.87	289.6542	64.13	$	18,575.53	2.71%	5.87%
CNP UN Equity	CenterPoint Energy Inc	CNP	14564640952	2.510960542	3.573	580.4959	25.09	$	14,564.64	2.51%	3.57%
D UN Equity	Dominion Energy Inc	D	62932653300	3.233556012	6.987	808.4873	77.84	$	62,932.65	3.23%	6.99%
DTE UN Equity	DTE Energy Co	DTE	23316062008	3.409506399	3.733	193.7516	120.34	$	23,316.06	3.41%	3.73%
DUK UN Equity	Duke Energy Corp	DUK	80483540000	3.757882668	4.16	769	104.66	$	80,483.54	3.76%	4.16%
ED UN Equity	Consolidated Edison Inc	ED	26662657414	4.129887343	3.3	353.3818	75.45	$	26,662.66	4.13%	3.30%
EIX UN Equity	Edison International	EIX	21962125574	4.604080221	3.9	379.7048	57.84	$	21,962.13	4.60%	3.90%
ES UN Equity	Eversource Energy	ES	31178752526	2.656232779	7.77	343.6433	90.73	$	31,178.75	2.66%	7.77%
ETR UN Equity	Entergy Corp	ETR	22227583550	3.502395805	3.217	200.9546	110.61	$	22,227.58	3.50%	3.22%
EVRG UN Equity	Evergy Inc	EVRG	15537683856	3.138056976	8.6	226.9932	68.45	$	15,537.68	3.14%	8.60%
EXC UW Equity	Exelon Corp	EXC	47880777112	3.168094655	0.927	976.76	49.02	$	47,880.78	3.17%	0.93%
FE UN Equity	FirstEnergy Corp	FE	21152806670	4.013377926	0.38	544.1936	38.87	$	21,152.81	4.01%	0.38%
LNT UW Equity	Alliant Energy Corp	LNT	15213175066	2.663266985	6.35	250.2579	60.79	$	15,213.18	2.66%	6.35%
NEE UN Equity	NextEra Energy Inc	NEE	1.64768E+11	1.825217288	9.075	1961.757	83.99	$	164,767.97	1.83%	9.08%
NI UN Equity	NiSource Inc	NI	9672915892	3.598377282	5.81	392.4104	24.65	$	9,672.92	3.60%	5.81%
NRG UN Equity	NRG Energy Inc	NRG	11178960155	2.846507554	30.51	244.7769	45.67	$	11,178.96	2.85%	30.51%
PEG UN Equity	Public Service Enterprise Group Inc	PEG	32326597984	3.192055052	4.665	505.5771	63.94	$	32,326.60	3.19%	4.67%
PNW UN Equity	Pinnacle West Capital Corp	PNW	8673211717	4.361508453	1.61	112.7856	76.9	$	8,673.21	4.36%	1.61%
PPL UN Equity	PPL Corp	PPL	22587930964	5.512776831	-4.45	769.6058	29.35	$	22,587.93	5.51%	-4.45%
SO UN Equity	Southern Co/The	SO	69651536723	3.989046098	4.6	1059.661	65.73	$	69,651.54	3.99%	4.60%
SRE UN Equity	Sempra Energy	SRE	41702784192	3.340132971	5.653	315.0709	132.36	$	41,702.78	3.34%	5.65%
WEC UN Equity	WEC Energy Group Inc	WEC	29802254489	2.866215072	6.777	315.4345	94.48	$	29,802.25	2.87%	6.78%
XEL UW Equity	Xcel Energy Inc	XEL	37017519756	2.656	6.587	538.4367	68.75	$	37,017.52	2.66%	6.59%
								$	958,018.76		

DCF	% Total Mkt Cap	Wgtd DCF
10.18%	2.34%	0.2380%
9.31%	4.68%	0.4355%
10.99%	1.66%	0.1825%
10.10%	1.33%	0.1345%
10.76%	3.45%	0.3713%
8.66%	1.94%	0.1679%
6.13%	1.52%	0.0932%
10.33%	6.57%	0.6788%
7.21%	2.43%	0.1754%
8.00%	8.40%	0.6718%
7.50%	2.78%	0.2087%
8.59%	2.29%	0.1970%
10.53%	3.25%	0.3427%
6.78%	2.32%	0.1572%
11.87%	1.62%	0.1926%
4.11%	5.00%	0.2054%
4.40%	2.21%	0.0972%
9.10%	1.59%	0.1445%
10.98%	17.20%	1.8890%
9.51%	1.01%	0.0960%
33.79%	1.17%	0.3943%
7.93%	3.37%	0.2676%
6.01%	0.91%	0.0544%
0.94%	2.36%	0.0222%
8.68%	7.27%	0.6311%
9.09%	4.35%	0.3956%
9.74%	3.11%	0.3030%
9.33%	3.86%	0.3605%
		9.11%

S&P 500 8/31/2021

Company Name	Ticker	Market Capitalization	Dividend Yield	Projected EPS Growth	DCF Result	Weight in Index	Weighted DCF
Ameren Corp	AEE	$ 22,455.11	2.60%	6.50%	9.18%	2.34%	0.2145%
American Electric Power Co Inc	AEP	$ 44,684.48	3.45%	6.50%	10.06%	4.65%	0.4677%
AES Corp/The	AES	$ 16,165.17	2.47%	17.50%	20.19%	1.68%	0.3394%
Atmos Energy Corp	ATO	$ 12,750.42	2.77%	7.00%	9.87%	1.33%	0.1309%
American Water Works Co Inc	AWK	$ 32,828.82	1.36%	8.00%	9.41%	3.41%	0.3215%
CMS Energy Corp	CMS	$ 18,436.51	2.73%	7.50%	10.33%	1.92%	0.1981%
CenterPoint Energy Inc	CNP	$ 15,248.15	2.53%	8.00%	10.63%	1.59%	0.1686%
Dominion Energy Inc	D	$ 63,514.74	3.30%	12.00%	15.50%	6.61%	1.0239%
DTE Energy Co	DTE	$ 23,401.37	2.73%	6.00%	8.81%	2.43%	0.2145%
Duke Energy Corp	DUK	$ 81,037.23	3.76%	7.00%	10.89%	8.43%	0.9181%
Consolidated Edison Inc	ED	$ 26,570.31	4.19%	4.00%	8.27%	2.76%	0.2287%
Edison International	EIX	$ 22,166.59	4.63%	23.50%	28.67%	2.31%	0.6612%
Eversource Energy	ES	$ 31,044.35	2.76%	6.50%	9.35%	3.23%	0.3019%
Entergy Corp	ETR	$ 22,866.44	3.45%	3.00%	6.50%	2.38%	0.1546%
Evergy Inc	EVRG	$ 15,789.32	3.24%	8.00%	11.37%	1.64%	0.1867%
Exelon Corp	EXC	$ 47,806.25	3.13%	5.50%	8.72%	4.97%	0.4334%
FirstEnergy Corp	FE	$ 21,223.57	4.08%	11.50%	15.81%	2.21%	0.3491%
Alliant Energy Corp	LNT	$ 15,133.10	2.66%	5.50%	8.23%	1.57%	0.1296%
NextEra Energy Inc	NEE	$ 165,847.90	1.92%	10.50%	12.52%	17.25%	2.1600%
NiSource Inc	NI	$ 9,819.97	3.52%	9.50%	13.19%	1.02%	0.1347%
NRG Energy Inc	NRG	$ 11,161.74	2.85%	-6.50%	-3.74%	1.16%	-0.0435%
Public Service Enterprise Group Inc	PEG	$ 32,311.44	3.24%	3.50%	6.80%	3.36%	0.2284%
Pinnacle West Capital Corp	PNW	$ 8,773.47	4.46%	5.50%	10.08%	0.91%	0.0920%
PPL Corp	PPL	$ 22,486.66	5.68%	-7.00%	-1.52%	2.34%	-0.0355%
Southern Co/The	SO	$ 69,756.33	4.04%	6.00%	10.16%	7.26%	0.7373%
Sempra Energy	SRE	$ 41,450.85	3.43%	10.00%	13.60%	4.31%	0.5865%
WEC Energy Group Inc	WEC	$ 29,859.08	2.96%	6.50%	9.56%	3.11%	0.2968%
Xcel Energy Inc	XEL	$ 36,771.68	2.77%	6.00%	8.85%	3.82%	0.3386%
		$ 961,361.05					10.94%

Input Date: (ROE model)
User: (CPU title)

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPSPA	Mkt Annlized Return	RF Annualized Yield	AAAAA Annualized Yield	MRP RP	AAAAA RP	S&P U Annulized Yield	A Annualized Yield	SPA RP
Jan-26	0.0000%		0.3100%															
Feb-26	-3.8500%		0.2800%					-4.1300%										
Mar-26	-5.7500%		0.3200%					-6.0700%										
Apr-26	2.5300%		0.3000%					2.2300%										
May-26	1.7900%		0.2800%					1.5100%										
Jun-26	4.5700%		0.3300%					4.2400%										
Jul-26	4.7900%		0.3100%					4.4800%										
Aug-26	2.4800%		0.3100%					2.1700%										
Sep-26	2.5200%		0.3000%					2.2200%										
Oct-26	-2.8400%		0.3000%					-3.1400%										
Nov-26	3.4700%		0.3100%					3.1600%										
Dec-26	1.9600%		0.3000%					1.6600%			11.61%	3.60%			8.01%			
Jan-27	-1.9300%		0.3000%					-2.2300%			9.45%	3.60%			5.85%			
Feb-27	5.3700%		0.2700%					5.1000%			19.95%	3.24%			16.71%			
Mar-27	0.8700%		0.2900%					0.5800%			28.37%	3.48%			24.89%			
Apr-27	2.0100%		0.2700%					1.7400%			27.72%	3.24%			24.48%			
May-27	6.0700%		0.2800%					5.7900%			33.09%	3.36%			29.73%			
Jun-27	-0.6700%		0.2700%					-0.9400%			26.42%	3.24%			23.18%			
Jul-27	6.7000%		0.2700%					6.4300%			28.73%	3.24%			25.49%			
Aug-27	5.1500%		0.2900%					4.8600%			32.08%	3.48%			28.60%			
Sep-27	4.5000%		0.2700%					4.2300%			34.63%	3.24%			31.39%			
Oct-27	-5.0200%		0.2800%					-5.3000%			31.61%	3.36%			28.25%			
Nov-27	7.2100%		0.2700%					6.9400%			36.37%	3.24%			33.13%			
Dec-27	2.7900%		0.2700%					2.5200%			37.48%	3.24%			34.24%			
Jan-28	-0.4000%	3.7500%	0.2700%	0.3717%	0.3842%	0.3779%	0.4042%	-0.6700%	-0.7779%	3.3458%	39.62%	3.24%			36.38%			
Feb-28	-1.2500%	-0.8000%	0.2500%	0.3717%	0.3842%	0.3779%	0.4042%	-1.5000%	-1.6279%	-1.2042%	30.85%	3.00%			27.85%			
Mar-28	11.0100%	7.2300%	0.2700%	0.3717%	0.3825%	0.3771%	0.4017%	10.7400%	10.6329%	6.8283%	44.01%	3.24%			40.77%			
Apr-28	3.4500%	9.8600%	0.2600%	0.3717%	0.3833%	0.3775%	0.4017%	3.1900%	3.0725%	9.4583%	46.04%	3.12%			42.92%			
May-28	1.9700%	2.0800%	0.2700%	0.3742%	0.3867%	0.3804%	0.4058%	1.7000%	1.5896%	1.6742%	40.39%	3.24%			37.15%			
Jun-28	-3.8500%	-4.0100%	0.2700%	0.3808%	0.3958%	0.3883%	0.4158%	-4.1200%	-4.2383%	-4.4258%	35.90%	3.24%			32.66%			
Jul-28	1.4100%	-0.7600%	0.2700%	0.3842%	0.3992%	0.3917%	0.4200%	1.1400%	1.0183%	-1.1800%	29.16%	3.24%			25.92%			
Aug-28	8.0300%	6.8200%	0.2900%	0.3867%	0.4017%	0.3942%	0.4233%	7.7400%	7.6358%	6.3967%	32.70%	3.48%			29.22%			
Sep-28	2.5900%	2.8700%	0.2700%	0.3842%	0.3992%	0.3917%	0.4208%	2.3200%	2.1983%	2.4492%	30.27%	3.24%			27.03%			
Oct-28	1.6800%	-0.9200%	0.3000%	0.3842%	0.3983%	0.3913%	0.4158%	1.3800%	1.2888%	-1.3358%	39.46%	3.60%			35.86%			
Nov-28	12.9200%	21.4700%	0.2700%	0.3817%	0.3933%	0.3875%	0.4150%	12.6500%	12.5325%	21.0550%	46.89%	3.24%			43.65%			
Dec-28	0.4900%	1.0000%	0.2900%	0.3842%	0.3975%	0.3908%	0.4208%	0.2000%	0.0992%	0.5792%	43.61%	3.48%	4.69%		38.92%	57.48%	5.05%	52.43%
Jan-29	5.8300%	13.2500%	0.2900%	0.3850%	0.3992%	0.3921%	0.4208%	5.5400%	5.4379%	12.8292%	52.59%	3.48%	4.71%		49.11%	47.88%	71.90%	5.05%	66.85%
Feb-29	-0.1900%	-2.3200%	0.2700%	0.3883%	0.4050%	0.3967%	0.4250%	-0.4600%	-0.5867%	-2.7450%	54.23%	3.24%	4.76%		50.99%	49.47%	69.27%	5.10%	64.17%
Mar-29	-0.1200%	-1.1000%	0.2800%	0.3917%	0.4100%	0.4008%	0.4283%	-0.4000%	-0.5208%	-1.5283%	38.76%	3.36%	4.81%		35.40%	33.95%	56.12%	5.14%	50.98%
Apr-29	1.7600%	3.4700%	0.3400%	0.3908%	0.4092%	0.4000%	0.4283%	1.4200%	1.3600%	3.0417%	36.50%	4.08%	4.80%		32.42%	31.70%	47.04%	5.14%	41.90%
May-29	-3.6200%	4.7000%	0.3000%	0.3917%	0.4092%	0.4004%	0.4283%	-3.9200%	-4.0204%	4.2717%	29.01%	3.60%	4.81%		25.41%	24.21%	50.81%	5.14%	45.67%
Jun-29	11.4000%	21.7800%	0.2900%	0.3975%	0.4150%	0.4063%	0.4358%	11.1100%	10.9938%	21.3442%	49.48%	3.48%	4.88%		46.00%	44.60%	91.33%	5.23%	86.10%
Jul-29	4.7100%	9.0500%	0.3200%	0.3975%	0.4142%	0.4058%	0.4367%	4.3900%	4.3042%	8.6133%	54.34%	3.84%	4.87%		50.50%	49.47%	110.24%	5.24%	105.00%
Aug-29	10.2800%	10.3300%	0.3000%	0.3992%	0.4158%	0.4075%	0.4417%	9.9800%	9.8725%	9.8883%	57.55%	3.60%	4.89%		53.95%	52.66%	117.15%	5.30%	111.85%
Sep-29	-4.7600%	0.0400%	0.3200%	0.4000%	0.4175%	0.4088%	0.4483%	-5.0800%	-5.1688%	-0.4083%	46.27%	3.84%	4.91%		42.43%	41.36%	111.18%	5.38%	105.80%
Oct-29	-19.7300%	-30.2200%	0.3100%	0.3975%	0.4175%	0.4075%	0.4450%	-20.0400%	-20.1375%	-30.6650%	15.47%	3.72%	4.89%		11.75%	10.58%	48.73%	5.34%	43.39%
Nov-29	-12.4600%	-14.2400%	0.2600%	0.3967%	0.4117%	0.4042%	0.4408%	-12.7200%	-12.8642%	-14.6808%	-10.48%	3.12%	4.85%		-13.60%	-15.33%	5.00%	5.29%	-0.29%
Dec-29	2.8200%	6.8000%	0.3100%	0.3892%	0.4033%	0.3963%	0.4358%	2.5100%	2.4238%	6.3642%	-8.41%	3.72%	4.76%		-12.13%	-13.16%	11.03%	5.23%	5.80%
Jan-30	6.3900%	7.4000%	0.2900%	0.3883%	0.4050%	0.3967%	0.4383%	6.1000%	5.9933%	6.9617%	-7.92%	3.48%	4.76%		-11.40%	-12.68%	5.30%	5.26%	0.04%
Feb-30	2.5900%	8.8500%	0.2600%	0.3908%	0.4075%	0.3992%	0.4408%	2.3300%	2.1908%	8.4092%	-5.36%	3.12%	4.79%		-8.48%	-10.15%	17.34%	5.29%	12.05%
Mar-30	8.1200%	8.9100%	0.2900%	0.3850%	0.4000%	0.3925%	0.4317%	7.8300%	7.7275%	8.4783%	2.45%	3.48%	4.71%		-1.03%	-2.26%	29.22%	5.18%	24.04%
Apr-30	-0.8000%	3.4100%	0.2700%	0.3833%	0.3983%	0.3908%	0.4292%	-1.0700%	-1.1908%	2.9808%	-0.13%	3.24%	4.69%		-3.37%	-4.82%	29.14%	5.15%	23.99%
May-30	-0.9600%	-2.3600%	0.2700%	0.3833%	0.3975%	0.3904%	0.4200%	-1.2300%	-1.3504%	-2.7800%	2.63%	3.24%	4.69%		-0.61%	-2.06%	20.43%	5.04%	15.39%
Jun-30	-16.2500%	-19.0300%	0.2900%	0.3808%	0.3967%	0.3888%	0.4175%	-16.5400%	-16.6388%	-19.4475%	-22.85%	3.48%	4.67%		-26.33%	-27.51%	-19.93%	5.01%	-24.94%
Jul-30	3.8600%	1.7600%	0.2800%	0.3767%	0.3950%	0.3858%	0.4158%	3.5800%	3.4742%	1.3442%	-23.47%	3.36%	4.63%		-26.83%	-28.10%	-25.28%	4.99%	-30.27%
Aug-30	1.4100%	0.7600%	0.2600%	0.3725%	0.3900%	0.3813%	0.4125%	1.1500%	1.0288%	0.3475%	-29.63%	3.12%	4.58%		-32.75%	-34.20%	-31.76%	4.95%	-36.71%
Sep-30	-12.8200%	-11.0800%	0.2900%	0.3683%	0.3875%	0.3779%	0.4050%	-13.1100%	-13.1979%	-11.4850%	-35.58%	3.48%	4.54%		-39.06%	-40.12%	-39.34%	4.86%	-44.20%
Oct-30	-8.5500%	-8.1800%	0.2700%	0.3683%	0.3892%	0.3788%	0.4067%	-8.8200%	-8.9288%	-8.5867%	-26.61%	3.24%	4.55%		-29.85%	-31.16%	-20.19%	4.88%	-25.07%
Nov-30	-0.8900%	-7.3000%	0.2600%	0.3725%	0.3958%	0.3842%	0.4133%	-1.1500%	-1.2729%	-7.7133%	-16.91%	3.12%	4.61%		-21.52%	-20.03%	-13.73%	4.96%	-18.69%
Dec-30	-7.0600%	-3.3900%	0.2800%	0.3767%	0.4042%	0.3904%	0.4258%	-7.3400%	-7.4504%	-3.8158%	-24.90%	3.36%	4.69%		-28.26%	-29.58%	-21.96%	5.11%	-27.07%
Jan-31	5.0200%	5.4000%	0.2800%	0.3683%	0.3917%	0.3800%	0.4175%	4.7400%	4.6400%	4.9825%	-25.86%	3.36%	4.56%		-29.22%	-30.42%	-23.41%	5.01%	-28.42%
Feb-31	11.9300%	15.2400%	0.2600%	0.3692%	0.3917%	0.3804%	0.4175%	11.6700%	11.5496%	14.8225%	-19.11%	3.12%	4.57%		-22.23%	-23.68%	-18.92%	5.01%	-23.93%
Mar-31	-6.7500%	-2.3900%	0.2900%	0.3658%	0.3892%	0.3775%	0.4150%	-7.0400%	-7.1275%	-2.8050%	-30.24%	3.48%	4.53%		-33.72%	-34.77%	-27.33%	4.98%	-32.31%
Apr-31	-9.3500%	-10.5400%	0.2700%	0.3667%	0.3967%	0.3817%	0.4050%	-9.6200%	-9.7317%	-10.9450%	-36.25%	3.24%	4.58%		-39.49%	-40.83%	-37.13%	4.86%	-41.99%
May-31	-12.7900%	-10.2900%	0.2600%	0.3642%	0.3967%	0.3804%	0.4033%	-13.0500%	-13.1704%	-10.6933%	-43.86%	3.12%	4.57%		-46.98%	-48.43%	-42.24%	4.84%	-47.08%
Jun-31	14.2100%	13.7300%	0.2800%	0.3633%	0.4008%	0.3821%	0.4058%	13.9300%	13.8279%	13.3242%	-23.45%	3.36%	4.59%		-26.81%	-28.03%	-18.87%	4.87%	-23.74%
Jul-31	-7.2200%	-6.2200%	0.2700%	0.3633%	0.4008%	0.3821%	0.4025%	-7.4900%	-7.6021%	-6.6225%	-31.61%	3.24%	4.59%		-34.85%	-36.20%	-25.23%	4.83%	-30.06%
Aug-31	1.8200%	2.5600%	0.2700%	0.3667%	0.4042%	0.3854%	0.4008%	1.5500%	1.4346%	2.1592%	-31.34%	3.24%	4.63%		-34.58%	-35.96%	-23.90%	4.81%	-28.71%
Sep-31	-29.7300%	-31.4900%	0.2700%	0.3792%	0.4233%	0.4013%	0.4208%	-30.0000%	-30.1313%	-31.9108%	-44.66%	3.24%	4.82%		-47.90%	-49.47%	-41.36%	5.05%	-46.41%
Oct-31	8.9600%	9.9000%	0.2900%	0.4158%	0.4642%	0.4400%	0.4617%	8.6700%	8.5200%	9.4383%	-34.06%	3.48%	5.28%		-37.54%	-39.34%	-29.82%	5.54%	-35.36%
Nov-31	-7.9800%	-6.1400%	0.3100%	0.4117%	0.4675%	0.4396%	0.4592%	-8.2900%	-8.4196%	-6.5992%	-38.78%	3.72%	5.28%		-42.50%	-44.05%	-28.94%	5.51%	-34.45%
Dec-31	-14.0000%	-12.8300%	0.3200%	0.4433%	0.5217%	0.4825%	0.5200%	-14.3200%	-14.4825%	-13.3500%	-43.35%	3.84%	5.79%		-47.19%	-49.14%	-35.88%	6.24%	-42.12%
Jan-32	-2.7100%	-2.0000%	0.3200%	0.4333%	0.5067%	0.4700%	0.5142%	-3.0300%	-3.1800%	-2.5142%	-47.52%	3.84%	5.64%		-51.36%	-53.16%	-40.38%	6.17%	-46.55%
Feb-32	5.7000%	7.9900%	0.3200%	0.4358%	0.5108%	0.4733%	0.5342%	5.3800%	5.2267%	7.4558%	-50.44%	3.84%	5.68%		-54.28%	-56.12%	-44.14%	6.41%	-50.55%
Mar-32	-11.5800%	-10.5800%	0.3100%	0.4150%	0.4875%	0.4513%	0.5050%	-11.8900%	-12.0313%	-11.0850%	-53.01%	3.72%	5.42%		-56.73%	-58.42%	-48.82%	6.06%	-54.88%
Apr-32	-19.9700%	-15.3500%	0.3000%	0.4308%	0.5092%	0.4700%	0.5692%	-20.2700%	-20.4400%	-15.9192%	-58.51%	3.60%	5.64%		-62.11%	-64.15%	-51.57%	6.83%	-58.40%
May-32	-21.9600%	-28.0600%	0.2800%	0.4467%	0.5317%	0.4892%	0.6133%	-22.2400%	-22.4492%	-28.6733%	-62.87%	3.36%	5.87%		-66.23%	-68.74%	-61.17%	7.36%	-68.53%
Jun-32	-0.2200%	0.9000%	0.2800%	0.4508%	0.5500%	0.5004%	0.6308%	-0.5000%	-0.7204%	0.2692%	-67.57%	3.36%	6.01%		-70.93%	-73.57%	-65.55%	7.57%	-73.12%
Jul-32	38.1500%	33.1800%	0.2800%	0.4383%	0.5425%	0.4904%	0.6067%	37.8700%	37.6596%	32.5733%	-51.70%	3.36%	5.89%		-55.06%	-57.59%	-51.07%	7.28%	-58.35%
Aug-32	38.6900%	40.3000%	0.2800%	0.4092%	0.4858%	0.4475%	0.5292%	38.4100%	38.2425%	39.7708%	-34.22%	3.36%	5.37%		-37.58%	-39.59%	-33.07%	6.35%	-39.42%
Sep-32	-3.4600%	-2.7000%	0.2600%	0.3917%	0.4617%	0.4267%	0.4925%	-3.7200%	-3.8867%	-3.1925%	-9.62%	3.12%	5.12%		-12.74%	-14.74%	-4.94%	5.91%	-10.85%
Oct-32	-13.4900%	-10.4700%	0.2700%	0.3867%	0.4592%	0.4229%	0.4842%	-13.7600%	-13.9129%	-10.9542%	-28.24%	3.24%	5.08%		-31.48%	-33.32%	-22.56%	5.81%	-28.37%
Nov-32	-4.1700%	-3.5400%	0.2600%	0.3858%	0.4642%	0.4250%	0.4900%	-4.4300%	-4.5950%	-4.0300%	-25.27%	3.12%	5.10%		-28.39%	-30.37%	-20.42%	5.88%	-26.30%
Dec-32	5.6500%	8.9300%	0.2700%	0.3825%	0.4667%	0.4246%	0.4875%	5.3800%	5.2254%	8.4425%	-8.20%	3.24%	5.10%		-11.44%	-13.29%	-0.55%	5.85%	-6.40%
Jan-33	0.8700%	-3.1100%	0.2700%	0.3700%	0.4417%	0.4058%	0.4492%	0.6000%	0.4642%	-3.5592%	-4.82%	3.24%	4.87%		-8.06%	-9.69%	-1.68%	5.39%	-7.07%
Feb-33	-17.7200%	-19.8400%	0.2300%	0.3733%	0.4458%	0.4096%	0.4808%	-17.9500%	-18.1296%	-20.3208%	-25.91%	2.76%	4.92%		-28.67%	-30.82%	-27.02%	5.77%	-32.79%
Mar-33	3.5300%	-10.8000%	0.2700%	0.3900%	0.4675%	0.4288%	0.5283%	3.2600%	3.1013%	-11.3283%	-13.25%	3.24%	5.15%		-16.49%	-18.39%	-27.19%	6.34%	-33.53%
Apr-33	42.5600%	26.3500%	0.2500%	0.3983%	0.4842%	0.4413%	0.5742%	42.3100%	42.1188%	25.7758%	54.53%	3.00%	5.30%		51.53%	49.24%	8.67%	6.89%	1.78%
May-33	16.8300%	17.3200%	0.2800%	0.3858%	0.4500%	0.4179%	0.5417%	16.5500%	16.4121%	16.7783%	131.34%	3.36%	5.02%		127.98%	126.33%	77.22%	6.50%	70.72%
Jun-33	13.3800%	14.2600%	0.2500%	0.3717%	0.4242%	0.3979%	0.5092%	13.1300%	12.9821%	13.7508%	162.88%	3.00%	4.78%		159.88%	158.10%	100.69%	6.11%	94.58%
Jul-33	-8.6200%	-12.0400%	0.2600%	0.3633%	0.4025%	0.3829%	0.4925%	-8.8800%	-9.0029%	-12.5325%	73.88%	3.12%	4.60%		70.76%	69.29%	32.54%	5.91%	26.63%
Aug-33	12.0600%	-0.5600%	0.2600%	0.3583%	0.3975%	0.3779%	0.4983%	11.8000%	11.6821%	-1.0583%	40.49%	3.12%	4.54%		37.37%	35.96%	-6.06%	5.98%	-12.04%
Sep-33	-11.1800%	-17.5900%	0.2500%	0.3633%	0.4133%	0.3883%	0.5300%	-11.4300%	-11.5683%	-18.1200%	29.26%	3.00%	4.66%		26.26%	24.60%	-20.43%	6.36%	-26.79%
Oct-33	-8.5500%	-7.1200%	0.2600%	0.3617%	0.4142%	0.3879%	0.5300%	-8.8100%	-8.9379%	-7.6500%	36.64%	3.12%	4.66%		33.52%	31.99%	-17.46%	6.36%	-23.82%
Nov-33	11.2700%	-1.8000%	0.2500%	0.3783%	0.4458%	0.4121%	0.5883%	11.0200%	10.8579%	-2.3883%	58.66%	3.00%	4.95%		55.66%	53.71%	-15.97%	7.06%	-23.03%
Dec-33	2.5300%	1.2600%	0.2800%	0.3750%	0.4392%	0.4071%	0.6017%	2.2500%	2.1229%	0.6583%	53.97%	3.36%	4.89%		50.61%	49.09%	-21.88%	7.22%	-29.10%
Jan-34	10.6900%	17.4600%	0.2900%	0.3625%	0.4167%	0.3896%	0.5467%	10.4000%	10.3004%	16.9133%	68.96%	3.48%	4.68%		65.48%	64.28%	-5.30%	6.56%	-11.86%
Feb-34	-3.2200%	-2.4200%	0.2400%	0.3500%	0.3917%	0.3708%	0.4817%	-3.4600%	-3.5908%	-2.9017%	98.73%	2.88%	4.45%		95.85%	94.28%	15.28%	5.78%	9.50%
Mar-34	0.0000%	-1.1100%	0.2700%	0.3442%	0.3792%	0.3617%	0.4717%	-0.2700%	-0.3617%	-1.5817%	91.96%	3.24%	4.34%		88.72%	87.62%	27.80%	5.66%	22.14%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPSPA	Mkt Annlized Return	RF Annualized Yield	AAAAA Annualized Yield	MRP RP	AAAAA RP	S&P U Annulized Yield	A Annualized Yield	SPA RP
Apr-34	-2.5100%	-3.5100%	0.2500%	0.3392%	0.3692%	0.3542%	0.4533%	-2.7600%	-2.8642%	-3.9633%	31.27%	3.00%	4.25%	28.27%	27.02%	-2.40%	5.44%	-7.84%
May-34	-7.3600%	-7.6500%	0.2500%	0.3342%	0.3642%	0.3492%	0.4492%	-7.6100%	-7.7092%	-8.0992%	4.09%	3.00%	4.19%	1.09%	-0.10%	-23.17%	5.39%	-28.56%
Jun-34	2.2900%	4.7800%	0.2400%	0.3275%	0.3583%	0.3429%	0.4500%	2.0500%	1.9471%	4.3300%	-6.09%	2.88%	4.12%	-8.97%	-10.21%	-29.55%	5.40%	-34.95%
Jul-34	-11.3200%	-16.0300%	0.2400%	0.3242%	0.3567%	0.3404%	0.4408%	-11.5600%	-11.6604%	-16.4708%	-8.86%	2.88%	4.09%	-11.74%	-12.95%	-32.74%	5.29%	-38.03%
Aug-34	6.1100%	2.6900%	0.2400%	0.3275%	0.3617%	0.3446%	0.4525%	5.8700%	5.7654%	2.2375%	-13.70%	2.88%	4.14%	-16.58%	-17.84%	-30.54%	5.43%	-35.97%
Sep-34	-0.3300%	0.9500%	0.2300%	0.3300%	0.3683%	0.3492%	0.4633%	-0.5600%	-0.6792%	0.4867%	-3.16%	2.76%	4.19%	-5.92%	-7.35%	-14.92%	5.56%	-20.48%
Oct-34	-2.8600%	-6.6600%	0.2700%	0.3250%	0.3633%	0.3442%	0.4500%	-3.1300%	-3.2042%	-7.1100%	2.86%	3.24%	4.13%	-0.38%	-1.27%	-14.50%	5.40%	-19.90%
Nov-34	9.4200%	-0.4800%	0.2500%	0.3217%	0.3567%	0.3392%	0.4483%	9.1700%	9.0808%	-0.9283%	1.15%	3.00%	4.07%	-1.85%	-2.92%	-13.35%	5.38%	-18.73%
Dec-34	-0.1000%	-7.0100%	0.2500%	0.3175%	0.3558%	0.3367%	0.4467%	-0.3500%	-0.4367%	-7.4567%	-1.44%	3.00%	4.04%	-4.44%	-5.48%	-20.43%	5.36%	-25.79%
Jan-35	-4.1100%	-2.3100%	0.2500%	0.3142%	0.3508%	0.3325%	0.4317%	-4.3600%	-4.4425%	-2.7417%	-14.62%	3.00%	3.99%	-17.62%	-18.61%	-33.82%	5.18%	-39.00%
Feb-35	-3.4100%	-11.3600%	0.2100%	0.3075%	0.3442%	0.3258%	0.4133%	-3.6200%	-3.7358%	-11.7733%	-14.79%	2.52%	3.91%	-17.31%	-18.70%	-39.88%	4.96%	-44.84%
Mar-35	-2.8600%	10.4300%	0.2200%	0.3058%	0.3425%	0.3242%	0.4067%	-3.0800%	-3.1842%	10.0233%	-17.22%	2.64%	3.89%	-19.86%	-21.11%	-32.87%	4.88%	-37.75%
Apr-35	9.8000%	11.7800%	0.2300%	0.3050%	0.3400%	0.3225%	0.3992%	9.5700%	9.4775%	11.3808%	-6.77%	2.76%	3.87%	-9.53%	-10.64%	-22.23%	4.79%	-27.02%
May-35	4.0900%	11.0600%	0.2300%	0.3042%	0.3358%	0.3200%	0.3842%	3.8600%	3.7700%	10.6758%	4.75%	2.76%	3.84%	1.99%	0.91%	-6.47%	4.61%	-11.08%
Jun-35	6.9900%	10.3600%	0.2200%	0.3008%	0.3325%	0.3167%	0.3775%	6.7700%	6.6733%	9.9825%	9.56%	2.64%	3.80%	6.92%	5.76%	-1.49%	4.53%	-6.02%
Jul-35	8.5000%	8.7000%	0.2400%	0.2967%	0.3242%	0.3104%	0.3683%	8.2600%	8.1896%	8.3317%	34.05%	2.88%	3.73%	31.17%	30.33%	27.52%	4.42%	23.10%
Aug-35	2.8000%	5.6300%	0.2300%	0.3000%	0.3225%	0.3113%	0.3700%	2.5700%	2.4888%	5.2600%	29.87%	2.76%	3.74%	27.11%	26.13%	31.17%	4.44%	26.73%
Sep-35	2.5600%	-1.2200%	0.2300%	0.2992%	0.3208%	0.3100%	0.3692%	2.3300%	2.2500%	-1.5892%	33.63%	2.76%	3.72%	30.87%	29.91%	28.35%	4.43%	23.92%
Oct-35	7.7700%	12.2400%	0.2300%	0.2933%	0.3183%	0.3058%	0.3667%	7.5400%	7.4642%	11.8733%	48.26%	2.76%	3.67%	45.50%	44.59%	54.34%	4.40%	49.94%
Nov-35	4.7400%	1.0800%	0.2400%	0.2892%	0.3108%	0.3000%	0.3625%	4.5000%	4.4400%	0.7175%	41.92%	2.88%	3.60%	39.04%	38.32%	56.76%	4.35%	52.41%
Dec-35	3.9400%	4.7900%	0.2400%	0.2867%	0.3042%	0.2954%	0.3575%	3.7000%	3.6446%	4.4325%	47.66%	2.88%	3.55%	44.78%	44.11%	76.65%	4.29%	72.36%
Jan-36	6.7000%	11.0300%	0.2400%	0.2808%	0.2975%	0.2892%	0.3508%	6.4600%	6.4108%	10.6792%	64.30%	2.88%	3.47%	61.42%	60.83%	100.77%	4.21%	96.56%
Feb-36	2.2400%	-3.4200%	0.2300%	0.2767%	0.2958%	0.2863%	0.3475%	2.0100%	1.9538%	-3.7675%	73.91%	2.76%	3.44%	71.15%	70.48%	118.76%	4.17%	114.59%
Mar-36	2.6800%	0.3300%	0.2400%	0.2742%	0.2958%	0.2850%	0.3475%	2.4400%	2.3950%	-0.0175%	83.83%	2.88%	3.42%	80.95%	80.41%	98.75%	4.17%	94.58%
Apr-36	-7.5100%	-8.1400%	0.2200%	0.2742%	0.2975%	0.2858%	0.3475%	-7.7300%	-7.7958%	-8.4875%	54.85%	2.64%	3.43%	52.21%	51.42%	63.33%	4.17%	59.16%
May-36	5.4500%	7.6100%	0.2200%	0.2725%	0.2942%	0.2833%	0.3450%	5.2300%	5.1667%	7.2650%	56.87%	2.64%	3.40%	54.23%	53.47%	58.26%	4.14%	54.12%
Jun-36	3.3300%	3.5000%	0.2400%	0.2700%	0.2925%	0.2813%	0.3433%	3.0900%	3.0488%	3.1567%	51.51%	2.88%	3.38%	48.63%	48.13%	48.42%	4.12%	44.30%
Jul-36	7.0100%	10.0900%	0.2300%	0.2692%	0.2900%	0.2796%	0.3392%	6.7800%	6.7304%	9.7508%	49.43%	2.76%	3.36%	46.67%	46.07%	50.32%	4.07%	46.25%
Aug-36	1.5100%	-0.1800%	0.2300%	0.2675%	0.2867%	0.2771%	0.3383%	1.2800%	1.2329%	-0.5183%	47.55%	2.76%	3.33%	44.79%	44.23%	42.05%	4.06%	37.99%
Sep-36	0.3100%	-2.2500%	0.2100%	0.2650%	0.2842%	0.2746%	0.3375%	0.1000%	0.0354%	-2.5875%	44.31%	2.52%	3.30%	41.79%	41.02%	40.57%	4.05%	36.52%
Oct-36	7.7500%	5.6600%	0.2300%	0.2650%	0.2808%	0.2729%	0.3367%	7.5200%	7.4771%	5.3233%	44.29%	2.76%	3.28%	41.53%	41.01%	32.33%	4.04%	28.29%
Nov-36	1.3400%	-1.6900%	0.2200%	0.2625%	0.2758%	0.2692%	0.3292%	1.1200%	1.0708%	-2.0192%	39.60%	2.64%	3.23%	36.96%	36.37%	28.70%	3.95%	24.75%
Dec-36	-0.2900%	-1.7400%	0.2200%	0.2583%	0.2733%	0.2658%	0.3192%	-0.5100%	-0.5558%	-2.0592%	33.92%	2.64%	3.19%	31.28%	30.73%	20.68%	3.83%	16.85%
Jan-37	3.9000%	1.9500%	0.2100%	0.2583%	0.2750%	0.2667%	0.3183%	3.6900%	3.6333%	1.6317%	30.41%	2.52%	3.20%	27.89%	27.21%	10.81%	3.82%	6.99%
Feb-37	1.9100%	-3.5300%	0.2000%	0.2683%	0.2833%	0.2758%	0.3242%	1.7100%	1.6342%	-3.8542%	29.99%	2.40%	3.31%	27.59%	26.68%	10.69%	3.89%	6.80%
Mar-37	-0.7700%	-5.7300%	0.2200%	0.2767%	0.2917%	0.2842%	0.3333%	-0.9900%	-1.0542%	-6.0633%	25.62%	2.64%	3.41%	22.98%	22.21%	4.00%	4.00%	0.00%
Apr-37	-8.0900%	-7.3600%	0.2300%	0.2850%	0.2975%	0.2913%	0.3392%	-8.3200%	-8.3813%	-7.6992%	24.83%	2.76%	3.50%	22.07%	21.34%	4.88%	4.07%	0.81%
May-37	-0.2400%	-5.1600%	0.2200%	0.2775%	0.2900%	0.2838%	0.3333%	-0.4600%	-0.5238%	-5.4933%	18.10%	2.64%	3.41%	15.46%	14.69%	-7.56%	4.00%	-11.56%
Jun-37	-5.0400%	-4.6700%	0.2500%	0.2733%	0.2858%	0.2796%	0.3325%	-5.2900%	-5.3196%	-5.0025%	8.53%	3.00%	3.36%	5.53%	5.17%	-14.86%	3.99%	-18.85%
Jul-37	10.4500%	16.7100%	0.2400%	0.2708%	0.2842%	0.2775%	0.3283%	10.2100%	10.1725%	16.3817%	12.02%	2.88%	3.33%	9.14%	8.69%	-9.74%	3.94%	-13.68%
Aug-37	-4.8300%	-9.0300%	0.2300%	0.2700%	0.2842%	0.2771%	0.3242%	-5.0600%	-5.1071%	-9.3542%	5.02%	2.76%	3.33%	2.26%	1.70%	-17.74%	3.89%	-21.63%
Sep-37	-14.0300%	-11.7400%	0.2300%	0.2733%	0.2883%	0.2808%	0.3300%	-14.2600%	-14.3108%	-12.0700%	-9.99%	2.76%	3.37%	-12.75%	-13.36%	-25.73%	3.96%	-29.69%
Oct-37	-9.8100%	-5.1600%	0.2300%	0.2725%	0.2942%	0.2833%	0.3408%	-10.0400%	-10.0933%	-5.5008%	-24.66%	2.76%	3.40%	-27.42%	-28.06%	-33.33%	4.09%	-37.42%
Nov-37	-8.6600%	0.8000%	0.2400%	0.2700%	0.2950%	0.2825%	0.3400%	-8.9000%	-8.9425%	0.4600%	-32.09%	2.88%	3.39%	-34.97%	-35.48%	-31.64%	4.08%	-35.72%
Dec-37	-4.5900%	-9.5100%	0.2300%	0.2675%	0.2917%	0.2796%	0.3358%	-4.8200%	-4.8696%	-9.8458%	-35.02%	2.76%	3.36%	-37.78%	-38.38%	-37.05%	4.03%	-41.08%
Jan-38	1.5200%	-3.6800%	0.2300%	0.2642%	0.2917%	0.2779%	0.3342%	1.2900%	1.2421%	-4.0142%	-36.51%	2.76%	3.34%	-39.27%	-39.85%	-40.52%	4.01%	-44.54%
Feb-38	6.7400%	3.4100%	0.2100%	0.2667%	0.2925%	0.2796%	0.3358%	6.5300%	6.4604%	3.0742%	-33.50%	2.52%	3.36%	-36.02%	-36.86%	-36.25%	4.03%	-40.28%
Mar-38	-24.8700%	-19.8400%	0.2300%	0.2683%	0.2967%	0.2825%	0.3325%	-25.1000%	-25.1525%	-20.1725%	-49.65%	2.76%	3.39%	-52.41%	-53.04%	-45.79%	3.99%	-49.78%
Apr-38	14.4700%	15.3800%	0.2200%	0.2750%	0.3108%	0.2929%	0.3400%	14.2500%	14.1771%	15.0400%	-37.29%	2.64%	3.52%	-39.93%	-40.81%	-32.48%	4.08%	-36.56%
May-38	-3.3000%	1.8100%	0.2200%	0.2683%	0.2967%	0.2825%	0.3292%	-3.5200%	-3.5825%	1.4808%	-39.22%	2.64%	3.39%	-41.86%	-42.61%	-27.52%	3.95%	-31.47%
Jun-38	25.0300%	16.2200%	0.2100%	0.2717%	0.3067%	0.2892%	0.3292%	24.8200%	24.7408%	15.8908%	-19.97%	2.52%	3.47%	-22.49%	-23.44%	-11.64%	3.95%	-15.59%
Jul-38	7.4400%	1.4800%	0.2100%	0.2683%	0.3017%	0.2850%	0.3217%	7.2300%	7.1550%	1.1583%	-22.15%	2.52%	3.42%	-24.67%	-25.57%	-23.17%	3.86%	-27.03%
Aug-38	-2.2600%	-5.5700%	0.2200%	0.2650%	0.2975%	0.2813%	0.3200%	-2.4800%	-2.5413%	-5.8900%	-20.05%	2.64%	3.38%	-22.69%	-23.42%	-20.25%	3.84%	-24.09%
Sep-38	1.6600%	1.9100%	0.2100%	0.2675%	0.3000%	0.2838%	0.3233%	1.4500%	1.3763%	1.5867%	-5.46%	2.52%	3.41%	-7.98%	-8.86%	-7.91%	3.88%	-11.79%
Oct-38	7.7600%	18.0100%	0.2200%	0.2625%	0.2942%	0.2783%	0.3158%	7.5400%	7.4817%	17.6942%	12.96%	2.64%	3.34%	10.32%	9.62%	14.58%	3.79%	10.79%
Nov-38	-2.7300%	-6.2000%	0.2100%	0.2583%	0.2883%	0.2733%	0.3108%	-2.9400%	-3.0033%	-6.5108%	20.29%	2.52%	3.28%	17.77%	17.01%	6.63%	3.73%	2.90%
Dec-38	4.0100%	3.9100%	0.2200%	0.2567%	0.2850%	0.2708%	0.3117%	3.7900%	3.7392%	3.5983%	31.14%	2.64%	3.25%	28.50%	27.89%	22.44%	3.74%	18.70%
Jan-39	-6.7400%	1.6500%	0.2100%	0.2508%	0.2767%	0.2638%	0.3067%	-6.9500%	-7.0038%	1.3433%	20.47%	2.52%	3.17%	17.95%	17.30%	29.22%	3.68%	25.54%
Feb-39	3.9000%	8.0100%	0.1900%	0.2500%	0.2717%	0.2608%	0.2992%	3.7100%	3.6392%	7.7108%	17.26%	2.28%	3.13%	14.98%	14.13%	34.96%	3.59%	31.37%
Mar-39	-13.3900%	-13.7800%	0.2100%	0.2492%	0.2683%	0.2588%	0.2950%	-13.6000%	-13.6488%	-14.0750%	35.18%	2.52%	3.11%	32.66%	32.07%	45.17%	3.54%	41.63%
Apr-39	-0.2700%	2.8500%	0.1900%	0.2517%	0.2683%	0.2600%	0.2958%	-0.4600%	-0.5300%	2.5542%	17.77%	2.28%	3.12%	15.49%	14.65%	29.40%	3.55%	25.85%
May-39	7.3300%	6.6500%	0.2000%	0.2475%	0.2633%	0.2554%	0.2917%	7.1300%	7.0746%	6.3583%	30.72%	2.40%	3.07%	28.32%	27.65%	35.55%	3.50%	32.05%
Jun-39	-6.1200%	-4.2300%	0.1800%	0.2433%	0.2608%	0.2521%	0.2892%	-6.3000%	-6.3721%	-4.5192%	-1.85%	2.16%	3.03%	-4.01%	-4.87%	11.70%	3.47%	8.23%
Jul-39	11.0500%	12.0800%	0.1900%	0.2408%	0.2567%	0.2488%	0.2858%	10.8600%	10.8013%	11.7942%	1.45%	2.28%	2.99%	-0.83%	-1.54%	23.37%	3.43%	19.94%
Aug-39	-6.4800%	-6.4700%	0.1800%	0.2442%	0.2592%	0.2517%	0.2842%	-6.6600%	-6.7317%	-6.7542%	-2.93%	2.16%	3.02%	-5.09%	-5.95%	22.19%	3.41%	18.78%
Sep-39	16.7300%	4.2100%	0.1900%	0.2708%	0.2908%	0.2808%	0.3092%	16.5400%	16.4492%	3.9008%	11.46%	2.28%	3.37%	9.18%	8.09%	24.95%	3.71%	21.24%
Oct-39	-1.2300%	1.3000%	0.2300%	0.2625%	0.2792%	0.2708%	0.2983%	-1.4600%	-1.5008%	1.0017%	2.16%	2.76%	3.25%	-0.60%	-1.09%	7.26%	3.58%	3.68%
Nov-39	-3.9800%	-1.5700%	0.2000%	0.2500%	0.2633%	0.2567%	0.2842%	-4.1800%	-4.2367%	-1.8542%	0.85%	2.40%	3.08%	-1.55%	-2.23%	12.55%	3.41%	9.14%
Dec-39	2.7000%	2.7200%	0.1900%	0.2450%	0.2617%	0.2533%	0.2817%	2.5100%	2.4467%	2.4383%	-0.42%	2.28%	3.04%	-2.70%	-3.46%	11.26%	3.38%	7.88%
Jan-40	-3.3600%	0.6900%	0.2000%	0.2400%	0.2567%	0.2483%	0.2783%	-3.5600%	-3.6083%	0.4117%	3.19%	2.40%	2.98%	0.79%	0.21%	10.21%	3.34%	6.87%
Feb-40	1.3300%	-1.0200%	0.1800%	0.2383%	0.2542%	0.2463%	0.2792%	1.1500%	1.0838%	-1.2992%	0.63%	2.16%	2.96%	-1.53%	-2.32%	1.00%	3.35%	-2.35%
Mar-40	1.2400%	0.9400%	0.1900%	0.2367%	0.2533%	0.2450%	0.2783%	1.0500%	0.9950%	0.6617%	17.63%	2.28%	2.94%	15.35%	14.69%	18.24%	3.34%	14.90%
Apr-40	-0.2400%	-0.9200%	0.1800%	0.2350%	0.2492%	0.2421%	0.2708%	-0.4200%	-0.4821%	-1.1908%	17.67%	2.16%	2.91%	15.51%	14.76%	13.91%	3.25%	10.66%
May-40	-22.8900%	-19.6400%	0.1900%	0.2442%	0.2567%	0.2504%	0.2750%	-23.0800%	-23.1404%	-19.9150%	-15.46%	2.28%	3.01%	-17.74%	-18.47%	-14.17%	3.30%	-17.47%
Jun-40	8.0900%	15.0600%	0.1900%	0.2467%	0.2583%	0.2525%	0.2783%	7.9000%	7.8375%	14.7817%	-2.67%	2.28%	3.03%	-4.95%	-5.70%	3.12%	3.34%	-0.22%
Jul-40	3.4100%	0.6500%	0.2000%	0.2400%	0.2508%	0.2454%	0.2692%	3.2100%	3.1646%	0.3808%	-9.36%	2.40%	2.95%	-11.76%	-12.31%	-7.40%	3.23%	-10.63%
Aug-40	3.5000%	-0.9400%	0.1900%	0.2375%	0.2525%	0.2450%	0.2675%	3.3100%	3.2550%	-1.2075%	0.31%	2.28%	2.94%	-1.97%	-2.63%	-1.92%	3.21%	-5.13%
Sep-40	1.2300%	-2.1100%	0.1800%	0.2350%	0.2508%	0.2429%	0.2650%	1.0500%	0.9871%	-2.3750%	-13.01%	2.16%	2.92%	-15.17%	-15.93%	-7.87%	3.18%	-11.05%
Oct-40	4.2200%	3.1700%	0.1800%	0.2325%	0.2508%	0.2417%	0.2625%	4.0400%	3.9783%	2.9075%	-8.21%	2.16%	2.90%	-10.37%	-11.11%	-6.17%	3.15%	-9.32%
Nov-40	-3.1600%	-12.0700%	0.1800%	0.2292%	0.2467%	0.2379%	0.2592%	-3.3400%	-3.3979%	-12.3292%	-7.43%	2.16%	2.86%	-9.59%	-10.28%	-16.18%	3.11%	-19.29%
Dec-40	0.0900%	1.5400%	0.1700%	0.2258%	0.2433%	0.2346%	0.2583%	-0.0800%	-0.1446%	1.2817%	-9.78%	2.04%	2.82%	-11.82%	-12.59%	-17.14%	3.10%	-20.24%
Jan-41	-4.6300%	-0.8400%	0.1600%	0.2292%	0.2458%	0.2375%	0.2625%	-4.7900%	-4.8675%	-1.1025%	-10.96%	1.92%	2.85%	-12.88%	-13.81%	-18.40%	3.15%	-21.55%
Feb-41	-0.6000%	-2.3300%	0.1600%	0.2317%	0.2500%	0.2408%	0.2667%	-0.7600%	-0.8408%	-2.5967%	-12.66%	1.92%	2.89%	-14.58%	-15.55%	-19.48%	3.20%	-22.68%
Mar-41	0.7100%	-2.8000%	0.1800%	0.2333%	0.2508%	0.2421%	0.2633%	0.5300%	0.4679%	-3.0633%	-13.12%	2.16%	2.91%	-15.28%	-16.02%	-22.47%	3.16%	-25.63%
Apr-41	-6.1200%	-8.4400%	0.1700%	0.2350%	0.2533%	0.2442%	0.2617%	-6.2900%	-6.3642%	-8.7017%	-18.24%	2.04%	2.93%	-20.28%	-21.17%	-28.35%	3.14%	-31.49%
May-41	1.8300%	-3.3700%	0.1700%	0.2342%	0.2492%	0.2417%	0.2567%	1.6600%	1.5883%	-3.6267%	7.97%	2.04%	2.90%	5.93%	5.07%	-13.84%	3.08%	-16.92%
Jun-41	5.7800%	2.5700%	0.1600%	0.2308%	0.2458%	0.2383%	0.2525%	5.6200%	5.5417%	2.3175%	5.67%	1.92%	2.86%	3.75%	2.81%	-23.20%	3.03%	-26.23%
Jul-41	5.7900%	5.3800%	0.1600%	0.2283%	0.2417%	0.2350%	0.2500%	5.6300%	5.5550%	5.1300%	8.10%	1.92%	2.82%	6.18%	5.28%	-19.59%	3.00%	-22.59%
Aug-41	0.1000%	-1.9200%	0.1600%	0.2283%	0.2417%	0.2350%	0.2483%	-0.0600%	-0.1350%	-2.1683%	4.55%	1.92%	2.82%	2.63%	1.73%	-20.38%	2.98%	-23.36%
Sep-41	-0.6800%	-2.8200%	0.1600%	0.2292%	0.2425%	0.2358%	0.2500%	-0.8400%	-0.9158%	-3.0700%	2.57%	1.92%	2.83%	0.65%	-0.26%	-20.96%	3.00%	-23.96%
Oct-41	-6.5700%	-8.4800%	0.1600%	0.2275%	0.2392%	0.2333%	0.2500%	-6.7300%	-6.8033%	-8.7300%	-8.05%	1.92%	2.80%	-9.97%	-10.85%	-29.89%	3.00%	-32.89%
Nov-41	-2.8400%	-6.5200%	0.1400%	0.2267%	0.2383%	0.2325%	0.2483%	-2.9800%	-3.0725%	-6.7683%	-7.74%	1.68%	2.79%	-9.42%	-10.53%	-25.46%	2.98%	-28.44%
Dec-41	-4.0700%	-6.7800%	0.1600%	0.2333%	0.2458%	0.2396%	0.2550%	-4.2300%	-4.3096%	-7.0350%	-11.58%	1.92%	2.88%	-13.50%	-14.45%	-31.57%	3.06%	-34.63%
Jan-42	1.6100%	2.5200%	0.2100%	0.2358%	0.2467%	0.2413%	0.2575%	1.4000%	1.3688%	2.2625%	-5.79%	2.52%	2.90%	-8.31%	-8.69%	-29.25%	3.09%	-32.34%
Feb-42	-1.5900%	-3.3900%	0.1900%	0.2375%	0.2483%	0.2429%	0.2575%	-1.7800%	-1.8329%	-3.6475%	-6.73%	2.28%	2.92%	-9.01%	-9.64%	-30.02%	3.09%	-33.11%
Mar-42	-6.5200%	-10.4600%	0.2100%	0.2383%	0.2500%	0.2442%	0.2600%	-6.7300%	-6.7642%	-10.7200%	-13.43%	2.52%	2.93%	-15.95%	-16.36%	-35.53%	3.12%	-38.65%
Apr-42	-4.0000%	-4.3200%	0.2000%	0.2358%	0.2483%	0.2421%	0.2575%	-4.2000%	-4.2421%	-4.5775%	-11.47%	2.40%	2.91%	-13.87%	-14.38%	-32.63%	3.09%	-35.72%
May-42	7.9600%	9.5600%	0.1900%	0.2375%	0.2500%	0.2438%	0.2583%	7.7700%	7.7163%	9.3017%	-6.14%	2.28%	2.93%	-8.42%	-9.07%	-23.62%	3.10%	-26.72%
Jun-42	2.2100%	0.5700%	0.2100%	0.2375%	0.2508%	0.2442%	0.2600%	2.0000%	1.9658%	0.3100%	-9.31%	2.52%	2.93%	-11.83%	-12.24%	-25.11%	3.12%	-28.23%
Jul-42	3.3700%	0.4000%	0.2100%	0.2358%	0.2492%	0.2425%	0.2583%	3.1600%	3.1275%	0.1417%	-11.38%	2.52%	2.91%	-13.90%	-14.29%	-28.65%	3.10%	-31.75%
Aug-42	1.6400%	0.2600%	0.2100%	0.2342%	0.2492%	0.2417%	0.2583%	1.4300%	1.3983%	0.0017%	-10.02%	2.52%	2.90%	-12.54%	-12.92%	-27.06%	3.10%	-30.16%
Sep-42	2.9000%	4.6600%	0.2000%	0.2333%	0.2483%	0.2408%	0.2567%	2.7000%	2.6592%	4.4033%	-6.78%	2.40%	2.89%	-9.18%	-9.67%	-21.44%	3.08%	-24.52%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPSPA	Mkt Annlized Return	RF Annualized Yield	AAAAA Annualized Yield	MRP RP	AAAAA RP	S&P U Annulized Yield	A Annualized Yield	SPA RP
Oct-42	6.7800%	13.6200%	0.2100%	0.2333%	0.2458%	0.2396%	0.2567%	6.5700%	6.5404%	13.3633%	6.54%	2.52%	2.88%	4.02%	3.67%	-2.48%	3.08%	-5.56%
Nov-42	-0.2100%	-0.1500%	0.2000%	0.2325%	0.2450%	0.2388%	0.2558%	-0.4100%	-0.4488%	-0.4058%	9.43%	2.40%	2.87%	7.03%	6.56%	4.17%	3.07%	1.10%
Dec-42	5.4900%	3.2800%	0.2100%	0.2342%	0.2467%	0.2404%	0.2550%	5.2800%	5.2496%	3.0250%	20.33%	2.52%	2.89%	17.81%	17.45%	15.41%	3.06%	12.35%
Jan-43	7.3700%	12.1700%	0.2000%	0.2325%	0.2442%	0.2383%	0.2542%	7.1700%	7.1317%	11.9158%	27.15%	2.40%	2.86%	24.75%	24.29%	26.28%	3.05%	23.23%
Feb-43	5.8300%	7.1900%	0.1900%	0.2308%	0.2408%	0.2358%	0.2517%	5.6400%	5.5942%	6.9383%	36.74%	2.28%	2.83%	34.46%	33.91%	40.10%	3.02%	37.08%
Mar-43	5.4500%	4.1200%	0.2100%	0.2300%	0.2400%	0.2350%	0.2508%	5.2400%	5.2150%	3.8692%	54.25%	2.52%	2.82%	51.73%	51.43%	62.92%	3.01%	59.91%
Apr-43	0.3500%	3.8700%	0.2000%	0.2300%	0.2400%	0.2350%	0.2500%	0.1500%	0.1150%	3.6200%	61.24%	2.40%	2.82%	58.84%	58.42%	76.86%	3.00%	73.86%
May-43	5.5200%	3.4700%	0.1900%	0.2283%	0.2392%	0.2338%	0.2500%	5.3300%	5.2863%	3.2200%	57.60%	2.28%	2.81%	55.32%	54.79%	67.03%	3.00%	64.03%
Jun-43	2.2300%	5.3800%	0.2100%	0.2267%	0.2375%	0.2321%	0.2483%	2.0200%	1.9979%	5.1317%	57.63%	2.52%	2.79%	55.11%	54.84%	75.02%	2.98%	72.04%
Jul-43	-5.2600%	0.3800%	0.2100%	0.2242%	0.2350%	0.2296%	0.2467%	-5.4700%	-5.4896%	0.1333%	44.47%	2.52%	2.76%	41.95%	41.71%	74.99%	2.96%	72.03%
Aug-43	1.7100%	1.0500%	0.2100%	0.2242%	0.2342%	0.2292%	0.2467%	1.5000%	1.4808%	0.8033%	44.57%	2.52%	2.75%	42.05%	41.82%	76.36%	2.96%	73.40%
Sep-43	2.6300%	3.2300%	0.2000%	0.2242%	0.2350%	0.2296%	0.2467%	2.4300%	2.4004%	2.9833%	44.19%	2.40%	2.76%	41.79%	41.43%	73.95%	2.96%	70.99%
Oct-43	-1.0800%	0.8200%	0.2000%	0.2250%	0.2358%	0.2304%	0.2475%	-1.2800%	-1.3104%	0.5725%	33.57%	2.40%	2.77%	31.17%	30.81%	54.36%	2.97%	51.39%
Nov-43	-6.5400%	-7.7500%	0.2100%	0.2258%	0.2367%	0.2313%	0.2483%	-6.7500%	-6.7713%	-7.9983%	25.10%	2.52%	2.78%	22.58%	22.33%	42.61%	2.98%	39.63%
Dec-43	6.1700%	5.7800%	0.2100%	0.2283%	0.2392%	0.2338%	0.2492%	5.9600%	5.9363%	5.5308%	25.91%	2.52%	2.81%	23.39%	23.10%	46.06%	2.99%	43.07%
Jan-44	1.7100%	1.0600%	0.2100%	0.2267%	0.2358%	0.2313%	0.2492%	1.5000%	1.4788%	0.8108%	19.27%	2.52%	2.78%	16.75%	16.50%	31.59%	2.99%	28.60%
Feb-44	0.4200%	1.7900%	0.2000%	0.2283%	0.2358%	0.2321%	0.2492%	0.2200%	0.1879%	1.5408%	13.17%	2.40%	2.79%	10.77%	10.39%	24.96%	2.99%	21.97%
Mar-44	1.9500%	1.0400%	0.2100%	0.2283%	0.2350%	0.2317%	0.2475%	1.7400%	1.7183%	0.7925%	9.42%	2.52%	2.78%	6.90%	6.64%	21.27%	2.97%	18.30%
Apr-44	-1.0000%	-0.9100%	0.2000%	0.2283%	0.2350%	0.2317%	0.2492%	-1.2000%	-1.2317%	-1.1592%	7.94%	2.40%	2.78%	5.54%	5.16%	15.69%	2.99%	12.70%
May-44	5.0500%	3.0100%	0.2200%	0.2275%	0.2342%	0.2308%	0.2492%	4.8300%	4.8192%	2.7608%	7.46%	2.64%	2.77%	4.82%	4.69%	15.17%	2.99%	12.18%
Jun-44	5.4300%	5.2600%	0.2000%	0.2275%	0.2342%	0.2308%	0.2492%	5.2300%	5.1992%	5.0108%	10.83%	2.40%	2.77%	8.43%	8.06%	15.04%	2.99%	12.05%
Jul-44	-1.9300%	0.2900%	0.2100%	0.2267%	0.2333%	0.2300%	0.2467%	-2.1400%	-2.1600%	0.0433%	14.72%	2.52%	2.76%	12.20%	11.96%	14.94%	2.96%	11.98%
Aug-44	1.5700%	3.5700%	0.2100%	0.2258%	0.2325%	0.2292%	0.2450%	1.3600%	1.3408%	3.3250%	14.57%	2.52%	2.75%	12.05%	11.82%	17.81%	2.94%	14.87%
Sep-44	-0.0800%	-1.5000%	0.2000%	0.2267%	0.2325%	0.2296%	0.2442%	-0.2800%	-0.3096%	-1.7442%	11.54%	2.40%	2.76%	9.14%	8.79%	12.41%	2.93%	9.48%
Oct-44	0.2300%	1.3900%	0.2100%	0.2267%	0.2342%	0.2304%	0.2450%	0.0200%	-0.0004%	1.1450%	13.02%	2.52%	2.77%	10.50%	10.25%	13.04%	2.94%	10.10%
Nov-44	1.3300%	-1.3000%	0.2000%	0.2267%	0.2333%	0.2300%	0.2467%	1.1300%	1.1000%	-1.5467%	22.53%	2.40%	2.76%	20.13%	19.77%	20.95%	2.96%	17.99%
Dec-44	3.7400%	3.2400%	0.2000%	0.2250%	0.2300%	0.2275%	0.2475%	3.5400%	3.5125%	2.9925%	19.73%	2.40%	2.73%	17.33%	17.00%	18.04%	2.97%	15.07%
Jan-45	1.5800%	4.9700%	0.2100%	0.2242%	0.2300%	0.2271%	0.2492%	1.3700%	1.3529%	4.7208%	19.58%	2.52%	2.73%	17.06%	16.85%	22.61%	2.99%	19.62%
Feb-45	6.8300%	6.9500%	0.1800%	0.2208%	0.2275%	0.2242%	0.2483%	6.6500%	6.6058%	6.7017%	27.21%	2.16%	2.69%	25.05%	24.52%	28.82%	2.98%	25.84%
Mar-45	-4.4100%	-3.5700%	0.2000%	0.2183%	0.2267%	0.2225%	0.2475%	-4.6100%	-4.6325%	-3.8175%	19.27%	2.40%	2.67%	16.87%	16.60%	22.95%	2.97%	19.98%
Apr-45	9.0200%	10.6600%	0.1900%	0.2175%	0.2275%	0.2225%	0.2458%	8.8300%	8.7975%	10.4142%	31.35%	2.28%	2.67%	29.07%	28.68%	37.30%	2.95%	34.35%
May-45	1.9500%	1.7100%	0.1900%	0.2183%	0.2267%	0.2225%	0.2433%	1.7600%	1.7275%	1.4667%	27.47%	2.28%	2.67%	25.19%	24.80%	35.57%	2.92%	32.65%
Jun-45	-0.0700%	6.6200%	0.1900%	0.2175%	0.2242%	0.2208%	0.2392%	-0.2600%	-0.2908%	6.3808%	20.82%	2.28%	2.65%	18.54%	18.17%	37.32%	2.87%	34.45%
Jul-45	-1.8000%	-0.5100%	0.1800%	0.2167%	0.2233%	0.2200%	0.2358%	-1.9800%	-2.0200%	-0.7458%	20.98%	2.16%	2.64%	18.82%	18.34%	36.23%	2.83%	33.40%
Aug-45	6.4100%	0.3100%	0.1900%	0.2175%	0.2250%	0.2213%	0.2333%	6.2200%	6.1888%	0.0767%	26.75%	2.28%	2.66%	24.47%	24.09%	31.94%	2.80%	29.14%
Sep-45	4.3800%	7.3900%	0.1800%	0.2183%	0.2250%	0.2217%	0.2325%	4.2000%	4.1583%	7.1575%	32.40%	2.16%	2.66%	30.24%	29.74%	43.85%	2.79%	41.06%
Oct-45	3.2200%	6.4100%	0.1900%	0.2183%	0.2250%	0.2217%	0.2325%	3.0300%	2.9983%	6.1775%	36.35%	2.28%	2.66%	34.07%	33.69%	50.97%	2.79%	48.18%
Nov-45	3.9600%	4.7100%	0.1800%	0.2183%	0.2233%	0.2208%	0.2308%	3.7800%	3.7392%	4.4792%	39.89%	2.16%	2.65%	37.73%	37.24%	60.16%	2.77%	57.39%
Dec-45	1.1600%	-1.1700%	0.1800%	0.2175%	0.2233%	0.2204%	0.2292%	0.9800%	0.9396%	-1.3992%	36.41%	2.16%	2.65%	34.25%	33.77%	53.32%	2.75%	50.57%
Jan-46	7.1400%	11.9900%	0.1700%	0.2117%	0.2183%	0.2150%	0.2242%	6.9700%	6.9250%	11.7658%	43.88%	2.04%	2.58%	41.84%	41.30%	63.57%	2.69%	60.88%
Feb-46	-6.4100%	-6.4000%	0.1500%	0.2067%	0.2133%	0.2100%	0.2225%	-6.5600%	-6.6200%	-6.6225%	26.05%	1.80%	2.52%	24.25%	23.53%	43.16%	2.67%	40.49%
Mar-46	4.8000%	6.3100%	0.1600%	0.2058%	0.2117%	0.2088%	0.2217%	4.6400%	4.5913%	6.0883%	38.19%	1.92%	2.51%	36.27%	35.69%	57.82%	2.66%	55.16%
Apr-46	3.9300%	3.3800%	0.1700%	0.2050%	0.2133%	0.2092%	0.2208%	3.7600%	3.7208%	3.1592%	31.74%	2.04%	2.51%	29.70%	29.23%	47.44%	2.65%	44.79%
May-46	2.8800%	3.0100%	0.1800%	0.2092%	0.2150%	0.2121%	0.2242%	2.7000%	2.6679%	2.7858%	32.94%	2.16%	2.55%	30.78%	30.40%	49.32%	2.69%	46.63%
Jun-46	-3.7000%	-2.7600%	0.1600%	0.2075%	0.2158%	0.2117%	0.2250%	-3.8600%	-3.9117%	-2.9850%	28.11%	1.92%	2.54%	26.19%	25.57%	36.19%	2.70%	33.49%
Jul-46	-2.3900%	-3.3500%	0.1900%	0.2067%	0.2158%	0.2113%	0.2242%	-2.5800%	-2.6013%	-4.1742%	27.34%	2.28%	2.54%	25.06%	24.81%	31.48%	2.69%	28.79%
Aug-46	-6.7400%	-7.2400%	0.1700%	0.2092%	0.2183%	0.2138%	0.2258%	-6.9100%	-6.9538%	-7.4658%	11.61%	2.04%	2.57%	9.57%	9.04%	21.58%	2.71%	18.87%
Sep-46	-9.9700%	-10.5100%	0.1800%	0.2150%	0.2233%	0.2192%	0.2292%	-10.1500%	-10.1892%	-10.7392%	-3.74%	2.16%	2.63%	-5.90%	-6.37%	1.32%	2.75%	-1.43%
Oct-46	-0.6000%	2.2000%	0.1900%	0.2167%	0.2250%	0.2208%	0.2300%	-0.7900%	-0.8208%	1.9700%	-7.30%	2.28%	2.65%	-9.58%	-9.95%	-2.69%	2.76%	-5.45%
Nov-46	-0.2700%	0.5800%	0.1800%	0.2158%	0.2242%	0.2200%	0.2300%	-0.4500%	-0.4900%	0.3500%	-11.07%	2.16%	2.64%	-13.23%	-13.71%	-6.53%	2.76%	-9.29%
Dec-46	4.5700%	7.0600%	0.1900%	0.2175%	0.2242%	0.2208%	0.2300%	4.3800%	4.3492%	6.8300%	-8.07%	2.28%	2.65%	-10.35%	-10.72%	1.25%	2.76%	-1.51%
Jan-47	2.5500%	-0.0200%	0.1800%	0.2142%	0.2208%	0.2175%	0.2267%	2.3700%	2.3325%	-0.2467%	-12.01%	2.16%	2.61%	-14.17%	-14.62%	-9.60%	2.72%	-12.32%
Feb-47	-0.7700%	-0.8900%	0.1600%	0.2125%	0.2200%	0.2163%	0.2267%	-0.9300%	-0.9863%	-1.1167%	-6.71%	1.92%	2.60%	-8.63%	-9.31%	-4.28%	2.72%	-7.00%
Mar-47	-1.4900%	-3.6400%	0.1800%	0.2125%	0.2200%	0.2163%	0.2267%	-1.6700%	-1.7063%	-3.8667%	-12.31%	2.16%	2.60%	-14.47%	-14.90%	-13.24%	2.72%	-15.96%
Apr-47	-3.6300%	-3.2000%	0.1700%	0.2108%	0.2192%	0.2150%	0.2250%	-3.8000%	-3.8450%	-3.4250%	-18.69%	2.04%	2.58%	-20.73%	-21.27%	-18.76%	2.70%	-21.46%
May-47	0.1400%	-2.7900%	0.1700%	0.2108%	0.2192%	0.2150%	0.2250%	-0.0300%	-0.0750%	-3.0150%	-20.85%	2.04%	2.58%	-22.89%	-23.43%	-23.34%	2.70%	-26.04%
Jun-47	5.5400%	4.2800%	0.1900%	0.2125%	0.2200%	0.2163%	0.2258%	5.3500%	5.3238%	4.0542%	-13.26%	2.28%	2.60%	-15.54%	-15.85%	-17.79%	2.71%	-20.50%
Jul-47	3.8100%	2.1400%	0.1800%	0.2125%	0.2200%	0.2163%	0.2275%	3.6300%	3.5938%	1.9125%	-7.75%	2.16%	2.60%	-9.91%	-10.34%	-12.58%	2.73%	-15.31%
Aug-47	-2.0300%	-0.2200%	0.1700%	0.2133%	0.2200%	0.2167%	0.2275%	-2.2000%	-2.2467%	-0.4475%	-3.09%	2.04%	2.60%	-5.13%	-5.69%	-5.96%	2.73%	-8.69%
Sep-47	-1.1100%	-1.4200%	0.1800%	0.2175%	0.2242%	0.2208%	0.2333%	-1.2900%	-1.3308%	-1.6533%	6.45%	2.16%	2.65%	4.29%	3.80%	3.59%	2.80%	0.79%
Oct-47	2.3800%	-1.3300%	0.1800%	0.2250%	0.2325%	0.2288%	0.2400%	2.2000%	2.1513%	-1.5700%	9.64%	2.16%	2.75%	7.48%	6.89%	0.02%	2.88%	-2.86%
Nov-47	-1.7500%	-8.2400%	0.1700%	0.2308%	0.2375%	0.2342%	0.2442%	-1.9200%	-1.9842%	-8.4842%	8.01%	2.04%	2.81%	5.97%	5.20%	-8.76%	2.93%	-11.69%
Dec-47	2.3300%	1.8900%	0.2100%	0.2383%	0.2450%	0.2417%	0.2542%	2.1200%	2.0883%	1.6358%	5.70%	2.52%	2.90%	3.18%	2.80%	-13.16%	3.05%	-16.21%
Jan-48	-3.7900%	0.7000%	0.2000%	0.2383%	0.2450%	0.2417%	0.2542%	-3.9900%	-4.0317%	0.4458%	-0.84%	2.40%	2.90%	-3.24%	-3.74%	-12.54%	3.05%	-15.59%
Feb-48	-3.8800%	-3.7200%	0.1900%	0.2375%	0.2442%	0.2408%	0.2542%	-4.0700%	-4.1208%	-3.9742%	-3.95%	2.28%	2.89%	-6.23%	-6.84%	-15.03%	3.05%	-18.08%
Mar-48	7.9300%	6.1700%	0.2200%	0.2358%	0.2417%	0.2388%	0.2517%	7.7100%	7.6913%	5.9183%	5.24%	2.64%	2.87%	2.60%	2.37%	-6.38%	3.02%	-9.40%
Apr-48	2.9200%	1.6000%	0.2000%	0.2317%	0.2392%	0.2354%	0.2475%	2.7200%	2.6846%	1.3525%	12.39%	2.40%	2.83%	9.99%	9.57%	-1.74%	2.97%	-4.71%
May-48	8.7900%	5.8300%	0.1800%	0.2300%	0.2383%	0.2342%	0.2450%	8.6100%	8.5558%	5.5850%	22.10%	2.16%	2.81%	19.94%	19.29%	6.97%	2.94%	4.03%
Jun-48	0.5400%	2.1200%	0.2100%	0.2300%	0.2375%	0.2338%	0.2450%	0.3300%	0.3063%	1.8750%	16.32%	2.52%	2.81%	13.80%	13.51%	4.76%	2.94%	1.82%
Jul-48	-5.0800%	-4.4300%	0.1900%	0.2342%	0.2408%	0.2375%	0.2492%	-5.2700%	-5.3175%	-4.6792%	6.35%	2.28%	2.85%	4.07%	3.50%	-1.98%	2.99%	-4.97%
Aug-48	1.5800%	0.3600%	0.2100%	0.2367%	0.2450%	0.2408%	0.2525%	1.3700%	1.3392%	0.1075%	10.27%	2.52%	2.89%	7.75%	7.38%	-1.41%	3.03%	-4.44%
Sep-48	-2.7600%	-0.7100%	0.2000%	0.2367%	0.2442%	0.2404%	0.2542%	-2.9600%	-3.0004%	-0.9642%	8.43%	2.40%	2.89%	6.03%	5.55%	-0.70%	3.05%	-3.75%
Oct-48	7.1000%	4.0300%	0.1900%	0.2367%	0.2450%	0.2408%	0.2525%	6.9100%	6.8592%	3.7775%	13.43%	2.28%	2.89%	11.15%	10.54%	4.69%	3.03%	1.66%
Nov-48	-9.6100%	-9.1300%	0.2100%	0.2367%	0.2433%	0.2400%	0.2558%	-9.8200%	-9.8500%	-9.3858%	4.36%	2.52%	2.88%	1.84%	1.48%	3.68%	3.07%	0.61%
Dec-48	3.4600%	2.2100%	0.2000%	0.2325%	0.2400%	0.2363%	0.2550%	3.2600%	3.2238%	1.9550%	5.51%	2.40%	2.84%	3.11%	2.68%	4.00%	3.06%	0.94%
Jan-49	0.3900%	5.0400%	0.2000%	0.2258%	0.2342%	0.2300%	0.2492%	0.1900%	0.1600%	4.7908%	10.09%	2.40%	2.76%	7.69%	7.33%	8.48%	2.99%	5.49%
Feb-49	-2.9600%	0.0500%	0.1800%	0.2258%	0.2333%	0.2296%	0.2492%	-3.1400%	-3.1896%	-0.1992%	11.15%	2.16%	2.76%	8.99%	8.39%	12.73%	2.99%	9.74%
Mar-49	3.2800%	3.6400%	0.1900%	0.2250%	0.2325%	0.2288%	0.2475%	3.0900%	3.0513%	3.3925%	6.36%	2.28%	2.75%	4.08%	3.61%	10.05%	2.97%	7.08%
Apr-49	-1.7900%	0.5800%	0.1800%	0.2250%	0.2325%	0.2288%	0.2467%	-1.9700%	-2.0188%	0.3333%	1.49%	2.16%	2.75%	-0.67%	-1.25%	8.94%	2.96%	5.98%
May-49	-2.5800%	0.3400%	0.2000%	0.2258%	0.2317%	0.2288%	0.2458%	-2.7800%	-2.8088%	0.0942%	-9.11%	2.40%	2.75%	-11.51%	-11.86%	3.29%	2.95%	0.34%
Jun-49	0.1400%	-1.3400%	0.1900%	0.2258%	0.2317%	0.2288%	0.2450%	-0.0500%	-0.0888%	-1.5850%	-9.48%	2.28%	2.75%	-11.76%	-12.22%	-0.21%	2.94%	-3.15%
Jul-49	6.5000%	5.6900%	0.1700%	0.2225%	0.2292%	0.2258%	0.2417%	6.3300%	6.2742%	5.4483%	1.57%	2.04%	2.71%	-0.47%	-1.14%	10.36%	2.90%	7.46%
Aug-49	2.1900%	3.4600%	0.1900%	0.2183%	0.2258%	0.2221%	0.2383%	2.0000%	1.9679%	3.2217%	2.18%	2.28%	2.67%	-0.10%	-0.49%	13.77%	2.86%	10.91%
Sep-49	2.6300%	3.7300%	0.1700%	0.2167%	0.2242%	0.2204%	0.2375%	2.4600%	2.4096%	3.4925%	7.84%	2.04%	2.65%	5.80%	5.20%	18.85%	2.85%	16.00%
Oct-49	3.4000%	1.1200%	0.1800%	0.2175%	0.2250%	0.2213%	0.2358%	3.2200%	3.1788%	0.8842%	4.12%	2.16%	2.66%	1.96%	1.46%	15.53%	2.83%	12.70%
Nov-49	1.7500%	1.5900%	0.1700%	0.2167%	0.2233%	0.2200%	0.2342%	1.5800%	1.5300%	1.3558%	17.20%	2.04%	2.64%	15.16%	14.56%	29.16%	2.81%	26.35%
Dec-49	4.8600%	3.9600%	0.1700%	0.2150%	0.2225%	0.2188%	0.2317%	4.6900%	4.6413%	3.7283%	18.79%	2.04%	2.63%	16.75%	16.16%	31.37%	2.78%	28.59%
Jan-50	1.9700%	3.5300%	0.1800%	0.2142%	0.2208%	0.2175%	0.2300%	1.7900%	1.7525%	3.3000%	20.66%	2.16%	2.61%	18.50%	18.05%	29.48%	2.76%	26.72%
Feb-50	1.9900%	1.0000%	0.1600%	0.2150%	0.2208%	0.2179%	0.2300%	1.8300%	1.7721%	0.7700%	26.81%	1.92%	2.62%	24.89%	24.20%	30.71%	2.76%	27.95%
Mar-50	0.7000%	0.8400%	0.1800%	0.2150%	0.2217%	0.2183%	0.2300%	0.5200%	0.4817%	0.6100%	23.64%	2.16%	2.62%	21.48%	21.02%	27.18%	2.76%	24.42%
Apr-50	4.8600%	1.8500%	0.1600%	0.2167%	0.2217%	0.2192%	0.2308%	4.7000%	4.6408%	1.6192%	32.01%	1.92%	2.63%	30.09%	29.38%	28.78%	2.77%	26.01%
May-50	5.0900%	1.9200%	0.1900%	0.2175%	0.2242%	0.2208%	0.2325%	4.9000%	4.8692%	1.6875%	42.41%	2.28%	2.65%	40.13%	39.76%	30.81%	2.79%	28.02%
Jun-50	-5.4800%	-7.7100%	0.1700%	0.2183%	0.2242%	0.2213%	0.2325%	-5.6500%	-5.7013%	-7.9425%	34.42%	2.04%	2.66%	32.38%	31.76%	22.37%	2.79%	19.58%
Jul-50	1.1900%	-4.3600%	0.1800%	0.2208%	0.2267%	0.2238%	0.2325%	1.0100%	0.9663%	-4.5925%	27.71%	2.16%	2.69%	25.55%	25.03%	10.73%	2.79%	7.94%
Aug-50	4.4300%	1.5400%	0.1800%	0.2175%	0.2225%	0.2200%	0.2300%	4.2500%	4.2100%	1.3100%	30.51%	2.16%	2.64%	28.35%	27.87%	8.68%	2.76%	5.92%
Sep-50	5.9200%	4.1800%	0.1700%	0.2200%	0.2258%	0.2229%	0.2333%	5.7500%	5.6971%	3.9467%	34.70%	2.04%	2.68%	32.66%	32.02%	9.15%	2.80%	6.35%
Oct-50	0.9300%	-0.2700%	0.1900%	0.2225%	0.2267%	0.2246%	0.2358%	0.7400%	0.7054%	-0.5058%	31.48%	2.28%	2.70%	29.20%	28.79%	7.65%	2.83%	4.82%
Nov-50	1.6900%	-1.7600%	0.1800%	0.2225%	0.2267%	0.2246%	0.2383%	1.5100%	1.4654%	-1.9983%	31.40%	2.16%	2.70%	29.24%	28.71%	4.10%	2.86%	1.24%
Dec-50	5.1300%	3.1200%	0.1800%	0.2225%	0.2267%	0.2246%	0.2383%	4.9500%	4.9054%	2.8817%	31.74%	2.16%	2.70%	29.58%	29.05%	3.26%	2.86%	0.40%
Jan-51	6.3700%	4.3800%	0.2000%	0.2217%	0.2258%	0.2238%	0.2358%	6.1700%	6.1463%	4.1442%	37.43%	2.40%	2.69%	35.03%	34.74%	4.10%	2.83%	1.27%
Feb-51	1.5700%	2.6800%	0.1700%	0.2217%	0.2258%	0.2238%	0.2367%	1.4000%	1.3463%	2.4433%	36.86%	2.04%	2.69%	34.82%	34.17%	5.83%	2.84%	2.99%
Mar-51	-1.5600%	-1.7400%	0.1900%	0.2317%	0.2350%	0.2333%	0.2458%	-1.7500%	-1.7933%	-1.9858%	33.79%	2.28%	2.80%	31.51%	30.99%	3.13%	2.95%	0.18%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPSPA	Mkt Annlized Return	RF Annualized Yield	AAAAA Annualized Yield	MRP RP	AAAAA RP	S&P U Annulized Yield	A Annualized Yield	SPA RP
Apr-51	5.0900%	0.0500%	0.2000%	0.2392%	0.2442%	0.2417%	0.2575%	4.8900%	4.8483%	-0.2075%	34.08%	2.40%	2.90%		31.68%	31.18%	1.30%	3.09%	-1.79%
May-51	-2.9900%	0.6600%	0.2100%	0.2408%	0.2442%	0.2425%	0.2608%	-3.2000%	-3.2325%	0.3992%	23.77%	2.52%	2.91%		21.25%	20.86%	0.05%	3.13%	-3.08%
Jun-51	-2.2800%	-0.4000%	0.2000%	0.2450%	0.2492%	0.2471%	0.2675%	-2.4800%	-2.5271%	-0.6675%	27.96%	2.40%	2.97%		25.56%	25.00%	7.98%	3.21%	4.77%
Jul-51	7.1100%	4.3900%	0.2300%	0.2450%	0.2492%	0.2471%	0.2717%	6.8800%	6.8629%	4.1183%	35.45%	2.76%	2.97%		32.69%	32.48%	17.86%	3.26%	14.60%
Aug-51	4.7800%	1.5200%	0.2100%	0.2400%	0.2433%	0.2417%	0.2658%	4.5700%	4.5383%	1.2542%	35.90%	2.52%	2.90%		33.38%	33.00%	17.83%	3.19%	14.64%
Sep-51	0.1300%	0.8600%	0.1900%	0.2367%	0.2400%	0.2383%	0.2617%	-0.0600%	-0.1083%	0.5983%	28.47%	2.28%	2.86%		26.19%	25.61%	14.08%	3.14%	10.94%
Oct-51	-1.0300%	0.2900%	0.2300%	0.2408%	0.2442%	0.2425%	0.2642%	-1.2600%	-1.2725%	0.0258%	25.98%	2.76%	2.91%		23.22%	23.07%	14.72%	3.17%	11.55%
Nov-51	0.9600%	1.2000%	0.2100%	0.2467%	0.2517%	0.2492%	0.2700%	0.7500%	0.7108%	0.9300%	25.07%	2.52%	2.99%		22.55%	22.08%	18.17%	3.24%	14.93%
Dec-51	4.2400%	3.5200%	0.2200%	0.2508%	0.2550%	0.2529%	0.2742%	4.0200%	3.9871%	3.2458%	24.02%	2.64%	3.04%		21.38%	20.98%	18.63%	3.29%	15.34%
Jan-52	1.8100%	3.0500%	0.2300%	0.2483%	0.2542%	0.2513%	0.2742%	1.5800%	1.5688%	2.7758%	18.70%	2.76%	3.02%		15.94%	15.68%	17.12%	3.29%	13.83%
Feb-52	-2.8200%	0.5900%	0.2100%	0.2442%	0.2508%	0.2475%	0.2692%	-3.0300%	-3.0675%	0.3208%	13.57%	2.52%	2.97%		11.05%	10.60%	14.74%	3.23%	11.51%
Mar-52	5.0300%	1.7600%	0.2300%	0.2467%	0.2525%	0.2496%	0.2708%	4.8000%	4.7804%	1.4892%	21.17%	2.76%	3.00%		18.41%	18.18%	18.82%	3.25%	15.57%
Apr-52	-4.0200%	-1.5400%	0.2200%	0.2442%	0.2508%	0.2475%	0.2692%	-4.2400%	-4.2675%	-1.8092%	10.67%	2.64%	2.97%		8.03%	7.70%	16.94%	3.23%	13.71%
May-52	3.4300%	1.9000%	0.2000%	0.2442%	0.2500%	0.2471%	0.2683%	3.2300%	3.1829%	1.6317%	17.99%	2.40%	2.97%		15.59%	15.03%	18.38%	3.22%	15.16%
Jun-52	4.9000%	0.4900%	0.2200%	0.2450%	0.2525%	0.2488%	0.2683%	4.6800%	4.6513%	0.2217%	26.66%	2.64%	2.99%		24.02%	23.68%	19.43%	3.22%	16.21%
Jul-52	1.9600%	2.0600%	0.2200%	0.2458%	0.2533%	0.2496%	0.2683%	1.7400%	1.7104%	1.7917%	20.57%	2.64%	3.00%		17.93%	17.58%	16.77%	3.22%	13.55%
Aug-52	-0.7100%	2.0300%	0.2100%	0.2450%	0.2550%	0.2500%	0.2700%	-0.9200%	-0.9600%	1.7600%	14.25%	2.52%	3.00%		11.73%	11.25%	17.35%	3.24%	14.11%
Sep-52	-1.7600%	0.1500%	0.2300%	0.2458%	0.2558%	0.2508%	0.2700%	-1.9900%	-2.0108%	-0.1200%	12.10%	2.76%	3.01%		9.34%	9.09%	16.53%	3.24%	13.29%
Oct-52	0.2000%	1.0100%	0.2300%	0.2508%	0.2567%	0.2538%	0.2717%	-0.0300%	-0.0538%	0.7383%	13.49%	2.76%	3.05%		10.73%	10.45%	17.37%	3.26%	14.11%
Nov-52	5.7100%	4.2300%	0.2100%	0.2483%	0.2550%	0.2517%	0.2700%	5.5000%	5.4583%	3.9600%	18.83%	2.52%	3.02%		16.31%	15.81%	20.88%	3.24%	17.64%
Dec-52	3.8200%	2.1300%	0.2400%	0.2475%	0.2542%	0.2508%	0.2683%	3.5800%	3.5692%	1.8617%	18.35%	2.88%	3.01%		15.47%	15.34%	19.26%	3.22%	16.04%
Jan-53	-0.4900%	1.0300%	0.2300%	0.2517%	0.2575%	0.2546%	0.2708%	-0.7200%	-0.7446%	0.7592%	15.68%	2.76%	3.06%		12.92%	12.62%	16.92%	3.25%	13.67%
Feb-53	-1.0600%	-0.5700%	0.2100%	0.2558%	0.2617%	0.2588%	0.2750%	-1.2700%	-1.3188%	-0.9450%	17.77%	2.52%	3.11%		15.25%	14.67%	15.45%	3.30%	12.15%
Mar-53	-2.1200%	-0.4300%	0.2500%	0.2600%	0.2650%	0.2625%	0.2800%	-2.3700%	-2.3825%	-0.7100%	9.75%	3.00%	3.15%		6.75%	6.60%	12.97%	3.36%	9.61%
Apr-53	-2.3700%	-1.9200%	0.2400%	0.2692%	0.2742%	0.2717%	0.2892%	-2.6100%	-2.6417%	-2.2092%	11.64%	2.88%	3.26%		8.76%	8.38%	12.53%	3.47%	9.06%
May-53	0.7700%	0.2400%	0.2400%	0.2783%	0.2842%	0.2813%	0.3025%	0.5300%	0.4888%	-0.0625%	8.77%	2.88%	3.38%		5.89%	5.40%	10.70%	3.63%	7.07%
Jun-53	-1.3400%	-2.7300%	0.2700%	0.2833%	0.2917%	0.2875%	0.3092%	-1.6100%	-1.6275%	-3.0392%	2.30%	3.24%	3.45%		-0.94%	-1.15%	7.15%	3.71%	3.44%
Jul-53	2.7300%	3.4500%	0.2500%	0.2733%	0.2850%	0.2792%	0.3050%	2.4800%	2.4508%	3.1450%	3.07%	3.00%	3.35%		0.07%	-0.28%	8.61%	3.66%	4.95%
Aug-53	-5.0100%	0.1600%	0.2500%	0.2700%	0.2825%	0.2763%	0.3008%	-5.2600%	-5.2863%	-0.1408%	-1.39%	3.00%	3.32%		-4.39%	-4.71%	6.62%	3.61%	3.01%
Sep-53	0.3400%	1.1900%	0.2500%	0.2742%	0.2858%	0.2800%	0.3017%	0.0900%	0.0600%	0.8883%	0.72%	3.00%	3.36%		-2.28%	-2.64%	7.73%	3.62%	4.11%
Oct-53	5.4000%	4.1100%	0.2300%	0.2633%	0.2775%	0.2704%	0.2908%	5.1700%	5.1296%	3.8192%	5.94%	2.76%	3.25%		3.18%	2.70%	11.04%	3.49%	7.55%
Nov-53	2.0400%	2.7400%	0.2400%	0.2592%	0.2725%	0.2658%	0.2833%	1.8000%	1.7742%	2.4567%	2.27%	2.88%	3.19%		-0.61%	-0.92%	9.45%	3.40%	6.05%
Dec-53	0.5300%	0.6400%	0.2400%	0.2608%	0.2733%	0.2671%	0.2817%	0.2900%	0.2629%	0.3583%	-0.98%	2.88%	3.21%		-3.86%	-4.18%	7.85%	3.38%	4.47%
Jan-54	5.3600%	3.2700%	0.2300%	0.2550%	0.2683%	0.2617%	0.2767%	5.1300%	5.0983%	2.9933%	4.85%	2.76%	3.14%		2.09%	1.71%	10.24%	3.32%	6.92%
Feb-54	1.1100%	1.1700%	0.2200%	0.2458%	0.2600%	0.2529%	0.2692%	0.8900%	0.8571%	0.9008%	7.15%	2.64%	3.04%		4.51%	4.11%	12.28%	3.23%	9.05%
Mar-54	3.2500%	2.7000%	0.2500%	0.2383%	0.2525%	0.2454%	0.2633%	3.0000%	3.0046%	2.4367%	13.02%	3.00%	2.95%		10.02%	10.08%	15.81%	3.16%	12.65%
Apr-54	5.1600%	1.2100%	0.2200%	0.2375%	0.2500%	0.2438%	0.2633%	4.9400%	4.9163%	0.9467%	21.74%	2.64%	2.93%		19.10%	18.82%	19.51%	3.16%	16.35%
May-54	4.1800%	2.5700%	0.2000%	0.2400%	0.2525%	0.2463%	0.2617%	3.9800%	3.9338%	2.3083%	25.86%	2.40%	2.96%		23.46%	22.91%	22.29%	3.14%	19.15%
Jun-54	0.3100%	0.9600%	0.2500%	0.2417%	0.2550%	0.2483%	0.2633%	0.0600%	0.0617%	0.6967%	27.97%	3.00%	2.98%		24.97%	24.99%	26.93%	3.16%	23.77%
Jul-54	5.8900%	4.9500%	0.2200%	0.2408%	0.2533%	0.2471%	0.2617%	5.6700%	5.6429%	4.6883%	31.90%	2.64%	2.97%		29.26%	28.94%	28.77%	3.14%	25.63%
Aug-54	-2.7500%	-1.3100%	0.2300%	0.2392%	0.2525%	0.2458%	0.2608%	-2.9800%	-2.9958%	-1.5708%	35.04%	2.76%	2.95%		32.28%	32.09%	26.88%	3.13%	23.75%
Sep-54	8.5100%	1.7800%	0.2200%	0.2408%	0.2533%	0.2471%	0.2600%	8.2900%	8.2629%	1.5200%	46.04%	2.64%	2.97%		43.40%	43.07%	27.62%	3.12%	24.50%
Oct-54	-1.6700%	-3.6800%	0.2100%	0.2392%	0.2533%	0.2463%	0.2600%	-1.8800%	-1.9163%	-3.9400%	36.24%	2.52%	2.96%		33.72%	33.29%	18.07%	3.12%	14.95%
Nov-54	9.0900%	5.6500%	0.2300%	0.2408%	0.2533%	0.2471%	0.2592%	8.8600%	8.8429%	5.3908%	45.65%	2.76%	2.97%		42.89%	42.69%	21.41%	3.11%	18.30%
Dec-54	5.3400%	3.4100%	0.2300%	0.2417%	0.2533%	0.2475%	0.2592%	5.1100%	5.0925%	3.1508%	52.62%	2.76%	2.97%		49.86%	49.65%	24.75%	3.11%	21.64%
Jan-55	1.9700%	1.4300%	0.2200%	0.2442%	0.2550%	0.2496%	0.2608%	1.7500%	1.7204%	1.1692%	47.71%	2.64%	3.00%		45.07%	44.72%	22.52%	3.13%	19.40%
Feb-55	0.9800%	3.4400%	0.2200%	0.2442%	0.2583%	0.2513%	0.2617%	0.7600%	0.7288%	3.1783%	47.52%	2.64%	3.02%		44.88%	44.51%	25.28%	3.14%	22.14%
Mar-55	-0.3000%	-1.1000%	0.2400%	0.2517%	0.2608%	0.2563%	0.2625%	-0.5400%	-0.5563%	-1.3625%	42.45%	2.88%	3.08%		39.57%	39.37%	20.65%	3.15%	17.50%
Apr-55	3.9600%	2.0200%	0.2200%	0.2508%	0.2608%	0.2558%	0.2625%	3.7400%	3.7042%	1.7575%	40.82%	2.64%	3.07%		38.18%	37.75%	21.61%	3.15%	18.46%
May-55	0.5500%	-0.5800%	0.2500%	0.2533%	0.2625%	0.2579%	0.2658%	0.3000%	0.2921%	-0.8458%	35.92%	3.00%	3.10%		32.92%	32.82%	17.88%	3.19%	14.69%
Jun-55	8.4100%	2.1100%	0.2300%	0.2542%	0.2617%	0.2579%	0.2675%	8.1800%	8.1521%	1.8425%	46.89%	2.76%	3.10%		44.13%	43.80%	19.22%	3.21%	16.01%
Jul-55	6.2200%	4.6600%	0.2300%	0.2550%	0.2617%	0.2583%	0.2675%	5.9900%	5.9617%	4.3925%	47.35%	2.76%	3.10%		44.59%	44.25%	18.89%	3.21%	15.68%
Aug-55	-0.2500%	0.5200%	0.2700%	0.2592%	0.2667%	0.2629%	0.2700%	-0.5200%	-0.5129%	0.2500%	51.14%	3.24%	3.16%		47.90%	47.98%	21.09%	3.24%	17.85%
Sep-55	1.3000%	-2.9000%	0.2400%	0.2608%	0.2683%	0.2646%	0.2725%	1.0600%	1.0354%	-3.1725%	41.10%	2.88%	3.18%		38.22%	37.92%	15.53%	3.27%	12.26%
Oct-55	-2.8400%	-0.8500%	0.2500%	0.2583%	0.2658%	0.2621%	0.2750%	-3.0900%	-3.1021%	-1.1250%	39.42%	3.00%	3.15%		36.42%	36.27%	18.92%	3.30%	15.62%
Nov-55	8.2700%	2.9200%	0.2400%	0.2583%	0.2650%	0.2617%	0.2767%	8.0300%	8.0083%	2.6433%	38.37%	2.88%	3.14%		35.49%	35.23%	15.85%	3.32%	12.53%
Dec-55	0.1500%	-0.6700%	0.2400%	0.2625%	0.2683%	0.2654%	0.2792%	-0.0900%	-0.1154%	-0.9492%	31.55%	2.88%	3.19%		28.67%	28.37%	11.28%	3.35%	7.93%
Jan-56	-3.4700%	0.3000%	0.2500%	0.2592%	0.2658%	0.2625%	0.2758%	-3.7200%	-3.7325%	0.0242%	24.53%	3.00%	3.15%		21.53%	21.38%	10.04%	3.31%	6.73%
Feb-56	4.1300%	1.7800%	0.2300%	0.2567%	0.2633%	0.2600%	0.2742%	3.9000%	3.8700%	1.5058%	28.42%	2.76%	3.12%		25.66%	25.30%	8.27%	3.29%	4.98%
Mar-56	7.1000%	3.9400%	0.2300%	0.2583%	0.2650%	0.2617%	0.2742%	6.8700%	6.8383%	3.6658%	37.95%	2.76%	3.14%		35.19%	34.81%	13.79%	3.29%	10.50%
Apr-56	-0.0400%	-2.8700%	0.2600%	0.2700%	0.2750%	0.2725%	0.2833%	-0.3000%	-0.3125%	-3.1533%	32.64%	3.12%	3.27%		29.52%	29.37%	8.33%	3.40%	4.93%
May-56	-5.9300%	-1.3800%	0.2600%	0.2733%	0.2783%	0.2758%	0.2900%	-6.1900%	-6.2058%	-1.6700%	24.09%	3.12%	3.31%		20.97%	20.78%	7.46%	3.48%	3.98%
Jun-56	4.0900%	2.1100%	0.2300%	0.2717%	0.2792%	0.2754%	0.2908%	3.8600%	3.8146%	1.8192%	19.15%	2.76%	3.31%		16.39%	15.84%	7.46%	3.49%	3.97%
Jul-56	5.3000%	5.2500%	0.2600%	0.2733%	0.2825%	0.2779%	0.2958%	5.0400%	5.0221%	4.9542%	18.12%	3.12%	3.34%		15.00%	14.78%	8.07%	3.55%	4.52%
Aug-56	-3.2800%	-2.5900%	0.2600%	0.2858%	0.2917%	0.2888%	0.3025%	-3.5400%	-3.5688%	-2.8925%	14.53%	3.12%	3.47%		11.41%	11.06%	4.73%	3.63%	1.10%
Sep-56	-4.4000%	-3.1900%	0.2500%	0.2967%	0.3025%	0.2996%	0.3100%	-4.6500%	-4.6996%	-3.5000%	8.08%	3.00%	3.60%		5.08%	4.49%	4.41%	3.72%	0.69%
Oct-56	0.6600%	0.6300%	0.2900%	0.2992%	0.3075%	0.3033%	0.3158%	0.3700%	0.3567%	0.3142%	11.98%	3.48%	3.64%		8.50%	8.34%	5.97%	3.79%	2.18%
Nov-56	-0.5000%	0.2800%	0.2700%	0.3075%	0.3133%	0.3104%	0.3183%	-0.7700%	-0.8104%	-0.0383%	2.91%	3.24%	3.73%		-0.33%	-0.82%	3.25%	3.82%	-0.57%
Dec-56	3.7000%	1.0400%	0.2800%	0.3125%	0.3208%	0.3167%	0.3258%	3.4200%	3.3833%	0.7142%	6.56%	3.36%	3.80%		3.20%	2.76%	5.03%	3.91%	1.12%
Jan-57	-4.0100%	3.2400%	0.2900%	0.3142%	0.3242%	0.3192%	0.3300%	-4.3000%	-4.3292%	2.9100%	5.96%	3.48%	3.83%		2.48%	2.13%	8.11%	3.96%	4.15%
Feb-57	-2.6400%	-0.6100%	0.2500%	0.3058%	0.3192%	0.3125%	0.3375%	-2.8900%	-2.9525%	-0.9475%	-0.93%	3.00%	3.75%		-3.93%	-4.68%	5.57%	4.05%	1.52%
Mar-57	2.1500%	0.7800%	0.2600%	0.3050%	0.3167%	0.3108%	0.3375%	1.8900%	1.8392%	0.4425%	-5.51%	3.12%	3.73%		-8.63%	-9.24%	2.36%	4.05%	-1.69%
Apr-57	3.8800%	4.0200%	0.2900%	0.3058%	0.3158%	0.3108%	0.3342%	3.5900%	3.5692%	3.6858%	-1.80%	3.48%	3.73%		-5.28%	-5.53%	9.62%	4.01%	5.61%
May-57	4.3700%	1.8000%	0.2900%	0.3117%	0.3192%	0.3154%	0.3342%	4.0800%	4.0546%	1.4658%	8.95%	3.48%	3.79%		5.47%	5.16%	13.16%	4.01%	9.15%
Jun-57	0.0400%	-4.1800%	0.2500%	0.3258%	0.3317%	0.3288%	0.3408%	-0.2100%	-0.2888%	-4.5208%	4.71%	3.00%	3.95%		1.71%	0.76%	6.19%	4.09%	2.10%
Jul-57	1.3100%	0.3500%	0.3300%	0.3325%	0.3417%	0.3371%	0.3500%	0.9800%	0.9729%	0.0000%	0.74%	3.96%	4.05%		-3.22%	-3.30%	1.24%	4.20%	-2.96%
Aug-57	-5.0500%	-2.9400%	0.3000%	0.3417%	0.3508%	0.3463%	0.3642%	-5.3500%	-5.3963%	-3.3042%	-1.10%	3.60%	4.16%		-4.70%	-5.26%	0.88%	4.37%	-3.49%
Sep-57	-6.0200%	-1.3800%	0.3100%	0.3433%	0.3550%	0.3492%	0.3792%	-6.3300%	-6.3692%	-1.7592%	-2.78%	3.72%	4.19%		-6.50%	-6.97%	2.76%	4.55%	-1.79%
Oct-57	-3.0200%	-0.7400%	0.3100%	0.3417%	0.3567%	0.3492%	0.3842%	-3.3300%	-3.3692%	-1.1242%	-6.33%	3.72%	4.19%		-10.05%	-10.52%	1.37%	4.61%	-3.24%
Nov-57	2.3100%	4.2800%	0.2900%	0.3403%	0.3575%	0.3488%	0.3850%	2.0200%	1.9613%	3.8950%	-3.69%	3.48%	4.19%		-7.17%	-7.87%	5.41%	4.62%	0.79%
Dec-57	-3.9500%	1.9500%	0.2900%	0.3175%	0.3400%	0.3288%	0.3633%	-4.2400%	-4.2788%	1.5867%	-10.79%	3.48%	3.95%		-14.27%	-14.74%	6.36%	4.36%	2.00%
Jan-58	4.4500%	6.0200%	0.2700%	0.3000%	0.3175%	0.3088%	0.3275%	4.1800%	4.1413%	5.6925%	-2.93%	3.24%	3.71%		-6.17%	-6.63%	9.22%	3.93%	5.29%
Feb-58	-1.4100%	1.3700%	0.2500%	0.2992%	0.3142%	0.3067%	0.3300%	-1.6600%	-1.7167%	1.0400%	-1.70%	3.00%	3.68%		-4.70%	-5.38%	11.40%	3.96%	7.44%
Mar-58	3.2800%	2.0000%	0.2700%	0.3025%	0.3150%	0.3088%	0.3442%	3.0100%	2.9713%	1.6558%	-0.62%	3.24%	3.71%		-3.86%	-4.32%	12.75%	4.13%	8.62%
Apr-58	3.3700%	5.1600%	0.2600%	0.3000%	0.3150%	0.3075%	0.3292%	3.1100%	3.0625%	4.8308%	-1.10%	3.12%	3.69%		-4.22%	-4.79%	13.98%	3.95%	10.03%
May-58	2.1200%	1.6400%	0.2400%	0.2975%	0.3150%	0.3063%	0.3342%	1.8800%	1.8138%	1.3058%	-3.24%	2.88%	3.68%		-6.12%	-6.91%	13.80%	4.01%	9.79%
Jun-58	2.7900%	1.7200%	0.2700%	0.2975%	0.3150%	0.3063%	0.3325%	2.5200%	2.4838%	1.3875%	-0.58%	3.24%	3.68%		-3.82%	-4.25%	20.81%	3.99%	16.82%
Jul-58	4.4900%	1.0900%	0.2700%	0.3058%	0.3192%	0.3125%	0.3367%	4.2200%	4.1775%	0.7533%	2.55%	3.24%	3.75%		-0.69%	-1.20%	21.70%	4.04%	17.66%
Aug-58	1.7600%	-0.6700%	0.2700%	0.3208%	0.3317%	0.3263%	0.3575%	1.4900%	1.4338%	-1.0275%	9.90%	3.24%	3.92%		6.66%	5.99%	24.55%	4.29%	20.26%
Sep-58	5.0100%	3.3200%	0.3200%	0.3408%	0.3500%	0.3454%	0.3792%	4.6900%	4.6646%	2.9408%	22.80%	3.84%	4.15%		18.96%	18.65%	30.48%	4.55%	25.93%
Oct-58	2.7000%	4.0600%	0.3200%	0.3425%	0.3508%	0.3467%	0.3800%	2.3800%	2.3533%	3.6800%	30.04%	3.84%	4.16%		26.20%	25.88%	36.79%	4.56%	32.23%
Nov-58	2.8400%	2.6300%	0.2800%	0.3408%	0.3508%	0.3458%	0.3725%	2.5600%	2.4942%	2.2575%	30.72%	3.36%	4.15%		27.36%	26.57%	34.63%	4.47%	30.16%
Dec-58	5.3500%	6.5500%	0.3300%	0.3400%	0.3483%	0.3442%	0.3742%	5.0200%	5.0058%	6.1758%	43.37%	3.96%	4.13%		39.41%	39.24%	40.70%	4.49%	36.21%
Jan-59	0.5300%	1.3400%	0.3100%	0.3433%	0.3517%	0.3475%	0.3767%	0.2200%	0.1825%	0.9633%	37.99%	3.72%	4.17%		34.27%	33.82%	34.49%	4.52%	29.97%
Feb-59	0.4900%	2.0600%	0.3100%	0.3450%	0.3533%	0.3492%	0.3750%	0.1800%	0.1408%	1.6850%	40.65%	3.72%	4.19%		36.93%	36.46%	35.41%	4.50%	30.91%
Mar-59	0.2000%	1.0200%	0.3500%	0.3442%	0.3525%	0.3483%	0.3725%	-0.1500%	-0.1483%	0.6475%	36.46%	4.20%	4.18%		32.26%	32.28%	34.11%	4.47%	29.64%
Apr-59	4.0200%	-0.2800%	0.3300%	0.3525%	0.3600%	0.3563%	0.3800%	3.6900%	3.6638%	-0.6600%	37.31%	3.96%	4.28%		33.35%	33.04%	27.17%	4.56%	22.61%
May-59	2.4000%	-1.2000%	0.3300%	0.3642%	0.3717%	0.3679%	0.3975%	2.0700%	2.0321%	-1.5975%	37.69%	3.96%	4.42%		33.73%	33.28%	23.62%	4.77%	18.85%
Jun-59	-0.2200%	-0.8800%	0.3600%	0.3717%	0.3800%	0.3758%	0.4050%	-0.5800%	-0.5958%	-1.2850%	33.66%	4.32%	4.51%		29.34%	29.15%	20.46%	4.86%	15.60%
Jul-59	3.6300%	3.7100%	0.3500%	0.3725%	0.3817%	0.3771%	0.4067%	3.2800%	3.2529%	3.3033%	32.56%	4.20%	4.53%		28.36%	28.03%	23.58%	4.88%	18.70%
Aug-59	-1.0200%	1.7500%	0.3500%	0.3692%	0.3817%	0.3754%	0.4075%	-1.3700%	-1.3954%	1.3425%	28.94%	4.20%	4.51%		24.74%	24.43%	26.59%	4.89%	21.70%
Sep-59	-4.4300%	-3.9300%	0.3400%	0.3767%	0.3908%	0.3838%	0.4192%	-4.7700%	-4.8138%	-4.3492%	17.35%	4.08%	4.61%		13.27%	12.74%	17.71%	5.03%	12.68%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPSPA	Mkt Annlized Return	RF Annualized Yield	AAAAA Annualized Yield	MRP RP	AAAAA RP	S&P U Annulized Yield	A Annualized Yield	SPA RP
Oct-59	1.2800%	1.5700%	0.3500%	0.3808%	0.3967%	0.3888%	0.4133%	0.9300%	0.8913%	1.1567%	15.72%	4.20%	4.67%		11.52%	11.06%	14.89%	4.96%	9.93%
Nov-59	1.8600%	0.0100%	0.3500%	0.3800%	0.3917%	0.3858%	0.4083%	1.5100%	1.4742%	-0.3983%	14.62%	4.20%	4.63%		10.42%	9.99%	11.96%	4.90%	7.06%
Dec-59	2.9200%	2.3000%	0.3600%	0.3817%	0.3950%	0.3883%	0.4133%	2.5600%	2.5317%	1.8867%	11.98%	4.32%	4.66%		7.66%	7.32%	7.49%	4.96%	2.53%
Jan-60	-7.0000%	-1.0800%	0.3500%	0.3842%	0.3975%	0.3908%	0.4183%	-7.3500%	-7.3908%	-1.4983%	3.59%	4.20%	4.69%		-0.61%	-1.10%	4.92%	5.02%	-0.10%
Feb-60	1.4700%	1.8100%	0.3700%	0.3800%	0.3925%	0.3863%	0.4167%	1.1000%	1.0838%	1.3933%	4.60%	4.44%	4.64%		0.16%	-0.04%	4.67%	5.00%	-0.33%
Mar-60	-1.2300%	1.4100%	0.3600%	0.3742%	0.3850%	0.3796%	0.4092%	-1.5900%	-1.6096%	1.0008%	3.11%	4.32%	4.56%		-1.21%	-1.45%	5.07%	4.91%	0.16%
Apr-60	-1.6100%	0.7500%	0.3200%	0.3708%	0.3817%	0.3763%	0.3992%	-1.9300%	-1.9863%	0.3508%	-2.47%	3.84%	4.52%		-6.31%	-6.99%	6.16%	4.79%	1.37%
May-60	3.2600%	2.3300%	0.3700%	0.3717%	0.3842%	0.3779%	0.4050%	2.8900%	2.8821%	1.9250%	-1.65%	4.44%	4.54%		-6.09%	-6.19%	9.95%	4.86%	5.09%
Jun-60	2.1100%	4.0800%	0.3400%	0.3708%	0.3833%	0.3771%	0.4033%	1.7700%	1.7329%	3.6767%	0.64%	4.08%	4.53%		-3.44%	-3.88%	15.45%	4.84%	10.61%
Jul-60	-2.3400%	-1.0000%	0.3200%	0.3675%	0.3800%	0.3738%	0.3992%	-2.6600%	-2.7138%	-1.3992%	-5.16%	3.84%	4.49%		-9.00%	-9.64%	10.21%	4.79%	5.42%
Aug-60	3.1700%	5.0200%	0.3400%	0.3567%	0.3700%	0.3633%	0.3867%	2.8300%	2.8067%	4.6333%	-1.14%	4.08%	4.36%		-5.22%	-5.50%	13.75%	4.64%	9.11%
Sep-60	-5.9000%	-5.1400%	0.3200%	0.3542%	0.3675%	0.3608%	0.3808%	-6.2200%	-6.2608%	-5.5208%	-2.66%	3.84%	4.33%		-6.50%	-6.99%	12.32%	4.57%	7.75%
Oct-60	-0.0700%	-0.1200%	0.3300%	0.3583%	0.3700%	0.3642%	0.3842%	-0.4000%	-0.4342%	-0.5042%	-3.96%	3.96%	4.37%		-7.92%	-8.33%	10.45%	4.61%	5.84%
Nov-60	4.6500%	3.8600%	0.3200%	0.3592%	0.3725%	0.3658%	0.3851%	4.3300%	4.2842%	3.4749%	-1.33%	3.84%	4.39%		-5.17%	-5.72%	14.70%	4.62%	10.08%
Dec-60	4.7900%	7.2400%	0.3300%	0.3625%	0.3750%	0.3688%	0.3875%	4.4600%	4.4213%	6.8525%	0.46%	3.96%	4.43%		-3.50%	-3.96%	20.24%	4.65%	15.59%
Jan-61	6.4500%	6.1900%	0.3300%	0.3600%	0.3733%	0.3667%	0.3867%	6.1200%	6.0833%	5.8033%	14.99%	3.96%	4.40%		11.03%	10.59%	29.08%	4.64%	24.44%
Feb-61	3.1900%	3.5700%	0.3000%	0.3558%	0.3667%	0.3613%	0.3825%	2.8900%	2.8288%	3.1875%	16.94%	3.60%	4.34%		13.34%	12.61%	31.31%	4.59%	26.72%
Mar-61	2.7000%	3.1900%	0.3100%	0.3517%	0.3608%	0.3563%	0.3733%	2.3900%	2.3438%	2.8167%	21.60%	3.72%	4.28%		17.88%	17.32%	33.61%	4.48%	29.13%
Apr-61	0.5100%	1.0900%	0.3100%	0.3542%	0.3642%	0.3592%	0.3733%	0.2000%	0.1508%	0.7167%	24.22%	3.72%	4.31%		20.50%	19.91%	34.06%	4.48%	29.58%
May-61	2.3900%	1.3300%	0.3400%	0.3558%	0.3675%	0.3617%	0.3767%	2.0500%	2.0283%	0.9533%	23.17%	4.08%	4.34%		19.09%	18.83%	32.75%	4.52%	28.23%
Jun-61	-2.7500%	-2.2700%	0.3200%	0.3608%	0.3708%	0.3658%	0.3808%	-3.0700%	-3.1158%	-2.6508%	17.31%	3.84%	4.39%		13.47%	12.92%	24.65%	4.57%	20.08%
Jul-61	3.4200%	4.2400%	0.3300%	0.3675%	0.3775%	0.3725%	0.3875%	3.0900%	3.0475%	3.8525%	24.23%	3.96%	4.47%		20.27%	19.76%	31.25%	4.65%	26.60%
Aug-61	2.4300%	4.5400%	0.3300%	0.3708%	0.3808%	0.3758%	0.3942%	2.1000%	2.0542%	4.1458%	23.34%	3.96%	4.51%		19.38%	18.83%	30.65%	4.73%	25.92%
Sep-61	-1.8400%	-0.6700%	0.3200%	0.3708%	0.3825%	0.3767%	0.3942%	-2.1600%	-2.2167%	-1.0642%	28.66%	3.84%	4.52%		24.82%	24.14%	36.81%	4.73%	32.08%
Oct-61	2.9800%	4.8000%	0.3400%	0.3683%	0.3800%	0.3742%	0.3925%	2.6400%	2.6058%	4.4075%	32.58%	4.08%	4.49%		28.50%	28.09%	43.55%	4.71%	38.84%
Nov-61	4.4700%	3.3500%	0.3200%	0.3658%	0.3783%	0.3721%	0.3900%	4.1500%	4.0979%	2.9600%	32.36%	3.84%	4.47%		28.52%	27.89%	42.84%	4.68%	38.16%
Dec-61	0.4600%	-2.9200%	0.3100%	0.3683%	0.3800%	0.3742%	0.3875%	0.1500%	0.0858%	-3.3075%	26.89%	3.72%	4.49%		23.17%	22.40%	29.31%	4.65%	24.66%
Jan-62	-3.6600%	-3.6600%	0.3700%	0.3683%	0.3792%	0.3738%	0.3875%	-4.0300%	-4.0338%	-4.0475%	14.84%	4.44%	4.49%		10.40%	10.35%	17.31%	4.65%	12.66%
Feb-62	2.0900%	3.0000%	0.3200%	0.3683%	0.3800%	0.3742%	0.3883%	1.7700%	1.7158%	2.6117%	13.61%	3.84%	4.49%		9.77%	9.12%	16.67%	4.66%	12.01%
Mar-62	-0.4600%	0.8100%	0.3300%	0.3658%	0.3775%	0.3717%	0.3867%	-0.7900%	-0.8317%	0.4233%	10.12%	3.96%	4.46%		6.16%	5.66%	13.98%	4.64%	9.34%
Apr-62	-6.0700%	-3.5300%	0.3300%	0.3608%	0.3742%	0.3675%	0.3825%	-6.4000%	-6.4375%	-3.9125%	2.91%	3.96%	4.41%		-1.05%	-1.50%	8.77%	4.59%	4.18%
May-62	-8.1100%	-9.1200%	0.3200%	0.3567%	0.3692%	0.3629%	0.3758%	-8.4300%	-8.4729%	-9.4958%	-7.65%	3.84%	4.36%		-11.49%	-12.00%	-2.45%	4.51%	-6.96%
Jun-62	-8.0300%	-5.4800%	0.3000%	0.3567%	0.3700%	0.3633%	0.3733%	-8.3300%	-8.3933%	-5.8533%	-12.66%	3.60%	4.36%		-16.26%	-17.02%	-5.65%	4.48%	-10.13%
Jul-62	6.5200%	6.8900%	0.3400%	0.3617%	0.3742%	0.3679%	0.3750%	6.1800%	6.1521%	6.5150%	-10.04%	4.08%	4.42%		-14.12%	-14.46%	-3.25%	4.50%	-7.75%
Aug-62	2.0800%	2.7100%	0.3400%	0.3625%	0.3742%	0.3683%	0.3775%	1.7400%	1.7117%	2.3325%	-10.35%	4.08%	4.42%		-14.43%	-14.77%	-4.95%	4.53%	-9.48%
Sep-62	-4.6500%	-3.3400%	0.3000%	0.3600%	0.3717%	0.3658%	0.3758%	-4.9500%	-5.0158%	-3.7158%	-12.92%	3.60%	4.39%		-16.52%	-17.31%	-7.50%	4.51%	-12.01%
Oct-62	0.6400%	-0.1400%	0.3500%	0.3567%	0.3675%	0.3621%	0.3742%	0.2900%	0.2779%	-0.5142%	-14.90%	4.20%	4.35%		-19.10%	-19.24%	-11.86%	4.49%	-16.35%
Nov-62	10.8600%	7.6800%	0.3100%	0.3542%	0.3667%	0.3604%	0.3708%	10.5500%	10.4996%	7.3092%	-9.69%	3.72%	4.33%		-13.41%	-14.01%	-8.17%	4.45%	-12.62%
Dec-62	1.5300%	3.1200%	0.3200%	0.3533%	0.3650%	0.3592%	0.3700%	1.2100%	1.1708%	2.7500%	-8.73%	3.84%	4.31%		-12.57%	-13.04%	-2.46%	4.44%	-6.90%
Jan-63	5.0600%	5.5800%	0.3200%	0.3508%	0.3642%	0.3575%	0.3658%	4.7400%	4.7025%	5.2142%	-0.47%	3.84%	4.29%		-4.31%	-4.76%	6.90%	4.39%	2.51%
Feb-63	-2.3900%	-2.0600%	0.2900%	0.3492%	0.3633%	0.3563%	0.3642%	-2.6800%	-2.7463%	-2.4242%	-4.83%	3.48%	4.28%		-8.31%	-9.11%	1.65%	4.37%	-2.72%
Mar-63	3.7000%	1.8600%	0.3100%	0.3492%	0.3617%	0.3554%	0.3642%	3.3900%	3.3446%	1.4958%	-0.86%	3.72%	4.27%		-4.58%	-5.12%	2.71%	4.37%	-1.66%
Apr-63	5.0000%	2.3200%	0.3400%	0.3508%	0.3625%	0.3567%	0.3642%	4.6600%	4.6433%	1.9558%	10.83%	4.08%	4.28%		6.75%	6.55%	8.93%	4.37%	4.56%
May-63	1.9300%	0.7000%	0.3300%	0.3517%	0.3633%	0.3575%	0.3642%	1.6000%	1.5725%	0.3358%	22.94%	3.96%	4.29%		18.98%	18.65%	20.70%	4.37%	16.33%
Jun-63	-1.8800%	-1.2300%	0.3000%	0.3525%	0.3633%	0.3579%	0.3642%	-2.1800%	-2.2379%	-1.5942%	31.16%	3.60%	4.30%		27.56%	26.86%	26.13%	4.37%	21.76%
Jul-63	-0.2200%	1.2300%	0.3600%	0.3550%	0.3658%	0.3604%	0.3658%	-0.5800%	-0.5804%	0.8642%	22.86%	4.32%	4.33%		18.54%	18.53%	19.45%	4.39%	15.06%
Aug-63	5.3500%	4.2500%	0.3300%	0.3575%	0.3667%	0.3621%	0.3650%	5.0200%	4.9879%	3.8850%	26.79%	3.96%	4.35%		22.83%	22.45%	21.24%	4.38%	16.86%
Sep-63	-0.9700%	-2.5800%	0.3400%	0.3592%	0.3675%	0.3633%	0.3667%	-1.3100%	-1.3333%	-2.9467%	31.69%	4.08%	4.36%		27.61%	27.33%	22.20%	4.40%	17.80%
Oct-63	3.3900%	-0.3300%	0.3400%	0.3600%	0.3692%	0.3646%	0.3675%	3.0500%	3.0254%	-0.6975%	35.29%	4.08%	4.38%		31.21%	30.91%	21.97%	4.41%	17.56%
Nov-63	-0.4600%	-0.8200%	0.3200%	0.3608%	0.3700%	0.3654%	0.3683%	-0.7800%	-0.8254%	-1.1883%	21.47%	3.84%	4.39%		17.63%	17.09%	12.34%	4.42%	7.92%
Dec-63	2.6200%	3.1700%	0.3600%	0.3625%	0.3717%	0.3671%	0.3717%	2.2600%	2.2529%	2.7983%	22.78%	4.32%	4.41%		18.46%	18.37%	12.39%	4.46%	7.93%
Jan-64	2.8300%	1.2700%	0.3500%	0.3642%	0.3742%	0.3692%	0.3742%	2.4800%	2.4608%	0.8958%	20.17%	4.20%	4.43%		15.97%	15.74%	7.80%	4.49%	3.31%
Feb-64	1.4700%	0.3200%	0.3200%	0.3633%	0.3717%	0.3675%	0.3750%	1.1500%	1.1025%	-0.0550%	24.92%	3.84%	4.41%		21.08%	20.51%	10.42%	4.50%	5.92%
Mar-64	1.6500%	-0.3500%	0.3700%	0.3650%	0.3725%	0.3688%	0.3758%	1.2800%	1.2813%	-0.7258%	22.45%	4.44%	4.43%		18.01%	18.03%	8.03%	4.51%	3.52%
Apr-64	0.7500%	0.6700%	0.3500%	0.3667%	0.3742%	0.3704%	0.3767%	0.4000%	0.3796%	0.2933%	17.50%	4.20%	4.45%		13.30%	13.05%	6.29%	4.52%	1.77%
May-64	1.6200%	0.3200%	0.3200%	0.3675%	0.3750%	0.3713%	0.3775%	1.3000%	1.2488%	-0.0575%	17.14%	3.84%	4.46%		13.30%	12.68%	5.88%	4.53%	1.35%
Jun-64	1.7800%	2.3400%	0.3800%	0.3675%	0.3758%	0.3717%	0.3792%	1.4000%	1.4083%	1.9608%	21.51%	4.56%	4.46%		16.95%	17.05%	9.71%	4.55%	5.16%
Jul-64	1.9500%	4.7100%	0.3500%	0.3667%	0.3750%	0.3708%	0.3783%	1.6000%	1.5792%	4.3317%	24.15%	4.20%	4.45%		19.95%	19.70%	13.48%	4.54%	8.94%
Aug-64	-1.1800%	0.3100%	0.3500%	0.3675%	0.3742%	0.3708%	0.3783%	-1.5300%	-1.5508%	-0.0683%	16.46%	4.20%	4.45%		12.26%	12.01%	9.19%	4.54%	4.65%
Sep-64	3.0100%	1.7000%	0.3400%	0.3683%	0.3733%	0.3708%	0.3775%	2.6700%	2.6392%	1.3225%	21.14%	4.08%	4.45%		17.06%	16.69%	13.99%	4.53%	9.46%
Oct-64	0.9600%	1.6500%	0.3400%	0.3683%	0.3742%	0.3713%	0.3758%	0.6200%	0.5888%	1.2742%	18.29%	4.08%	4.46%		14.21%	13.83%	16.26%	4.51%	11.75%
Nov-64	0.0500%	1.1400%	0.3500%	0.3692%	0.3742%	0.3717%	0.3775%	-0.3000%	-0.3217%	0.7625%	18.89%	4.20%	4.46%		14.69%	14.43%	18.55%	4.53%	14.02%
Dec-64	0.5600%	0.8600%	0.3500%	0.3700%	0.3750%	0.3725%	0.3783%	0.2100%	0.1875%	0.4817%	16.51%	4.20%	4.47%		12.31%	12.04%	15.90%	4.54%	11.36%
Jan-65	3.4500%	3.7100%	0.3300%	0.3692%	0.3733%	0.3713%	0.3775%	3.1200%	3.0788%	3.3325%	17.21%	3.96%	4.46%		13.25%	12.76%	18.69%	4.53%	14.16%
Feb-65	0.3100%	0.0900%	0.3200%	0.3675%	0.3717%	0.3696%	0.3758%	-0.0100%	-0.0596%	-0.2858%	15.87%	3.84%	4.44%		12.03%	11.44%	18.42%	4.51%	13.91%
Mar-65	-1.3300%	0.0700%	0.3800%	0.3683%	0.3733%	0.3708%	0.3750%	-1.7100%	-1.7008%	-0.3050%	12.47%	4.56%	4.45%		7.91%	8.02%	18.92%	4.50%	14.42%
Apr-65	3.5600%	1.0900%	0.3300%	0.3692%	0.3733%	0.3713%	0.3742%	3.2300%	3.1888%	0.7158%	15.61%	3.96%	4.46%		11.65%	11.16%	19.42%	4.49%	14.93%
May-65	-0.3000%	-0.8400%	0.3300%	0.3700%	0.3742%	0.3721%	0.3750%	-0.6300%	-0.6721%	-1.2150%	13.43%	3.96%	4.47%		9.47%	8.96%	18.03%	4.50%	13.53%
Jun-65	-4.7300%	-3.4000%	0.3800%	0.3717%	0.3767%	0.3742%	0.3767%	-5.1100%	-5.1042%	-3.7767%	6.17%	4.56%	4.49%		1.61%	1.68%	11.41%	4.52%	6.89%
Jul-65	1.4700%	1.0500%	0.3400%	0.3733%	0.3800%	0.3767%	0.3783%	1.1300%	1.0933%	0.6717%	5.67%	4.08%	4.52%		1.59%	1.15%	7.52%	4.54%	2.98%
Aug-65	2.7200%	0.9700%	0.3700%	0.3742%	0.3825%	0.3783%	0.3817%	2.3500%	2.3417%	0.5883%	9.84%	4.44%	4.54%		5.40%	5.30%	8.23%	4.58%	3.65%
Sep-65	3.3400%	1.9400%	0.3500%	0.3767%	0.3858%	0.3813%	0.3858%	2.9900%	2.9588%	1.5542%	10.19%	4.20%	4.58%		5.99%	5.62%	8.48%	4.63%	3.85%
Oct-65	2.8900%	1.2900%	0.3400%	0.3800%	0.3883%	0.3842%	0.3883%	2.5500%	2.5058%	0.9017%	12.30%	4.08%	4.61%		8.22%	7.69%	8.10%	4.66%	3.44%
Nov-65	-0.3100%	-1.1600%	0.3700%	0.3833%	0.3908%	0.3871%	0.3925%	-0.6800%	-0.6971%	-1.5525%	11.90%	4.44%	4.65%		7.46%	7.25%	5.64%	4.71%	0.93%
Dec-65	1.0600%	-0.0800%	0.3700%	0.3900%	0.4000%	0.3950%	0.4025%	0.6900%	0.6650%	-0.4825%	12.45%	4.44%	4.74%		8.01%	7.71%	4.66%	4.83%	-0.17%
Jan-66	0.6200%	-2.9700%	0.3800%	0.3950%	0.4025%	0.3988%	0.4050%	0.2400%	0.2213%	-3.3750%	9.38%	4.56%	4.79%		4.82%	4.59%	-2.09%	4.86%	-6.95%
Feb-66	-1.3100%	-4.1400%	0.3400%	0.3983%	0.4083%	0.4033%	0.4100%	-1.6500%	-1.7133%	-4.5500%	7.61%	4.08%	4.84%		3.53%	2.77%	-6.22%	4.92%	-11.14%
Mar-66	-2.0500%	-0.4500%	0.4000%	0.4100%	0.4208%	0.4154%	0.4283%	-2.4500%	-2.4654%	-0.8783%	6.82%	4.80%	4.99%		2.02%	1.84%	-6.71%	5.14%	-11.85%
Apr-66	2.2000%	1.7200%	0.3600%	0.4108%	0.4250%	0.4179%	0.4375%	1.8400%	1.7821%	1.2825%	5.42%	4.32%	5.02%		1.10%	0.41%	-6.13%	5.25%	-11.38%
May-66	-4.9200%	-2.9600%	0.4100%	0.4150%	0.4250%	0.4200%	0.4375%	-5.3300%	-5.3400%	-3.3975%	0.54%	4.92%	5.04%		-4.38%	-4.50%	-8.14%	5.25%	-13.39%
Jun-66	-1.4600%	-1.8100%	0.3900%	0.4225%	0.4300%	0.4263%	0.4500%	-1.8500%	-1.8863%	-2.2600%	3.99%	4.68%	5.12%		-0.69%	-1.13%	-6.62%	5.40%	-12.02%
Jul-66	-1.2000%	0.0900%	0.3800%	0.4300%	0.4375%	0.4338%	0.4542%	-1.5800%	-1.6338%	-0.3642%	1.25%	4.56%	5.21%		-3.31%	-3.95%	-7.51%	5.45%	-12.96%
Aug-66	-7.2500%	-8.7500%	0.4300%	0.4425%	0.4483%	0.4454%	0.4650%	-7.6800%	-7.6954%	-9.2150%	-8.58%	5.16%	5.35%		-13.74%	-13.92%	-16.41%	5.58%	-21.99%
Sep-66	-0.5300%	4.7500%	0.4100%	0.4575%	0.4650%	0.4613%	0.4842%	-0.9400%	-0.9913%	4.2658%	-12.00%	4.92%	5.54%		-16.92%	-17.54%	-14.11%	5.81%	-19.92%
Oct-66	4.9400%	9.7000%	0.4000%	0.4508%	0.4583%	0.4546%	0.4783%	4.5400%	4.4854%	9.2217%	-10.25%	4.80%	5.46%		-15.05%	-15.70%	-6.98%	5.74%	-12.72%
Nov-66	0.9500%	-0.7600%	0.3800%	0.4458%	0.4550%	0.4504%	0.4692%	0.5700%	0.4996%	-1.2292%	-9.11%	4.56%	5.41%		-13.67%	-14.52%	-6.60%	5.63%	-12.23%
Dec-66	0.0200%	2.2100%	0.3900%	0.4492%	0.4567%	0.4529%	0.4725%	-0.3700%	-0.4329%	1.7375%	-10.05%	4.68%	5.44%		-14.73%	-15.48%	-4.46%	5.67%	-10.13%
Jan-67	7.9800%	2.7100%	0.4000%	0.4333%	0.4417%	0.4375%	0.4550%	7.5800%	7.5425%	2.2550%	-3.47%	4.80%	5.25%		-8.27%	-8.72%	1.13%	5.46%	-4.33%
Feb-67	0.7200%	-1.5700%	0.3400%	0.4192%	0.4317%	0.4254%	0.4400%	0.3800%	0.2946%	-2.0100%	-1.48%	4.08%	5.11%		-5.56%	-6.59%	3.84%	5.28%	-1.44%
Mar-67	4.0900%	1.9700%	0.3900%	0.4275%	0.4358%	0.4317%	0.4533%	3.7000%	3.6583%	1.5167%	4.69%	4.68%	5.18%		0.01%	-0.49%	6.37%	5.44%	0.93%
Apr-67	4.3700%	2.0200%	0.3500%	0.4258%	0.4383%	0.4321%	0.4517%	4.0200%	3.9379%	1.5683%	6.92%	4.20%	5.19%		2.72%	1.73%	6.68%	5.42%	1.26%
May-67	-4.7700%	-5.0600%	0.4300%	0.4367%	0.4517%	0.4442%	0.4717%	-5.2000%	-5.2142%	-5.5317%	7.08%	5.16%	5.33%		1.92%	1.75%	4.37%	5.66%	-1.29%
Jun-67	1.9000%	-1.3100%	0.3900%	0.4533%	0.4692%	0.4613%	0.4867%	1.5100%	1.4388%	-1.7967%	10.74%	4.68%	5.54%		6.06%	5.20%	4.90%	5.84%	-0.94%
Jul-67	4.6800%	2.0400%	0.4300%	0.4650%	0.4767%	0.4708%	0.4950%	4.2500%	4.2092%	1.5450%	17.33%	5.16%	5.65%		12.17%	11.68%	6.95%	5.94%	1.01%
Aug-67	-0.7000%	-0.6500%	0.4200%	0.4683%	0.4800%	0.4742%	0.4967%	-1.1200%	-1.1742%	-1.1467%	25.61%	5.04%	5.69%		20.57%	19.92%	16.44%	5.96%	10.48%
Sep-67	3.4200%	-0.3700%	0.4000%	0.4708%	0.4892%	0.4800%	0.5042%	3.0200%	2.9400%	-0.8742%	30.60%	4.80%	5.76%		25.80%	24.84%	10.75%	6.05%	4.70%
Oct-67	-2.7600%	-5.7200%	0.4500%	0.4850%	0.5008%	0.4929%	0.5150%	-3.2100%	-3.2529%	-6.2350%	21.02%	5.40%	5.92%		15.62%	15.10%	-4.82%	6.18%	-11.00%
Nov-67	0.6500%	2.9300%	0.4500%	0.5058%	0.5192%	0.5125%	0.5400%	0.2000%	0.1375%	2.3900%	20.66%	5.40%	6.15%		15.26%	14.51%	-1.28%	6.48%	-7.76%
Dec-67	2.7800%	2.8600%	0.4400%	0.5158%	0.5292%	0.5225%	0.5558%	2.3400%	2.2575%	2.3042%	23.99%	5.28%	6.27%		18.71%	17.72%	-0.65%	6.67%	-7.32%
Jan-68	-4.2500%	0.8200%	0.5000%	0.5142%	0.5242%	0.5192%	0.5450%	-4.7500%	-4.7692%	0.2750%	9.94%	6.00%	6.23%		3.94%	3.71%	-2.48%	6.54%	-9.02%
Feb-68	-2.6100%	-2.3300%	0.4200%	0.5083%	0.5225%	0.5154%	0.5308%	-3.0300%	-3.1254%	-2.8608%	6.31%	5.04%	6.19%		1.27%	0.12%	-3.23%	6.37%	-9.60%
Mar-68	1.1000%	-3.9900%	0.4300%	0.5092%	0.5233%	0.5163%	0.5342%	0.6700%	0.5838%	-4.5242%	3.26%	5.16%	6.20%		-1.90%	-2.94%	-8.89%	6.41%	-15.30%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPSPA	Mkt Annlized Return	RF Annualized Yield	AAAAA Annualized Yield	MRP RP	AAAAA RP	S&P U Annulized Yield	A Annualized Yield	SPA RP
Apr-68	8.3400%	2.7500%	0.4900%	0.5175%	0.5317%	0.5246%	0.5483%	7.8500%	7.8154%	2.2017%	7.18%	5.88%	6.30%	1.30%	0.89%	-8.24%	6.58%	-14.82%
May-68	1.6100%	-0.6200%	0.4600%	0.5225%	0.5400%	0.5313%	0.5517%	1.1500%	1.0788%	-1.1717%	14.36%	5.52%	6.38%	8.84%	7.99%	-3.95%	6.62%	-10.57%
Jun-68	1.0500%	8.0700%	0.4200%	0.5233%	0.5417%	0.5325%	0.5517%	0.6300%	0.5175%	7.5183%	13.41%	5.04%	6.39%	8.37%	7.02%	5.18%	6.62%	-1.44%
Jul-68	-1.7200%	-0.7000%	0.4800%	0.5200%	0.5375%	0.5288%	0.5442%	-2.2000%	-2.2488%	-1.2442%	6.48%	5.76%	6.35%	0.72%	0.13%	2.36%	6.53%	-4.17%
Aug-68	1.6400%	0.0400%	0.4200%	0.5017%	0.5208%	0.5113%	0.5225%	1.2200%	1.1288%	-0.4825%	8.99%	5.04%	6.14%	3.95%	2.85%	3.07%	6.27%	-3.20%
Sep-68	4.0000%	1.0000%	0.4400%	0.4975%	0.5192%	0.5083%	0.5225%	3.5600%	3.4917%	0.4775%	9.60%	5.28%	6.10%	4.32%	3.50%	4.49%	6.27%	-1.78%
Oct-68	0.8700%	0.8600%	0.4500%	0.5075%	0.5267%	0.5171%	0.5333%	0.4200%	0.3529%	0.3267%	13.69%	5.40%	6.21%	8.29%	7.48%	11.78%	6.40%	5.38%
Nov-68	5.3100%	7.8100%	0.4300%	0.5158%	0.5375%	0.5267%	0.5492%	4.8800%	4.7833%	7.2608%	18.95%	5.16%	6.32%	13.79%	12.63%	17.08%	6.59%	10.49%
Dec-68	-4.0200%	-3.0900%	0.4900%	0.5375%	0.5550%	0.5463%	0.5725%	-4.5100%	-4.5663%	-3.6625%	11.08%	5.88%	6.56%	5.20%	4.53%	10.31%	6.87%	3.44%
Jan-69	-0.6800%	1.6900%	0.5000%	0.5492%	0.5608%	0.5550%	0.5867%	-1.1800%	-1.2350%	1.1033%	15.22%	6.00%	6.66%	9.22%	8.56%	11.26%	7.04%	4.22%
Feb-69	-4.2600%	-5.3200%	0.4600%	0.5550%	0.5642%	0.5596%	0.5942%	-4.7200%	-4.8196%	-5.9142%	13.27%	5.52%	6.72%	7.75%	6.56%	7.85%	7.13%	0.72%
Mar-69	3.5900%	-0.9600%	0.4700%	0.5708%	0.5792%	0.5750%	0.6058%	3.1200%	3.0150%	-1.5658%	16.06%	5.64%	6.90%	10.42%	9.16%	11.26%	7.27%	3.99%
Apr-69	2.2900%	1.3900%	0.5500%	0.5742%	0.5850%	0.5796%	0.6083%	1.7400%	1.7104%	0.7817%	9.58%	6.60%	6.96%	2.98%	2.62%	9.78%	7.30%	2.48%
May-69	0.2600%	-0.0600%	0.4700%	0.5658%	0.5800%	0.5729%	0.5967%	-0.2100%	-0.3129%	-0.6567%	8.12%	5.64%	6.88%	2.48%	1.25%	10.40%	7.16%	3.24%
Jun-69	-5.4200%	-5.1600%	0.5500%	0.5817%	0.5933%	0.5875%	0.6175%	-5.9700%	-6.0075%	-5.7775%	1.20%	6.60%	7.05%	-5.40%	-5.85%	-3.11%	7.41%	-10.52%
Jul-69	-5.8700%	-3.6300%	0.5200%	0.5900%	0.6033%	0.5967%	0.6267%	-6.3900%	-6.4667%	-4.2567%	-3.07%	6.24%	7.16%	-9.31%	-10.23%	-5.97%	7.52%	-13.49%
Aug-69	4.5400%	-1.1400%	0.4800%	0.5808%	0.6025%	0.5917%	0.6200%	4.0600%	3.9483%	-1.7600%	-0.31%	5.76%	7.10%	-6.07%	-7.41%	-7.08%	7.44%	-14.52%
Sep-69	-2.3600%	-3.7200%	0.5500%	0.5950%	0.6133%	0.6042%	0.6358%	-2.9100%	-2.9642%	-4.3558%	-6.40%	6.60%	7.25%	-13.00%	-13.65%	-11.42%	7.63%	-19.05%
Oct-69	4.5900%	7.9800%	0.5700%	0.6108%	0.6275%	0.6192%	0.6683%	4.0200%	3.9708%	7.3117%	-2.95%	6.84%	7.43%	-9.79%	-10.38%	-5.17%	8.02%	-13.19%
Nov-69	-2.9700%	-5.8800%	0.4900%	0.6125%	0.6317%	0.6221%	0.6667%	-3.4600%	-3.5921%	-6.5467%	-10.58%	5.88%	7.47%	-16.46%	-18.05%	-17.21%	8.00%	-25.21%
Dec-69	-1.7700%	-0.9700%	0.6000%	0.6433%	0.6608%	0.6521%	0.7158%	-2.3700%	-2.4221%	-1.6858%	-8.49%	7.20%	7.83%	-15.69%	-16.31%	-15.40%	8.59%	-23.99%
Jan-70	-7.4300%	-4.5300%	0.5600%	0.6592%	0.6792%	0.6692%	0.7242%	-7.9900%	-8.0992%	-5.2542%	-14.71%	6.72%	8.03%	-21.43%	-22.74%	-20.58%	8.69%	-29.27%
Feb-70	5.5800%	10.5300%	0.5200%	0.6608%	0.6775%	0.6692%	0.7092%	5.0600%	4.9108%	9.8208%	-5.94%	6.24%	8.03%	-12.18%	-13.97%	-7.28%	8.51%	-15.79%
Mar-70	0.4400%	2.3200%	0.5600%	0.6533%	0.6717%	0.6625%	0.6925%	-0.1200%	-0.2225%	1.6275%	-8.80%	6.72%	7.95%	-15.52%	-16.75%	-4.21%	8.31%	-12.52%
Apr-70	-8.7500%	-9.2900%	0.5400%	0.6525%	0.6692%	0.6608%	0.6925%	-9.2900%	-9.4108%	-9.9825%	-18.64%	6.48%	7.93%	-25.12%	-26.57%	-14.30%	8.31%	-22.61%
May-70	-5.7800%	-5.1500%	0.5500%	0.6758%	0.6867%	0.6813%	0.7225%	-6.3300%	-6.4613%	-5.8725%	-23.54%	6.60%	8.18%	-30.14%	-31.72%	-18.66%	8.67%	-27.33%
Jun-70	-4.6600%	-5.8200%	0.6400%	0.7067%	0.7150%	0.7108%	0.7533%	-5.3000%	-5.3708%	-6.5733%	-22.93%	7.68%	8.53%	-30.61%	-31.46%	-19.23%	9.04%	-28.27%
Jul-70	7.6900%	9.7300%	0.5900%	0.7033%	0.7200%	0.7117%	0.7550%	7.1000%	6.9783%	8.9750%	-11.83%	7.08%	8.54%	-18.91%	-20.37%	-8.03%	9.06%	-17.09%
Aug-70	4.7800%	5.8100%	0.5700%	0.6775%	0.7075%	0.6925%	0.7400%	4.2100%	4.0875%	5.0700%	-11.62%	6.84%	8.31%	-18.46%	-19.93%	-1.57%	8.88%	-10.45%
Sep-70	3.6200%	-1.1400%	0.5600%	0.6742%	0.7058%	0.6900%	0.7350%	3.0600%	2.9300%	-1.8750%	-6.21%	6.72%	8.28%	-12.93%	-14.49%	1.07%	8.82%	-7.75%
Oct-70	-0.8300%	-1.4900%	0.5500%	0.6692%	0.7033%	0.6863%	0.7300%	-1.3800%	-1.5163%	-2.2200%	-11.07%	6.60%	8.24%	-17.67%	-19.31%	-7.79%	8.76%	-16.55%
Nov-70	5.0600%	9.7500%	0.5800%	0.6708%	0.7017%	0.6863%	0.7325%	4.4800%	4.3738%	9.0175%	-3.71%	6.96%	8.24%	-10.67%	-11.95%	7.52%	8.79%	-1.27%
Dec-70	5.9700%	7.3500%	0.5300%	0.6367%	0.6775%	0.6571%	0.7067%	5.4400%	5.3129%	6.6433%	3.87%	6.36%	7.89%	-2.49%	-4.01%	16.55%	8.48%	8.07%
Jan-71	4.3200%	2.5700%	0.5100%	0.6133%	0.6583%	0.6358%	0.6792%	3.8100%	3.6842%	1.8908%	17.06%	6.12%	7.63%	10.94%	9.43%	25.22%	8.15%	17.07%
Feb-71	1.1700%	-2.7700%	0.4600%	0.5900%	0.6392%	0.6146%	0.6575%	0.7100%	0.5554%	-3.4275%	12.17%	5.52%	7.38%	6.65%	4.79%	10.15%	7.89%	2.26%
Mar-71	3.9400%	3.3100%	0.5600%	0.6008%	0.6442%	0.6225%	0.6708%	3.3800%	3.3175%	2.6392%	16.08%	6.72%	7.47%	9.36%	8.61%	11.22%	8.05%	3.17%
Apr-71	3.8900%	-3.4900%	0.4800%	0.6042%	0.6450%	0.6246%	0.6725%	3.4100%	3.2654%	-4.1625%	32.16%	5.76%	7.50%	26.40%	24.66%	18.33%	8.07%	10.26%
May-71	-3.9100%	-3.5100%	0.4700%	0.6275%	0.6533%	0.6404%	0.6950%	-4.3800%	-4.5504%	-4.2050%	34.78%	5.64%	7.69%	29.14%	27.10%	20.37%	8.34%	12.03%
Jun-71	0.3300%	3.9800%	0.5600%	0.6367%	0.6633%	0.6500%	0.7042%	-0.2300%	-0.3200%	3.2758%	41.83%	6.72%	7.80%	35.11%	34.03%	32.90%	8.45%	24.45%
Jul-71	-3.8700%	-2.2500%	0.5200%	0.6367%	0.6633%	0.6500%	0.7042%	-4.3900%	-4.5200%	-2.9542%	26.61%	6.24%	7.80%	20.37%	18.81%	18.39%	8.45%	9.94%
Aug-71	3.8800%	-2.4700%	0.5500%	0.6325%	0.6608%	0.6467%	0.7000%	3.3300%	3.2333%	-3.1700%	25.52%	6.60%	7.76%	18.92%	17.76%	9.13%	8.40%	0.73%
Sep-71	-0.4400%	-1.4600%	0.5000%	0.6200%	0.6508%	0.6354%	0.6817%	-0.9400%	-1.0754%	-2.1417%	20.60%	6.00%	7.63%	14.60%	12.98%	8.77%	8.18%	0.59%
Oct-71	-3.9200%	1.7000%	0.4700%	0.6158%	0.6408%	0.6283%	0.6750%	-4.3900%	-4.5483%	1.0250%	16.85%	5.64%	7.54%	11.21%	9.31%	12.30%	8.10%	4.20%
Nov-71	0.0200%	-0.5500%	0.5100%	0.6050%	0.6300%	0.6175%	0.6633%	-0.4900%	-0.5975%	-1.2133%	11.24%	6.12%	7.41%	5.12%	3.83%	1.76%	7.96%	-6.20%
Dec-71	8.8800%	8.0600%	0.5000%	0.6042%	0.6308%	0.6175%	0.6583%	8.3800%	8.2625%	7.4017%	14.30%	6.00%	7.41%	8.30%	6.89%	2.43%	7.90%	-5.47%
Jan-72	2.0600%	-0.7400%	0.5000%	0.5992%	0.6267%	0.6129%	0.6492%	1.5600%	1.4471%	-1.3892%	11.82%	6.00%	7.36%	5.82%	4.46%	-0.88%	7.79%	-8.67%
Feb-72	2.7700%	-2.4000%	0.4700%	0.6058%	0.6267%	0.6163%	0.6483%	2.3000%	2.1538%	-3.0483%	13.59%	5.64%	7.40%	7.95%	6.19%	-0.50%	7.78%	-8.28%
Mar-72	0.8300%	-0.3600%	0.4900%	0.6033%	0.6275%	0.6154%	0.6475%	0.3400%	0.2146%	-1.0075%	10.19%	5.88%	7.39%	4.31%	2.80%	-4.03%	7.77%	-11.80%
Apr-72	0.6800%	-2.7700%	0.4800%	0.6083%	0.6308%	0.6196%	0.6517%	0.2000%	0.0604%	-3.4217%	6.78%	5.76%	7.44%	1.02%	-0.65%	-3.32%	7.82%	-11.14%
May-72	1.9700%	-0.1700%	0.5500%	0.6083%	0.6300%	0.6192%	0.6533%	1.4200%	1.3508%	-0.8233%	13.32%	6.60%	7.43%	6.72%	5.89%	0.03%	7.84%	-7.81%
Jun-72	-1.9400%	-2.1000%	0.4900%	0.6025%	0.6258%	0.6142%	0.6475%	-2.4300%	-2.5542%	-2.7475%	10.75%	5.88%	7.37%	4.87%	3.38%	-5.82%	7.77%	-13.59%
Jul-72	0.4800%	-0.1400%	0.5100%	0.6008%	0.6250%	0.6129%	0.6517%	-0.0300%	-0.1329%	-0.7917%	15.77%	6.12%	7.36%	9.65%	8.41%	-3.79%	7.82%	-11.61%
Aug-72	3.6900%	5.7400%	0.4900%	0.5992%	0.6192%	0.6092%	0.6367%	3.2000%	3.0808%	5.1033%	15.55%	5.88%	7.31%	9.67%	8.24%	4.31%	7.64%	-3.33%
Sep-72	-0.2500%	0.2700%	0.4700%	0.6017%	0.6175%	0.6096%	0.6342%	-0.7200%	-0.8596%	-0.3642%	15.78%	5.64%	7.32%	10.14%	8.46%	6.14%	7.61%	-1.47%
Oct-72	1.1800%	6.5100%	0.5200%	0.6008%	0.6208%	0.6108%	0.6383%	0.6600%	0.5692%	5.8717%	21.92%	6.24%	7.33%	15.68%	14.59%	11.16%	7.66%	3.50%
Nov-72	4.8100%	6.3900%	0.4800%	0.5933%	0.6158%	0.6046%	0.6333%	4.3300%	4.2054%	5.7567%	27.76%	5.76%	7.26%	22.00%	20.50%	18.92%	7.60%	11.32%
Dec-72	1.4200%	-1.7400%	0.4500%	0.5900%	0.6133%	0.6017%	0.6233%	0.9700%	0.8183%	-2.3633%	19.01%	5.40%	7.22%	13.61%	11.79%	8.14%	7.48%	0.66%
Jan-73	-1.4900%	-4.3900%	0.5400%	0.5958%	0.6142%	0.6050%	0.6267%	-2.0300%	-2.1167%	-5.0167%	14.87%	6.48%	7.26%	8.39%	7.61%	4.16%	7.52%	-3.36%
Feb-73	-3.5200%	-2.3400%	0.5100%	0.6017%	0.6225%	0.6121%	0.6350%	-4.0300%	-4.1321%	-2.9750%	7.84%	6.12%	7.35%	1.72%	0.49%	4.22%	7.62%	-3.40%
Mar-73	0.0800%	-1.3500%	0.5600%	0.6075%	0.6242%	0.6158%	0.6383%	-0.4800%	-0.5358%	-1.9883%	7.03%	6.72%	7.39%	0.31%	-0.36%	3.19%	7.66%	-4.47%
Apr-73	-3.8300%	-0.4900%	0.5700%	0.6050%	0.6242%	0.6146%	0.6358%	-4.4000%	-4.4446%	-1.1258%	2.24%	6.84%	7.38%	-4.60%	-5.14%	5.61%	7.63%	-2.02%
May-73	-1.6300%	0.6700%	0.5800%	0.6075%	0.6242%	0.6158%	0.6358%	-2.2100%	-2.2458%	0.0342%	-1.37%	6.96%	7.39%	-8.33%	-8.76%	6.50%	7.63%	-1.13%
Jun-73	-0.4000%	-1.6700%	0.5500%	0.6142%	0.6292%	0.6217%	0.6425%	-0.9500%	-1.0217%	-2.3125%	0.18%	6.60%	7.46%	-6.42%	-7.28%	6.96%	7.71%	-0.75%
Jul-73	4.0700%	-1.9900%	0.6100%	0.6208%	0.6367%	0.6288%	0.6517%	3.4600%	3.4413%	-2.6417%	3.76%	7.32%	7.55%	-3.56%	-3.79%	4.98%	7.82%	-2.84%
Aug-73	-3.4100%	-2.8400%	0.6200%	0.6400%	0.6533%	0.6467%	0.6700%	-4.0300%	-4.0567%	-3.5100%	-3.35%	7.44%	7.76%	-10.79%	-11.11%	-3.54%	8.04%	-11.58%
Sep-73	4.2700%	7.7100%	0.5500%	0.6358%	0.6550%	0.6454%	0.6700%	3.7200%	3.6246%	7.0400%	1.03%	6.60%	7.75%	-5.57%	-6.71%	3.62%	8.04%	-4.42%
Oct-73	0.1700%	-3.8800%	0.6300%	0.6333%	0.6533%	0.6433%	0.6683%	-0.4600%	-0.4733%	-4.5483%	0.02%	7.56%	7.72%	-7.54%	-7.70%	-6.49%	8.02%	-14.51%
Nov-73	-11.0900%	-11.7200%	0.5600%	0.6392%	0.6583%	0.6488%	0.6792%	-11.6500%	-11.7388%	-12.3992%	-15.15%	6.72%	7.79%	-21.87%	-22.93%	-22.40%	8.15%	-30.55%
Dec-73	1.9800%	3.7500%	0.6000%	0.6400%	0.6600%	0.6500%	0.6867%	1.3800%	1.3300%	3.0633%	-14.68%	7.20%	7.80%	-21.88%	-22.48%	-18.07%	8.24%	-26.31%
Jan-74	-0.7200%	4.1800%	0.6100%	0.6525%	0.6667%	0.6596%	0.6967%	-1.3300%	-1.3796%	3.4833%	-14.01%	7.32%	7.92%	-21.33%	-21.93%	-10.73%	8.36%	-19.09%
Feb-74	-0.0700%	0.6000%	0.5500%	0.6542%	0.6708%	0.6625%	0.7017%	-0.6200%	-0.7325%	-0.1017%	-10.94%	6.60%	7.95%	-17.54%	-18.89%	-8.04%	8.42%	-16.46%
Mar-74	-2.0500%	-3.8900%	0.5900%	0.6675%	0.6817%	0.6746%	0.7050%	-2.6400%	-2.7246%	-4.5950%	-12.83%	7.08%	8.10%	-19.91%	-20.93%	-10.41%	8.46%	-18.87%
Apr-74	-3.5900%	-12.9600%	0.6800%	0.6875%	0.7025%	0.6950%	0.7308%	-4.2700%	-4.2850%	-13.6908%	-12.62%	8.16%	8.34%	-20.78%	-20.96%	-21.63%	8.77%	-30.40%
May-74	-3.0200%	-4.8400%	0.6800%	0.6975%	0.7150%	0.7063%	0.7500%	-3.7000%	-3.7263%	-5.5900%	-13.85%	8.16%	8.48%	-22.01%	-22.33%	-25.92%	9.00%	-34.92%
Jun-74	-1.1300%	-5.7000%	0.6100%	0.7058%	0.7292%	0.7175%	0.7767%	-1.7400%	-1.8475%	-6.4767%	-14.48%	7.32%	8.61%	-21.80%	-23.09%	-28.96%	9.32%	-38.28%
Jul-74	-7.4200%	-0.8900%	0.7200%	0.7267%	0.7508%	0.7388%	0.8050%	-8.1400%	-8.1588%	-1.6950%	-23.92%	8.64%	8.87%	-32.56%	-32.79%	-28.16%	9.66%	-37.82%
Aug-74	-8.6400%	-8.7100%	0.6500%	0.7500%	0.7733%	0.7617%	0.8358%	-9.2900%	-9.4017%	-9.5458%	-28.04%	7.80%	9.14%	-35.84%	-37.18%	-32.50%	10.03%	-42.53%
Sep-74	-11.5200%	-0.8600%	0.7100%	0.7700%	0.8050%	0.7875%	0.8708%	-12.2300%	-12.3075%	-1.7308%	-38.94%	8.52%	9.45%	-47.46%	-48.39%	-37.87%	10.45%	-48.32%
Oct-74	16.8100%	11.9900%	0.7000%	0.7725%	0.8033%	0.7879%	0.8983%	16.1100%	16.0221%	11.0917%	-28.80%	8.40%	9.46%	-37.20%	-38.25%	-27.61%	10.78%	-38.39%
Nov-74	-4.8900%	-1.1900%	0.6200%	0.7408%	0.7783%	0.7596%	0.8717%	-5.5100%	-5.6496%	-2.0617%	-23.83%	7.44%	9.12%	-31.27%	-32.95%	-18.98%	10.46%	-29.44%
Dec-74	-1.5600%	0.4400%	0.6700%	0.7408%	0.7667%	0.7538%	0.8558%	-2.2300%	-2.3138%	-0.4158%	-26.48%	8.04%	9.05%	-34.52%	-35.52%	-21.56%	10.27%	-31.83%
Jan-75	12.7200%	18.9700%	0.6800%	0.7358%	0.7608%	0.7483%	0.8642%	12.0400%	11.9717%	18.1058%	-16.52%	8.16%	8.98%	-24.68%	-25.50%	-10.43%	10.37%	-20.80%
Feb-75	6.3800%	1.4300%	0.6000%	0.7183%	0.7425%	0.7304%	0.8325%	5.7800%	5.6496%	0.5975%	-11.14%	7.20%	8.77%	-18.34%	-19.90%	-9.69%	9.99%	-19.68%
Mar-75	2.5400%	-2.1600%	0.6600%	0.7225%	0.7433%	0.7329%	0.8100%	1.8800%	1.8071%	-2.9700%	-6.97%	7.92%	8.80%	-14.89%	-15.77%	-8.06%	9.72%	-17.78%
Apr-75	5.1000%	-1.4000%	0.6700%	0.7458%	0.7658%	0.7558%	0.8383%	4.4300%	4.3442%	-2.2383%	1.41%	8.04%	9.07%	-6.63%	-7.66%	4.15%	10.06%	-5.91%
May-75	4.7600%	8.6600%	0.6700%	0.7417%	0.7700%	0.7558%	0.8525%	4.0900%	4.0042%	7.8075%	9.55%	8.04%	9.07%	1.51%	0.48%	18.92%	10.23%	8.69%
Jun-75	4.7700%	10.6700%	0.7000%	0.7308%	0.7608%	0.7458%	0.8417%	4.0700%	4.0242%	9.8283%	16.09%	8.40%	8.95%	7.69%	7.14%	39.56%	10.10%	29.46%
Jul-75	-6.4400%	-5.1000%	0.6800%	0.7367%	0.7608%	0.7488%	0.8342%	-7.1200%	-7.1888%	-5.9342%	17.32%	8.16%	8.99%	9.16%	8.33%	33.64%	10.01%	23.63%
Aug-75	-1.7600%	-2.1200%	0.6500%	0.7458%	0.7692%	0.7575%	0.8433%	-2.4100%	-2.5175%	-2.9633%	26.15%	7.80%	9.09%	18.35%	17.06%	43.28%	10.12%	33.16%
Sep-75	-3.1200%	-0.4900%	0.7300%	0.7458%	0.7792%	0.7625%	0.8492%	-3.8500%	-3.8825%	-1.3392%	38.13%	8.76%	9.15%	29.37%	28.98%	43.82%	10.19%	33.63%
Oct-75	6.5300%	7.0800%	0.7200%	0.7383%	0.7767%	0.7575%	0.8467%	5.8100%	5.7725%	6.2333%	25.97%	8.64%	9.09%	17.33%	16.88%	37.51%	10.16%	27.35%
Nov-75	2.8200%	3.5000%	0.6100%	0.7317%	0.7692%	0.7504%	0.8367%	2.2100%	2.0696%	2.6633%	36.18%	7.32%	9.01%	28.86%	27.18%	44.04%	10.04%	34.00%
Dec-75	-0.8100%	0.7700%	0.7500%	0.7325%	0.7713%	0.7519%	0.8425%	-1.5600%	-1.5619%	-0.0725%	37.22%	9.00%	9.02%	28.22%	28.20%	44.51%	10.11%	34.40%
Jan-76	12.1700%	8.9400%	0.6500%	0.7167%	0.7608%	0.7388%	0.8250%	11.5200%	11.4313%	8.1150%	36.55%	7.80%	8.87%	28.75%	27.69%	32.33%	9.90%	22.43%
Feb-76	-0.8400%	-3.5600%	0.6100%	0.7125%	0.7517%	0.7321%	0.8092%	-1.4500%	-1.5721%	-4.3692%	27.28%	7.32%	8.79%	19.96%	18.50%	25.82%	9.71%	16.11%
Mar-76	3.3700%	1.0000%	0.7100%	0.7100%	0.7508%	0.7304%	0.8058%	2.6600%	2.6396%	0.1942%	28.31%	8.52%	8.77%	19.79%	19.55%	29.88%	9.67%	20.21%
Apr-76	-0.7800%	0.3700%	0.6400%	0.7000%	0.7408%	0.7204%	0.7942%	-1.4200%	-1.5004%	-0.4242%	21.13%	7.68%	8.65%	13.45%	12.49%	32.21%	9.53%	22.68%
May-76	-1.1100%	-1.3900%	0.5900%	0.7150%	0.7433%	0.7292%	0.7958%	-1.7000%	-1.8392%	-2.1858%	14.35%	7.08%	8.75%	7.27%	5.60%	19.99%	9.55%	10.44%
Jun-76	4.4300%	3.3700%	0.7300%	0.7183%	0.7408%	0.7296%	0.7950%	3.7000%	3.7004%	2.5750%	13.98%	8.76%	8.76%	5.22%	5.22%	12.07%	9.54%	2.53%
Jul-76	-0.4800%	3.4100%	0.6500%	0.7133%	0.7342%	0.7238%	0.7808%	-1.1300%	-1.2038%	2.6292%	21.24%	7.80%	8.69%	13.44%	12.55%	22.12%	9.37%	12.75%
Aug-76	-0.1800%	3.8300%	0.6900%	0.7042%	0.7217%	0.7129%	0.7608%	-0.8700%	-0.8929%	3.0692%	23.19%	8.28%	8.56%	14.91%	14.63%	29.54%	9.13%	20.41%
Sep-76	2.5800%	3.8100%	0.6400%	0.6983%	0.7117%	0.7050%	0.7417%	1.9400%	1.8750%	3.0683%	30.43%	7.68%	8.46%	22.75%	21.97%	35.14%	8.90%	26.24%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPSPA	Mkt Annlized Return	RF Annualized Yield	AAAAA Annualized Yield	MRP RP	AAAAA RP	S&P U Annulized Yield	A Annualized Yield	SPA RP
Oct-76	-1.8600%	-0.2100%	0.6100%	0.6933%	0.7067%	0.7000%	0.7325%	-2.4700%	-2.5600%	-0.9425%	20.16%	7.32%	8.40%	12.84%	11.76%	25.94%	8.79%	17.15%
Nov-76	-0.4100%	2.6800%	0.6600%	0.6875%	0.7050%	0.6963%	0.7300%	-1.0700%	-1.1063%	1.9500%	16.39%	7.92%	8.36%	8.47%	8.03%	24.94%	8.76%	16.18%
Dec-76	5.6100%	6.3100%	0.6300%	0.6650%	0.6871%	0.6760%	0.7183%	4.9800%	4.9340%	5.5917%	23.92%	7.56%	8.11%	16.36%	15.81%	31.81%	8.62%	23.19%
Jan-77	-4.7300%	0.3500%	0.5900%	0.6633%	0.6800%	0.6717%	0.7175%	-5.3200%	-5.4017%	-0.3675%	5.25%	7.08%	8.06%	-1.83%	-2.81%	21.42%	8.61%	12.81%
Feb-77	-1.8200%	-3.7200%	0.5700%	0.6700%	0.6883%	0.6792%	0.7208%	-2.3900%	-2.4992%	-4.4408%	4.21%	6.84%	8.15%	-2.63%	-3.94%	21.22%	8.65%	12.57%
Mar-77	-1.0500%	1.0200%	0.6500%	0.6750%	0.6900%	0.6825%	0.7250%	-1.7000%	-1.7325%	0.2950%	-0.25%	7.80%	8.19%	-8.05%	-8.44%	21.24%	8.70%	12.54%
Apr-77	0.4200%	2.0900%	0.6100%	0.6700%	0.6900%	0.6800%	0.7258%	-0.1900%	-0.2600%	1.3642%	0.96%	7.32%	8.16%	-6.36%	-7.20%	23.32%	8.71%	14.61%
May-77	-1.9600%	2.1100%	0.6700%	0.6708%	0.6900%	0.6804%	0.7258%	-2.6300%	-2.6404%	1.3842%	0.09%	8.04%	8.17%	-7.95%	-8.07%	27.70%	8.71%	18.99%
Jun-77	4.9400%	5.3100%	0.6200%	0.6625%	0.6825%	0.6725%	0.7150%	4.3200%	4.2675%	4.5950%	0.58%	7.44%	8.07%	-6.86%	-7.49%	30.09%	8.58%	21.51%
Jul-77	-1.2400%	1.6400%	0.5900%	0.6617%	0.6767%	0.6692%	0.7092%	-1.8300%	-1.9092%	0.9308%	-0.19%	7.08%	8.03%	-7.27%	-8.22%	27.87%	8.51%	19.36%
Aug-77	-1.7200%	-3.5300%	0.6700%	0.6650%	0.6808%	0.6729%	0.7075%	-2.3900%	-2.3929%	-4.2375%	-1.73%	8.04%	8.08%	-9.77%	-9.80%	18.80%	8.49%	10.31%
Sep-77	0.1600%	2.4700%	0.6100%	0.6600%	0.6792%	0.6696%	0.7050%	-0.4500%	-0.5096%	1.7650%	-4.05%	7.32%	8.04%	-11.37%	-12.08%	17.27%	8.46%	8.81%
Oct-77	-3.9000%	-2.9600%	0.6300%	0.6700%	0.6883%	0.6792%	0.7175%	-4.5300%	-4.5792%	-3.6775%	-6.04%	7.56%	8.15%	-13.60%	-14.19%	14.04%	8.61%	5.43%
Nov-77	3.1600%	3.8100%	0.6300%	0.6733%	0.6950%	0.6842%	0.7200%	2.5300%	2.4758%	3.0900%	-2.67%	7.56%	8.21%	-10.23%	-10.88%	15.29%	8.64%	6.65%
Dec-77	0.7500%	0.1900%	0.6200%	0.6825%	0.7004%	0.6915%	0.7200%	0.1300%	0.0585%	-0.5300%	-7.15%	7.44%	8.30%	-14.59%	-15.45%	8.66%	8.64%	0.02%
Jan-78	-5.7400%	-5.3300%	0.6900%	0.7008%	0.7158%	0.7083%	0.7433%	-6.4300%	-6.4483%	-6.0733%	-8.13%	8.28%	8.50%	-16.41%	-16.63%	2.50%	8.92%	-6.42%
Feb-78	-2.0300%	-0.6200%	0.6000%	0.7058%	0.7208%	0.7133%	0.7475%	-2.6300%	-2.7433%	-1.3675%	-8.33%	7.20%	8.56%	-15.53%	-16.89%	5.81%	8.97%	-3.16%
Mar-78	2.9400%	3.0900%	0.6900%	0.7058%	0.7217%	0.7138%	0.7483%	2.2500%	2.2263%	2.3417%	-4.63%	8.28%	8.57%	-12.91%	-13.20%	7.97%	8.98%	-1.01%
Apr-78	9.0200%	1.0600%	0.6300%	0.7133%	0.7275%	0.7204%	0.7575%	8.3900%	8.2996%	0.3025%	3.53%	7.56%	8.65%	-4.03%	-5.11%	6.88%	9.09%	-2.21%
May-78	0.9200%	0.4300%	0.7500%	0.7242%	0.7367%	0.7304%	0.7683%	0.1700%	0.1896%	-0.3383%	6.57%	9.00%	8.77%	-2.43%	-2.19%	5.13%	9.22%	-4.09%
Jun-78	-1.3800%	0.3600%	0.6900%	0.7300%	0.7458%	0.7379%	0.7833%	-2.0700%	-2.1179%	-0.4233%	0.16%	8.28%	8.86%	-8.12%	-8.70%	0.18%	9.40%	-9.22%
Jul-78	5.8300%	3.1600%	0.7300%	0.7400%	0.7558%	0.7479%	0.7925%	5.1000%	5.0821%	2.3675%	7.33%	8.76%	8.98%	-1.43%	-1.65%	1.68%	9.51%	-7.83%
Aug-78	3.0100%	-0.0300%	0.7000%	0.7242%	0.7467%	0.7354%	0.7767%	2.3100%	2.2746%	-0.8067%	12.49%	8.40%	8.83%	4.09%	3.67%	5.37%	9.32%	-3.95%
Sep-78	-0.3200%	-0.5600%	0.6500%	0.7242%	0.7433%	0.7338%	0.7733%	-0.9700%	-1.0538%	-1.3333%	11.95%	7.80%	8.81%	4.15%	3.15%	2.26%	9.28%	-7.02%
Oct-78	-8.7200%	-6.8400%	0.7300%	0.7408%	0.7558%	0.7483%	0.7883%	-9.4500%	-9.4683%	-7.6283%	6.34%	8.76%	8.98%	-2.42%	-2.64%	-1.83%	9.46%	-11.29%
Nov-78	2.1500%	3.5600%	0.7100%	0.7525%	0.7700%	0.7613%	0.8067%	1.4400%	1.3888%	2.7533%	5.30%	8.52%	9.14%	-3.22%	-3.84%	-2.07%	9.68%	-11.75%
Dec-78	1.9600%	-1.4900%	0.6800%	0.7633%	0.7775%	0.7704%	0.8083%	1.2800%	1.1896%	-2.2983%	6.56%	8.16%	9.25%	-1.60%	-2.69%	-3.71%	9.70%	-13.41%
Jan-79	4.4300%	6.9200%	0.7900%	0.7708%	0.7900%	0.7804%	0.8250%	3.6400%	3.6496%	6.0950%	18.06%	9.48%	9.37%	8.58%	8.69%	8.75%	9.90%	-1.15%
Feb-79	-3.2100%	-2.1200%	0.6500%	0.7717%	0.7917%	0.7817%	0.8200%	-3.8600%	-3.9917%	-2.9400%	16.63%	7.80%	9.38%	8.83%	7.25%	7.11%	9.84%	-2.73%
Mar-79	5.9600%	1.9600%	0.7400%	0.7808%	0.8008%	0.7908%	0.8367%	5.2200%	5.1692%	1.1233%	20.06%	8.88%	9.49%	11.18%	10.57%	5.93%	10.04%	-4.11%
Apr-79	0.6300%	-2.4900%	0.7600%	0.7817%	0.8042%	0.7929%	0.8417%	-0.1300%	-0.1629%	-3.3317%	10.82%	9.12%	9.52%	1.70%	1.30%	2.21%	10.10%	-7.89%
May-79	-2.1700%	1.5000%	0.7700%	0.7917%	0.8217%	0.8067%	0.8583%	-2.9400%	-2.9767%	0.6417%	7.42%	9.24%	9.68%	-1.82%	-2.26%	3.30%	10.30%	-7.00%
Jun-79	4.3500%	3.8600%	0.7100%	0.7742%	0.8050%	0.7896%	0.8450%	3.6400%	3.5604%	3.0150%	13.67%	8.52%	9.48%	5.15%	4.19%	6.90%	10.14%	-3.24%
Jul-79	1.3400%	3.4200%	0.7600%	0.7667%	0.7908%	0.7788%	0.8317%	0.5800%	0.5613%	2.5883%	8.84%	9.12%	9.35%	-0.28%	-0.50%	7.17%	9.98%	-2.81%
Aug-79	5.7700%	1.0200%	0.7300%	0.7692%	0.7942%	0.7817%	0.8450%	5.0400%	4.9883%	0.1750%	11.76%	8.76%	9.38%	3.00%	2.38%	8.30%	10.14%	-1.84%
Sep-79	0.4300%	-1.7700%	0.6800%	0.7867%	0.8083%	0.7975%	0.8633%	-0.2500%	-0.3675%	-2.6333%	12.60%	8.16%	9.57%	4.44%	3.03%	6.98%	10.36%	-3.38%
Oct-79	-6.4000%	-5.0500%	0.8200%	0.8442%	0.8717%	0.8579%	0.9500%	-7.2200%	-7.2579%	-6.0000%	15.46%	9.84%	10.30%	5.62%	5.17%	9.04%	11.40%	-2.36%
Nov-79	4.7500%	6.0700%	0.8300%	0.8967%	0.9350%	0.9158%	0.9908%	3.9200%	3.8342%	5.0792%	18.40%	9.96%	10.99%	8.44%	7.41%	11.68%	11.89%	-0.21%
Dec-79	2.1400%	0.2200%	0.8300%	0.8950%	0.9292%	0.9121%	1.0125%	1.3100%	1.2279%	-0.7925%	18.61%	9.96%	10.95%	8.65%	7.67%	13.62%	12.15%	1.47%
Jan-80	6.2200%	-0.2300%	0.8300%	0.9242%	0.9633%	0.9438%	1.0177%	5.3900%	5.2763%	-1.2477%	20.64%	9.96%	11.33%	10.68%	9.32%	6.02%	12.21%	-6.19%
Feb-80	-0.0100%	-2.4700%	0.8400%	1.0317%	1.0608%	1.0463%	1.1028%	-0.8500%	-1.0563%	-3.5728%	24.63%	10.08%	12.56%	14.55%	12.08%	5.64%	13.23%	-7.59%
Mar-80	-9.7200%	-5.2900%	0.9900%	1.0800%	1.1258%	1.1029%	1.2158%	-10.7100%	-10.8229%	-6.5058%	6.19%	11.88%	13.24%	-5.69%	-7.05%	-1.87%	14.59%	-16.46%
Apr-80	4.6200%	11.8600%	1.0000%	1.0033%	1.0883%	1.0458%	1.1908%	3.6200%	3.5742%	10.6692%	10.40%	12.00%	12.55%	-1.60%	-2.15%	12.57%	14.29%	-1.72%
May-80	5.1500%	3.2300%	0.8700%	0.9158%	0.9925%	0.9542%	1.0613%	4.2800%	4.1958%	2.1687%	18.66%	10.44%	11.45%	8.22%	7.21%	14.49%	12.74%	1.75%
Jun-80	3.1600%	3.3700%	0.8600%	0.8817%	0.9492%	0.9154%	1.0331%	2.3000%	2.2446%	2.3369%	17.31%	10.32%	10.99%	6.99%	6.32%	13.95%	12.40%	1.55%
Jul-80	6.9600%	-0.4100%	0.8400%	0.9225%	0.9525%	0.9375%	1.0127%	6.1200%	6.0225%	-1.4227%	23.81%	10.08%	11.25%	13.73%	12.56%	9.73%	12.15%	-2.42%
Aug-80	1.0100%	-1.3900%	0.8100%	0.9700%	1.0075%	0.9888%	1.0550%	0.2000%	0.0212%	-2.4450%	18.24%	9.72%	11.87%	8.52%	6.38%	7.11%	12.66%	-5.55%
Sep-80	2.9400%	-1.1400%	0.9700%	1.0017%	1.0433%	1.0225%	1.1077%	1.9700%	1.9175%	-2.2477%	21.20%	11.64%	12.27%	9.56%	8.93%	7.80%	13.29%	-5.50%
Oct-80	2.0200%	2.7400%	0.9700%	1.0258%	1.0567%	1.0413%	1.1280%	1.0500%	0.9788%	1.6120%	32.10%	11.64%	12.50%	20.46%	19.60%	16.64%	13.54%	3.11%
Nov-80	10.6500%	5.0100%	0.9100%	1.0808%	1.1117%	1.0963%	1.1677%	9.7400%	9.5538%	3.8423%	39.54%	10.92%	13.16%	28.62%	26.38%	15.48%	14.01%	1.46%
Dec-80	-3.0200%	-0.1400%	1.0800%	1.1008%	1.1483%	1.1246%	1.2217%	-4.1000%	-4.1446%	-1.3617%	32.49%	12.96%	13.50%	19.53%	18.99%	15.06%	14.66%	0.40%
Jan-81	-4.1800%	-1.8600%	0.9400%	1.0675%	1.1267%	1.0971%	1.1895%	-5.1200%	-5.2771%	-3.0495%	19.52%	11.28%	13.17%	8.24%	6.35%	13.18%	14.27%	-1.09%
Feb-81	1.7400%	-2.2400%	0.8800%	1.1125%	1.1575%	1.1350%	1.2233%	0.8600%	0.6050%	-3.4633%	21.61%	10.56%	13.62%	11.05%	7.99%	13.45%	14.68%	-1.23%
Mar-81	4.0000%	4.2000%	1.1100%	1.1108%	1.1583%	1.1346%	1.2604%	2.8900%	2.8654%	2.9396%	40.09%	13.32%	13.62%	26.77%	26.47%	24.82%	15.13%	9.69%
Apr-81	-1.9300%	-0.9600%	1.0100%	1.1567%	1.1992%	1.1779%	1.2708%	-2.9400%	-3.1079%	-2.2308%	31.32%	12.12%	14.14%	19.20%	17.18%	10.51%	15.25%	-4.74%
May-81	0.2600%	2.9100%	1.0400%	1.1933%	1.2400%	1.2167%	1.3430%	-0.7800%	-0.9567%	1.5670%	25.21%	12.48%	14.60%	12.73%	10.61%	10.17%	16.12%	-5.95%
Jun-81	-0.6300%	2.7200%	1.0900%	1.1458%	1.2008%	1.1733%	1.3160%	-1.7200%	-1.8033%	1.4040%	20.61%	13.08%	14.09%	7.53%	6.53%	9.48%	15.79%	-6.32%
Jul-81	0.2100%	3.4100%	1.0900%	1.1983%	1.2325%	1.2154%	1.3393%	-0.8800%	-1.0054%	2.0707%	13.00%	13.08%	14.59%	-0.08%	-1.58%	13.67%	16.07%	-2.40%
Aug-81	-5.7700%	-0.2400%	1.1000%	1.2408%	1.2850%	1.2629%	1.3706%	-6.8700%	-7.0329%	-1.6106%	5.42%	13.20%	15.16%	-7.78%	-9.74%	15.00%	16.45%	-1.45%
Sep-81	-4.9300%	-4.0900%	1.1400%	1.2908%	1.3292%	1.3100%	1.4192%	-6.0700%	-6.2400%	-5.5092%	-2.64%	13.68%	15.72%	-16.32%	-18.36%	11.57%	17.03%	-5.46%
Oct-81	5.4000%	6.1700%	1.1700%	1.2833%	1.3183%	1.3008%	1.4379%	4.2300%	4.0992%	4.7321%	0.58%	14.04%	15.61%	-13.46%	-15.03%	15.29%	17.26%	-1.96%
Nov-81	4.1300%	4.8100%	1.1300%	1.1850%	1.2475%	1.2163%	1.3679%	3.0000%	2.9138%	3.4421%	-5.35%	13.56%	14.60%	-18.91%	-19.94%	15.07%	16.42%	-1.34%
Dec-81	-2.5600%	-3.0500%	1.0000%	1.1858%	1.2500%	1.2179%	1.3468%	-3.5600%	-3.7779%	-4.3968%	-4.90%	12.00%	14.62%	-16.90%	-19.51%	11.72%	16.16%	-4.44%
Jan-82	-1.3100%	0.3700%	1.0800%	1.2650%	1.3125%	1.2888%	1.4000%	-2.3900%	-2.5988%	-1.0300%	-2.05%	12.96%	15.47%	-15.01%	-17.51%	14.26%	16.80%	-2.54%
Feb-82	-5.5900%	-0.3500%	1.0300%	1.2725%	1.3100%	1.2913%	1.4096%	-6.6200%	-6.8813%	-1.7596%	-9.10%	12.36%	15.50%	-21.46%	-24.60%	16.47%	16.92%	-0.45%
Mar-82	-0.5200%	1.6800%	1.2400%	1.2150%	1.2675%	1.2413%	1.3740%	-1.7600%	-1.7613%	0.3060%	-13.06%	14.88%	14.90%	-27.94%	-27.95%	13.65%	16.49%	-2.84%
Apr-82	4.5200%	5.4800%	1.1200%	1.2050%	1.2417%	1.2233%	1.3665%	3.4000%	3.2967%	4.1135%	-7.34%	13.44%	14.68%	-20.78%	-22.02%	21.04%	16.40%	4.64%
May-82	-3.4100%	-1.8700%	1.0100%	1.1883%	1.2308%	1.2096%	1.3400%	-4.4200%	-4.6196%	-3.2100%	-10.73%	12.12%	14.52%	-22.85%	-25.24%	15.42%	16.08%	-0.66%
Jun-82	-1.5000%	-1.6100%	1.2000%	1.2342%	1.2717%	1.2529%	1.3617%	-2.7000%	-2.7529%	-2.9717%	-11.51%	14.40%	15.04%	-25.91%	-26.55%	10.55%	16.34%	-5.79%
Jul-82	-1.7800%	-1.9800%	1.1400%	1.2175%	1.2675%	1.2425%	1.3717%	-2.9200%	-3.0225%	-3.3517%	-13.27%	13.68%	14.91%	-26.95%	-28.18%	4.79%	16.46%	-11.67%
Aug-82	12.1400%	12.1100%	1.1200%	1.1425%	1.2067%	1.1746%	1.3267%	11.0200%	10.9654%	10.7833%	3.22%	13.44%	14.10%	-10.22%	-10.88%	17.76%	15.92%	1.84%
Sep-82	1.2500%	0.5200%	1.0000%	1.0783%	1.1433%	1.1108%	1.2875%	0.2500%	0.1392%	-0.7675%	9.93%	12.00%	13.33%	-2.07%	-3.40%	23.43%	15.45%	7.98%
Oct-82	11.5100%	6.5900%	0.9100%	1.0100%	1.0808%	1.0454%	1.2487%	10.6000%	10.4646%	5.3413%	16.30%	10.92%	12.55%	5.38%	3.75%	23.91%	14.98%	8.93%
Nov-82	4.0400%	0.1700%	0.9500%	0.9733%	1.0425%	1.0079%	1.2052%	3.0900%	3.0321%	-1.0352%	16.20%	11.40%	12.10%	4.80%	4.10%	18.43%	14.46%	3.97%
Dec-82	1.9300%	3.6000%	0.9300%	0.9858%	1.0367%	1.0113%	1.2021%	1.0000%	0.9188%	2.3979%	21.55%	11.16%	12.14%	10.39%	9.42%	26.55%	14.43%	12.13%
Jan-83	3.7200%	3.7200%	0.8700%	0.9825%	1.0292%	1.0058%	1.1868%	2.8500%	2.7142%	2.5333%	27.75%	10.44%	12.07%	17.31%	15.68%	30.77%	14.24%	16.53%
Feb-83	2.2900%	-0.0500%	0.8100%	1.0008%	1.0483%	1.0246%	1.1898%	1.4800%	1.2654%	-1.2398%	38.41%	9.72%	12.30%	28.69%	26.12%	31.17%	14.28%	16.89%
Mar-83	3.6900%	0.1700%	0.8900%	0.9775%	1.0267%	1.0021%	1.1690%	2.8000%	2.6879%	-0.9990%	44.27%	10.68%	12.03%	33.59%	32.24%	29.22%	14.03%	15.19%
Apr-83	7.8800%	5.7100%	0.8500%	0.9592%	1.0050%	0.9821%	1.1365%	7.0300%	6.8979%	4.5735%	48.91%	10.20%	11.79%	38.71%	37.12%	29.50%	13.64%	15.86%
May-83	-0.8700%	1.2400%	0.9100%	0.9550%	0.9958%	0.9754%	1.1243%	-1.7800%	-1.8454%	0.1157%	52.82%	10.92%	11.71%	41.90%	41.12%	33.61%	13.49%	20.12%
Jun-83	3.8900%	-1.2300%	0.9000%	0.9783%	1.0125%	0.9954%	1.1373%	2.9900%	2.8946%	-2.3673%	61.18%	10.80%	11.95%	50.38%	49.24%	34.12%	13.65%	20.48%
Jul-83	-2.9500%	3.3900%	0.8800%	1.0125%	1.0325%	1.0225%	1.1310%	-3.8300%	-3.9725%	2.2590%	59.26%	10.56%	12.27%	48.70%	46.99%	41.47%	13.57%	27.90%
Aug-83	1.5000%	0.4000%	1.0300%	1.0425%	1.0600%	1.0513%	1.1306%	0.4700%	0.4488%	-0.7306%	44.15%	12.36%	12.62%	31.79%	31.54%	26.69%	13.57%	13.13%
Sep-83	1.3800%	4.4500%	0.9600%	1.0308%	1.0517%	1.0413%	1.1197%	0.4200%	0.3388%	3.3303%	44.34%	11.52%	12.50%	32.82%	31.84%	31.65%	13.44%	18.21%
Oct-83	-1.1600%	5.3200%	0.9500%	1.0208%	1.0408%	1.0308%	1.1044%	-2.1100%	-2.1908%	4.2156%	27.94%	11.40%	12.37%	16.54%	15.57%	30.08%	13.25%	16.83%
Nov-83	2.1100%	-2.0400%	0.9400%	1.0342%	1.0508%	1.0425%	1.1153%	1.1700%	1.0675%	-3.1553%	25.57%	11.28%	12.51%	14.29%	13.06%	27.21%	13.38%	13.83%
Dec-83	-0.5200%	-2.2600%	0.9400%	1.0475%	1.0633%	1.0554%	1.1264%	-1.4600%	-1.5754%	-3.3864%	22.55%	11.28%	12.67%	11.27%	9.88%	20.01%	13.52%	6.50%
Jan-84	-0.5600%	4.8200%	1.0300%	1.0167%	1.0592%	1.0379%	1.1167%	-1.5900%	-1.5979%	3.7033%	17.49%	12.36%	12.46%	5.13%	5.04%	21.29%	13.40%	7.89%
Feb-84	-3.5200%	-4.1100%	0.9200%	1.0067%	1.0583%	1.0325%	1.1164%	-4.4400%	-4.5525%	-5.2264%	10.82%	11.04%	12.39%	-0.22%	-1.57%	16.36%	13.40%	2.96%
Mar-84	1.7300%	-0.5500%	0.9800%	1.0475%	1.1017%	1.0746%	1.1477%	0.7500%	0.6554%	-1.6977%	8.72%	11.76%	12.90%	-3.04%	-4.17%	15.52%	13.77%	1.75%
Apr-84	0.9500%	1.5900%	1.0400%	1.0675%	1.1233%	1.0954%	1.1774%	-0.0900%	-0.1454%	0.4126%	1.74%	12.48%	13.15%	-10.74%	-11.41%	11.02%	14.13%	-3.11%
May-84	-5.5400%	-2.3000%	1.0300%	1.1067%	1.1750%	1.1408%	1.2400%	-6.5700%	-6.6808%	-3.5400%	-3.05%	12.36%	13.69%	-15.41%	-16.74%	7.14%	14.88%	-7.74%
Jun-84	2.1700%	0.6900%	1.0600%	1.1292%	1.1942%	1.1617%	1.2581%	1.1100%	1.0083%	-0.5681%	-4.66%	12.72%	13.94%	-17.38%	-18.60%	9.22%	15.10%	-5.88%
Jul-84	-1.2400%	4.3300%	1.1600%	1.1200%	1.1767%	1.1483%	1.2384%	-2.4000%	-2.3883%	3.0916%	-2.98%	13.92%	13.78%	-16.90%	-16.76%	10.21%	14.86%	-4.65%
Aug-84	11.0400%	6.4600%	1.0600%	1.0725%	1.1225%	1.0975%	1.2024%	9.9800%	9.9425%	5.2576%	6.14%	12.72%	13.17%	-6.58%	-7.03%	16.87%	14.43%	2.44%
Sep-84	0.0200%	4.3800%	0.9400%	1.0550%	1.1058%	1.0804%	1.1823%	-0.9200%	-1.0604%	3.1977%	4.72%	11.28%	12.97%	-6.56%	-8.25%	16.79%	14.19%	2.60%
Oct-84	0.3900%	2.7200%	1.0800%	1.0525%	1.0925%	1.0725%	1.1525%	-0.6900%	-0.6825%	1.5675%	6.36%	12.96%	12.87%	-6.60%	-6.51%	13.91%	13.83%	0.08%
Nov-84	-1.1200%	2.7000%	0.9100%	1.0242%	1.0550%	1.0396%	1.1039%	-2.0300%	-2.1596%	1.5961%	2.99%	10.92%	12.48%	-7.93%	-9.48%	19.42%	13.25%	6.17%
Dec-84	2.6300%	3.1600%	0.9800%	1.0108%	1.0417%	1.0263%	1.0891%	1.6500%	1.6038%	2.0709%	6.25%	11.76%	12.32%	-5.51%	-6.06%	26.04%	13.07%	12.97%
Jan-85	7.7900%	2.3500%	0.9600%	1.0067%	1.0358%	1.0213%	1.0822%	6.8300%	6.7688%	1.2678%	15.18%	11.52%	12.26%	3.66%	2.92%	23.07%	12.99%	10.08%
Feb-85	1.2200%	1.9300%	0.8200%	1.0108%	1.0408%	1.0258%	1.0862%	0.4000%	0.1942%	0.8438%	20.83%	9.84%	12.31%	10.99%	8.52%	30.82%	13.03%	17.79%
Mar-85	0.0700%	3.6200%	0.9400%	1.0467%	1.0758%	1.0613%	1.1501%	-0.8700%	-0.9913%	2.4699%	18.86%	11.28%	12.74%	7.58%	6.13%	36.31%	13.80%	22.50%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPSPA	Mkt Annlized Return	RF Annualized Yield	AAAAA Annualized Yield	MRP RP	AAAAA RP	S&P U Annulized Yield	A Annualized Yield	SPA RP
Apr-85	-0.0900%	2.0700%	1.0200%	1.0192%	1.0575%	1.0383%	1.1322%	-1.1100%	-1.1283%	0.9378%	17.64%	12.24%	12.46%	5.40%	5.18%	36.95%	13.59%	23.36%
May-85	5.7800%	6.0600%	0.9700%	0.9767%	1.0250%	1.0008%	1.0978%	4.8100%	4.7792%	4.9622%	31.74%	11.64%	12.01%	20.10%	19.73%	48.67%	13.17%	35.49%
Jun-85	1.5700%	2.7900%	0.8000%	0.9117%	0.9550%	0.9333%	1.0120%	0.7700%	0.6367%	1.7780%	30.96%	9.60%	11.20%	21.36%	19.76%	51.77%	12.14%	39.63%
Jul-85	-0.1500%	-4.2700%	0.9400%	0.9142%	0.9517%	0.9329%	1.0054%	-1.0900%	-1.0829%	-5.2754%	32.41%	11.28%	11.20%	21.13%	21.21%	39.26%	12.06%	27.19%
Aug-85	-0.8500%	1.8100%	0.8500%	0.9208%	0.9558%	0.9383%	1.0114%	-1.7000%	-1.7883%	0.7986%	18.23%	10.20%	11.26%	8.03%	6.97%	33.18%	12.14%	21.04%
Sep-85	-3.1300%	-5.2100%	0.8800%	0.9225%	0.9550%	0.9388%	1.0110%	-4.0100%	-4.0688%	-6.2210%	14.51%	10.56%	11.27%	3.95%	3.24%	20.94%	12.13%	8.81%
Oct-85	4.6200%	6.3800%	0.8900%	0.9183%	0.9542%	0.9363%	1.0012%	3.7300%	3.6838%	5.3788%	19.33%	10.68%	11.24%	8.65%	8.10%	25.25%	12.01%	13.24%
Nov-85	6.8600%	5.2200%	0.8100%	0.8792%	0.9225%	0.9008%	0.9595%	6.0500%	5.9592%	4.2605%	28.96%	9.72%	10.81%	19.24%	18.15%	28.32%	11.51%	16.81%
Dec-85	4.8400%	6.9400%	0.8600%	0.8467%	0.8858%	0.8663%	0.9173%	3.9800%	3.9738%	6.0227%	31.74%	10.32%	10.40%	21.42%	21.34%	33.03%	11.01%	22.02%
Jan-86	0.5600%	2.9300%	0.7900%	0.8375%	0.8717%	0.8546%	0.8999%	-0.2300%	-0.2946%	2.0301%	22.90%	9.48%	10.26%	13.42%	12.65%	33.78%	10.80%	22.98%
Feb-86	7.4700%	6.2300%	0.7300%	0.8058%	0.8442%	0.8250%	0.8597%	6.7400%	6.6450%	5.3703%	30.49%	8.76%	9.90%	21.73%	20.59%	39.42%	10.32%	29.11%
Mar-86	5.5800%	5.1400%	0.7100%	0.7500%	0.7908%	0.7704%	0.7928%	4.8700%	4.8096%	4.3473%	37.68%	8.52%	9.25%	29.16%	28.43%	41.47%	9.51%	31.95%
Apr-86	-1.1300%	-3.3300%	0.6300%	0.7325%	0.7675%	0.7500%	0.7609%	-1.7600%	-1.8800%	-4.0909%	36.24%	7.56%	9.00%	28.68%	27.24%	33.98%	9.13%	24.85%
May-86	5.3200%	5.2500%	0.6200%	0.7575%	0.7858%	0.7717%	0.7972%	4.7000%	4.5483%	4.4528%	35.65%	7.44%	9.26%	28.21%	26.39%	32.96%	9.57%	23.39%
Jun-86	1.6900%	5.9700%	0.7000%	0.7608%	0.7908%	0.7758%	0.8046%	0.9900%	0.9142%	5.1654%	35.81%	8.40%	9.31%	27.41%	26.50%	37.07%	9.65%	27.42%
Jul-86	-5.5900%	2.8300%	0.6600%	0.7400%	0.7733%	0.7567%	0.7795%	-6.2500%	-6.3467%	2.0505%	28.41%	7.92%	9.08%	20.49%	19.33%	47.24%	9.35%	37.89%
Aug-86	7.4200%	8.8400%	0.6300%	0.7267%	0.7683%	0.7475%	0.7756%	6.7900%	6.6725%	8.0644%	39.12%	7.56%	8.97%	31.56%	30.15%	57.41%	9.31%	48.10%
Sep-86	-8.2700%	-11.3700%	0.6500%	0.7408%	0.7800%	0.7604%	0.7919%	-8.9200%	-9.0304%	-12.1619%	31.74%	7.80%	9.13%	23.94%	22.62%	47.18%	9.50%	37.67%
Oct-86	5.7700%	5.0500%	0.6900%	0.7383%	0.7775%	0.7579%	0.7940%	5.0800%	5.0121%	4.2561%	33.19%	8.28%	9.10%	24.91%	24.09%	45.34%	9.53%	35.81%
Nov-86	2.4300%	2.1100%	0.5900%	0.7233%	0.7667%	0.7450%	0.7745%	1.8400%	1.6850%	1.3355%	27.67%	7.08%	8.94%	20.59%	18.73%	41.04%	9.29%	31.75%
Dec-86	-2.5500%	-2.5400%	0.7000%	0.7075%	0.7517%	0.7296%	0.7600%	-3.2500%	-3.2796%	-3.3000%	18.67%	8.40%	8.76%	10.27%	9.91%	28.54%	9.12%	19.42%
Jan-87	13.4700%	9.8400%	0.6400%	0.6967%	0.7383%	0.7175%	0.7454%	12.8300%	12.7525%	9.0946%	33.90%	7.68%	8.61%	26.22%	25.29%	37.17%	8.94%	28.22%
Feb-87	3.9500%	-3.0100%	0.5900%	0.6983%	0.7400%	0.7192%	0.7503%	3.3600%	3.2308%	-3.7603%	29.52%	7.08%	8.63%	22.44%	20.89%	25.24%	9.00%	16.23%
Mar-87	2.8900%	-1.8900%	0.6600%	0.6967%	0.7367%	0.7167%	0.7441%	2.2300%	2.1733%	-2.6341%	26.22%	7.92%	8.60%	18.30%	17.62%	16.86%	8.93%	7.93%
Apr-87	-0.8900%	-4.1400%	0.6500%	0.7375%	0.7625%	0.7500%	0.7794%	-1.5400%	-1.6400%	-4.9194%	26.52%	7.80%	9.00%	18.72%	17.52%	15.88%	9.35%	6.53%
May-87	0.8700%	-0.6400%	0.6600%	0.7775%	0.7992%	0.7883%	0.8221%	0.2100%	0.0817%	-1.4621%	21.18%	7.92%	9.46%	13.26%	11.72%	9.40%	9.87%	-0.47%
Jun-87	5.0500%	4.3900%	0.7500%	0.7767%	0.8042%	0.7904%	0.8349%	4.3000%	4.2596%	3.5552%	25.18%	9.00%	9.49%	16.18%	15.70%	7.77%	10.02%	-2.25%
Jul-87	5.0700%	-0.2500%	0.7300%	0.7850%	0.8042%	0.7946%	0.8446%	4.3400%	4.2754%	-1.0946%	39.32%	8.76%	9.54%	30.56%	29.78%	4.54%	10.14%	-5.60%
Aug-87	3.7300%	5.2700%	0.7500%	0.8058%	0.8217%	0.8138%	0.8703%	2.9800%	2.9163%	4.3997%	34.53%	9.00%	9.77%	25.53%	24.77%	1.11%	10.44%	-9.33%
Sep-87	-2.1900%	0.2100%	0.7500%	0.8483%	0.8625%	0.8554%	0.9314%	-2.9400%	-3.0454%	-0.7214%	43.45%	9.00%	10.27%	34.45%	33.18%	14.32%	11.18%	3.15%
Oct-87	-21.5400%	-7.0500%	0.7900%	0.8767%	0.8950%	0.8858%	0.9466%	-22.3300%	-22.4258%	-7.9966%	6.41%	9.48%	10.63%	-3.07%	-4.22%	1.15%	11.36%	-10.21%
Nov-87	-8.2400%	-5.5500%	0.7500%	0.8342%	0.8558%	0.8450%	0.9020%	-8.9900%	-9.0850%	-6.4520%	-4.68%	9.00%	10.14%	-13.68%	-14.82%	-6.43%	10.82%	-17.26%
Dec-87	7.6100%	1.0800%	0.7800%	0.8425%	0.8608%	0.8517%	0.9114%	6.8300%	6.7583%	0.1686%	5.26%	9.36%	10.22%	-4.10%	-4.96%	-2.96%	10.94%	-13.90%
Jan-88	4.2100%	11.5300%	0.7200%	0.8233%	0.8408%	0.8321%	0.8998%	3.4900%	3.3779%	10.8302%	-3.33%	8.64%	9.99%	-11.97%	-13.31%	-1.47%	10.80%	-12.26%
Feb-88	4.6600%	-1.7500%	0.7100%	0.7833%	0.8000%	0.7917%	0.8430%	3.9500%	3.8683%	-2.5930%	-2.67%	8.52%	9.50%	-11.19%	-12.17%	-0.19%	10.12%	-10.30%
Mar-88	-3.0900%	-5.2700%	0.7200%	0.7825%	0.7992%	0.7908%	0.8396%	-3.8100%	-3.8808%	-6.1096%	-8.32%	8.64%	9.49%	-16.96%	-17.81%	-3.62%	10.07%	-13.70%
Apr-88	1.1100%	0.1900%	0.7000%	0.8058%	0.8217%	0.8138%	0.8768%	0.4100%	0.2963%	-0.6868%	-6.47%	8.40%	9.77%	-14.87%	-16.24%	0.73%	10.52%	-9.79%
May-88	0.8600%	4.6000%	0.7800%	0.8250%	0.8417%	0.8333%	0.8993%	0.0800%	0.0267%	3.7007%	-6.48%	9.36%	10.00%	-15.84%	-16.48%	6.04%	10.79%	-4.75%
Jun-88	4.5900%	3.1500%	0.7600%	0.8217%	0.8442%	0.8329%	0.9005%	3.8300%	3.7571%	2.2495%	-6.89%	9.12%	10.00%	-16.01%	-16.89%	4.78%	10.81%	-6.02%
Jul-88	-0.3800%	0.1700%	0.7100%	0.8300%	0.8550%	0.8425%	0.9187%	-1.0900%	-1.2225%	-0.7487%	-11.72%	8.52%	10.11%	-20.24%	-21.83%	5.22%	11.02%	-5.80%
Aug-88	-3.3900%	-1.3700%	0.8300%	0.8425%	0.8642%	0.8533%	0.9308%	-4.2200%	-4.2433%	-2.3008%	-17.78%	9.96%	10.24%	-27.74%	-28.02%	-1.41%	11.17%	-12.58%
Sep-88	4.2600%	4.1300%	0.7600%	0.8183%	0.8383%	0.8283%	0.8889%	3.5000%	3.4317%	3.2412%	-12.36%	9.12%	9.94%	-21.48%	-22.30%	2.44%	10.67%	-8.22%
Oct-88	2.7800%	2.6200%	0.7600%	0.7917%	0.8083%	0.8000%	0.8318%	2.0200%	1.9800%	1.7882%	14.81%	9.12%	9.60%	5.69%	5.21%	13.10%	9.98%	3.12%
Nov-88	-1.4300%	-0.7900%	0.7000%	0.7875%	0.8100%	0.7988%	0.8242%	-2.1300%	-2.2288%	-1.6142%	23.33%	8.40%	9.59%	14.93%	13.74%	18.80%	9.89%	8.91%
Dec-88	1.7400%	0.6300%	0.7500%	0.7975%	0.8175%	0.8075%	0.8377%	0.9900%	0.9325%	-0.2077%	16.60%	9.00%	9.69%	7.60%	6.91%	18.27%	10.05%	8.22%
Jan-89	7.3200%	5.7100%	0.8000%	0.8017%	0.8175%	0.8096%	0.8404%	6.5200%	6.5104%	4.8696%	20.08%	9.60%	9.72%	10.48%	10.36%	12.10%	10.08%	2.01%
Feb-89	-2.4900%	-2.1500%	0.6900%	0.8033%	0.8192%	0.8113%	0.8383%	-3.1800%	-3.3013%	-2.9883%	11.88%	8.28%	9.74%	3.60%	2.14%	11.64%	10.06%	1.58%
Mar-89	2.3300%	2.6900%	0.7900%	0.8167%	0.8317%	0.8242%	0.8535%	1.5400%	1.5058%	1.8366%	18.13%	9.48%	9.89%	8.65%	8.24%	21.02%	10.24%	10.78%
Apr-89	5.1900%	6.3400%	0.7000%	0.8158%	0.8283%	0.8221%	0.8492%	4.4900%	4.3679%	5.4908%	22.90%	8.40%	9.87%	14.50%	13.03%	28.45%	10.19%	18.26%
May-89	4.0500%	5.8000%	0.8000%	0.7975%	0.8125%	0.8050%	0.8334%	3.2500%	3.2450%	4.9666%	26.79%	9.60%	9.66%	17.19%	17.13%	29.93%	10.00%	19.92%
Jun-89	-0.5700%	1.6100%	0.7000%	0.7583%	0.7742%	0.7663%	0.8049%	-1.2700%	-1.3363%	0.8052%	20.53%	8.40%	9.20%	12.13%	11.34%	27.99%	9.66%	18.33%
Jul-89	9.0300%	8.0400%	0.6800%	0.7442%	0.7617%	0.7529%	0.7920%	8.3500%	8.2771%	7.2480%	31.92%	8.16%	9.04%	23.76%	22.88%	38.04%	9.50%	28.54%
Aug-89	1.9500%	-0.5700%	0.6600%	0.7467%	0.7617%	0.7542%	0.7929%	1.2900%	1.1958%	-1.3629%	39.21%	7.92%	9.05%	31.29%	30.16%	39.16%	9.51%	29.65%
Sep-89	-0.4100%	1.7000%	0.6500%	0.7508%	0.7692%	0.7600%	0.7987%	-1.0600%	-1.1700%	0.9013%	32.97%	7.80%	9.12%	25.17%	23.85%	35.91%	9.58%	26.33%
Oct-89	-2.3200%	0.4500%	0.7200%	0.7433%	0.7658%	0.7546%	0.7949%	-3.0400%	-3.0746%	-0.3449%	26.37%	8.64%	9.06%	17.73%	17.32%	33.04%	9.54%	23.50%
Nov-89	2.0400%	3.3600%	0.6400%	0.7408%	0.7617%	0.7513%	0.7930%	1.4000%	1.2888%	2.5670%	30.82%	7.68%	9.02%	23.14%	21.81%	38.60%	9.52%	29.09%
Dec-89	2.4000%	7.3100%	0.6400%	0.7383%	0.7592%	0.7488%	0.7861%	1.7600%	1.6513%	6.5239%	31.67%	7.68%	8.99%	23.99%	22.69%	47.81%	9.43%	38.37%
Jan-90	-6.7100%	-8.0900%	0.7300%	0.7492%	0.7725%	0.7608%	0.7956%	-7.4400%	-7.4708%	-8.8456%	14.46%	8.76%	9.13%	5.70%	5.33%	28.51%	9.55%	18.96%
Feb-90	1.2900%	-1.0900%	0.6600%	0.7683%	0.7867%	0.7775%	0.8130%	0.6300%	0.5125%	-1.9030%	18.90%	7.92%	9.33%	10.98%	9.57%	29.90%	9.76%	20.15%
Mar-90	2.6500%	1.8700%	0.7100%	0.7808%	0.7925%	0.7867%	0.8205%	1.9400%	1.8633%	1.0495%	19.27%	8.52%	9.44%	10.75%	9.83%	28.86%	9.85%	19.02%
Apr-90	-2.4900%	-3.8500%	0.7500%	0.7883%	0.8033%	0.7958%	0.8259%	-3.2400%	-3.2858%	-4.6759%	10.56%	9.00%	9.55%	1.56%	1.01%	16.52%	9.91%	6.61%
May-90	9.7500%	6.8200%	0.7500%	0.7892%	0.8083%	0.7988%	0.8338%	9.0000%	8.9513%	5.9862%	16.62%	9.00%	9.59%	7.62%	7.03%	17.64%	10.01%	7.63%
Jun-90	-0.6700%	-2.1100%	0.6800%	0.7717%	0.7908%	0.7813%	0.8175%	-1.3500%	-1.4513%	-2.9275%	16.50%	8.16%	9.38%	8.34%	7.12%	13.33%	9.81%	3.52%
Jul-90	-0.3200%	-0.3200%	0.7400%	0.7700%	0.7892%	0.7796%	0.8132%	-1.0600%	-1.0996%	-1.1332%	6.51%	8.88%	9.36%	-2.37%	-2.85%	4.56%	9.76%	-5.19%
Aug-90	-9.0400%	-7.9200%	0.7100%	0.7842%	0.8025%	0.7933%	0.8246%	-9.7500%	-9.8333%	-8.7446%	-4.97%	8.52%	9.52%	-13.49%	-14.49%	-3.17%	9.90%	-13.06%
Sep-90	-4.8700%	4.1100%	0.6900%	0.7967%	0.8142%	0.8054%	0.8431%	-5.5600%	-5.6754%	3.2669%	-9.23%	8.28%	9.67%	-17.51%	-18.89%	-0.87%	10.12%	-10.99%
Oct-90	-0.4300%	6.5300%	0.8100%	0.7942%	0.8142%	0.8042%	0.8386%	-1.2400%	-1.2342%	5.6915%	-7.47%	9.72%	9.65%	-17.19%	-17.12%	5.13%	10.06%	-4.93%
Nov-90	6.4600%	1.9300%	0.7100%	0.7750%	0.7992%	0.7871%	0.8260%	5.7500%	5.6729%	1.1040%	-3.46%	8.52%	9.45%	-11.98%	-12.91%	3.67%	9.91%	-6.24%
Dec-90	2.7900%	0.8600%	0.7200%	0.7542%	0.7825%	0.7683%	0.8109%	2.0700%	2.0217%	0.0491%	-3.10%	8.64%	9.22%	-11.74%	-12.32%	-2.56%	9.73%	-12.29%
Jan-91	4.3600%	-3.0100%	0.7100%	0.7533%	0.7808%	0.7671%	0.8094%	3.6500%	3.5929%	-3.8194%	8.40%	8.52%	9.21%	-0.12%	-0.80%	2.83%	9.71%	-6.88%
Feb-91	7.1500%	3.4900%	0.6400%	0.7358%	0.7633%	0.7496%	0.7898%	6.5100%	6.4004%	2.7002%	14.67%	7.68%	9.00%	6.99%	5.68%	7.59%	9.48%	-1.89%
Mar-91	2.4200%	1.9800%	0.6400%	0.7442%	0.7675%	0.7558%	0.7961%	1.7800%	1.6642%	1.1839%	14.42%	7.68%	9.07%	6.74%	5.35%	7.71%	9.55%	-1.85%
Apr-91	0.2400%	-1.6200%	0.7600%	0.7383%	0.7600%	0.7492%	0.7887%	-0.5200%	-0.5092%	-2.4087%	17.62%	9.12%	8.99%	8.50%	8.63%	10.20%	9.46%	0.74%
May-91	4.3100%	-1.3000%	0.6800%	0.7383%	0.7625%	0.7504%	0.7860%	3.6300%	3.5596%	-2.0860%	11.79%	8.16%	9.01%	3.63%	2.78%	1.83%	9.43%	-7.61%
Jun-91	-4.5800%	-1.3900%	0.6300%	0.7508%	0.7733%	0.7621%	0.7986%	-5.2100%	-5.3421%	-2.1886%	7.39%	7.56%	9.15%	-0.17%	-1.76%	2.58%	9.58%	-7.01%
Jul-91	4.6600%	3.0700%	0.7600%	0.7500%	0.7708%	0.7604%	0.7956%	3.9000%	3.8996%	2.2744%	12.75%	9.12%	9.13%	3.63%	3.63%	6.06%	9.55%	-3.48%
Aug-91	2.3700%	2.5800%	0.6800%	0.7292%	0.7492%	0.7392%	0.7754%	1.6900%	1.6308%	1.8046%	26.90%	8.16%	8.87%	18.74%	18.03%	18.16%	9.31%	8.85%
Sep-91	-1.6700%	2.0200%	0.6800%	0.7175%	0.7383%	0.7279%	0.7638%	-2.3500%	-2.3979%	1.2562%	31.17%	8.16%	8.74%	23.01%	22.43%	15.79%	9.17%	6.62%
Oct-91	1.3400%	2.0000%	0.6500%	0.7125%	0.7358%	0.7242%	0.7601%	0.6900%	0.6158%	1.2399%	33.50%	7.80%	8.69%	25.70%	24.81%	10.86%	9.12%	1.74%
Nov-91	-4.0300%	-0.9800%	0.6000%	0.7067%	0.7317%	0.7192%	0.7545%	-4.6300%	-4.7492%	-1.7345%	20.34%	7.20%	8.63%	13.14%	11.71%	7.70%	9.05%	-1.36%
Dec-91	11.4400%	7.3300%	0.6800%	0.6925%	0.7175%	0.7050%	0.7416%	10.7600%	10.7350%	6.5884%	30.47%	8.16%	8.46%	22.31%	22.01%	14.61%	8.90%	5.71%
Jan-92	-1.8600%	-5.3600%	0.6100%	0.6833%	0.7092%	0.6963%	0.7360%	-2.4700%	-2.5563%	-6.0960%	22.69%	7.32%	8.36%	15.37%	14.34%	11.83%	8.83%	3.00%
Feb-92	1.3000%	-2.7300%	0.5900%	0.6908%	0.7225%	0.7067%	0.7442%	0.7100%	0.5933%	-3.4742%	16.00%	7.08%	8.48%	8.92%	7.52%	5.11%	8.93%	-3.82%
Mar-92	-1.9400%	-1.4300%	0.6700%	0.6958%	0.7275%	0.7117%	0.7473%	-2.6100%	-2.6517%	-2.1773%	11.06%	8.04%	8.54%	3.02%	2.52%	1.59%	8.97%	-7.37%
Apr-92	2.9400%	6.4500%	0.6500%	0.6942%	0.7242%	0.7092%	0.7438%	2.2900%	2.2308%	5.7062%	14.05%	7.80%	8.51%	6.25%	5.54%	9.93%	8.93%	1.00%
May-92	0.4900%	-0.1500%	0.6100%	0.6900%	0.7192%	0.7046%	0.7400%	-0.1200%	-0.2146%	-0.8900%	9.87%	7.32%	8.46%	2.55%	1.42%	11.21%	8.88%	2.33%
Jun-92	-1.4900%	1.4100%	0.6700%	0.6850%	0.7133%	0.6992%	0.7323%	-2.1600%	-2.1892%	0.6777%	13.43%	8.04%	8.39%	5.39%	5.04%	14.37%	8.79%	5.58%
Jul-92	4.0900%	7.9000%	0.6300%	0.6725%	0.6975%	0.6850%	0.7149%	3.4600%	3.4050%	7.1851%	12.81%	7.56%	8.22%	5.25%	4.59%	19.73%	8.58%	11.15%
Aug-92	-2.0500%	-0.7400%	0.6000%	0.6625%	0.6842%	0.6733%	0.7031%	-2.6500%	-2.7233%	-1.4431%	7.94%	7.20%	8.08%	0.74%	-0.14%	15.85%	8.44%	7.41%
Sep-92	1.1800%	0.7300%	0.5800%	0.6600%	0.6808%	0.6704%	0.7006%	0.6000%	0.5096%	0.0294%	11.07%	6.96%	8.05%	4.11%	3.03%	14.39%	8.41%	5.98%
Oct-92	0.3500%	-0.9400%	0.5700%	0.6658%	0.6933%	0.6796%	0.7106%	-0.2200%	-0.3296%	-1.6506%	9.99%	6.84%	8.16%	3.15%	1.83%	11.09%	8.53%	2.56%
Nov-92	3.4100%	-0.1500%	0.6100%	0.6750%	0.7000%	0.6875%	0.7193%	2.8000%	2.7225%	-0.8693%	18.51%	7.32%	8.25%	11.19%	10.26%	12.02%	8.63%	3.39%
Dec-92	1.2300%	3.5800%	0.6300%	0.6650%	0.6867%	0.6758%	0.7042%	0.6000%	0.5542%	2.8758%	7.65%	7.56%	8.11%	0.09%	-0.46%	8.11%	8.45%	-0.34%
Jan-93	0.8400%	1.5700%	0.5900%	0.6592%	0.6758%	0.6675%	0.6901%	0.2500%	0.1725%	0.8799%	10.62%	7.08%	8.01%	3.54%	2.61%	16.02%	8.28%	7.74%
Feb-93	1.3600%	7.2100%	0.5500%	0.6425%	0.6583%	0.6504%	0.6704%	0.8100%	0.7096%	6.5396%	10.68%	6.60%	7.81%	4.08%	2.88%	27.88%	8.04%	19.83%
Mar-93	2.1100%	1.8000%	0.6300%	0.6317%	0.6433%	0.6375%	0.6586%	1.4800%	1.4725%	1.1415%	15.25%	7.56%	7.65%	7.69%	7.60%	32.07%	7.90%	24.17%
Apr-93	-2.4200%	-0.2700%	0.5700%	0.6217%	0.6350%	0.6283%	0.6515%	-2.9900%	-3.0483%	-0.9215%	9.25%	6.84%	7.54%	2.41%	1.71%	23.73%	7.82%	15.91%
May-93	2.6800%	-1.9100%	0.5200%	0.6192%	0.6342%	0.6267%	0.6549%	2.1600%	2.0533%	-2.5649%	11.63%	6.24%	7.52%	5.39%	4.11%	21.55%	7.86%	13.69%
Jun-93	0.2900%	4.6300%	0.6200%	0.6108%	0.6258%	0.6183%	0.6469%	-0.3300%	-0.3283%	3.9831%	13.65%	7.44%	7.42%	6.21%	6.23%	25.41%	7.76%	17.65%
Jul-93	-0.4000%	2.2600%	0.5400%	0.5975%	0.6125%	0.6050%	0.6285%	-0.9400%	-1.0050%	1.6316%	8.75%	6.48%	7.26%	2.27%	1.49%	18.85%	7.54%	11.31%
Aug-93	3.7900%	4.8400%	0.5600%	0.5708%	0.5883%	0.5796%	0.6059%	3.2300%	3.2104%	4.2341%	15.23%	6.72%	6.96%	8.51%	8.28%	25.54%	7.27%	18.27%
Sep-93	-0.7700%	-0.2000%	0.5000%	0.5550%	0.5708%	0.5629%	0.5864%	-1.2700%	-1.3329%	-0.7864%	13.01%	6.00%	6.76%	7.01%	6.26%	24.38%	7.04%	17.34%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPSPA	Mkt Annlized Return	RF Annualized Yield	AAAAA Annualized Yield	MRP RP	AAAAA RP	S&P U Annulized Yield	A Annualized Yield	SPA RP
Oct-93	2.0700%	-0.2100%	0.4900%	0.5558%	0.5725%	0.5642%	0.5857%	1.5800%	1.5058%	-0.7957%	14.95%	5.88%	6.77%	9.07%	8.18%	25.29%	7.03%	18.27%
Nov-93	-0.9500%	-5.0700%	0.5300%	0.5775%	0.5933%	0.5854%	0.6067%	-1.4800%	-1.5354%	-5.6767%	10.10%	6.36%	7.03%	3.74%	3.08%	19.12%	7.28%	11.84%
Dec-93	1.2100%	-0.5300%	0.5500%	0.5775%	0.5933%	0.5854%	0.6113%	0.6600%	0.6246%	-1.1413%	10.08%	6.60%	7.03%	3.48%	3.05%	14.39%	7.34%	7.06%
Jan-94	3.4000%	0.7200%	0.5500%	0.5767%	0.5933%	0.5850%	0.6110%	2.8500%	2.8150%	0.1090%	12.87%	6.60%	7.02%	6.27%	5.85%	13.44%	7.33%	6.10%
Feb-94	-2.7100%	-5.6700%	0.4900%	0.5900%	0.6075%	0.5988%	0.6205%	-3.2000%	-3.3088%	-6.2905%	8.34%	5.88%	7.19%	2.46%	1.16%	-0.19%	7.45%	-7.64%
Mar-94	-4.3600%	-3.3800%	0.5800%	0.5900%	0.6075%	0.5988%	0.6528%	-4.9400%	-4.9588%	-4.0328%	1.48%	6.96%	7.19%	-5.48%	-5.71%	-5.27%	7.83%	-13.10%
Apr-94	1.2800%	2.4600%	0.5700%	0.6233%	0.6408%	0.6321%	0.6851%	0.7100%	0.6479%	1.7749%	5.32%	6.84%	7.59%	-1.52%	-2.26%	-2.68%	8.22%	-10.90%
May-94	1.6400%	-2.6800%	0.6300%	0.6658%	0.6825%	0.6742%	0.6939%	1.0100%	0.9658%	-3.3739%	4.26%	7.56%	8.09%	-3.30%	-3.83%	-3.44%	8.33%	-11.77%
Jun-94	-2.4500%	0.2100%	0.6100%	0.6642%	0.6808%	0.6725%	0.6923%	-3.0600%	-3.1225%	-0.4823%	1.41%	7.32%	8.07%	-5.91%	-6.66%	-7.52%	8.31%	-15.83%
Jul-94	3.2800%	3.3600%	0.6000%	0.6758%	0.6925%	0.6842%	0.7063%	2.6800%	2.5958%	2.6537%	5.16%	7.20%	8.21%	-2.04%	-3.05%	-6.53%	8.48%	-15.00%
Aug-94	4.1000%	-0.2800%	0.6600%	0.6725%	0.6875%	0.6800%	0.7006%	3.4400%	3.4200%	-0.9806%	5.47%	7.92%	8.16%	-2.45%	-2.69%	-11.09%	8.41%	-19.50%
Sep-94	-2.4500%	-2.5400%	0.6100%	0.6950%	0.7075%	0.7013%	0.7187%	-3.0600%	-3.1513%	-3.2587%	3.68%	7.32%	8.42%	-3.64%	-4.73%	-13.18%	8.62%	-21.80%
Oct-94	2.2500%	0.8600%	0.6600%	0.7142%	0.7258%	0.7200%	0.7377%	1.5900%	1.5300%	0.1223%	3.87%	7.92%	8.64%	-4.05%	-4.77%	-12.24%	8.85%	-21.10%
Nov-94	-3.6400%	-1.4600%	0.6400%	0.7233%	0.7358%	0.7296%	0.7486%	-4.2800%	-4.3696%	-2.2086%	1.05%	7.68%	8.76%	-6.63%	-7.71%	-8.91%	8.98%	-17.89%
Dec-94	1.4800%	0.5200%	0.6600%	0.7050%	0.7183%	0.7117%	0.7307%	0.8200%	0.7683%	-0.2107%	1.32%	7.92%	8.54%	-6.60%	-7.22%	-7.95%	8.77%	-16.71%
Jan-95	2.5900%	7.7900%	0.7000%	0.7050%	0.7167%	0.7108%	0.7288%	1.8900%	1.8792%	7.0612%	0.52%	8.40%	8.53%	-7.88%	-8.01%	-1.48%	8.75%	-10.23%
Feb-95	3.9000%	-0.1500%	0.5900%	0.6883%	0.6992%	0.6938%	0.7108%	3.3100%	3.2063%	-0.8608%	7.35%	7.08%	8.33%	0.27%	-0.97%	4.28%	8.53%	-4.25%
Mar-95	2.9500%	-0.6000%	0.6400%	0.6767%	0.6867%	0.6817%	0.6979%	2.3100%	2.2683%	-1.2979%	15.56%	7.68%	8.18%	7.88%	7.38%	7.28%	8.37%	-1.09%
Apr-95	2.9400%	3.6500%	0.5800%	0.6692%	0.6767%	0.6729%	0.6898%	2.3600%	2.2671%	2.9602%	17.45%	6.96%	8.08%	10.49%	9.38%	8.53%	8.28%	0.25%
May-95	4.0000%	3.1600%	0.6500%	0.6375%	0.6450%	0.6413%	0.6610%	3.3500%	3.3588%	2.4990%	20.18%	7.80%	7.70%	12.38%	12.48%	15.04%	7.93%	7.11%
Jun-95	2.3200%	0.4700%	0.5400%	0.6083%	0.6192%	0.6138%	0.6336%	1.7800%	1.7063%	-0.1636%	26.05%	6.48%	7.37%	19.57%	18.69%	15.34%	7.60%	7.74%
Jul-95	3.3200%	2.5500%	0.5600%	0.6175%	0.6283%	0.6229%	0.6408%	2.7600%	2.6971%	1.9092%	26.10%	6.72%	7.48%	19.38%	18.63%	14.43%	7.69%	6.75%
Aug-95	0.2500%	2.0200%	0.5700%	0.6308%	0.6408%	0.6358%	0.6532%	-0.3200%	-0.3858%	1.3668%	21.44%	6.84%	7.63%	14.60%	13.81%	17.07%	7.84%	9.24%
Sep-95	4.2200%	6.3800%	0.5200%	0.6100%	0.6208%	0.6154%	0.6350%	3.7000%	3.6046%	5.7450%	29.74%	6.24%	7.39%	23.50%	22.36%	27.79%	7.62%	20.17%
Oct-95	-0.3600%	2.3800%	0.5700%	0.5933%	0.6058%	0.5996%	0.6224%	-0.9300%	-0.9596%	1.7576%	26.43%	6.84%	7.20%	19.59%	19.24%	29.72%	7.47%	22.25%
Nov-95	4.3900%	1.3600%	0.5100%	0.5850%	0.5983%	0.5917%	0.6200%	3.8800%	3.7983%	0.7400%	36.97%	6.12%	7.10%	30.85%	29.87%	33.43%	7.44%	25.99%
Dec-95	1.9300%	7.0800%	0.4900%	0.5683%	0.5825%	0.5754%	0.6045%	1.4400%	1.3546%	6.4755%	37.57%	5.88%	6.91%	31.69%	30.67%	42.13%	7.25%	34.88%
Jan-96	3.4000%	1.2900%	0.5400%	0.5675%	0.5825%	0.5750%	0.6006%	2.8600%	2.8250%	0.6894%	38.66%	6.48%	6.90%	32.18%	31.76%	33.56%	7.21%	26.36%
Feb-96	0.9300%	-3.9500%	0.4800%	0.5825%	0.5967%	0.5896%	0.6125%	0.4500%	0.3404%	-4.5625%	34.70%	5.76%	7.08%	28.94%	27.62%	28.48%	7.35%	21.13%
Mar-96	0.9600%	-2.0300%	0.5200%	0.6125%	0.6267%	0.6196%	0.6435%	0.4400%	0.3404%	-2.6735%	32.09%	6.24%	7.44%	25.85%	24.66%	26.63%	7.72%	18.91%
Apr-96	1.4700%	1.1000%	0.5900%	0.6250%	0.6400%	0.6325%	0.6570%	0.8800%	0.8375%	0.4430%	30.21%	7.08%	7.59%	23.13%	22.62%	23.52%	7.88%	15.63%
May-96	2.5800%	-0.2500%	0.5800%	0.6350%	0.6475%	0.6413%	0.6650%	2.0000%	1.9388%	-0.9150%	28.43%	6.96%	7.70%	21.47%	20.73%	19.43%	7.98%	11.45%
Jun-96	0.3800%	4.1600%	0.5400%	0.6425%	0.6558%	0.6492%	0.6720%	-0.1600%	-0.2692%	3.4880%	25.99%	6.48%	7.79%	19.51%	18.20%	23.82%	8.06%	15.76%
Jul-96	-4.4200%	-6.2800%	0.6220%	0.6337%	0.6517%	0.6446%	0.6688%	-5.0400%	-5.0646%	-6.9488%	16.56%	7.44%	9.12%	7.74%	8.82%	13.16%	8.03%	5.13%
Aug-96	2.1100%	2.1300%	0.5700%	0.6217%	0.6358%	0.6288%	0.6532%	1.5400%	1.4813%	1.4768%	18.72%	6.84%	7.55%	11.88%	11.17%	13.28%	7.84%	5.44%
Sep-96	5.6300%	0.9500%	0.6000%	0.6383%	0.6517%	0.6450%	0.6681%	5.0300%	4.9850%	0.2819%	20.32%	7.20%	7.74%	13.12%	12.58%	7.50%	8.02%	-0.52%
Oct-96	2.7600%	5.0800%	0.5800%	0.6158%	0.6317%	0.6238%	0.6482%	2.1800%	2.1363%	4.4318%	24.09%	6.96%	7.49%	17.13%	16.61%	10.33%	7.78%	2.56%
Nov-96	7.5600%	2.1100%	0.5200%	0.5917%	0.6092%	0.6004%	0.6253%	7.0400%	6.9596%	1.4847%	27.86%	6.24%	7.21%	21.62%	20.66%	11.15%	7.50%	3.65%
Dec-96	-1.9800%	-0.6000%	0.5600%	0.6000%	0.6175%	0.6088%	0.6309%	-2.5400%	-2.5888%	-1.2309%	22.96%	6.72%	7.31%	16.24%	15.65%	3.18%	7.57%	-4.39%
Jan-97	6.2500%	0.6600%	0.5600%	0.6183%	0.6358%	0.6271%	0.6472%	5.6900%	5.6229%	0.0128%	26.35%	6.72%	7.53%	19.63%	18.82%	2.54%	7.77%	-5.23%
Feb-97	0.7800%	-0.9500%	0.5100%	0.6092%	0.6283%	0.6188%	0.6369%	0.2700%	0.1613%	-1.5869%	26.16%	6.12%	7.43%	20.04%	18.73%	5.74%	7.64%	-1.90%
Mar-97	-4.1100%	-3.0100%	0.5900%	0.6292%	0.6475%	0.6383%	0.6555%	-4.7000%	-4.7483%	-3.6655%	19.82%	7.08%	7.66%	12.74%	12.16%	4.68%	7.87%	-3.18%
Apr-97	5.9700%	-1.5000%	0.5900%	0.6442%	0.6608%	0.6525%	0.6697%	5.3800%	5.3175%	-2.1697%	25.14%	7.08%	7.83%	18.06%	17.31%	1.99%	8.04%	-6.05%
May-97	6.0900%	4.2300%	0.5800%	0.6317%	0.6500%	0.6408%	0.6575%	5.5100%	5.4492%	3.5725%	29.42%	6.96%	7.69%	22.46%	21.73%	6.57%	7.89%	-1.32%
Jun-97	4.4800%	3.1400%	0.5900%	0.6175%	0.6350%	0.6263%	0.6437%	3.8900%	3.8538%	2.4963%	34.70%	7.08%	7.52%	27.62%	27.19%	5.53%	7.72%	-2.20%
Jul-97	7.9600%	2.3000%	0.5800%	0.5950%	0.6133%	0.6042%	0.6241%	7.3800%	7.3558%	1.6759%	52.15%	6.96%	7.25%	45.19%	44.90%	15.19%	7.49%	7.70%
Aug-97	-5.6000%	-1.8300%	0.4900%	0.6017%	0.6167%	0.6092%	0.6248%	-6.0900%	-6.2092%	-2.4548%	40.66%	5.88%	7.31%	34.78%	33.35%	10.72%	7.50%	3.22%
Sep-97	5.4800%	4.3300%	0.5800%	0.5950%	0.6117%	0.6033%	0.6229%	4.9000%	4.8767%	3.7071%	40.46%	6.96%	7.24%	33.50%	33.22%	14.43%	7.47%	6.95%
Oct-97	-3.3400%	0.9800%	0.5400%	0.5833%	0.6000%	0.5917%	0.6130%	-3.8800%	-3.9317%	0.3670%	32.12%	6.48%	7.10%	25.64%	25.02%	9.96%	7.36%	2.61%
Nov-97	4.6300%	7.0700%	0.4700%	0.5725%	0.5892%	0.5808%	0.6039%	4.1600%	4.0492%	6.4661%	28.53%	5.64%	6.97%	22.89%	21.56%	15.30%	7.25%	8.06%
Dec-97	1.7200%	7.5200%	0.5400%	0.5633%	0.5825%	0.5729%	0.5970%	1.1800%	1.1471%	6.9230%	33.38%	6.48%	6.88%	26.90%	26.50%	24.72%	7.16%	17.56%
Jan-98	1.1100%	-3.9500%	0.4800%	0.5508%	0.5683%	0.5596%	0.5878%	0.6300%	0.5504%	-4.5378%	26.92%	5.76%	6.72%	21.16%	20.21%	19.01%	7.05%	11.96%
Feb-98	7.2100%	3.4100%	0.4400%	0.5558%	0.5733%	0.5646%	0.5932%	6.7700%	6.6454%	2.8168%	35.02%	5.28%	6.78%	29.74%	28.25%	24.25%	7.12%	17.13%
Mar-98	5.1200%	6.4200%	0.5200%	0.5592%	0.5775%	0.5683%	0.5968%	4.6000%	4.5517%	5.8232%	48.02%	6.24%	6.82%	41.78%	41.20%	36.33%	7.16%	29.17%
Apr-98	1.0100%	-1.9300%	0.4900%	0.5575%	0.5750%	0.5663%	0.5968%	0.5200%	0.4438%	-2.5268%	41.09%	5.88%	6.80%	35.21%	34.30%	35.74%	7.16%	28.57%
May-98	-1.7200%	-0.5000%	0.4800%	0.5575%	0.5758%	0.5667%	0.5969%	-2.2000%	-2.2867%	-1.0969%	30.70%	5.76%	6.80%	24.94%	23.90%	29.58%	7.16%	22.41%
Jun-98	4.0600%	3.6900%	0.5200%	0.5442%	0.5650%	0.5546%	0.5864%	3.5400%	3.5054%	3.1036%	30.18%	6.24%	6.66%	23.94%	23.52%	30.27%	7.04%	23.23%
Jul-98	-1.0600%	-4.9300%	0.4900%	0.5458%	0.5650%	0.5554%	0.5853%	-1.5500%	-1.6154%	-5.5153%	19.30%	5.88%	6.67%	13.42%	12.64%	21.06%	7.02%	14.04%
Aug-98	-14.4600%	1.6100%	0.4800%	0.5433%	0.5642%	0.5538%	0.5835%	-14.9400%	-15.0138%	1.0265%	8.11%	5.76%	6.65%	2.35%	1.46%	25.30%	7.00%	18.30%
Sep-98	6.4100%	8.3500%	0.4400%	0.5333%	0.5567%	0.5450%	0.5780%	5.9700%	5.8650%	7.7720%	9.06%	5.28%	6.54%	3.78%	2.52%	30.13%	6.94%	23.19%
Oct-98	8.1300%	-1.6600%	0.4200%	0.5308%	0.5583%	0.5446%	0.5796%	7.7100%	7.5854%	-2.2396%	22.00%	5.04%	6.54%	16.96%	15.47%	26.73%	6.96%	19.77%
Nov-98	6.0600%	1.3400%	0.4500%	0.5342%	0.5658%	0.5500%	0.5864%	5.6100%	5.5100%	0.7536%	23.67%	5.40%	6.60%	18.27%	17.07%	19.95%	7.04%	12.91%
Dec-98	5.7600%	2.9500%	0.4500%	0.5183%	0.5542%	0.5363%	0.5757%	5.3100%	5.2238%	2.3743%	28.58%	5.40%	6.44%	23.18%	22.14%	14.85%	6.91%	7.94%
Jan-99	4.1800%	-4.5100%	0.4200%	0.5200%	0.5567%	0.5383%	0.5808%	3.7600%	3.6417%	-5.0908%	32.48%	5.04%	6.46%	27.44%	26.02%	14.18%	6.97%	7.21%
Feb-99	-3.1100%	-3.6400%	0.4000%	0.5333%	0.5658%	0.5496%	0.5897%	-3.5100%	-3.6596%	-4.2297%	19.73%	4.80%	6.60%	14.93%	13.14%	6.39%	7.08%	-0.68%
Mar-99	4.0000%	-1.4800%	0.5300%	0.5517%	0.5817%	0.5667%	0.6046%	3.4700%	3.4333%	-2.0846%	18.45%	6.36%	6.80%	12.09%	11.65%	-1.50%	7.26%	-8.76%
Apr-99	3.8700%	8.8400%	0.4800%	0.5533%	0.5800%	0.5667%	0.6012%	3.3900%	3.3033%	8.2388%	21.81%	5.76%	6.80%	16.05%	15.01%	9.31%	7.21%	2.10%
May-99	-2.3600%	6.0900%	0.4500%	0.5775%	0.6025%	0.5900%	0.6214%	-2.8100%	-2.9500%	5.4686%	21.02%	5.40%	7.08%	15.62%	13.94%	16.55%	7.46%	9.10%
Jun-99	5.5500%	-3.3200%	0.5500%	0.6025%	0.6267%	0.6146%	0.6445%	5.0000%	4.9354%	-3.9645%	22.75%	6.60%	7.38%	16.15%	15.37%	8.67%	7.73%	0.94%
Jul-99	-3.1200%	-1.1400%	0.5100%	0.5992%	0.6233%	0.6113%	0.6418%	-3.6300%	-3.7313%	-1.7818%	20.19%	6.12%	7.34%	14.07%	12.86%	13.01%	7.70%	5.30%
Aug-99	-0.4900%	1.1700%	0.5400%	0.6167%	0.6400%	0.6283%	0.6589%	-1.0300%	-1.1183%	0.5111%	39.82%	6.48%	7.54%	33.34%	32.28%	12.52%	7.91%	4.61%
Sep-99	-2.7400%	-4.8000%	0.5200%	0.6158%	0.6400%	0.6279%	0.6610%	-3.2600%	-3.3679%	-5.4610%	27.80%	6.24%	7.54%	21.56%	20.26%	-1.14%	7.93%	-9.07%
Oct-99	6.3300%	1.5700%	0.5000%	0.6292%	0.6492%	0.6392%	0.6721%	5.8300%	5.6908%	0.8979%	25.67%	6.00%	7.67%	19.67%	18.00%	2.11%	8.06%	-5.96%
Nov-99	2.0300%	-7.7300%	0.5600%	0.6133%	0.6350%	0.6242%	0.6610%	1.4700%	1.4058%	-8.3910%	20.90%	6.72%	7.49%	14.18%	13.41%	-7.03%	7.93%	-14.96%
Dec-99	5.8900%	0.9300%	0.5500%	0.6292%	0.6483%	0.6388%	0.6766%	5.3400%	5.2513%	0.2534%	21.04%	6.60%	7.67%	14.44%	13.38%	-8.85%	8.12%	-16.97%
Jan-00	-5.0200%	10.8500%	0.5700%	0.6483%	0.6633%	0.6558%	0.6956%	-5.5900%	-5.6758%	10.1544%	10.36%	6.84%	7.87%	3.52%	2.49%	5.81%	8.35%	-2.54%
Feb-00	-1.8900%	-5.7800%	0.5100%	0.6400%	0.6517%	0.6458%	0.6874%	-2.4000%	-2.5358%	-6.4674%	11.75%	6.12%	7.75%	5.63%	4.00%	3.46%	8.25%	-4.79%
Mar-00	9.7800%	3.4900%	0.5400%	0.6400%	0.6525%	0.6463%	0.6906%	9.2400%	9.1338%	2.7994%	17.96%	6.48%	7.76%	11.48%	10.20%	8.68%	8.29%	0.39%
Apr-00	-3.0100%	7.9400%	0.4700%	0.6367%	0.6517%	0.6442%	0.6898%	-3.4800%	-3.6542%	7.2502%	10.14%	5.64%	7.73%	4.50%	2.41%	7.78%	8.28%	-0.50%
May-00	-2.0500%	4.8600%	0.5600%	0.6658%	0.6867%	0.6763%	0.7244%	-2.6100%	-2.7263%	4.1356%	10.49%	6.72%	8.12%	3.77%	2.38%	6.53%	8.69%	-2.16%
Jun-00	2.4700%	-5.7500%	0.5200%	0.6392%	0.6558%	0.6475%	0.6980%	1.9500%	1.8225%	-6.4480%	7.27%	6.24%	7.77%	1.03%	-0.50%	3.85%	8.38%	-4.53%
Jul-00	-1.5600%	6.7700%	0.5200%	0.6375%	0.6508%	0.6442%	0.6882%	-2.0800%	-2.2042%	6.0818%	9.00%	6.24%	7.73%	2.76%	1.27%	12.16%	8.26%	3.90%
Aug-00	6.2100%	13.7200%	0.5000%	0.6292%	0.6417%	0.6354%	0.6774%	5.7100%	5.5746%	13.0426%	16.33%	6.00%	7.63%	10.33%	8.71%	26.07%	8.13%	17.94%
Sep-00	-5.2800%	9.1500%	0.4600%	0.6350%	0.6525%	0.6438%	0.6853%	-5.7400%	-5.9238%	8.4647%	13.30%	5.52%	7.73%	7.78%	5.57%	44.55%	8.22%	36.32%
Oct-00	-0.4200%	-3.5700%	0.5300%	0.6292%	0.6508%	0.6400%	0.6787%	-0.9500%	-1.0600%	-4.2487%	6.10%	6.36%	7.68%	-0.26%	-1.58%	37.23%	8.14%	29.09%
Nov-00	-7.8800%	-1.3200%	0.4800%	0.6208%	0.6458%	0.6333%	0.6772%	-8.3600%	-8.5133%	-1.9972%	-4.20%	5.76%	7.60%	-9.96%	-11.80%	46.76%	8.13%	38.64%
Dec-00	0.4900%	9.8200%	0.4500%	0.6008%	0.6233%	0.6121%	0.6547%	0.0400%	-0.1221%	9.1654%	-9.09%	5.40%	7.35%	-14.49%	-16.43%	59.69%	7.86%	51.84%
Jan-01	3.5500%	-9.6700%	0.4900%	0.5958%	0.6150%	0.6054%	0.6499%	3.0600%	2.9446%	-10.3199%	-0.88%	5.88%	7.27%	-6.76%	-8.15%	30.13%	7.80%	22.33%
Feb-01	-9.1200%	3.5300%	0.4200%	0.5917%	0.6100%	0.6008%	0.6449%	-9.5400%	-9.7208%	2.8851%	-8.19%	5.04%	7.21%	-13.23%	-15.40%	42.99%	7.74%	35.25%
Mar-01	-6.3400%	-0.6300%	0.4500%	0.5817%	0.6017%	0.5917%	0.6394%	-6.7900%	-6.9317%	-1.2694%	-21.67%	5.40%	7.10%	-27.07%	-28.77%	37.30%	7.67%	29.62%
Apr-01	7.7700%	6.0500%	0.4700%	0.6000%	0.6192%	0.6096%	0.6603%	7.3000%	7.1604%	5.3897%	-12.96%	5.64%	7.32%	-18.60%	-20.28%	34.89%	7.92%	26.97%
May-01	0.6700%	-3.4300%	0.5000%	0.6075%	0.6250%	0.6163%	0.6663%	0.1700%	0.0538%	-4.0963%	-10.55%	6.00%	7.40%	-16.55%	-17.94%	24.23%	8.00%	16.23%
Jun-01	-2.4300%	-7.9100%	0.4700%	0.5983%	0.6117%	0.6050%	0.6546%	-2.9000%	-3.0350%	-8.5646%	-14.82%	5.64%	7.26%	-20.46%	-22.08%	21.38%	7.86%	13.53%
Jul-01	-0.9800%	-4.4800%	0.5200%	0.5942%	0.6058%	0.6000%	0.6494%	-1.5000%	-1.5800%	-5.1294%	-14.32%	6.24%	7.20%	-20.56%	-21.52%	8.59%	7.79%	0.80%
Aug-01	-6.2600%	-2.9000%	0.4600%	0.6000%	0.5925%	0.5963%	0.6329%	-6.7200%	-6.8563%	-3.5329%	-24.38%	5.52%	7.16%	-29.90%	-31.54%	-7.28%	7.59%	-14.87%
Sep-01	-8.0800%	-11.5200%	0.4100%	0.5975%	0.6058%	0.6017%	0.6423%	-8.4900%	-8.6817%	-12.1623%	-26.62%	4.92%	7.22%	-31.54%	-33.84%	-24.84%	7.71%	-32.54%
Oct-01	1.9100%	-0.1700%	0.4800%	0.5858%	0.5942%	0.5900%	0.6373%	1.4300%	1.3200%	-0.8073%	-24.90%	5.76%	7.08%	-30.66%	-31.98%	-22.19%	7.65%	-29.83%
Nov-01	7.6700%	-5.5200%	0.4100%	0.5808%	0.5842%	0.5825%	0.6287%	7.2600%	7.0875%	-6.1487%	-12.22%	4.92%	6.99%	-17.14%	-19.21%	-25.50%	7.54%	-33.04%
Dec-01	0.8800%	2.6000%	0.4600%	0.5633%	0.5992%	0.5813%	0.6526%	0.4200%	0.2988%	1.9474%	-11.88%	5.52%	6.98%	-17.40%	-18.86%	-30.40%	7.83%	-38.23%
Jan-02	-1.4600%	-5.6500%	0.4800%	0.5458%	0.5858%	0.5658%	0.6387%	-1.9400%	-2.0258%	-6.2887%	-16.15%	5.76%	6.79%	-21.91%	-22.94%	-27.30%	7.66%	-34.96%
Feb-02	-1.9300%	-2.3500%	0.4300%	0.5425%	0.5792%	0.5608%	0.6283%	-2.3600%	-2.4908%	-2.9783%	-9.51%	5.16%	6.73%	-14.67%	-16.24%	-31.43%	7.54%	-38.97%
Mar-02	3.7600%	12.2300%	0.4300%	0.5675%	0.6017%	0.5846%	0.6453%	3.3300%	3.1754%	11.5847%	0.25%	5.16%	7.02%	-4.91%	-6.77%	-22.55%	7.74%	-30.30%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPSPA	Mkt Annlized Return	RF Annualized Yield	AAAAA Annualized Yield	MRP RP	AAAAA RP	S&P U Annulized Yield	A Annualized Yield	SPA RP
Apr-02	-6.0600%	-1.7100%	0.5400%	0.5633%	0.5967%	0.5800%	0.6316%	-6.6000%	-6.6400%	-2.3416%	-12.62%	6.48%	6.96%		-19.10%	-19.58%	-28.22%	7.58%	-35.80%
May-02	-0.7400%	-9.0200%	0.4900%	0.5625%	0.6000%	0.5813%	0.6272%	-1.2300%	-1.3213%	-9.6472%	-13.84%	5.88%	6.98%		-19.72%	-20.82%	-32.38%	7.53%	-39.90%
Jun-02	-7.1200%	-7.1000%	0.4400%	0.5533%	0.5900%	0.5717%	0.6180%	-7.5600%	-7.6917%	-7.7180%	-17.98%	5.28%	6.86%		-23.26%	-24.84%	-31.78%	7.42%	-39.20%
Jul-02	-7.8000%	-13.8000%	0.5100%	0.5442%	0.5817%	0.5629%	0.6101%	-8.3100%	-8.3629%	-14.4101%	-23.63%	6.12%	6.76%		-29.75%	-30.39%	-38.44%	7.32%	-45.76%
Aug-02	0.6600%	3.5000%	0.4400%	0.5308%	0.5700%	0.5504%	0.5979%	0.2200%	0.1096%	2.9021%	-18.00%	5.28%	6.61%		-23.28%	-24.60%	-34.38%	7.17%	-41.55%
Sep-02	-10.8700%	-12.8300%	0.4200%	0.5125%	0.5525%	0.5325%	0.5906%	-11.2900%	-11.4025%	-13.4206%	-20.48%	5.04%	6.39%		-25.52%	-26.87%	-35.35%	7.09%	-42.44%
Oct-02	8.8000%	-1.7300%	0.4000%	0.5275%	0.5617%	0.5446%	0.6016%	8.4000%	8.2554%	-2.3316%	-15.11%	4.80%	6.54%		-19.91%	-21.64%	-36.36%	7.22%	-43.58%
Nov-02	5.8900%	2.4900%	0.4000%	0.5258%	0.5592%	0.5425%	0.5952%	5.4900%	5.3475%	1.8948%	-16.51%	4.80%	6.51%		-21.31%	-23.02%	-30.97%	7.14%	-38.11%
Dec-02	-5.8700%	4.1600%	0.4500%	0.5175%	0.5525%	0.5350%	0.5896%	-6.3200%	-6.4050%	3.5704%	-22.10%	5.40%	6.42%		-27.50%	-28.52%	-29.92%	7.08%	-36.99%
Jan-03	-2.6200%	-2.9200%	0.4100%	0.5142%	0.5492%	0.5317%	0.5887%	-3.0300%	-3.1517%	-3.5087%	-23.01%	4.92%	6.38%		-27.93%	-29.39%	-27.89%	7.06%	-34.95%
Feb-03	-1.5000%	-4.9000%	0.3800%	0.4958%	0.5283%	0.5121%	0.5778%	-1.8800%	-2.0121%	-5.4776%	-22.68%	4.56%	6.15%		-27.24%	-28.82%	-29.77%	6.93%	-36.71%
Mar-03	0.9700%	5.0500%	0.4000%	0.4908%	0.5233%	0.5071%	0.5663%	0.5700%	0.4629%	4.4837%	-24.76%	4.80%	6.09%		-29.56%	-30.84%	-34.27%	6.80%	-41.06%
Apr-03	8.2400%	8.8500%	0.4000%	0.4783%	0.5183%	0.4983%	0.5540%	7.8400%	7.7417%	8.2960%	-13.30%	4.80%	5.98%		-18.10%	-19.28%	-27.20%	6.65%	-33.85%
May-03	5.2700%	10.2100%	0.3900%	0.4350%	0.4875%	0.4613%	0.5310%	4.8800%	4.8088%	9.6790%	-8.05%	4.68%	5.54%		-12.73%	-13.59%	-11.82%	6.37%	-18.19%
Jun-03	1.2800%	1.1900%	0.3600%	0.4142%	0.4767%	0.4454%	0.5173%	0.9200%	0.8346%	0.6727%	0.26%	4.32%	5.35%		-4.06%	-5.08%	-3.95%	6.21%	-10.15%
Jul-03	1.7600%	-6.5000%	0.3800%	0.4575%	0.5058%	0.4817%	0.5457%	1.3800%	1.2783%	-7.0457%	10.66%	4.56%	5.78%		6.10%	4.88%	4.19%	6.55%	-2.36%
Aug-03	1.9500%	1.7500%	0.4200%	0.4892%	0.5258%	0.5075%	0.5659%	1.5300%	1.4425%	1.1841%	12.08%	5.04%	6.09%		7.04%	5.99%	2.43%	6.79%	-4.37%
Sep-03	-1.0600%	4.5700%	0.4600%	0.4767%	0.5108%	0.4938%	0.5487%	-1.5200%	-1.5538%	4.0213%	24.41%	5.52%	5.93%		18.89%	18.49%	22.87%	6.58%	16.29%
Oct-03	5.6600%	1.1200%	0.4100%	0.4750%	0.5092%	0.4921%	0.5350%	5.2500%	5.1679%	0.5850%	20.82%	4.92%	5.91%		15.90%	14.92%	26.43%	6.42%	20.01%
Nov-03	0.8800%	-0.0500%	0.3900%	0.4708%	0.5067%	0.4888%	0.5309%	0.4900%	0.3913%	-0.5809%	15.11%	4.68%	5.87%		10.43%	9.24%	23.30%	6.37%	16.93%
Dec-03	5.2400%	6.7500%	0.4700%	0.4708%	0.5017%	0.4863%	0.5233%	4.7700%	4.7538%	6.2268%	28.69%	5.64%	5.84%		23.05%	22.86%	26.37%	6.28%	20.09%
Jan-04	1.8400%	2.1600%	0.4200%	0.4617%	0.4925%	0.4771%	0.5128%	1.4200%	1.3629%	1.6472%	34.58%	5.04%	5.73%		29.54%	28.86%	32.98%	6.15%	26.83%
Feb-04	1.3900%	1.8100%	0.3800%	0.4583%	0.4892%	0.4738%	0.5125%	1.0100%	0.9163%	1.2975%	38.53%	4.56%	5.69%		33.97%	32.85%	42.36%	6.15%	36.21%
Mar-04	-1.5100%	1.0400%	0.4300%	0.4442%	0.4750%	0.4596%	0.4975%	-1.9400%	-1.9696%	0.5425%	35.13%	5.16%	5.52%		29.97%	29.62%	36.93%	5.97%	30.96%
Apr-04	-1.5700%	-3.6200%	0.3900%	0.4775%	0.5083%	0.4929%	0.5271%	-1.9600%	-2.0629%	-4.1471%	22.88%	4.68%	5.92%		18.20%	16.97%	21.24%	6.33%	14.92%
May-04	1.3700%	0.7900%	0.4000%	0.5033%	0.5333%	0.5183%	0.5517%	0.9700%	0.8517%	0.2383%	18.33%	4.80%	6.22%		13.53%	12.11%	10.88%	6.62%	4.26%
Jun-04	1.9400%	1.5500%	0.4800%	0.5008%	0.5175%	0.5092%	0.5388%	1.4600%	1.4308%	1.0112%	19.10%	5.76%	6.11%		13.34%	12.99%	11.27%	6.47%	4.81%
Jul-04	-3.3100%	1.7300%	0.4300%	0.4850%	0.5017%	0.4933%	0.5227%	-3.7400%	-3.8033%	1.2073%	13.17%	5.16%	5.92%		8.01%	7.25%	21.07%	6.27%	14.80%
Aug-04	0.4000%	3.9300%	0.4500%	0.4708%	0.4892%	0.4800%	0.5124%	-0.0500%	-0.0800%	3.4177%	11.45%	5.40%	5.76%		6.05%	5.69%	23.66%	6.15%	17.51%
Sep-04	1.0800%	0.9100%	0.4000%	0.4550%	0.4775%	0.4663%	0.4985%	0.6800%	0.6138%	0.4115%	13.86%	4.80%	5.60%		9.06%	8.26%	19.33%	5.98%	13.35%
Oct-04	1.5300%	4.9500%	0.3800%	0.4558%	0.4742%	0.4650%	0.4992%	1.1500%	1.0650%	4.4508%	9.41%	4.56%	5.58%		4.85%	3.83%	23.85%	5.99%	17.86%
Nov-04	4.0500%	4.0700%	0.4100%	0.4600%	0.4767%	0.4683%	0.4963%	3.6400%	3.5817%	3.5737%	12.85%	4.92%	5.62%		7.93%	7.23%	28.96%	5.96%	23.00%
Dec-04	3.4000%	2.6500%	0.4300%	0.4558%	0.4742%	0.4650%	0.4939%	2.9700%	2.9350%	2.1561%	10.87%	5.16%	5.58%		5.71%	5.29%	24.01%	5.93%	18.08%
Jan-05	-2.4400%	2.2100%	0.4100%	0.4467%	0.4660%	0.4564%	0.4828%	-2.8500%	-2.8958%	1.7272%	6.21%	4.92%	5.47%		1.29%	0.74%	24.07%	5.79%	18.27%
Feb-05	2.1000%	1.9700%	0.3500%	0.4333%	0.4533%	0.4433%	0.4679%	1.7500%	1.6567%	1.5022%	6.96%	4.20%	5.32%		2.76%	1.64%	24.26%	5.61%	18.65%
Mar-05	-1.7700%	1.0800%	0.4100%	0.4500%	0.4700%	0.4600%	0.4855%	-2.1800%	-2.2300%	0.5945%	6.67%	4.92%	5.52%		1.75%	1.15%	24.31%	5.83%	18.48%
Apr-05	-1.9000%	3.2100%	0.3900%	0.4442%	0.4533%	0.4488%	0.4708%	-2.2900%	-2.3488%	2.7392%	6.32%	4.68%	5.39%		1.64%	0.93%	33.12%	5.65%	27.47%
May-05	3.1800%	0.0800%	0.4000%	0.4292%	0.4408%	0.4350%	0.4616%	2.7800%	2.7450%	-0.3816%	8.22%	4.80%	5.22%		3.42%	3.00%	32.18%	5.54%	26.64%
Jun-05	0.1400%	5.7600%	0.3600%	0.4133%	0.4183%	0.4158%	0.4502%	-0.2200%	-0.2758%	5.3098%	6.30%	4.32%	4.99%		1.98%	1.31%	37.66%	5.40%	32.26%
Jul-05	3.7200%	2.3300%	0.3400%	0.4217%	0.4283%	0.4250%	0.4583%	3.3800%	3.2950%	1.8717%	14.03%	4.08%	5.10%		9.95%	8.93%	38.47%	5.50%	32.97%
Aug-05	-0.9100%	0.7300%	0.4000%	0.4242%	0.4333%	0.4288%	0.4591%	-1.3100%	-1.3388%	0.2709%	12.55%	4.80%	5.15%		7.75%	7.40%	34.21%	5.51%	28.70%
Sep-05	0.8100%	4.0200%	0.3500%	0.4275%	0.4367%	0.4321%	0.4585%	0.4600%	0.3779%	3.5615%	12.24%	4.20%	5.19%		8.04%	7.06%	38.35%	5.50%	32.84%
Oct-05	-1.6700%	-6.1700%	0.3900%	0.4450%	0.4550%	0.4500%	0.4812%	-2.0600%	-2.1200%	-6.6512%	8.71%	4.68%	5.40%		4.03%	3.31%	23.69%	5.77%	17.91%
Nov-05	3.7800%	-0.3900%	0.3900%	0.4521%	0.4625%	0.4573%	0.4899%	3.3900%	3.3227%	-0.8799%	8.43%	4.68%	5.49%		3.75%	2.94%	18.39%	5.88%	12.51%
Dec-05	0.0300%	1.1000%	0.3900%	0.4483%	0.4592%	0.4538%	0.4848%	-0.3600%	-0.4238%	0.6152%	4.89%	4.68%	5.45%		0.21%	-0.55%	16.60%	5.82%	10.78%
Jan-06	2.6500%	2.6348%	0.4000%	0.4408%	0.4542%	0.4475%	0.4792%	2.2500%	2.2025%	2.1556%	10.36%	4.80%	5.37%		5.56%	4.99%	17.08%	5.75%	11.33%
Feb-06	0.2700%	0.9527%	0.3600%	0.4458%	0.4592%	0.4525%	0.4850%	-0.0900%	-0.1825%	0.4677%	8.39%	4.32%	5.43%		4.07%	2.96%	15.92%	5.82%	10.10%
Mar-06	1.2400%	-4.6345%	0.3900%	0.4600%	0.4725%	0.4663%	0.4983%	0.8500%	0.7738%	-5.1328%	11.71%	4.68%	5.60%		7.03%	6.11%	9.36%	5.98%	3.38%
Apr-06	1.3400%	1.7167%	0.3900%	0.4867%	0.5000%	0.4933%	0.5242%	0.9500%	0.8467%	1.1925%	15.40%	4.68%	5.92%		10.72%	9.48%	7.78%	6.29%	1.49%
May-06	-2.8800%	1.4281%	0.4800%	0.4958%	0.5108%	0.5033%	0.5350%	-3.3600%	-3.3833%	0.8931%	8.62%	5.76%	6.04%		2.86%	2.58%	9.23%	6.42%	2.81%
Jun-06	0.1400%	2.4158%	0.4400%	0.4908%	0.5092%	0.5000%	0.5333%	-0.3000%	-0.3600%	1.8825%	8.62%	5.28%	6.00%		3.34%	2.62%	5.78%	6.40%	-0.62%
Jul-06	0.6200%	5.1109%	0.4500%	0.4875%	0.5067%	0.4971%	0.5308%	0.1700%	0.1229%	4.5801%	5.37%	5.40%	5.97%		-0.03%	-0.59%	8.65%	6.37%	2.28%
Aug-06	2.3800%	2.7122%	0.4300%	0.4733%	0.4925%	0.4829%	0.5167%	1.9500%	1.8971%	2.1955%	8.87%	5.16%	5.80%		3.71%	3.08%	10.79%	6.20%	4.59%
Sep-06	2.5800%	-1.7362%	0.3900%	0.4592%	0.4792%	0.4692%	0.5000%	2.1900%	2.1108%	-2.2362%	10.78%	4.68%	5.63%		6.10%	5.15%	4.66%	6.00%	-1.34%
Oct-06	3.2600%	5.6026%	0.4200%	0.4592%	0.4783%	0.4688%	0.4983%	2.8400%	2.7913%	5.1043%	16.34%	5.04%	5.63%		11.30%	10.71%	17.79%	5.98%	11.81%
Nov-06	1.9000%	2.1405%	0.3900%	0.4442%	0.4642%	0.4542%	0.4833%	1.5100%	1.4458%	1.6572%	14.23%	4.68%	5.45%		9.55%	8.78%	20.78%	5.80%	14.98%
Dec-06	1.4000%	1.1817%	0.3600%	0.4408%	0.4650%	0.4529%	0.4842%	1.0400%	0.9471%	0.6975%	15.79%	4.32%	5.44%		11.47%	10.36%	20.88%	5.81%	15.07%
Jan-07	1.5100%	-0.1134%	0.4300%	0.4500%	0.4792%	0.4646%	0.4967%	1.0800%	1.0454%	-0.6101%	14.51%	5.16%	5.58%		9.35%	8.93%	17.64%	5.96%	11.68%
Feb-07	-1.9600%	5.0341%	0.3800%	0.4492%	0.4767%	0.4629%	0.4917%	-2.3400%	-2.4229%	4.5424%	11.96%	4.56%	5.56%		7.40%	6.41%	22.40%	5.90%	16.50%
Mar-07	1.1200%	4.1373%	0.3900%	0.4417%	0.4717%	0.4567%	0.4875%	0.7300%	0.6633%	3.6498%	11.83%	4.68%	5.48%		7.15%	6.35%	33.66%	5.85%	27.81%
Apr-07	4.4300%	4.3759%	0.4200%	0.4558%	0.4858%	0.4708%	0.4975%	4.0100%	3.9592%	3.8784%	15.24%	5.04%	5.65%		10.20%	9.59%	37.15%	5.97%	31.18%
May-07	3.4900%	0.5145%	0.4100%	0.4558%	0.4875%	0.4717%	0.4992%	3.0800%	3.0183%	0.0153%	22.80%	4.92%	5.66%		17.88%	17.14%	35.92%	5.99%	29.93%
Jun-07	-1.6600%	-5.0621%	0.4000%	0.0483%	0.5142%	0.2812%	0.5250%	-2.0600%	-1.9412%	-5.5871%	20.59%	4.80%	3.37%		15.79%	17.21%	25.99%	6.30%	19.69%
Jul-07	-3.1000%	-3.5666%	0.4600%	0.4775%	0.5075%	0.4925%	0.5208%	-3.5600%	-3.5925%	-4.0874%	16.13%	5.52%	5.91%		10.61%	10.22%	15.59%	6.25%	9.34%
Aug-07	1.5000%	2.0956%	0.4200%	0.4825%	0.5050%	0.4938%	0.5200%	1.0800%	1.0063%	1.5756%	15.13%	5.04%	5.93%		10.09%	9.21%	14.90%	6.24%	8.66%
Sep-07	3.7400%	3.5427%	0.3700%	0.4783%	0.5017%	0.4900%	0.5150%	3.3700%	3.2500%	3.0277%	16.43%	4.44%	5.88%		11.99%	10.55%	21.07%	6.18%	14.89%
Oct-07	1.5900%	6.8641%	0.4300%	0.4717%	0.4950%	0.4833%	0.5092%	1.1600%	1.1067%	6.3549%	14.55%	5.16%	5.80%		9.39%	8.75%	22.52%	6.11%	16.41%
Nov-07	-4.1800%	0.3405%	0.3900%	0.4533%	0.4817%	0.4675%	0.4975%	-4.5700%	-4.6475%	-0.1570%	7.72%	4.68%	5.61%		3.04%	2.11%	20.36%	5.97%	14.39%
Dec-07	-0.6900%	0.2754%	0.3700%	0.4575%	0.4925%	0.4750%	0.5133%	-1.0600%	-1.1650%	-0.2379%	5.50%	4.44%	5.70%		1.06%	-0.20%	19.28%	6.16%	13.12%
Jan-08	-6.0000%	-6.8133%	0.4000%	0.4442%	0.4817%	0.4629%	0.5017%	-6.4000%	-6.4629%	-7.3150%	-2.31%	4.80%	5.56%		-7.11%	-7.86%	11.28%	6.02%	5.26%
Feb-08	-3.2500%	-4.9956%	0.3400%	0.4608%	0.4975%	0.4792%	0.5175%	-3.5900%	-3.7292%	-5.5131%	-3.59%	4.08%	5.75%		-7.67%	-9.34%	0.65%	6.21%	-5.56%
Mar-08	-0.4300%	1.7056%	0.3700%	0.4592%	0.4917%	0.4754%	0.5175%	-0.8000%	-0.9054%	1.1881%	-5.07%	4.44%	5.71%		-9.51%	-10.78%	-1.70%	6.21%	-7.91%
Apr-08	4.8700%	5.5163%	0.3500%	0.4625%	0.4942%	0.4783%	0.5242%	4.5200%	4.3917%	4.9921%	-4.67%	4.20%	5.74%		-8.87%	-10.41%	-0.62%	6.29%	-6.91%
May-08	1.3000%	3.1987%	0.3700%	0.4642%	0.5000%	0.4821%	0.5225%	0.9300%	0.8179%	2.6762%	-6.69%	4.44%	5.79%		-11.13%	-12.47%	2.03%	6.27%	-4.24%
Jun-08	-8.4300%	-0.8668%	0.4000%	0.4733%	0.5092%	0.4913%	0.5317%	-8.8300%	-8.9213%	-1.3985%	-13.11%	4.80%	5.90%		-17.91%	-19.01%	6.54%	6.38%	0.16%
Jul-08	-0.8400%	-6.1108%	0.3900%	0.4725%	0.5042%	0.4883%	0.5333%	-1.2300%	-1.3283%	-6.6441%	-11.09%	4.68%	5.86%		-15.77%	-16.95%	3.73%	6.40%	-2.67%
Aug-08	1.4500%	-1.6602%	0.3600%	0.4700%	0.5008%	0.4854%	0.5308%	1.0900%	0.9646%	-2.1910%	-11.13%	4.32%	5.83%		-15.45%	-16.95%	-0.09%	6.37%	-6.46%
Sep-08	-8.9100%	-11.4823%	0.3900%	0.4708%	0.5025%	0.4867%	0.5408%	-9.3000%	-9.3967%	-12.0231%	-21.97%	4.68%	5.84%		-26.65%	-27.81%	-14.59%	6.49%	-21.08%
Oct-08	-16.7900%	-11.6128%	0.3700%	0.5233%	0.5658%	0.5446%	0.6300%	-17.1600%	-17.3346%	-12.2428%	-36.08%	4.44%	6.54%		-40.52%	-42.62%	-29.35%	7.56%	-36.91%
Nov-08	-7.1800%	2.7894%	0.3600%	0.5100%	0.5608%	0.5354%	0.6333%	-7.5400%	-7.7154%	2.1561%	-38.09%	4.32%	6.43%		-42.41%	-44.51%	-27.63%	7.60%	-35.23%
Dec-08	1.0600%	-1.6797%	0.3300%	0.4217%	0.4842%	0.4529%	0.5450%	0.7300%	0.6071%	-2.2247%	-36.99%	3.96%	5.44%		-40.95%	-42.43%	-29.04%	6.54%	-35.58%
Jan-09	-8.4300%	-0.4541%	0.2400%	0.4208%	0.4867%	0.4538%	0.5325%	-8.6700%	-8.8838%	-0.9866%	-38.62%	2.88%	5.45%		-41.50%	-44.07%	-24.20%	6.39%	-30.59%
Feb-09	-10.6500%	-12.5708%	0.3000%	0.4392%	0.5017%	0.4704%	0.5250%	-10.9500%	-11.1204%	-13.0958%	-43.32%	3.60%	5.65%		-46.92%	-48.96%	-30.24%	6.30%	-36.54%
Mar-09	8.7600%	2.5255%	0.3500%	0.4583%	0.5092%	0.4838%	0.5350%	8.4100%	8.2763%	1.9905%	-38.09%	4.20%	5.81%		-42.29%	-43.89%	-29.68%	6.42%	-36.10%
Apr-09	9.5700%	0.8462%	0.2900%	0.4492%	0.5142%	0.4817%	0.5400%	9.2800%	9.0883%	0.3062%	-35.31%	3.48%	5.78%		-38.79%	-41.09%	-32.79%	6.48%	-39.27%
May-09	5.5900%	3.5287%	0.3300%	0.4617%	0.5200%	0.4908%	0.5408%	5.2600%	5.0992%	2.9879%	-32.57%	3.96%	5.89%		-36.53%	-38.46%	-32.58%	6.49%	-39.07%
Jun-09	0.2000%	5.5202%	0.3800%	0.4675%	0.5100%	0.4888%	0.5167%	-0.1800%	-0.2888%	5.0035%	-26.22%	4.56%	5.87%		-30.78%	-32.08%	-28.23%	6.20%	-34.43%
Jul-09	7.5600%	4.0755%	0.3600%	0.4508%	0.4758%	0.4633%	0.4975%	7.2000%	7.0967%	3.5780%	-19.97%	4.32%	5.56%		-24.29%	-25.53%	-20.45%	5.97%	-26.42%
Aug-09	3.6100%	0.5460%	0.3600%	0.4383%	0.4542%	0.4463%	0.4758%	3.2500%	3.1638%	0.0702%	-18.26%	4.32%	5.36%		-22.58%	-23.62%	-18.66%	5.71%	-24.37%
Sep-09	3.7300%	1.4284%	0.3400%	0.4275%	0.4342%	0.4308%	0.4608%	3.3900%	3.2992%	0.9676%	-6.92%	4.08%	5.17%		-11.00%	-12.09%	-6.80%	5.53%	-12.33%
Oct-09	-1.8600%	-2.8427%	0.3300%	0.4292%	0.4367%	0.4329%	0.4625%	-2.1900%	-2.2929%	-3.3052%	9.78%	3.96%	5.20%		5.82%	4.58%	2.45%	5.55%	-3.10%
Nov-09	6.0000%	4.5586%	0.3500%	0.4325%	0.4408%	0.4367%	0.4700%	5.6500%	5.5633%	4.0886%	25.37%	4.20%	5.24%		21.17%	20.13%	4.21%	5.64%	-1.43%
Dec-09	1.9300%	5.5813%	0.3400%	0.4383%	0.4533%	0.4458%	0.4825%	1.5900%	1.4842%	5.0988%	26.45%	4.08%	5.35%		22.37%	21.10%	11.91%	5.79%	6.12%
Jan-10	-3.6000%	-4.7493%	0.3600%	0.4383%	0.4583%	0.4483%	0.4808%	-3.9600%	-4.0483%	-5.2301%	33.12%	4.32%	5.38%		28.80%	27.74%	7.08%	5.77%	1.31%
Feb-10	3.1000%	-1.4896%	0.3300%	0.4458%	0.4683%	0.4571%	0.4892%	2.7700%	2.6429%	-1.9788%	53.60%	3.96%	5.49%		49.64%	48.12%	20.65%	5.87%	14.78%
Mar-10	6.0300%	2.7978%	0.4000%	0.4392%	0.4642%	0.4517%	0.4867%	5.6300%	5.5783%	2.3111%	49.75%	4.80%	5.42%		44.95%	44.33%	20.97%	5.84%	15.13%
Apr-10	1.5800%	2.8058%	0.3800%	0.4408%	0.4642%	0.4525%	0.4842%	1.2000%	1.1275%	2.3216%	38.83%	4.56%	5.43%		34.27%	33.40%	23.32%	5.81%	17.51%
May-10	-7.9900%	-5.7600%	0.3400%	0.4133%	0.4375%	0.4254%	0.4583%	-8.3300%	-8.4154%	-6.2183%	20.97%	4.08%	5.11%		16.89%	15.87%	12.26%	5.50%	6.76%
Jun-10	-5.2300%	-0.6360%	0.3700%	0.4067%	0.4300%	0.4183%	0.4550%	-5.6000%	-5.6483%	-1.0910%	14.42%	4.44%	5.02%		9.98%	9.40%	5.71%	5.46%	0.25%
Jul-10	7.0100%	7.7413%	0.3100%	0.3933%	0.4133%	0.4033%	0.4383%	6.7000%	6.6067%	7.3030%	13.83%	3.72%	4.84%		10.11%	8.99%	9.43%	5.26%	4.17%
Aug-10	-4.5100%	1.2496%	0.3200%	0.3742%	0.3933%	0.3838%	0.4175%	-4.8300%	-4.8938%	0.8321%	4.91%	3.84%	4.61%		1.07%	0.31%	10.20%	5.01%	5.19%
Sep-10	8.9200%	2.9575%	0.2600%	0.3775%	0.3933%	0.3854%	0.4175%	8.6600%	8.5346%	2.5400%	10.16%	3.12%	4.63%		7.04%	5.53%	11.86%	5.01%	6.85%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPSPA	Mkt Annlized Return	RF Annualized Yield	AAAAA Annualized Yield	MRP RP	AAAAA RP	S&P U Annulized Yield	A Annualized Yield	SPA RP
Oct-10	3.8000%	1.2869%	0.2700%	0.3900%	0.4025%	0.3963%	0.4250%	3.5300%	3.4038%	0.8619%	16.51%	3.24%	4.76%		13.27%	11.76%	16.61%	5.10%	11.51%
Nov-10	0.0100%	-3.2323%	0.3200%	0.4058%	0.4225%	0.4142%	0.4475%	-0.3100%	-0.4042%	-3.6798%	9.93%	3.84%	4.97%		6.09%	4.96%	7.92%	5.37%	2.55%
Dec-10	6.6800%	3.1151%	0.3200%	0.4183%	0.4383%	0.4283%	0.4633%	6.3600%	6.2517%	2.6518%	15.05%	3.84%	5.14%		11.21%	9.91%	5.40%	5.56%	-0.16%
Jan-11	2.3700%	1.4241%	0.3500%	0.4200%	0.4383%	0.4292%	0.4642%	2.0200%	1.9408%	0.9599%	22.18%	4.20%	5.15%		17.98%	17.03%	12.24%	5.57%	6.67%
Feb-11	3.4300%	1.1235%	0.3200%	0.4350%	0.4475%	0.4413%	0.4733%	3.1100%	2.9888%	0.6502%	22.57%	3.84%	5.30%		18.73%	17.27%	15.21%	5.68%	9.53%
Mar-11	0.0400%	0.1474%	0.3600%	0.4275%	0.4400%	0.4338%	0.4633%	-0.3200%	-0.3938%	-0.3159%	15.64%	4.32%	5.21%		11.32%	10.44%	12.24%	5.56%	6.68%
Apr-11	2.9600%	4.1878%	0.3400%	0.4300%	0.4408%	0.4354%	0.4625%	2.6200%	2.5246%	3.7253%	17.21%	4.08%	5.23%		13.13%	11.99%	13.75%	5.55%	8.20%
May-11	-1.1300%	1.9754%	0.3600%	0.4133%	0.4217%	0.4175%	0.4433%	-1.4900%	-1.5475%	1.5321%	25.95%	4.32%	5.01%		21.63%	20.94%	23.09%	5.32%	17.77%
Jun-11	-1.6700%	-0.1283%	0.3200%	0.4158%	0.4200%	0.4179%	0.4383%	-1.9900%	-2.0879%	-0.5666%	30.68%	3.84%	5.02%		26.84%	25.67%	23.72%	5.26%	18.46%
Jul-11	-2.0300%	-0.7538%	0.3200%	0.4108%	0.4192%	0.4150%	0.4392%	-2.3500%	-2.4450%	-1.1930%	19.64%	3.84%	4.98%		15.80%	14.66%	13.96%	5.27%	8.69%
Aug-11	-5.4300%	2.0388%	0.3400%	0.3642%	0.3725%	0.3683%	0.3908%	-5.7700%	-5.7983%	1.6480%	18.49%	4.08%	4.42%		14.41%	14.07%	14.85%	4.69%	10.16%
Sep-11	-7.0300%	0.2271%	0.2600%	0.3408%	0.3525%	0.3467%	0.3733%	-7.2900%	-7.3767%	-0.1462%	1.14%	3.12%	4.16%		-1.98%	-3.02%	11.80%	4.48%	7.32%
Oct-11	10.9300%	3.8747%	0.2200%	0.3317%	0.3467%	0.3392%	0.3767%	10.7100%	10.5908%	3.4980%	8.09%	2.64%	4.07%		5.45%	4.02%	14.66%	4.52%	10.14%
Nov-11	-0.2200%	0.8014%	0.2400%	0.3225%	0.3308%	0.3267%	0.3542%	-0.4600%	-0.5467%	0.4472%	7.84%	2.88%	3.92%		4.96%	3.92%	19.44%	4.25%	15.19%
Dec-11	1.0200%	3.3767%	0.2200%	0.3275%	0.3358%	0.3317%	0.3608%	0.8000%	0.6883%	3.0159%	2.12%	2.64%	3.98%		-0.52%	-1.86%	19.74%	4.33%	15.41%
Jan-12	4.4800%	-3.3237%	0.2100%	0.3342%	0.3342%	0.3342%	0.3617%	4.2700%	4.1458%	-3.6854%	4.22%	2.52%	4.01%		1.70%	0.21%	14.14%	4.34%	9.80%
Feb-12	4.3200%	0.3451%	0.2000%	0.3325%	0.3325%	0.3325%	0.3633%	4.1200%	3.9875%	-0.0182%	5.12%	2.40%	3.99%		2.72%	1.13%	13.26%	4.36%	8.90%
Mar-12	3.2900%	1.3720%	0.2200%	0.3325%	0.3450%	0.3388%	0.3733%	3.0700%	2.9513%	0.9987%	8.53%	2.64%	4.07%		5.89%	4.47%	14.64%	4.48%	10.16%
Apr-12	-0.6300%	2.1237%	0.2500%	0.3300%	0.3400%	0.3350%	0.3667%	-0.8800%	-0.9650%	1.7570%	4.75%	3.00%	4.02%		1.75%	0.73%	12.37%	4.40%	7.97%
May-12	-6.0100%	0.2161%	0.2300%	0.3167%	0.3258%	0.3213%	0.3500%	-6.2400%	-6.3313%	-0.1339%	-0.42%	2.76%	3.86%		-3.18%	-4.28%	10.43%	4.20%	6.23%
Jun-12	4.1200%	4.1004%	0.1800%	0.3033%	0.3150%	0.3092%	0.3400%	3.9400%	3.8108%	3.7604%	5.44%	2.16%	3.71%		3.28%	1.73%	15.11%	4.08%	11.03%
Jul-12	1.3900%	2.8439%	0.2000%	0.2833%	0.2950%	0.2892%	0.3275%	1.1900%	1.1008%	2.5164%	9.12%	2.40%	3.47%		6.72%	5.65%	19.28%	3.93%	15.35%
Aug-12	2.2500%	-4.4721%	0.1800%	0.2900%	0.3008%	0.2954%	0.3333%	2.0700%	1.9546%	-4.8054%	17.99%	2.16%	3.55%		15.83%	14.44%	11.67%	4.00%	7.67%
Sep-12	2.5800%	1.2281%	0.1700%	0.2908%	0.3067%	0.2988%	0.3350%	2.4100%	2.2813%	0.8931%	30.18%	2.04%	3.59%		28.14%	26.60%	12.79%	4.02%	8.77%
Oct-12	-1.8500%	1.7240%	0.2100%	0.2892%	0.3025%	0.2958%	0.3258%	-2.0600%	-2.1458%	1.3982%	15.18%	2.52%	3.55%		12.66%	11.63%	10.45%	3.91%	6.54%
Nov-12	0.5800%	-4.6428%	0.1900%	0.2917%	0.2975%	0.2946%	0.3200%	0.3900%	0.2854%	-4.9628%	16.11%	2.28%	3.54%		13.83%	12.57%	4.49%	3.84%	0.65%
Dec-12	0.9100%	0.1108%	0.1900%	0.3042%	0.3083%	0.3063%	0.3333%	0.7200%	0.6038%	-0.2225%	15.98%	2.28%	3.68%		13.70%	12.31%	1.19%	4.00%	-2.81%
Jan-13	5.1800%	3.5100%	0.2200%	0.3167%	0.3225%	0.3196%	0.3458%	4.9600%	4.8604%	3.1642%	16.76%	2.64%	3.84%		14.12%	12.92%	8.34%	4.15%	4.19%
Feb-13	1.3600%	3.3900%	0.2200%	0.3250%	0.3292%	0.3271%	0.3483%	1.1400%	1.0329%	3.0417%	13.45%	2.64%	3.93%		10.81%	9.52%	11.63%	4.18%	7.45%
Mar-13	3.7500%	5.4000%	0.2100%	0.3167%	0.3225%	0.3196%	0.3458%	3.5400%	3.4304%	5.0542%	13.95%	2.52%	3.84%		11.43%	10.12%	16.06%	4.15%	11.91%
Apr-13	1.9300%	5.9000%	0.2600%	0.3108%	0.3142%	0.3125%	0.3333%	1.6700%	1.6175%	5.5667%	16.89%	3.12%	3.75%		13.77%	13.14%	20.35%	4.00%	16.35%
May-13	2.3400%	-8.9600%	0.2300%	0.3242%	0.3283%	0.3263%	0.3475%	2.1100%	2.0138%	-9.3075%	27.27%	2.76%	3.92%		24.51%	23.36%	9.33%	4.17%	5.16%
Jun-13	-1.3400%	1.1400%	0.2400%	0.3558%	0.3600%	0.3579%	0.3775%	-1.5800%	-1.6979%	0.7625%	20.60%	2.88%	4.30%		17.72%	16.30%	6.22%	4.53%	1.69%
Jul-13	5.0900%	3.8500%	0.3000%	0.3617%	0.3717%	0.3667%	0.3900%	4.7900%	4.7233%	3.4600%	25.00%	3.60%	4.40%		21.40%	20.60%	7.26%	4.68%	2.58%
Aug-13	-2.9000%	-5.0000%	0.2800%	0.3783%	0.3858%	0.3821%	0.3942%	-3.1800%	-3.2821%	-5.3942%	18.70%	3.36%	4.59%		15.34%	14.12%	6.67%	4.73%	1.94%
Sep-13	3.1400%	1.0800%	0.2900%	0.3867%	0.3908%	0.3888%	0.4000%	2.8500%	2.7513%	0.6800%	19.35%	3.48%	4.67%		15.87%	14.68%	6.51%	4.80%	1.71%
Oct-13	4.6000%	3.7700%	0.2900%	0.3775%	0.3825%	0.3800%	0.3917%	4.3100%	4.2200%	3.3783%	27.19%	3.48%	4.56%		23.71%	22.63%	8.66%	4.70%	3.96%
Nov-13	3.0500%	-1.9900%	0.2700%	0.3858%	0.3892%	0.3875%	0.3975%	2.7800%	2.6625%	-2.3875%	30.32%	3.24%	4.65%		27.08%	25.67%	11.68%	4.77%	6.91%
Dec-13	2.5300%	0.7600%	0.3100%	0.3850%	0.3900%	0.3875%	0.4008%	2.2200%	2.1425%	0.3592%	32.41%	3.72%	4.65%		28.69%	27.76%	12.40%	4.81%	7.59%
Jan-14	-3.4600%	2.8100%	0.3200%	0.3742%	0.3775%	0.3758%	0.3858%	-3.7800%	-3.8358%	2.4242%	21.53%	3.84%	4.51%		17.69%	17.02%	11.64%	4.63%	7.01%
Feb-14	4.5700%	3.3500%	0.2600%	0.3708%	0.3717%	0.3713%	0.3775%	4.3100%	4.1988%	2.9725%	25.38%	3.12%	4.46%		22.26%	20.93%	11.60%	4.53%	7.07%
Mar-14	0.8400%	3.3700%	0.2900%	0.3650%	0.3700%	0.3675%	0.3758%	0.5500%	0.4725%	2.9942%	21.86%	3.48%	4.41%		18.38%	17.45%	9.45%	4.51%	4.94%
Apr-14	0.7400%	4.2600%	0.2800%	0.3533%	0.3608%	0.3571%	0.3675%	0.4600%	0.3829%	3.8925%	20.44%	3.36%	4.29%		17.08%	16.16%	7.76%	4.41%	3.35%
May-14	2.3500%	-1.0500%	0.2800%	0.3467%	0.3500%	0.3483%	0.3550%	2.0700%	2.0017%	-1.4050%	20.45%	3.36%	4.18%		17.09%	16.27%	17.12%	4.26%	12.86%
Jun-14	2.0700%	4.4800%	0.2500%	0.3542%	0.3550%	0.3546%	0.3575%	1.8200%	1.7154%	4.1225%	24.62%	3.00%	4.26%		21.62%	20.36%	20.99%	4.29%	16.70%
Jul-14	-1.3800%	-6.8000%	0.2700%	0.3467%	0.3500%	0.3483%	0.3525%	-1.6500%	-1.7283%	-7.1525%	16.94%	3.24%	4.18%		13.70%	12.76%	8.58%	4.23%	4.35%
Aug-14	4.0000%	4.9500%	0.2600%	0.3400%	0.3417%	0.3408%	0.3442%	3.7400%	3.6592%	4.6058%	25.25%	3.12%	4.09%		22.13%	21.16%	19.95%	4.13%	15.82%
Sep-14	-1.4000%	-1.8600%	0.2300%	0.3425%	0.3492%	0.3458%	0.3533%	-1.6300%	-1.7458%	-2.2133%	19.74%	2.76%	4.15%		16.98%	15.59%	16.46%	4.24%	12.22%
Oct-14	2.4400%	8.0200%	0.2500%	0.3267%	0.3325%	0.3296%	0.3383%	2.1900%	2.1104%	7.6817%	17.27%	3.00%	3.96%		14.27%	13.31%	21.23%	4.06%	17.17%
Nov-14	2.6900%	1.2000%	0.2300%	0.3267%	0.3367%	0.3317%	0.3408%	2.4600%	2.3583%	0.8592%	16.86%	2.76%	3.98%		14.10%	12.88%	25.18%	4.09%	21.09%
Dec-14	-0.2500%	3.5000%	0.2200%	0.3158%	0.3242%	0.3200%	0.3292%	-0.4700%	-0.5700%	3.1708%	13.69%	2.64%	3.84%		11.05%	9.85%	28.58%	3.95%	24.63%
Jan-15	-3.0000%	2.3300%	0.2000%	0.2883%	0.2950%	0.2917%	0.2983%	-3.2000%	-3.2917%	2.0317%	14.23%	2.40%	3.50%		11.83%	10.73%	27.98%	3.58%	24.40%
Feb-15	5.7500%	-6.3300%	0.1500%	0.3008%	0.3033%	0.3021%	0.3058%	5.6000%	5.4479%	-6.6358%	15.52%	1.80%	3.63%		13.72%	11.90%	15.99%	3.67%	12.32%
Mar-15	-1.5800%	-0.4900%	0.2100%	0.3033%	0.3083%	0.3058%	0.3117%	-1.7900%	-1.8858%	-0.8017%	12.75%	2.52%	3.67%		10.23%	9.08%	11.66%	3.74%	7.92%
Apr-15	0.9600%	-1.2900%	0.1900%	0.2933%	0.3033%	0.2983%	0.3125%	0.7700%	0.6617%	-1.6025%	12.99%	2.28%	3.58%		10.71%	9.41%	5.72%	3.75%	1.97%
May-15	1.2900%	0.6500%	0.2000%	0.3317%	0.3400%	0.3358%	0.3475%	1.0900%	0.9542%	0.3025%	11.82%	2.40%	4.03%		9.42%	7.79%	7.53%	4.17%	3.36%
Jun-15	-1.9400%	-6.0000%	0.2300%	0.3492%	0.3558%	0.3525%	0.3658%	-2.1700%	-2.2925%	-6.3658%	7.43%	2.76%	4.23%		4.67%	3.20%	-3.25%	4.39%	-7.64%
Jul-15	2.1000%	4.8100%	0.2400%	0.3458%	0.3542%	0.3500%	0.3667%	1.8600%	1.7500%	4.4433%	11.22%	2.88%	4.20%		8.34%	7.02%	4.80%	4.40%	4.40%
Aug-15	-6.0300%	-3.9700%	0.2200%	0.3367%	0.3442%	0.3404%	0.3542%	-6.2500%	-6.3704%	-4.3242%	0.50%	2.64%	4.09%		-2.14%	-3.59%	-0.45%	4.25%	-4.70%
Sep-15	-2.4700%	2.9000%	0.2100%	0.3392%	0.3508%	0.3450%	0.3658%	-2.6800%	-2.8150%	2.5342%	-0.60%	2.52%	4.14%		-3.12%	-4.74%	4.38%	4.39%	-0.01%
Oct-15	8.4400%	1.0800%	0.2100%	0.3292%	0.3425%	0.3358%	0.3575%	8.2300%	8.1042%	0.7225%	5.23%	2.52%	4.03%		2.71%	1.20%	-2.32%	4.29%	-6.61%
Nov-15	0.3000%	-2.1300%	0.2200%	0.3383%	0.3508%	0.3446%	0.3667%	0.0800%	-0.0446%	-2.4967%	2.78%	2.64%	4.14%		0.14%	-1.36%	-5.54%	4.40%	-9.94%
Dec-15	-1.5800%	2.1600%	0.2200%	0.3308%	0.3467%	0.3388%	0.3625%	-1.8000%	-1.9188%	1.7975%	1.41%	2.64%	4.07%		-1.23%	-2.66%	-6.76%	4.35%	-11.11%
Jan-16	-4.9600%	4.9223%	0.2100%	0.3333%	0.3433%	0.3383%	0.3558%	-5.1700%	-5.2983%	4.5665%	-0.64%	2.52%	4.06%		-3.16%	-4.70%	-4.40%	4.27%	-8.67%
Feb-16	-0.1300%	1.9408%	0.2000%	0.3300%	0.3317%	0.3308%	0.3425%	-0.3300%	-0.4608%	1.5983%	-6.17%	2.40%	3.97%		-8.57%	-10.14%	4.04%	4.11%	-0.07%
Mar-16	6.7800%	8.1400%	0.1800%	0.3183%	0.3258%	0.3221%	0.3467%	6.6000%	6.4579%	7.7933%	1.80%	2.16%	3.87%		-0.36%	-2.06%	13.06%	4.16%	8.90%
Apr-16	0.3900%	-2.4100%	0.1700%	0.3183%	0.3258%	0.3221%	0.3467%	0.2200%	0.0679%	-2.7567%	1.23%	2.04%	3.87%		-0.81%	-2.64%	11.78%	4.16%	7.62%
May-16	1.8000%	1.5100%	0.2000%	0.3042%	0.3083%	0.3063%	0.3275%	1.6000%	1.4938%	1.1825%	1.74%	2.40%	3.68%		-0.66%	-1.94%	12.74%	3.93%	8.81%
Jun-16	0.2600%	7.7900%	0.1800%	0.2917%	0.3000%	0.2958%	0.3150%	0.0800%	-0.0358%	7.4750%	4.02%	2.16%	3.55%		1.86%	0.47%	29.28%	3.78%	25.50%
Jul-16	3.6900%	-0.8000%	0.1400%	0.2733%	0.2825%	0.2779%	0.2975%	3.5500%	3.4121%	-1.0975%	5.64%	1.68%	3.34%		3.96%	2.31%	22.36%	3.57%	18.79%
Aug-16	0.1400%	-5.5100%	0.1600%	0.2767%	0.2850%	0.2808%	0.2992%	-0.0200%	-0.1408%	-5.8092%	12.58%	1.92%	3.37%		10.66%	9.21%	20.39%	3.59%	16.80%
Sep-16	0.0200%	0.4000%	0.1500%	0.2842%	0.2917%	0.2879%	0.3050%	-0.1300%	-0.2679%	0.0950%	15.45%	1.80%	3.46%		13.65%	12.00%	17.47%	3.66%	13.81%
Oct-16	-1.8200%	0.8600%	0.1600%	0.2842%	0.2917%	0.2879%	0.3050%	-1.9800%	-2.1079%	0.5550%	4.53%	1.92%	3.46%		2.61%	1.07%	17.21%	3.66%	13.55%
Nov-16	3.7000%	-5.3900%	0.1800%	0.3217%	0.3275%	0.3246%	0.3400%	3.5200%	3.3754%	-5.7300%	8.07%	2.16%	3.90%		5.91%	4.18%	13.31%	4.08%	9.23%
Dec-16	1.9800%	4.9400%	0.2200%	0.3383%	0.3433%	0.3408%	0.3558%	1.7600%	1.6392%	4.5842%	11.98%	2.64%	4.09%		9.34%	7.89%	16.39%	4.27%	12.12%
Jan-17	1.9000%	1.2600%	0.2400%	0.3267%	0.3317%	0.3292%	0.3300%	1.6600%	1.5708%	0.9300%	20.06%	2.88%	3.95%		17.18%	16.11%	12.33%	3.96%	8.37%
Feb-17	3.9700%	5.2600%	0.2100%	0.3292%	0.3342%	0.3317%	0.3325%	3.7600%	3.6383%	4.9275%	24.99%	2.52%	3.98%		22.47%	21.01%	15.99%	3.99%	12.00%
Mar-17	0.1200%	2.9800%	0.2300%	0.3292%	0.3342%	0.3317%	0.3325%	-0.1100%	-0.2117%	2.6475%	17.20%	2.76%	3.98%		14.44%	13.22%	10.45%	3.99%	6.46%
Apr-17	1.0300%	0.7800%	0.2100%	0.3225%	0.3275%	0.3250%	0.3275%	0.8200%	0.7050%	0.4525%	17.94%	2.52%	3.90%		15.42%	14.04%	14.06%	3.93%	10.13%
May-17	1.4100%	4.2200%	0.2400%	0.3208%	0.3275%	0.3242%	0.3275%	1.1700%	1.0858%	3.8925%	17.49%	2.88%	3.89%		14.61%	13.60%	17.11%	3.93%	13.18%
Jun-17	0.6200%	-2.7000%	0.2100%	0.3067%	0.3142%	0.3104%	0.3142%	0.4100%	0.3096%	-3.0142%	17.91%	2.52%	3.73%		15.39%	14.19%	5.71%	3.77%	1.94%
Jul-17	2.0600%	2.4400%	0.2200%	0.3150%	0.3225%	0.3188%	0.3233%	1.8400%	1.7413%	2.1167%	16.06%	2.64%	3.83%		13.42%	12.24%	9.16%	3.88%	5.28%
Aug-17	0.3100%	3.2400%	0.2200%	0.3083%	0.3167%	0.3125%	0.3183%	0.0900%	-0.0025%	2.9217%	16.26%	2.64%	3.75%		13.62%	12.51%	19.27%	3.82%	15.45%
Sep-17	2.0600%	-2.7300%	0.1900%	0.3025%	0.3100%	0.3063%	0.3058%	1.8700%	1.7538%	-3.0358%	18.63%	2.28%	3.68%		16.35%	14.95%	15.55%	3.67%	11.88%
Oct-17	2.3300%	3.9000%	0.2200%	0.3000%	0.3117%	0.3058%	0.3117%	2.1100%	2.0242%	3.5883%	23.64%	2.64%	3.67%		21.00%	19.97%	19.04%	3.74%	15.30%
Nov-17	3.0700%	2.7500%	0.2100%	0.3000%	0.3117%	0.3058%	0.3117%	2.8600%	2.7642%	2.4383%	22.89%	2.52%	3.67%		20.37%	19.22%	29.28%	3.74%	25.54%
Dec-17	1.1100%	-6.1300%	0.2000%	0.2925%	0.3008%	0.2967%	0.3017%	0.9100%	0.8133%	-6.4317%	21.84%	2.40%	3.56%		19.44%	18.28%	15.64%	3.62%	12.02%
Jan-18	5.7300%	-3.0700%	0.2400%	0.2925%	0.3008%	0.2967%	0.3158%	5.4900%	5.4333%	-3.3858%	26.42%	2.88%	3.56%		23.54%	22.86%	10.70%	3.79%	6.91%
Feb-18	-3.6900%	-3.8400%	0.2200%	0.2958%	0.3067%	0.3013%	0.3217%	-3.9100%	-3.9913%	-4.1617%	17.11%	2.64%	3.62%		14.47%	13.49%	1.13%	3.86%	-2.73%
Mar-18	-2.5400%	3.7700%	0.2400%	0.3225%	0.3325%	0.3275%	0.3442%	-2.7800%	-2.8675%	3.4258%	14.00%	2.88%	3.93%		11.12%	10.07%	1.90%	4.13%	-2.23%
Apr-18	0.3800%	2.1000%	0.2500%	0.3208%	0.3342%	0.3275%	0.3475%	0.1300%	0.0525%	1.7525%	13.26%	3.00%	3.93%		10.26%	9.33%	3.24%	4.17%	-0.93%
May-18	2.4100%	-1.1400%	0.2500%	0.3325%	0.3433%	0.3379%	0.3567%	2.1600%	2.0721%	-1.4967%	14.38%	3.00%	4.06%		11.38%	10.33%	-2.07%	4.28%	-6.35%
Jun-18	0.6200%	2.7300%	0.2300%	0.3300%	0.3425%	0.3363%	0.3558%	0.3900%	0.2838%	2.3742%	14.38%	2.76%	4.04%		11.62%	10.35%	3.39%	4.27%	-0.88%
Jul-18	3.7200%	1.8600%	0.2500%	0.3225%	0.3392%	0.3308%	0.3558%	3.4700%	3.3892%	1.5042%	16.24%	3.00%	3.97%		13.24%	12.27%	2.81%	4.27%	-1.46%
Aug-18	3.2600%	1.1300%	0.2500%	0.3233%	0.3375%	0.3304%	0.3550%	3.0100%	2.9296%	0.7750%	19.66%	3.00%	3.97%		16.66%	15.70%	0.71%	4.26%	-3.55%
Sep-18	0.5700%	-0.6000%	0.2200%	0.3233%	0.3375%	0.3304%	0.3550%	0.3500%	0.2396%	-0.9550%	17.91%	2.64%	3.97%		15.27%	13.95%	2.91%	4.26%	-1.35%
Oct-18	-6.8400%	1.9500%	0.3000%	0.3450%	0.3567%	0.3508%	0.3708%	-7.1400%	-7.1908%	1.5792%	7.35%	3.60%	4.21%		3.75%	3.14%	0.98%	4.45%	-3.47%
Nov-18	2.0400%	3.5500%	0.2800%	0.3517%	0.3683%	0.3600%	0.3775%	1.7600%	1.6800%	3.1725%	6.27%	3.36%	4.32%		2.91%	1.95%	1.77%	4.53%	-2.76%
Dec-18	-9.0300%	-4.0100%	0.2700%	0.3517%	0.3642%	0.3579%	0.3775%	-9.3000%	-9.3879%	-4.3875%	-4.38%	3.24%	4.30%		-7.62%	-8.68%	4.06%	4.53%	-0.47%
Jan-19	8.0100%	4.8400%	0.2500%	0.3275%	0.3450%	0.3363%	0.3625%	7.7600%	7.6738%	4.4775%	-2.32%	3.00%	4.04%		-5.32%	-6.36%	12.56%	4.35%	8.21%
Feb-19	3.2100%	4.1100%	0.2200%	0.3158%	0.3325%	0.3242%	0.3542%	2.9900%	2.8858%	3.7558%	4.68%	2.64%	3.89%		2.04%	0.79%	21.86%	4.25%	17.61%
Mar-19	1.9400%	2.8800%	0.2300%	0.3158%	0.3325%	0.3242%	0.3542%	1.7100%	1.6158%	2.5258%	9.49%	2.76%	3.89%		6.73%	5.60%	20.82%	4.25%	16.57%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPSPA	Mkt Annlized Return	RF Annualized Yield	AAAAA Annualized Yield	MRP RP	AAAAA RP	S&P U Annulized Yield	A Annualized Yield	SPA RP
Apr-19	4.0500%	0.9300%	0.2300%	0.3075%	0.3208%	0.3142%	0.3400%	3.8200%	3.7358%	0.5900%	13.49%	2.76%	3.77%	10.73%	9.72%	19.43%	4.08%	15.35%
May-19	-6.3500%	-0.7800%	0.2300%	0.3058%	0.3167%	0.3113%	0.3317%	-6.5800%	-6.6613%	-1.1117%	3.78%	2.76%	3.74%	1.02%	0.05%	19.87%	3.98%	15.89%
Jun-19	7.0500%	3.2200%	0.1800%	0.3058%	0.3167%	0.3113%	0.3317%	6.8700%	6.7388%	2.8883%	10.42%	2.16%	3.74%	8.26%	6.68%	20.44%	3.98%	16.46%
Jul-19	1.4400%	-0.2700%	0.2100%	0.2742%	0.2883%	0.2813%	0.3075%	1.2300%	1.1588%	-0.5775%	7.99%	2.52%	3.38%	5.47%	4.61%	17.92%	3.69%	14.23%
Aug-19	-1.5800%	5.1300%	0.1900%	0.2742%	0.2883%	0.2813%	0.3075%	-1.7700%	-1.8613%	4.8225%	2.93%	2.28%	3.38%	0.65%	-0.45%	22.58%	3.69%	18.89%
Sep-19	1.8700%	4.2500%	0.1500%	0.2483%	0.2567%	0.2525%	0.2742%	1.7200%	1.6175%	3.9758%	4.26%	1.80%	3.03%	2.46%	1.23%	28.57%	3.29%	25.28%
Oct-19	2.1700%	-0.7700%	0.1600%	0.2525%	0.2608%	0.2567%	0.2808%	2.0100%	1.9133%	-1.0508%	14.34%	1.92%	3.08%	12.42%	11.26%	25.14%	3.37%	21.77%
Nov-19	3.6300%	-1.8600%	0.1600%	0.2558%	0.2642%	0.2600%	0.2858%	3.4700%	3.3700%	-2.1458%	16.12%	1.92%	3.12%	14.20%	13.00%	18.60%	3.43%	15.17%
Dec-19	3.0200%	3.4300%	0.1800%	0.2508%	0.2592%	0.2550%	0.2833%	2.8400%	2.7650%	3.1467%	31.50%	2.16%	3.06%	29.34%	28.44%	27.79%	3.40%	24.39%
Jan-20	-0.0400%	6.6537%	0.2000%	0.2450%	0.2508%	0.2479%	0.2733%	-0.2400%	-0.2879%	6.3804%	21.70%	2.40%	2.98%	19.30%	18.73%	30.00%	3.28%	26.72%
Feb-20	-8.2300%	-9.8453%	0.1500%	0.2317%	0.2375%	0.2346%	0.2592%	-8.3800%	-8.4646%	-10.1045%	8.21%	1.80%	2.82%	6.41%	5.40%	12.58%	3.11%	9.47%
Mar-20	-12.3500%	-9.9853%	0.1300%	0.2517%	0.2567%	0.2542%	0.2917%	-12.4800%	-12.6042%	-10.2769%	-6.96%	1.56%	3.05%	-8.52%	-10.01%	-1.50%	3.50%	-5.00%
Apr-20	12.8200%	3.2287%	0.0900%	0.2025%	0.2292%	0.2158%	0.2658%	12.7300%	12.6042%	2.9628%	0.89%	1.08%	2.59%	-0.19%	-1.70%	0.74%	3.19%	-2.45%
May-20	4.7600%	4.3538%	0.0900%	0.2075%	0.2267%	0.2171%	0.2617%	4.6700%	4.5429%	4.0921%	12.85%	1.08%	2.61%	11.77%	10.25%	5.95%	3.14%	2.81%
Jun-20	1.9900%	-4.6515%	0.0900%	0.2008%	0.2192%	0.2100%	0.2558%	1.9000%	1.7800%	-4.9074%	7.52%	1.08%	2.52%	6.44%	5.00%	-2.13%	3.07%	-5.20%
Jul-20	5.6400%	7.8156%	0.1000%	0.1783%	0.1933%	0.1858%	0.2283%	5.5400%	5.4542%	7.5872%	11.97%	1.20%	2.23%	10.77%	9.74%	5.81%	2.74%	3.07%
Aug-20	7.1900%	-2.6496%	0.0800%	0.1875%	0.1975%	0.1925%	0.2275%	7.1100%	6.9975%	-2.8771%	21.95%	0.96%	2.31%	20.99%	19.64%	-2.02%	2.73%	-4.75%
Sep-20	-3.8000%	1.1209%	0.0000%	0.1925%	0.2058%	0.1992%	0.2367%	-3.8000%	-3.9992%	0.8842%	15.16%	0.00%	2.39%	15.16%	12.77%	-4.96%	2.84%	-7.80%
Oct-20	-2.6600%	5.0417%	0.0900%	0.1958%	0.2125%	0.2042%	0.2458%	-2.7500%	-2.8642%	4.7958%	9.72%	1.08%	2.45%	8.64%	7.27%	0.60%	2.95%	-2.35%
Nov-20	10.9500%	0.7352%	0.1100%	0.1917%	0.2058%	0.1988%	0.2375%	10.8400%	10.7513%	0.4977%	17.47%	1.32%	2.39%	16.15%	15.08%	3.26%	2.85%	0.41%
Dec-20	3.8400%	0.7033%	0.1100%	0.1883%	0.2033%	0.1958%	0.2308%	3.7300%	3.6442%	0.4724%	18.40%	1.32%	2.35%	17.08%	16.05%	0.54%	2.77%	-2.23%

SUMMARY OUTPUT

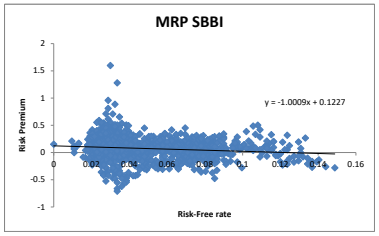
Regression Statistics

Multiple R	0.1290614
R Square	0.0166568
Adjusted R !	0.0157843
Standard Er	0.2096656
Observation	1129

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	0.839200212	0.8392002	19.09023935	1.36175E-05
Residual	1127	49.54252386	0.0439596		
Total	1128	50.38172407			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	0.1227418	0.012946251	9.4808754	1.43738E-20	0.097340326	0.1481433	0.0973403	0.1481433
X Variable 1	-1.0009412	0.229088295	-4.3692378	1.36175E-05	-1.450428782	-0.5514537	-1.4504288	-0.5514537



Risk-Free Rate	RP
2.70%	9.57%

SUMMARY OUTPUT

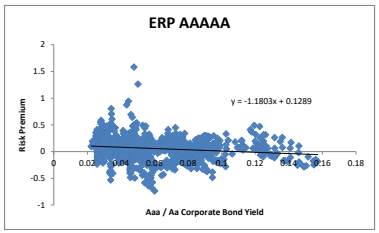
Regression Statistics

Multiple R	0.1586755
R Square	0.0251779
Adjusted R !	0.0242941
Standard Er	0.2093502
Observation	1105

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	1.248581	1.248581	28.48853841	1.14368E-07
Residual	1103	48.341718	0.0438275		
Total	1104	49.590299			

	Coefficients	*tandard Errc*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	0.128949	0.014426	8.9386681	1.62214E-18	0.100643527	0.1572544	0.1006435	0.1572544
X Variable 1	-1.180319	0.2211385	-5.3374655	1.14368E-07	-1.614218557	-0.7464194	-1.6142186	-0.7464194



AAA Bond	RP
3.41%	8.87%

SUMMARY OUTPUT

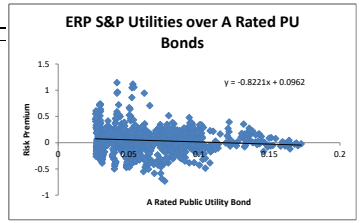
Regression Statistics

Multiple R	0.1148279
R Square	0.0131855
Adjusted R !	0.0122908
Standard Er	0.2191955
Observation	1105

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	0.7081061	0.7081061	14.73788512	0.0001306
Residual	1103	52.995459	0.0480467		
Total	1104	53.703565			

	Coefficients	*tandard Errc*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	0.0962119	0.0150517	6.3921113	2.40998E-10	0.0666788	0.125745	0.0666788	0.125745
X Variable 1	-0.8220582	0.2141337	-3.8389953	0.000130561	-1.2422135	-0.4019028	-1.2422135	-0.4019028



A PU Bond	RP
3.79%	6.51%

Multiple R 0.1290614

Multiple R 0.1586755

Multiple R 0.1148279

Multiple R 0.1290614

Multiple R 0.1586755

Multiple R 0.1148279

Multiple R 0.1290614

Multiple R 0.1586755

Multiple R 0.1148279

Multiple R 0.1290614

Multiple R 0.1586755

Multiple R 0.1148279

Multiple R 0.1290614

Multiple R 0.1586755

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Multiple R 0.1290614

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Multiple R 0.1148279

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Multiple R 0.1148279

Multiple R 0.1290614

Multiple R 0.1586755

Multiple R 0.1148279

Multiple R 0.1290614

Multiple R 0.1586755

Multiple R 0.1148279

Multiple R 0.1290614

Multiple R 0.1586755

Multiple R 0.1148279

	AEE	AVA	BKH	CMS	DUK	ED	ES	MGEE	NWE	PEG	SO	WEC	XEL	MKTRP	SPRP	MKTAAAAA
	Last updated:	Last updated:	Last updated:	Last updated:	Last updated:	Last updated:	Last updated:	Last updated:	Last updated:	04/14/21 - 19:33		Last updated:	Last updated:	Last updated: 0	Last updated:	Last updated: 04/14/21 - 19:19
	Modified: 1 1	Modified: 1 1	Modified: 1 1	Modified: 1 1	Modified: 1 1	Modified: 1 1	Modified: 1 1	Modified: 1 1	Modified: 1 1	Modified: 1 1143 // Conditional Variance		Modified: 1 1	Modified: 1 1	Modified: 1 11	Modified: 1 1	Modified: 1 1143 // Conditional Variance
1926M01						0.00176171								0.001253067		
1926M02						0.00175252								0.001157508		
1926M03						0.0016013								0.001330152		
1926M04						0.00203846								0.001751072		
1926M05						0.00187334								0.001595934		
1926M06						0.00185517								0.001445613		
1926M07						0.00180442								0.001491495		
1926M08						0.00298001								0.001551549		
1926M09						0.00264934								0.001432196		
1926M10						0.00236557								0.001338019		
1926M11						0.00232587								0.001382653		
1926M12						0.0024565								0.001351965		
1927M01						0.00232845								0.001251707		
1927M02						0.00315666								0.001237871		
1927M03						0.003121								0.001420976		
1927M04						0.00293146								0.001289272		
1927M05						0.00261397								0.001203475		
1927M06						0.00312694								0.001483036		
1927M07						0.00306394								0.001365329		
1927M08						0.00392584								0.001701504		
1927M09						0.00346645								0.001757295		
1927M10						0.00387302								0.001737169		
1927M11						0.00412692								0.001984595		
1927M12						0.00448368								0.002259347		
1928M01						0.00407302								0.002019119	0.27%	0.23%
1928M02						0.00358808								0.001802157	0.25%	0.20%
1928M03						0.00335295								0.001656729	0.23%	0.18%
1928M04						0.00434547								0.002811767	0.25%	0.29%
1928M05						0.0057908								0.002498721	0.31%	0.26%
1928M06						0.00555761								0.002184764	0.28%	0.23%
1928M07						0.00495319								0.002211233	0.27%	0.23%
1928M08						0.00474112								0.001940583	0.24%	0.20%
1928M09						0.00500484								0.002362493	0.26%	0.24%
1928M10						0.00443841								0.00209383	0.23%	0.21%
1928M11						0.00391762								0.001848242	0.21%	0.19%
1928M12						0.02471795								0.003493842	0.65%	0.35%
1929M01						0.02160543								0.003002017	0.57%	0.30%
1929M02						0.01873629								0.002855895	0.66%	0.29%
1929M03						0.01683946								0.002491295	0.59%	0.25%
1929M04						0.01534897								0.002186136	0.53%	0.22%
1929M05						0.01328385								0.001924254	0.47%	0.19%
1929M06						0.01149438								0.001963665	0.43%	0.20%
1929M07						0.01354466								0.003135804	0.84%	0.32%
1929M08						0.01275463								0.002844491	0.79%	0.29%
1929M09						0.01736682								0.003508152	0.78%	0.35%
1929M10						0.01724337								0.003491389	0.68%	0.35%
1929M11						0.02785498					0.01786224			0.00868401	1.69%	0.88%
1929M12						0.02711831					0.0200502			0.010301966	1.79%	1.04%
1930M01						0.02338725					0.01808225			0.008590467	1.58%	0.87%
1930M02						0.02079354					0.01809484			0.007323126	1.40%	0.74%
1930M03						0.01830449					0.01698828			0.006136671	1.27%	0.62%
1930M04						0.01580465					0.01650719			0.005603638	1.15%	0.57%
1930M05						0.01394492					0.01525318			0.004827406	1.01%	0.49%
1930M06						0.01210011					0.01385829			0.004183746	0.91%	0.43%
1930M07						0.0157263					0.01741217			0.007622681	1.26%	0.77%
1930M08						0.01371972					0.01574489			0.006400047	1.10%	0.65%
1930M09						0.01186991					0.01417438			0.005388289	0.97%	0.55%
1930M10						0.01162641					0.01750082			0.007343116	1.03%	0.75%
1930M11						0.01097097					0.01714684			0.007734887	1.01%	0.78%
1930M12						0.010251					0.01673378			0.006639785	0.98%	0.67%
1931M01						0.00933736					0.01637953			0.006710811	0.89%	0.68%
1931M02						0.00840815					0.01742359			0.005720889	0.79%	0.58%
1931M03						0.00896754					0.0183274			0.006058626	0.90%	0.62%
1931M04						0.00779007					0.0181865			0.006120076	0.80%	0.62%
1931M05						0.00769367					0.02009267			0.00684973	0.86%	0.69%
1931M06						0.00760181					0.01906721			0.008697452	0.91%	0.88%
1931M07						0.00786231					0.01837273			0.0088564	0.95%	0.90%
1931M08						0.00741815					0.01714408			0.008745454	0.91%	0.89%
1931M09						0.00649076					0.01543177			0.007323778	0.79%	0.74%

1931M10						0.01693927					0.02970605			0.019439536	1.88%	1.97%
1931M11						0.01507665					0.02687632			0.016168878	1.69%	1.64%
1931M12						0.01392873					0.02471911			0.015691671	1.57%	1.59%
1932M01						0.0145008					0.0322273			0.017747763	1.64%	1.78%
1932M02						0.01327963					0.02999802			0.015651273	1.46%	1.57%
1932M03						0.01230373					0.02727221			0.012979133	1.30%	1.30%
1932M04						0.01158393					0.02607592			0.01404195	1.32%	1.41%
1932M05						0.01376688					0.03101491			0.019434564	1.51%	1.94%
1932M06						0.02187369					0.03275389			0.026350734	2.35%	2.61%
1932M07						0.019197					0.03028675			0.022760221	2.06%	2.25%
1932M08						0.02763201					0.03184069			0.030791702	2.73%	3.13%
1932M09						0.03318285					0.11058236			0.03587518	3.74%	3.71%
1932M10						0.02881878					0.10900606			0.032482247	3.35%	3.34%
1932M11						0.02671952					0.10881502			0.0341625	3.20%	3.46%
1932M12						0.02348175					0.10128794			0.031140383	2.88%	3.13%
1933M01						0.02037344					0.0945463			0.02595386	2.53%	2.61%
1933M02						0.01804101					0.08692993			0.022177363	2.26%	2.23%
1933M03						0.02161799					0.08670341			0.026277999	2.59%	2.61%
1933M04						0.02129726					0.08590852			0.022030774	2.51%	2.19%
1933M05						0.02088195					0.07973202			0.034118854	2.71%	3.49%
1933M06						0.02007616					0.09158556			0.028565792	2.53%	2.94%
1933M07						0.01732529					0.10408275			0.023796668	2.31%	2.46%
1933M08						0.01695379					0.10384834			0.023097775	2.30%	2.37%
1933M09						0.01484001					0.09512867			0.019349411	2.03%	2.00%
1933M10						0.01801629					0.10336068			0.019939233	2.26%	2.04%
1933M11						0.0163598					0.09728681			0.019411007	2.10%	1.97%
1933M12						0.01459253					0.09217258			0.016367518	1.87%	1.67%
1934M01						0.01261821					0.08358552			0.013674533	1.64%	1.40%
1934M02						0.01232433					0.10547476			0.011822707	1.65%	1.22%
1934M03						0.01187351					0.09684629			0.010493012	1.48%	1.08%
1934M04						0.0107358					0.08892894			0.008904485	1.31%	0.92%
1934M05						0.01047501					0.08061338			0.007831864	1.18%	0.80%
1934M06						0.01021863					0.07958773			0.007850931	1.14%	0.80%
1934M07						0.00894134					0.07333925			0.006572584	1.00%	0.67%
1934M08						0.01257997					0.06971724			0.007889939	1.23%	0.80%
1934M09						0.01091552					0.06456427			0.006747053	1.08%	0.69%
1934M10						0.00970399					0.05838925			0.005756081	0.94%	0.59%
1934M11						0.01111172					0.05688943			0.005161939	0.91%	0.53%
1934M12						0.01050778					0.05141501			0.005084895	0.80%	0.52%
1935M01						0.01289995					0.05154936			0.004347252	0.78%	0.45%
1935M02						0.01145221					0.04656713			0.004111549	0.70%	0.42%
1935M03						0.01068796					0.04428533			0.003807388	0.80%	0.39%
1935M04						0.01016834					0.0399785			0.003482962	0.78%	0.36%
1935M05						0.0101016					0.0360794			0.003895755	0.80%	0.40%
1935M06						0.00894249					0.05330074			0.003409542	0.79%	0.35%
1935M07						0.0085834					0.04971615			0.00333476	0.78%	0.34%
1935M08						0.00947448					0.04480421			0.003521929	0.74%	0.36%
1935M09						0.0084567					0.04430211			0.003041597	0.67%	0.31%
1935M10						0.00774119					0.04102302			0.002643926	0.59%	0.27%
1935M11						0.00725796					0.03973444			0.002865732	0.65%	0.29%
1935M12						0.00683162					0.0419385			0.002640077	0.57%	0.27%
1936M01						0.0059578					0.03789086			0.002394825	0.52%	0.24%
1936M02						0.00727844					0.05475729			0.00250297	0.56%	0.25%
1936M03						0.00702042					0.06004489			0.002196614	0.52%	0.22%
1936M04						0.00628052					0.05577754			0.001964875	0.46%	0.20%
1936M05						0.0074127					0.05496312			0.002624177	0.49%	0.27%
1936M06						0.00802189					0.0530346			0.002523768	0.48%	0.26%
1936M07						0.00735443					0.04764608			0.002261663	0.43%	0.23%
1936M08						0.01058531					0.04322329			0.002447869	0.47%	0.25%
1936M09						0.00943067					0.04096353			0.002135723	0.41%	0.22%
1936M10						0.00841854					0.04027055			0.001880326	0.38%	0.19%
1936M11						0.00874066					0.03621633			0.002277048	0.36%	0.23%
1936M12						0.00761534					0.03701377			0.001994203	0.32%	0.20%
1937M01						0.00720992					0.03378852			0.001776453	0.29%	0.18%
1937M02						0.00636627					0.03035854			0.001705604	0.26%	0.17%
1937M03						0.00654365					0.02831948			0.001540266	0.25%	0.15%
1937M04						0.00612226					0.02656586			0.001414838	0.27%	0.14%
1937M05						0.00623307					0.02509479			0.002263092	0.31%	0.23%
1937M06						0.00588198					0.02680696			0.001998336	0.32%	0.20%
1937M07						0.00587172					0.02478794			0.002209996	0.31%	0.22%
1937M08						0.00806821					0.03677086			0.003089031	0.55%	0.31%
1937M09						0.00864586					0.03713631			0.003123374	0.60%	0.31%
1937M10						0.00930966					0.0389239			0.005648675	0.71%	0.57%

1937M11						0.01205194					0.03501361			0.0065432	0.67%	0.66%
1937M12						0.0106099					0.03209832			0.007029102	0.59%	0.70%
1938M01						0.01486118					0.03466777			0.006527307	0.64%	0.65%
1938M02						0.01289587					0.0365971			0.005490714	0.59%	0.55%
1938M03						0.01119411					0.03301837			0.004924094	0.52%	0.49%
1938M04						0.01578412					0.04289043			0.013217508	0.94%	1.33%
1938M05						0.01942621					0.04266394			0.012268322	1.02%	1.25%
1938M06						0.0168165					0.03850989			0.010896411	0.89%	1.11%
1938M07						0.01905871					0.03494875			0.01488803	1.01%	1.53%
1938M08						0.01646234					0.0329794			0.012430641	0.88%	1.28%
1938M09						0.01498785					0.03139814			0.010855739	0.83%	1.12%
1938M10						0.01296348					0.02831864			0.009088368	0.73%	0.94%
1938M11						0.01642612					0.09752746			0.007863438	0.93%	0.81%
1938M12						0.01557808					0.09836362			0.006955854	0.89%	0.72%
1939M01						0.01349206					0.08924222			0.005867137	0.78%	0.61%
1939M02						0.01168658					0.08281405			0.005928722	0.69%	0.61%
1939M03						0.01077676					0.07503049			0.005034204	0.65%	0.52%
1939M04						0.01292235					0.08010526			0.00719673	0.82%	0.73%
1939M05						0.01118401					0.07195269			0.006128346	0.72%	0.62%
1939M06						0.01010336					0.06511154			0.005498417	0.66%	0.56%
1939M07						0.00979093					0.06085096			0.005461364	0.61%	0.56%
1939M08						0.00986597					0.05651532			0.005669437	0.67%	0.58%
1939M09						0.00943344					0.05267487			0.005688831	0.65%	0.58%
1939M10						0.00818968					0.04891391			0.00756114	0.58%	0.77%
1939M11						0.00712406					0.04550608			0.006521282	0.51%	0.67%
1939M12						0.00626322					0.04251818			0.005974689	0.46%	0.61%
1940M01						0.00546814					0.03995492			0.005034032	0.41%	0.51%
1940M02						0.00497759					0.03783496			0.004594823	0.36%	0.47%
1940M03						0.00440216					0.03413583			0.003897013	0.32%	0.40%
1940M04						0.0038762					0.03408335			0.003323129	0.29%	0.34%
1940M05						0.00342589					0.03217459			0.002878946	0.26%	0.29%
1940M06						0.00862362					0.03976599			0.009817094	0.67%	0.99%
1940M07						0.00985811					0.0800296			0.008477535	0.79%	0.86%
1940M08						0.00857371					0.07780319			0.007088348	0.70%	0.72%
1940M09						0.00755288					0.0704433			0.005958315	0.62%	0.61%
1940M10						0.0070838					0.06609181			0.005024613	0.56%	0.52%
1940M11						0.00621061					0.06629957			0.004325242	0.49%	0.44%
1940M12						0.00905712					0.08234529			0.003956854	0.62%	0.41%
1941M01						0.00788612					0.07623093			0.003394464	0.54%	0.35%
1941M02						0.00698044					0.07360591			0.003347964	0.48%	0.34%
1941M03						0.00609579					0.06611252			0.002913928	0.44%	0.30%
1941M04						0.0056588					0.07497299			0.002517223	0.40%	0.26%
1941M05						0.00621652					0.07121807			0.002829075	0.45%	0.29%
1941M06						0.00630849					0.06842304			0.002453012	0.42%	0.25%
1941M07						0.00577859					0.06189164			0.002435472	0.37%	0.25%
1941M08						0.00508615					0.05664037			0.002422987	0.35%	0.25%
1941M09						0.00467589					0.0547629			0.002120749	0.32%	0.21%
1941M10						0.00476711					0.04947407			0.001892891	0.30%	0.19%
1941M11						0.00492787					0.0587845			0.00236079	0.35%	0.24%
1941M12						0.0061511					0.05312392			0.002237892	0.37%	0.23%
1942M01						0.0067485					0.05082068			0.002270616	0.39%	0.23%
1942M02						0.00668323					0.05098443			0.001992801	0.35%	0.20%
1942M03						0.00612007					0.04604847			0.001832735	0.33%	0.18%
1942M04						0.00666402					0.04380428			0.002307832	0.43%	0.23%
1942M05						0.00586435					0.04783624			0.002325817	0.41%	0.23%
1942M06						0.0055083					0.04319364			0.002662316	0.44%	0.27%
1942M07						0.00547564					0.03898876			0.002325661	0.39%	0.23%
1942M08						0.00480527					0.03518207			0.002106921	0.34%	0.21%
1942M09						0.00423178					0.03173871			0.001859858	0.31%	0.19%
1942M10						0.00373753					0.03026327			0.001706291	0.29%	0.17%
1942M11						0.00888428					0.03349815			0.001986459	0.44%	0.20%
1942M12						0.00807749					0.03217624			0.001767248	0.39%	0.18%
1943M01						0.00702422					0.02972822			0.001857261	0.35%	0.19%
1943M02						0.00764207					0.06617679			0.002199153	0.45%	0.22%
1943M03						0.00822682					0.08720757			0.002239479	0.44%	0.23%
1943M04						0.00722946					0.08459188			0.002222792	0.40%	0.22%
1943M05						0.0063824					0.07664138			0.001951515	0.36%	0.20%
1943M06						0.00572032					0.09554039			0.002007605	0.33%	0.20%
1943M07						0.00616748					0.09051439			0.001795283	0.31%	0.18%
1943M08						0.00540214					0.08657892			0.00206085	0.28%	0.21%
1943M09						0.00477348					0.08054953			0.001823754	0.25%	0.18%
1943M10						0.00420955					0.07519255			0.001663584	0.23%	0.17%
1943M11						0.00386336					0.07242827			0.001529886	0.20%	0.15%

1943M12						0.00533356					0.07403655			0.002045038	0.26%	0.20%
1944M01						0.00526218					0.0680079			0.002161073	0.26%	0.22%
1944M02						0.00474477					0.06331582			0.001905398	0.23%	0.19%
1944M03						0.00416427					0.0591925			0.001688796	0.21%	0.17%
1944M04						0.00366624					0.05330755			0.001527529	0.19%	0.15%
1944M05						0.0032853					0.04992614			0.001412669	0.17%	0.14%
1944M06						0.00294846					0.04507147			0.001526876	0.16%	0.15%
1944M07						0.00415185					0.0406778			0.001662982	0.17%	0.17%
1944M08						0.00366402					0.05704012			0.001578373	0.15%	0.16%
1944M09						0.00331211					0.05154735			0.001427758	0.15%	0.14%
1944M10						0.00294045					0.05098023			0.00130145	0.14%	0.13%
1944M11						0.00263916					0.04604669			0.001192842	0.13%	0.12%
1944M12						0.00238573					0.05096931			0.001108893	0.12%	0.11%
1945M01						0.00213881					0.04776393			0.00116225	0.12%	0.11%
1945M02						0.00219477					0.04512998			0.001089345	0.13%	0.11%
1945M03						0.00235109					0.04460163			0.001522991	0.16%	0.15%
1945M04						0.00234624					0.04595312			0.00170308	0.17%	0.17%
1945M05						0.00497028					0.04928999			0.0023962	0.26%	0.24%
1945M06						0.00441127					0.04451169			0.00210281	0.23%	0.21%
1945M07						0.00389525					0.07279062			0.00185998	0.25%	0.19%
1945M08						0.0034526					0.06754705			0.001733663	0.22%	0.17%
1945M09						0.0030586					0.06602459			0.001955491	0.20%	0.20%
1945M10						0.00299056					0.06461275			0.001891385	0.23%	0.19%
1945M11						0.00271152					0.06069562			0.001750699	0.24%	0.18%
1945M12						0.00242888					0.07905141			0.001692394	0.23%	0.17%
1946M01						0.00217982					0.07235497			0.001514493	0.21%	0.15%
1946M02						0.002545					0.07390151			0.001902394	0.33%	0.19%
1946M03						0.0026581					0.0674066			0.002337775	0.35%	0.23%
1946M04						0.00253801					0.06058825			0.002235758	0.34%	0.22%
1946M05						0.00231973					0.05650486			0.002076911	0.31%	0.21%
1946M06						0.0020823					0.06487763			0.001880928	0.28%	0.19%
1946M07						0.00221608					0.05990968			0.001919645	0.26%	0.19%
1946M08						0.0019935					0.05684708			0.001828041	0.26%	0.18%
1946M09						0.00364228					0.05286007			0.002337622	0.30%	0.23%
1946M10						0.00422459					0.05689577			0.003552294	0.40%	0.36%
1946M11						0.00374478					0.05141731			0.003086253	0.35%	0.31%
1946M12						0.00335837					0.04760655			0.002682732	0.31%	0.27%
1947M01						0.00297434					0.04458208			0.002484142	0.32%	0.25%
1947M02						0.00308388					0.04117972			0.002194206	0.29%	0.22%
1947M03				0.00068834		0.00275056					0.03814056			0.001957747	0.26%	0.20%
1947M04				0.00079186		0.00272395					0.03635214			0.001796695	0.25%	0.18%
1947M05				0.0007892		0.00250573					0.0332413			0.001840722	0.24%	0.18%
1947M06				0.00076854		0.00234392					0.03121685			0.001638587	0.22%	0.16%
1947M07				0.00083242		0.00212802					0.02838488			0.001765058	0.22%	0.18%
1947M08				0.00079508		0.0019176					0.02734618			0.001691793	0.20%	0.17%
1947M09				0.00100649		0.00187166					0.02555235			0.001606792	0.18%	0.16%
1947M10				0.00130419		0.00172531					0.02401925			0.001482874	0.16%	0.15%
1947M11				0.00121513		0.00182953					0.02161919			0.001378037	0.15%	0.14%
1947M12				0.00194614		0.00302849					0.02143276	0.00141584		0.001324496	0.22%	0.13%
1948M01				0.00172163		0.00269366					0.02054117	0.00148607		0.001246652	0.20%	0.12%
1948M02				0.00210255		0.00247138					0.01852005	0.00159376		0.001390726	0.18%	0.14%
1948M03				0.002152		0.00222594					0.01713781	0.00157877		0.001523287	0.18%	0.15%
1948M04				0.00214744		0.00211147				0.00230889	0.01730435	0.00157948		0.002038419	0.20%	0.20%
1948M05				0.00190065		0.00205255				0.00221498	0.015637	0.0015643		0.001851002	0.18%	0.19%
1948M06				0.00168648		0.0022152				0.00205205	0.01454904	0.00183708		0.002462251	0.19%	0.25%
1948M07				0.001754		0.00211858				0.00197105	0.01315085	0.00180831		0.002146859	0.17%	0.22%
1948M08				0.00192208		0.0021801				0.00277897	0.01211834	0.00180499		0.002336067	0.18%	0.23%
1948M09				0.00169252		0.00196714				0.00290475	0.01093425	0.00178299		0.00204571	0.16%	0.21%
1948M10				0.00162345		0.00179342				0.00310662	0.01097763	0.00189718		0.001967922	0.15%	0.20%
1948M11				0.00147815		0.00172707				0.00296842	0.00990736	0.00236732		0.002241687	0.15%	0.22%
1948M12				0.00178801		0.00254165				0.00287472	0.01126764	0.00285585		0.003375192	0.24%	0.34%
1949M01				0.00160587		0.00227717				0.00281251	0.01016853	0.00272317		0.002955281	0.21%	0.30%
1949M02				0.00203227		0.00225601				0.00289648	0.01041435	0.00252857		0.002556306	0.21%	0.26%
1949M03				0.0019198		0.00211586				0.00265476	0.00940042	0.00248296	0.00536151	0.002420169	0.19%	0.24%
1949M04				0.001687		0.00211851				0.00272754	0.00886412	0.00235503	0.0063418	0.002178502	0.18%	0.22%
1949M05				0.00181222		0.0019138				0.00270207	0.00805181	0.00245637	0.00505033	0.002001323	0.16%	0.20%
1949M06				0.0019191		0.00195827				0.00249965	0.00732042	0.00240949	0.00428912	0.001914113	0.15%	0.19%
1949M07				0.0017794		0.00188267				0.00238416	0.0067772	0.00226306	0.00346557	0.001699564	0.14%	0.17%
1949M08				0.00166403		0.00190864				0.00270381	0.01264228	0.00214867	0.00285293	0.001945119	0.15%	0.19%
1949M09				0.00148801		0.00227326				0.0025366	0.01179402	0.00204602	0.00240643	0.001743954	0.15%	0.17%
1949M10				0.00137409		0.00287139				0.00240991	0.01074767	0.00196672	0.0025648	0.001600689	0.15%	0.16%
1949M11				0.00140817		0.00257092				0.00222361	0.00976826	0.00220373	0.00222179	0.00153042	0.13%	0.15%
1949M12				0.00146574		0.00234297				0.00205431	0.00988417	0.00223757	0.00200434	0.001394231	0.12%	0.14%

1950M01				0.00159639		0.00239051				0.00204243	0.00893427	0.00212996	0.00179854	0.001496984	0.13%	0.15%
1950M02				0.00143882		0.00289426				0.00189241	0.00876762	0.00236817	0.0027444	0.001373544	0.13%	0.14%
1950M03				0.00143389		0.00259244				0.00194252	0.00802507	0.0022428	0.00228832	0.001274889	0.12%	0.13%
1950M04				0.00128834		0.0027348				0.00188446	0.00738336	0.00225018	0.00194709	0.001169243	0.11%	0.12%
1950M05				0.00124419		0.00245075				0.00179193	0.00666699	0.00226413	0.0017374	0.001321068	0.10%	0.13%
1950M06				0.00126725		0.00234931				0.00167877	0.00607094	0.00214244	0.00157835	0.001462818	0.10%	0.15%
1950M07				0.00344901		0.00387371				0.00232291	0.00681626	0.00274848	0.00212098	0.001799356	0.16%	0.18%
1950M08				0.00303423		0.00375324				0.00278516	0.00655849	0.00256427	0.00229463	0.001602301	0.17%	0.16%
1950M09				0.00263373		0.00331849				0.00274473	0.00613265	0.00239311	0.0019516	0.001616392	0.15%	0.16%
1950M10				0.00230584		0.00328784				0.00257703	0.00556681	0.00225737	0.00202945	0.001799028	0.15%	0.18%
1950M11				0.00202092		0.00295782				0.0024829	0.00510304	0.00214834	0.00180921	0.001599931	0.14%	0.16%
1950M12				0.00188311		0.00272559				0.0023123	0.00490689	0.00204471	0.00228133	0.001448863	0.13%	0.14%
1951M01				0.00216449		0.00253172				0.00213319	0.00452092	0.00195791	0.00212866	0.001568871	0.13%	0.16%
1951M02				0.00247293		0.00227913				0.00239721	0.004763	0.00268307	0.00183443	0.001820455	0.13%	0.18%
1951M03				0.00245918		0.00229894				0.00222776	0.00481754	0.00249842	0.00160687	0.001625801	0.13%	0.16%
1951M04				0.00214458		0.00232967				0.00219803	0.00436678	0.00233824	0.00146099	0.001522603	0.12%	0.15%
1951M05				0.0019167		0.00209667				0.00204505	0.00398448	0.00229238	0.00137599	0.001619989	0.11%	0.16%
1951M06				0.00168387		0.00190639				0.00189444	0.00371616	0.00216427	0.00131202	0.001628076	0.10%	0.16%
1951M07				0.00155814		0.00173784				0.00177437	0.00345379	0.00208198	0.00123192	0.001573423	0.10%	0.16%
1951M08				0.00139627		0.00163276				0.00221511	0.00353247	0.00237021	0.00115363	0.001932982	0.11%	0.19%
1951M09				0.0012913		0.001494				0.00204894	0.00326084	0.00226403	0.00126108	0.001909108	0.10%	0.19%
1951M10				0.00119019		0.00138153				0.00192554	0.00299226	0.00220667	0.00119198	0.001695595	0.09%	0.17%
1951M11				0.0013209		0.00127947				0.00180768	0.002753	0.00220739	0.00112502	0.001555724	0.09%	0.16%
1951M12				0.00128055		0.00120762				0.0016937	0.00252664	0.00229205	0.00112487	0.001400573	0.08%	0.14%
1952M01				0.00150402		0.00170402				0.00160262	0.00292736	0.00228455	0.00108743	0.001435219	0.09%	0.14%
1952M02				0.00155194		0.00156343				0.00164878	0.00300795	0.00254171	0.00150088	0.001316892	0.09%	0.13%
1952M03				0.00138482		0.00145906				0.001543	0.00274368	0.00241273	0.00135461	0.001354883	0.08%	0.13%
1952M04				0.00126911		0.00134452				0.00148144	0.00255485	0.00242997	0.00139831	0.001478109	0.08%	0.15%
1952M05				0.00115823		0.00127129				0.00139466	0.00234389	0.00235896	0.00166405	0.001618263	0.08%	0.16%
1952M06				0.00107755		0.00122343				0.00132689	0.00219401	0.00225667	0.00151408	0.001545161	0.08%	0.15%
1952M07				0.00101431		0.00114339				0.00127807	0.00205121	0.00219693	0.00136239	0.001614737	0.07%	0.16%
1952M08				0.00110772		0.00107387				0.00123261	0.00209168	0.0021524	0.00149094	0.001467429	0.07%	0.15%
1952M09				0.00106633		0.00117724				0.00119439	0.00201079	0.00206547	0.00145219	0.001351623	0.07%	0.13%
1952M10		0.00230574		0.00100452		0.0011982				0.00115961	0.0018482	0.00197398	0.00137011	0.001306549	0.07%	0.13%
1952M11		0.00260645		0.00093416		0.0011218				0.00110919	0.00176614	0.00212011	0.00125514	0.00119758	0.06%	0.12%
1952M12		0.00254139		0.00087632		0.00130004				0.00120408	0.00199945	0.00217475	0.00166472	0.001439553	0.08%	0.14%
1953M01	0.00047031	0.00269911		0.00106266		0.00121075				0.00115759	0.00187442	0.00213589	0.00147612	0.001428631	0.08%	0.14%
1953M02	0.00058398	0.00244996		0.00101668		0.00125897				0.00110904	0.00173101	0.00203347	0.00144053	0.001312844	0.07%	0.13%
1953M03	0.00069257	0.00222883		0.00097614		0.00120219				0.00106699	0.00160866	0.00195197	0.00160881	0.00123643	0.07%	0.12%
1953M04	0.00075379	0.0020201		0.00093939		0.00114842				0.0010356	0.00148734	0.00201001	0.00153348	0.001234598	0.07%	0.12%
1953M05	0.00086411	0.00218659		0.00089012		0.00108081				0.00103162	0.00197649	0.00197026	0.00168497	0.001250663	0.07%	0.12%
1953M06	0.00091384	0.0019943		0.00084263		0.00102051				0.00099708	0.00188402	0.00198356	0.00169909	0.001149402	0.07%	0.11%
1953M07	0.0009384	0.00182986		0.00080391		0.00106102				0.00113704	0.00194454	0.00207798	0.00167883	0.001115624	0.07%	0.11%
1953M08	0.00095741	0.00165809		0.0011608		0.00104865				0.00116945	0.0021658	0.00229216	0.00216592	0.001095871	0.08%	0.11%
1953M09	0.00101318	0.00171575		0.00107236		0.0010679				0.00121861	0.00237271	0.00228416	0.00197742	0.001422419	0.07%	0.14%
1953M10	0.00102087	0.00161051		0.00099001		0.00103686				0.00116348	0.00217283	0.00228734	0.00190853	0.001291895	0.07%	0.13%
1953M11	0.00144471	0.00149442		0.00126236		0.00102315				0.00119364	0.00211799	0.0022656	0.00166771	0.001471727	0.08%	0.15%
1953M12	0.0014582	0.00144387		0.00114768		0.00115959				0.00114196	0.00272597	0.00214303	0.00204962	0.001353407	0.08%	0.13%
1954M01	0.00166364	0.0014453		0.00105193		0.00121143				0.0011026	0.00248894	0.00203857	0.00178683	0.00123384	0.08%	0.12%
1954M02	0.0015813	0.00133303		0.0009752		0.00150976				0.00116382	0.00228128	0.00218705	0.00180102	0.001421429	0.08%	0.14%
1954M03	0.00148852	0.00229013		0.00114991		0.00138701				0.00113255	0.00209029	0.00212307	0.0017887	0.001291894	0.08%	0.13%
1954M04	0.00156613	0.00206633		0.00117002		0.00128179				0.00109219	0.00198504	0.00202616	0.00160002	0.001268539	0.08%	0.13%
1954M05	0.00147576	0.00198413		0.00150214		0.00119845				0.0010515	0.00184617	0.0019433	0.00149883	0.001426179	0.07%	0.14%
1954M06	0.00157366	0.00179774		0.00137148		0.00115159				0.00101616	0.00171111	0.00189726	0.00136895	0.001451898	0.08%	0.14%
1954M07	0.00160959	0.00163204		0.00127569		0.00108192				0.00098364	0.0015787	0.00183269	0.00134565	0.001316486	0.07%	0.13%
1954M08	0.00178449	0.00248091		0.00227805		0.00134279				0.00102188	0.00284723	0.00223085	0.00143943	0.001554702	0.09%	0.15%
1954M09	0.00194773	0.0024191		0.0021564		0.00144963				0.00100457	0.0030999	0.00274713	0.00158462	0.001552431	0.09%	0.15%
1954M10	0.00189611	0.00218694		0.00188041		0.00144763				0.00097168	0.00284932	0.00280981	0.00146275	0.002171587	0.08%	0.22%
1954M11	0.00186137	0.00262494		0.00198589		0.00166794				0.001006	0.00277655	0.00275635	0.0017778	0.001989507	0.10%	0.20%
1954M12	0.00239569	0.00249689		0.00204619		0.00173388				0.00109516	0.00259173	0.00255713	0.00184266	0.002618685	0.12%	0.26%
1955M01	0.00216557	0.00231213		0.00181956		0.00163115				0.00105205	0.0024609	0.00242647	0.00173909	0.002506183	0.12%	0.25%
1955M02	0.00198188	0.00267106		0.00185112		0.00150835				0.00109646	0.00250013	0.00227925	0.00153863	0.002192025	0.11%	0.22%
1955M03	0.00213678	0.00267365		0.00170028		0.00168745				0.00137185	0.00255863	0.00216473	0.00139166	0.001922397	0.11%	0.19%
1955M04	0.00195459	0.00240324		0.00177869		0.00154301				0.00152289	0.00253673	0.0022011	0.00129684	0.001717689	0.10%	0.17%
1955M05	0.00199018	0.00219594		0.00157758		0.00141949				0.00154981	0.00240446	0.00267509	0.00120271	0.001662865	0.10%	0.17%
1955M06	0.00192188	0.00200372		0.00151985		0.00130948				0.00147491	0.00220204	0.00264893	0.00119626	0.001488379	0.09%	0.15%
1955M07	0.00180227	0.00203596		0.00139064		0.00124217				0.00138911	0.00218628	0.00246569	0.0011531	0.002101259	0.09%	0.21%
1955M08	0.00166926	0.00193466		0.00189796		0.0013569				0.00157815	0.00233693	0.00231025	0.00108945	0.002208902	0.10%	0.22%
1955M09	0.00157776	0.00184494		0.0016699		0.00130359				0.00153496	0.00216798	0.00250236	0.00104626	0.001955136	0.09%	0.20%
1955M10	0.00183242	0.00272747		0.00163421		0.00153971				0.00150088	0.00199355	0.00274838	0.00156727	0.001730255	0.10%	0.17%
1955M11	0.00175288	0.00245057		0.00175037		0.00147921				0.00145394	0.00234794	0.00256098	0.00179647	0.001711611	0.09%	0.17%
1955M12	0.0016655	0.00231863		0.0015904		0.00136163				0.00156541	0.00225598	0.00251183	0.00160947	0.002241897	0.09%	0.23%
1956M01	0.00156879	0.0023241		0.00141963		0.00129983				0.00147251	0.00210973	0.00257508	0.00214044	0.001971447	0.09%	0.20%

1956M02	0.00148492	0.0021109		0.00128204		0.00123217				0.00141335	0.00204127	0.00257005	0.00191567	0.001981513	0.08%	0.20%
1956M03	0.00140619	0.00194579		0.0012372		0.00114873				0.00133969	0.00191217	0.00242576	0.00169393	0.001885853	0.08%	0.19%
1956M04	0.0013404	0.0017753		0.00113981		0.00107894				0.00140972	0.0022816	0.00234086	0.00152305	0.002172038	0.09%	0.22%
1956M05	0.00171143	0.00161741		0.00113794		0.00115704				0.00158164	0.00211414	0.00240243	0.00139951	0.001918347	0.09%	0.19%
1956M06	0.00172855	0.00148055		0.00104553		0.00109173				0.00148347	0.00217726	0.00225889	0.00140242	0.002285994	0.09%	0.23%
1956M07	0.00162943	0.0014658		0.00117055		0.00103402				0.00139666	0.0019961	0.00213619	0.00141289	0.0021248	0.09%	0.21%
1956M08	0.00155407	0.00138997		0.00157241		0.00134269				0.00145833	0.00206207	0.00223443	0.00136412	0.002110051	0.11%	0.21%
1956M09	0.00146727	0.00127006		0.0014279		0.00146446				0.00140459	0.00207927	0.00218179	0.0012546	0.002080526	0.11%	0.21%
1956M10	0.00156382	0.00128335		0.00138832		0.0015283				0.00152217	0.0019849	0.00245358	0.00167907	0.002189677	0.11%	0.22%
1956M11	0.00147212	0.0011976		0.00125596		0.00140288				0.00146041	0.00182837	0.00231879	0.00156489	0.001921743	0.10%	0.19%
1956M12	0.00139646	0.00110282		0.00142402		0.00129614				0.0014253	0.00173257	0.00218851	0.00143251	0.001724547	0.10%	0.17%
1957M01	0.00134278	0.00102318		0.00132119		0.001209				0.00134788	0.00159717	0.00211118	0.0013058	0.00164359	0.09%	0.16%
1957M02	0.00138977	0.00094611		0.00131711		0.0011289				0.00131856	0.00258365	0.00204425	0.00127643	0.001767816	0.09%	0.18%
1957M03	0.00134356	0.00095695		0.00120769		0.00107638				0.00126127	0.00250424	0.00195854	0.00118205	0.001725481	0.09%	0.17%
1957M04	0.00148369	0.00112091		0.00113381		0.00101736				0.00120764	0.00229222	0.00189046	0.00111925	0.001562153	0.08%	0.16%
1957M05	0.00140531	0.00108859		0.001125		0.00096471				0.00115484	0.00243267	0.00183943	0.00106926	0.001527044	0.09%	0.15%
1957M06	0.00134267	0.00101428		0.001091		0.00096618				0.00121552	0.00272995	0.001787	0.00106771	0.001540917	0.09%	0.15%
1957M07	0.00183542	0.00112342		0.00154535		0.00099686				0.00124153	0.00255568	0.0020378	0.00109807	0.001393769	0.10%	0.14%
1957M08	0.00169667	0.00110991		0.00137853		0.00094884				0.00120195	0.00246848	0.00195797	0.00135217	0.001270407	0.10%	0.13%
1957M09	0.00158137	0.00160662		0.00125224		0.00091383				0.00114778	0.00268294	0.00189901	0.00146711	0.001586784	0.10%	0.16%
1957M10	0.00149743	0.00146381		0.00114208		0.00087814				0.00111713	0.00249625	0.00193019	0.00136171	0.002019754	0.10%	0.20%
1957M11	0.00164723	0.00142931		0.00104964		0.00084745				0.00118541	0.00229392	0.00186794	0.00172044	0.001981515	0.09%	0.20%
1957M12	0.00157389	0.00189836		0.0011437		0.00088145				0.00128098	0.00235364	0.0018161	0.00156326	0.001774148	0.10%	0.18%
1958M01	0.00185789	0.00171937		0.00146244		0.0010546				0.00121738	0.00242536	0.00209133	0.00314428	0.001872759	0.10%	0.19%
1958M02	0.00227579	0.00250988		0.00132668		0.00195544				0.00155281	0.00243124	0.0025787	0.00276046	0.001824	0.12%	0.18%
1958M03	0.00209885	0.00255465		0.00120034		0.00178837				0.00150822	0.00227924	0.00242392	0.00230191	0.001683827	0.11%	0.17%
1958M04	0.00193841	0.00229797		0.00110016		0.00163899				0.0014336	0.00292761	0.00231665	0.00230754	0.001583082	0.11%	0.16%
1958M05	0.00191635	0.00207402		0.00153525		0.00251891				0.0015522	0.00269565	0.00218668	0.00263523	0.001508881	0.12%	0.15%
1958M06	0.00176723	0.00207345		0.0014049		0.00233569				0.00153043	0.00252336	0.00207945	0.00220696	0.001386301	0.11%	0.14%
1958M07	0.00171187	0.00203119		0.00127895		0.00209585				0.00146827	0.00254532	0.00199281	0.00201064	0.001315738	0.10%	0.13%
1958M08	0.00180486	0.00187403		0.00125871		0.00191917				0.00150809	0.00233294	0.00196589	0.00184814	0.001386864	0.10%	0.14%
1958M09	0.00241163	0.00176448		0.00118009		0.00186871				0.00143819	0.00240584	0.00209837	0.00172459	0.001275106	0.09%	0.13%
1958M10	0.00221917	0.00163853		0.00142476		0.00191723				0.00135707	0.00285694	0.00205548	0.00199808	0.001403242	0.09%	0.14%
1958M11	0.00215219	0.00154043		0.00130493		0.00223268				0.00129646	0.00273338	0.00196593	0.00176182	0.001322215	0.10%	0.13%
1958M12	0.00200948	0.00155954		0.00118499		0.00201848				0.00172983	0.00265204	0.00197155	0.00156267	0.001266344	0.10%	0.13%
1959M01	0.00211884	0.00175381		0.00110157		0.00345338				0.00163748	0.00271084	0.00192097	0.00141186	0.001433788	0.13%	0.14%
1959M02	0.00200205	0.00169585		0.00133798		0.00308258				0.00157756	0.00283336	0.00217629	0.00213192	0.001300276	0.12%	0.13%
1959M03	0.00185658	0.00153985		0.00153832		0.00273973				0.00157765	0.00261142	0.00217449	0.00185994	0.001190604	0.11%	0.12%
1959M04	0.00171495	0.00141836		0.00250459		0.00281353				0.00161576	0.00261141	0.00215048	0.0017606	0.00110338	0.10%	0.11%
1959M05	0.00164085	0.00152064		0.00242184		0.00253243				0.0017511	0.00288539	0.00214102	0.00159613	0.001170342	0.10%	0.12%
1959M06	0.00190929	0.0013957		0.00211389		0.00226507				0.0018218	0.00282541	0.00218406	0.00147424	0.001119988	0.09%	0.11%
1959M07	0.00175858	0.0012973		0.00184901		0.00217274				0.00170222	0.00260357	0.00212402	0.00169316	0.001052969	0.09%	0.10%
1959M08	0.00182278	0.00120635		0.00201904		0.00206712				0.00163203	0.00311575	0.00202661	0.00154043	0.001097384	0.09%	0.11%
1959M09	0.00174107	0.0011182		0.00179781		0.00191272				0.00169702	0.00283867	0.00205623	0.00158307	0.001060844	0.09%	0.10%
1959M10	0.0022034	0.00104259		0.00163692		0.00178605				0.00168933	0.00316766	0.00217871	0.00171303	0.001325284	0.10%	0.13%
1959M11	0.00201488	0.0009686		0.00147118		0.00162644				0.00158055	0.003005	0.00212566	0.00151185	0.00121378	0.10%	0.12%
1959M12	0.00186126	0.00102572		0.00139485		0.00166424				0.00152683	0.0027876	0.00202658	0.00137048	0.00113502	0.09%	0.11%
1960M01	0.00172994	0.00119772		0.00167954		0.00160096				0.00152076	0.00256749	0.00195056	0.00140415	0.001115872	0.09%	0.11%
1960M02	0.00163447	0.00140493		0.00163053		0.00219885				0.00149632	0.00240612	0.00197914	0.00145651	0.001794209	0.08%	0.18%
1960M03	0.00165429	0.00136787		0.00145723		0.00201585				0.0014203	0.0023138	0.00194276	0.00132798	0.001599208	0.08%	0.16%
1960M04	0.00170308	0.00125252		0.00142084		0.00183833				0.00137665	0.0022633	0.00187261	0.00193729	0.001491408	0.08%	0.15%
1960M05	0.00211062	0.00119663		0.00136014		0.00168198				0.00132638	0.00214975	0.00191821	0.00180903	0.001420392	0.07%	0.14%
1960M06	0.0020084	0.00115068		0.0015131		0.00153547				0.00154549	0.00199059	0.0018525	0.00292645	0.001364423	0.07%	0.14%
1960M07	0.00195096	0.00106166		0.00148838		0.00171332				0.0021656	0.00238424	0.00186033	0.00242575	0.00126541	0.08%	0.12%
1960M08	0.00180264	0.00105178		0.00138587		0.00163033				0.00200775	0.00223827	0.00196314	0.00208237	0.001280583	0.08%	0.13%
1960M09	0.00181	0.00107714		0.00138444		0.00149098				0.00186913	0.00232102	0.00190546	0.00190909	0.001248618	0.10%	0.12%
1960M10	0.0020063	0.00100686		0.00152358		0.00154623				0.00177511	0.00372455	0.00203496	0.00276079	0.001704835	0.12%	0.17%
1960M11	0.00185736	0.00093189		0.00137618		0.00149638				0.00165535	0.00338579	0.00194779	0.00240567	0.001533444	0.11%	0.15%
1960M12	0.00202436	0.00094434		0.00138438		0.00137549				0.00163148	0.00324614	0.00188839	0.00301082	0.001569674	0.12%	0.16%
1961M01	0.00186681	0.00098765		0.00147001		0.00200681				0.00199489	0.00313306	0.00187656	0.00268284	0.001611218	0.15%	0.16%
1961M02	0.00206942	0.00189543		0.00145793		0.00190436				0.00217085	0.00297519	0.00199729	0.0022425	0.001846125	0.17%	0.18%
1961M03	0.00220889	0.00181397		0.0014048		0.00249006				0.00228116	0.00271189	0.00191657	0.0025638	0.001705944	0.17%	0.17%
1961M04	0.00202288	0.00275722		0.00132675		0.00320601				0.0023219	0.00269025	0.00197383	0.00230821	0.001566695	0.16%	0.16%
1961M05	0.00190916	0.0025317		0.00135606		0.00286417				0.00214085	0.00346075	0.00189892	0.00195993	0.001409855	0.14%	0.14%
1961M06	0.00231329	0.00229184		0.00142204		0.00274095				0.00200139	0.00321486	0.00206962	0.00200329	0.001312677	0.13%	0.13%
1961M07	0.00268774	0.00313193		0.00157749		0.0030078				0.00186551	0.00341045	0.00204904	0.0019436	0.001354834	0.13%	0.13%
1961M08	0.0028752	0.00299224		0.00212221	0.0024815	0.00269416				0.00222291	0.00421178	0.00197376	0.00177899	0.001324921	0.13%	0.13%
1961M09	0.00260546	0.00268898		0.00215879	0.00230178	0.0024291				0.00224844	0.00392667	0.00220179	0.00333999	0.001246133	0.14%	0.12%
1961M10	0.00252496	0.00241775		0.00239799	0.00246666	0.00224515				0.00207629	0.00357219	0.00209169	0.00290679	0.001228558	0.13%	0.12%
1961M11	0.00228564	0.00237722		0.0028997	0.00252907	0.0027636				0.00290436	0.00330038	0.00287688	0.00253803	0.001195555	0.13%	0.12%
1961M12	0.00212475	0.00242929		0.00278905	0.00237715	0.00260709				0.00265944	0.00308824	0.00265926	0.00222836	0.001285072	0.13%	0.13%
1962M01	0.00258045	0.00255911		0.00245511	0.00219798	0.00272218				0.00264032	0.00316489	0.00248295	0.00317083	0.001178273	0.13%	0.12%
1962M02	0.00234168	0.00244001		0.0028472	0.00276934	0.00296486				0.00254911	0.00294353	0.00240679	0.00313019	0.001336618	0.14%	0.13%

1962M03	0.00222718	0.00219666		0.00250197	0.00297579	0.00264523				0.00248402	0.00276164	0.00233214	0.00259851	0.001242874	0.13%	0.12%
1962M04	0.00214914	0.00199359		0.00242988	0.00270345	0.00248723				0.00246542	0.00252156	0.00220984	0.00227549	0.001160613	0.12%	0.11%
1962M05	0.00196627	0.0025096		0.00212783	0.00253719	0.00232764				0.00234548	0.00233338	0.00226226	0.0023389	0.001658485	0.13%	0.16%
1962M06	0.00352529	0.00255392		0.00606135	0.00340717	0.00282478				0.00377207	0.00475488	0.00252048	0.00318124	0.002505444	0.22%	0.25%
1962M07	0.00324513	0.0024409		0.00508935	0.0047221	0.00276293				0.00352854	0.00515009	0.00270325	0.00263243	0.003239784	0.24%	0.32%
1962M08	0.00319429	0.00240581		0.00450866	0.00454936	0.0030553				0.00376734	0.00706262	0.00297304	0.00305272	0.003121263	0.25%	0.31%
1962M09	0.00341232	0.00222728		0.00395681	0.00455293	0.00273232				0.00399104	0.00641094	0.00309078	0.00252228	0.002692754	0.23%	0.27%
1962M10	0.00383567	0.00214215		0.00385654	0.00486878	0.00253116				0.00406996	0.00650066	0.00300828	0.00220731	0.002762396	0.22%	0.28%
1962M11	0.00344773	0.00212855		0.00330566	0.00448775	0.00232026				0.00373898	0.00599056	0.00288406	0.00193273	0.002395155	0.20%	0.24%
1962M12	0.00420448	0.00265239		0.00383857	0.00473647	0.00309073				0.00346129	0.00609652	0.00319349	0.00168445	0.003310281	0.23%	0.33%
1963M01	0.00370753	0.00242771		0.34%	0.43%	0.30%				0.35%	0.55%	0.29%	0.29%	0.002841133	0.21%	0.29%
1963M02	0.00369216	0.00273429		0.29%	0.37%	0.28%				0.32%	0.53%	0.31%	0.24%	0.002643332	0.22%	0.27%
1963M03	0.00333961	0.00248667		0.30%	0.33%	0.26%				0.30%	0.48%	0.30%	0.21%	0.002450526	0.20%	0.25%
1963M04	0.00297921	0.00225201		0.33%	0.29%	0.24%				0.27%	0.44%	0.28%	0.21%	0.002221698	0.18%	0.22%
1963M05	0.00278331	0.0020855		0.28%	0.29%	0.22%				0.25%	0.40%	0.27%	0.19%	0.002146099	0.17%	0.22%
1963M06	0.0024996	0.00190392		0.24%	0.26%	0.20%				0.24%	0.37%	0.25%	0.20%	0.001895415	0.15%	0.19%
1963M07	0.00231467	0.00172413		0.22%	0.24%	0.20%				0.22%	0.34%	0.23%	0.18%	0.001777156	0.14%	0.18%
1963M08	0.00209346	0.00159344		0.19%	0.21%	0.20%				0.21%	0.33%	0.22%	0.16%	0.001598223	0.13%	0.16%
1963M09	0.00233857	0.00145026		0.25%	0.24%	0.18%				0.19%	0.30%	0.22%	0.14%	0.00169415	0.13%	0.17%
1963M10	0.00276755	0.0014553		0.34%	0.25%	0.18%				0.21%	0.30%	0.21%	0.17%	0.001556836	0.13%	0.16%
1963M11	0.00252359	0.00140914		0.29%	0.25%	0.16%				0.19%	0.27%	0.22%	0.15%	0.001483923	0.12%	0.15%
1963M12	0.00236042	0.00129688		0.25%	0.23%	0.15%				0.18%	0.25%	0.21%	0.14%	0.001360648	0.11%	0.14%
1964M01	0.00216215	0.00121055		0.22%	0.22%	0.15%				0.17%	0.26%	0.20%	0.16%	0.001282124	0.11%	0.13%
1964M02	0.00197871	0.00112603		0.20%	0.20%	0.13%				0.16%	0.24%	0.20%	0.14%	0.001229802	0.10%	0.12%
1964M03	0.00181923	0.00106177		0.18%	0.19%	0.13%				0.16%	0.23%	0.20%	0.14%	0.001139409	0.09%	0.11%
1964M04	0.00169683	0.00106744		0.16%	0.19%	0.12%				0.18%	0.21%	0.22%	0.13%	0.00106856	0.09%	0.11%
1964M05	0.00164479	0.00101203		0.18%	0.18%	0.12%				0.17%	0.20%	0.20%	0.12%	0.000999654	0.08%	0.10%
1964M06	0.00158007	0.00131126		0.18%	0.17%	0.11%				0.18%	0.21%	0.20%	0.12%	0.000955332	0.08%	0.09%
1964M07	0.00149929	0.00123764		0.23%	0.16%	0.14%				0.17%	0.20%	0.19%	0.12%	0.000921951	0.08%	0.09%
1964M08	0.00143256	0.00116197		0.21%	0.25%	0.14%				0.16%	0.21%	0.19%	0.17%	0.000900986	0.09%	0.09%
1964M09	0.00140283	0.00115265		0.19%	0.22%	0.14%				0.15%	0.21%	0.18%	0.15%	0.000903937	0.08%	0.09%
1964M10	0.00138628	0.00106036		0.24%	0.20%	0.19%				0.14%	0.21%	0.19%	0.13%	0.000936771	0.08%	0.09%
1964M11	0.00135187	0.00105009		0.24%	0.19%	0.18%				0.15%	0.19%	0.19%	0.13%	0.000892696	0.08%	0.09%
1964M12	0.00145256	0.00105365		0.22%	0.17%	0.17%				0.15%	0.18%	0.18%	0.13%	0.000859486	0.07%	0.08%
1965M01	0.00140191	0.00097298		0.19%	0.16%	0.18%				0.14%	0.17%	0.18%	0.17%	0.000827937	0.07%	0.08%
1965M02	0.0014137	0.0010933		0.26%	0.15%	0.16%				0.18%	0.17%	0.17%	0.16%	0.000905997	0.08%	0.09%
1965M03	0.00134666	0.00106881		0.23%	0.15%	0.16%				0.18%	0.16%	0.22%	0.15%	0.00086721	0.07%	0.08%
1965M04	0.00164915	0.00101225		0.23%	0.14%	0.15%				0.18%	0.15%	0.24%	0.18%	0.000884389	0.07%	0.09%
1965M05	0.00188396	0.00093992		0.20%	0.15%	0.14%				0.16%	0.14%	0.23%	0.16%	0.000959177	0.07%	0.09%
1965M06	0.00174676	0.00095103		0.20%	0.15%	0.14%				0.16%	0.14%	0.22%	0.15%	0.000920868	0.06%	0.09%
1965M07	0.00193336	0.00141783		0.22%	0.16%	0.14%				0.19%	0.15%	0.26%	0.13%	0.001249887	0.08%	0.12%
1965M08	0.00179055	0.00129732		0.20%	0.15%	0.13%				0.18%	0.14%	0.25%	0.13%	0.001155403	0.07%	0.11%
1965M09	0.00168077	0.00124124		0.19%	0.16%	0.13%				0.17%	0.13%	0.25%	0.13%	0.001121077	0.07%	0.11%
1965M10	0.00157173	0.00137963		0.18%	0.20%	0.13%				0.16%	0.17%	0.23%	0.12%	0.001131175	0.07%	0.11%
1965M11	0.00156023	0.00128874		0.16%	0.18%	0.13%				0.15%	0.16%	0.24%	0.14%	0.001112223	0.07%	0.11%
1965M12	0.00149438	0.00122857		0.16%	0.17%	0.21%				0.14%	0.15%	0.24%	0.14%	0.001049034	0.07%	0.10%
1966M01	0.00145222	0.00114223		0.14%	0.16%	0.19%				0.14%	0.16%	0.24%	0.13%	0.0009852	0.06%	0.10%
1966M02	0.00168164	0.00145664		0.17%	0.26%	0.18%				0.15%	0.15%	0.25%	0.12%	0.000931206	0.07%	0.09%
1966M03	0.0019423	0.00133475		0.18%	0.27%	0.18%				0.15%	0.28%	0.25%	0.15%	0.000934962	0.09%	0.09%
1966M04	0.00183227	0.00128048		0.22%	0.24%	0.18%				0.14%	0.25%	0.24%	0.14%	0.000985911	0.09%	0.10%
1966M05	0.00170805	0.00117324		0.20%	0.29%	0.17%				0.14%	0.25%	0.24%	0.14%	0.000961455	0.08%	0.09%
1966M06	0.00183836	0.00113383		0.18%	0.26%	0.19%				0.18%	0.23%	0.24%	0.14%	0.00131595	0.09%	0.13%
1966M07	0.00173072	0.00104692		0.16%	0.32%	0.17%				0.18%	0.22%	0.23%	0.13%	0.001268223	0.09%	0.12%
1966M08	0.00161459	0.00102735		0.15%	0.28%	0.16%				0.19%	0.28%	0.22%	0.13%	0.001213599	0.08%	0.12%
1966M09	0.00243105	0.0010043		0.42%	0.26%	0.22%				0.42%	0.42%	0.23%	0.17%	0.001946955	0.17%	0.19%
1966M10	0.00231416	0.00093269		0.48%	0.24%	0.20%				0.42%	0.42%	0.22%	0.18%	0.001751906	0.17%	0.17%
1966M11	0.002671	0.00109569		0.42%	0.29%	0.20%				0.47%	0.66%	0.29%	0.19%	0.001763149	0.24%	0.17%
1966M12	0.00238937	0.00113486		0.36%	0.26%	0.19%				0.43%	0.67%	0.31%	0.18%	0.001570095	0.22%	0.16%
1967M01	0.00215882	0.00106503		0.32%	0.23%	0.19%				0.39%	0.60%	0.33%	0.20%	0.001421106	0.20%	0.14%
1967M02	0.00205485	0.00306733		0.29%	0.22%	0.31%				0.36%	0.55%	0.31%	0.18%	0.001936638	0.18%	0.19%
1967M03	0.00189448	0.00330455		0.25%	0.24%	0.28%	0.12%			0.33%	0.50%	0.32%	0.15%	0.001713276	0.17%	0.17%
1967M04	0.00176011	0.00300155		0.24%	0.22%	0.27%	0.14%			0.30%	0.48%	0.31%	0.16%	0.001656117	0.16%	0.16%
1967M05	0.00221191	0.002695		0.22%	0.20%	0.24%	0.15%			0.28%	0.49%	0.28%	0.16%	0.001637819	0.14%	0.16%
1967M06	0.00202184	0.00243793		0.31%	0.23%	0.23%	0.15%			0.26%	0.52%	0.29%	0.24%	0.001883628	0.17%	0.19%
1967M07	0.00192919	0.00229563		0.27%	0.23%	0.22%	0.15%			0.24%	0.49%	0.27%	0.21%	0.001679679	0.15%	0.17%
1967M08	0.00178721	0.00231271		0.25%	0.21%	0.20%	0.14%			0.26%	0.44%	0.28%	0.19%	0.001677617	0.14%	0.17%
1967M09	0.0016563	0.00208438		0.23%	0.19%	0.19%	0.14%			0.23%	0.43%	0.28%	0.16%	0.001534561	0.13%	0.15%
1967M10	0.0015504	0.00188736		0.20%	0.24%	0.17%	0.14%			0.23%	0.39%	0.26%	0.14%	0.00146414	0.12%	0.14%
1967M11	0.00170017	0.0018481		0.20%	0.30%	0.16%	0.14%			0.25%	0.37%	0.26%	0.16%	0.001496372	0.15%	0.15%
1967M12	0.00163215	0.00184914		0.18%	0.40%	0.16%	0.16%			0.26%	0.47%	0.24%	0.15%	0.001351935	0.14%	0.13%
1968M01	0.00154506	0.00167512		0.21%	0.38%	0.16%	0.16%			0.24%	0.44%	0.24%	0.14%	0.001278911	0.14%	0.13%
1968M02	0.00146195	0.00177713		0.26%	0.33%	0.27%	0.15%			0.22%	0.42%	0.22%	0.30%	0.001510796	0.12%	0.15%
1968M03	0.00146876	0.00166278		0.24%	0.29%	0.25%	0.14%			0.21%	0.41%	0.21%	0.32%	0.001519579	0.12%	0.15%

1968M04	0.00184574	0.00154781		0.24%	0.38%	0.24%	0.16%			0.23%	0.41%	0.26%	0.28%	0.001370496	0.14%	0.14%
1968M05	0.00170543	0.00142763		0.21%	0.40%	0.23%	0.15%			0.22%	0.40%	0.24%	0.27%	0.001948059	0.13%	0.19%
1968M06	0.00170814	0.00131051		0.19%	0.36%	0.24%	0.14%			0.20%	0.37%	0.23%	0.25%	0.001725588	0.12%	0.17%
1968M07	0.00209228	0.00121675		0.32%	0.39%	0.24%	0.26%			0.28%	0.35%	0.23%	0.34%	0.001539332	0.17%	0.15%
1968M08	0.00191707	0.00112036		0.28%	0.35%	0.22%	0.24%			0.26%	0.32%	0.22%	0.28%	0.001478237	0.15%	0.15%
1968M09	0.0017638	0.00114701		0.24%	0.33%	0.21%	0.24%			0.24%	0.33%	0.21%	0.25%	0.001343289	0.14%	0.13%
1968M10	0.00163787	0.00108928		0.21%	0.29%	0.20%	0.22%			0.23%	0.32%	0.22%	0.21%	0.001350402	0.13%	0.13%
1968M11	0.00175014	0.0010081		0.19%	0.26%	0.18%	0.22%			0.21%	0.34%	0.21%	0.22%	0.001231092	0.12%	0.12%
1968M12	0.00297186	0.00142498		0.20%	0.49%	0.17%	0.28%			0.45%	0.42%	0.20%	0.33%	0.001389887	0.16%	0.14%
1969M01	0.00310218	0.00130574		0.18%	0.61%	0.16%	0.25%			0.48%	0.39%	0.20%	0.32%	0.001575579	0.16%	0.16%
1969M02	0.00275802	0.00124323		0.17%	0.54%	0.19%	0.23%			0.43%	0.36%	0.19%	0.27%	0.001451929	0.15%	0.14%
1969M03	0.00251927	0.00124006		0.22%	0.48%	0.20%	0.23%			0.44%	0.40%	0.20%	0.24%	0.001656162	0.17%	0.16%
1969M04	0.00236513	0.00115313		0.19%	0.46%	0.18%	0.21%			0.40%	0.37%	0.19%	0.20%	0.001568033	0.16%	0.16%
1969M05	0.00224381	0.00117412		0.17%	0.41%	0.16%	0.20%			0.37%	0.37%	0.19%	0.19%	0.001429535	0.15%	0.14%
1969M06	0.00206881	0.00194293		0.15%	0.38%	0.16%	0.18%			0.34%	0.34%	0.18%	0.17%	0.001301676	0.13%	0.13%
1969M07	0.00209547	0.00418664		0.31%	0.46%	0.16%	0.21%			0.34%	0.36%	0.20%	0.16%	0.001709811	0.16%	0.17%
1969M08	0.00195893	0.00401876		0.45%	0.41%	0.16%	0.19%			0.33%	0.33%	0.21%	0.24%	0.002138144	0.17%	0.21%
1969M09	0.00189611	0.00368917		0.42%	0.36%	0.24%	0.20%			0.34%	0.34%	0.20%	0.24%	0.002023858	0.15%	0.20%
1969M10	0.00220678	0.0035848		0.36%	0.42%	0.30%	0.21%			0.36%	0.33%	0.22%	0.20%	0.001944785	0.16%	0.19%
1969M11	0.00220879	0.00338728		0.39%	0.41%	0.30%	0.20%			0.36%	0.46%	0.25%	0.20%	0.001866881	0.20%	0.19%
1969M12	0.00204476	0.00306798		0.47%	0.35%	0.32%	0.20%			0.37%	0.45%	0.26%	0.25%	0.001864291	0.23%	0.19%
1970M01	0.00219653	0.00288921		0.40%	0.41%	0.30%	0.19%			0.34%	0.42%	0.24%	0.24%	0.001764762	0.21%	0.18%
1970M02	0.00205355	0.00264766		0.39%	0.54%	0.30%	0.19%			0.39%	0.39%	0.26%	0.21%	0.002502147	0.22%	0.25%
1970M03	0.00270662	0.00241556		0.51%	0.46%	0.28%	0.17%			0.39%	0.40%	0.29%	0.30%	0.002440477	0.30%	0.25%
1970M04	0.0024253	0.00234619		0.49%	0.39%	0.25%	0.16%			0.35%	0.37%	0.27%	0.26%	0.002139981	0.26%	0.21%
1970M05	0.00243317	0.00243718		0.64%	0.48%	0.25%	0.16%			0.43%	0.58%	0.27%	0.29%	0.003180692	0.35%	0.32%
1970M06	0.0021916	0.00226403		0.58%	0.43%	0.42%	0.17%			0.40%	0.59%	0.27%	0.26%	0.003363222	0.36%	0.34%
1970M07	0.00252458	0.00242229		0.86%	0.57%	0.38%	0.22%			0.44%	0.65%	0.25%	0.24%	0.003426461	0.37%	0.35%
1970M08	0.0024991	0.0022287		0.87%	0.56%	0.33%	0.20%			0.40%	0.65%	0.24%	0.24%	0.003371377	0.40%	0.34%
1970M09	0.00236893	0.00218706		0.73%	0.49%	0.29%	0.19%			0.38%	0.70%	0.23%	0.24%	0.00304281	0.38%	0.31%
1970M10	0.00214836	0.00199929		0.61%	0.42%	0.26%	0.19%			0.35%	0.69%	0.22%	0.21%	0.002669384	0.34%	0.27%
1970M11	0.00214021	0.00224201		0.58%	0.36%	0.24%	0.17%			0.32%	0.62%	0.21%	0.22%	0.002385647	0.31%	0.24%
1970M12	0.00263956	0.00216493		0.58%	0.38%	0.22%	0.21%			0.37%	0.67%	0.21%	0.35%	0.002287677	0.35%	0.23%
1971M01	0.00279868	0.00201956		0.54%	0.36%	0.51%	0.23%			0.39%	0.68%	0.26%	0.40%	0.002268735	0.35%	0.23%
1971M02	0.00251147	0.00216226		0.46%	0.32%	0.48%	0.22%			0.35%	0.62%	0.24%	0.33%	0.002097068	0.32%	0.21%
1971M03	0.00232926	0.0019992		0.54%	0.28%	0.52%	0.20%			0.33%	0.61%	0.23%	0.30%	0.001845394	0.30%	0.18%
1971M04	0.00212191	0.0019176		0.52%	0.27%	0.47%	0.20%			0.32%	0.55%	0.22%	0.29%	0.001728832	0.27%	0.17%
1971M05	0.00200659	0.00174118		0.55%	0.24%	0.41%	0.20%			0.30%	0.61%	0.23%	0.30%	0.001637713	0.26%	0.16%
1971M06	0.00277674	0.00169676		0.53%	0.22%	0.44%	0.19%			0.30%	0.60%	0.23%	0.34%	0.001743449	0.26%	0.18%
1971M07	0.00318851	0.00176669		0.45%	0.22%	0.39%	0.18%			0.29%	0.62%	0.22%	0.28%	0.001564272	0.24%	0.16%
1971M08	0.00356154	0.0017112		0.38%	0.21%	0.35%	0.17%			0.30%	0.64%	0.21%	0.23%	0.001725806	0.22%	0.17%
1971M09	0.31%	0.16%		0.34%	0.19%	0.31%	0.16%			0.29%	0.66%	0.22%	0.20%	0.17%	0.21%	0.17%
1971M10	0.28%	0.16%		0.30%	0.22%	0.31%	0.15%			0.26%	0.60%	0.21%	0.17%	0.15%	0.20%	0.15%
1971M11	0.25%	0.15%		0.27%	0.23%	0.32%	0.14%			0.24%	0.56%	0.21%	0.16%	0.17%	0.18%	0.17%
1971M12	0.23%	0.14%		0.28%	0.25%	0.29%	0.14%			0.22%	0.57%	0.20%	0.14%	0.15%	0.16%	0.15%
1972M01	0.21%	0.15%		0.37%	0.35%	0.26%	0.18%			0.25%	0.63%	0.22%	0.16%	0.21%	0.20%	0.21%
1972M02	0.20%	0.14%		0.31%	0.30%	0.25%	0.19%			0.24%	0.58%	0.20%	0.15%	0.19%	0.18%	0.19%
1972M03	0.20%	0.15%		0.31%	0.29%	0.24%	0.18%			0.24%	0.53%	0.20%	0.16%	0.17%	0.18%	0.17%
1972M04	0.18%	0.13%		0.27%	0.27%	0.21%	0.16%			0.23%	0.48%	0.21%	0.14%	0.15%	0.16%	0.15%
1972M05	0.19%	0.12%		0.29%	0.26%	0.20%	0.15%			0.23%	0.47%	0.20%	0.20%	0.14%	0.16%	0.14%
1972M06	0.17%	0.13%		0.25%	0.25%	0.21%	0.16%			0.22%	0.43%	0.20%	0.17%	0.13%	0.15%	0.13%
1972M07	0.17%	0.16%		0.22%	0.23%	0.20%	0.15%			0.21%	0.43%	0.19%	0.15%	0.13%	0.14%	0.13%
1972M08	0.16%	0.15%		0.20%	0.22%	0.18%	0.15%			0.19%	0.39%	0.19%	0.15%	0.12%	0.13%	0.12%
1972M09	0.15%	0.13%		0.17%	0.22%	0.16%	0.14%			0.18%	0.36%	0.21%	0.19%	0.12%	0.15%	0.12%
1972M10	0.14%	0.13%		0.15%	0.21%	0.15%	0.13%			0.17%	0.33%	0.20%	0.17%	0.11%	0.13%	0.11%
1972M11	0.17%	0.12%		0.14%	0.22%	0.14%	0.14%			0.16%	0.34%	0.22%	0.22%	0.11%	0.16%	0.10%
1972M12	0.18%	0.14%		0.28%	0.32%	0.13%	0.19%			0.24%	0.37%	0.21%	0.21%	0.12%	0.17%	0.12%
1973M01	0.22%	0.16%	0.12%	0.32%	0.33%	0.13%	0.18%	0.23%		0.30%	0.41%	0.22%	0.19%	0.11%	0.16%	0.11%
1973M02	0.20%	0.15%	0.14%	0.28%	0.30%	0.12%	0.19%	0.22%		0.27%	0.37%	0.21%	0.24%	0.11%	0.18%	0.11%
1973M03	0.20%	0.15%	0.15%	0.24%	0.27%	0.12%	0.18%	0.22%		0.26%	0.35%	0.22%	0.23%	0.13%	0.17%	0.12%
1973M04	0.20%	0.14%	0.19%	0.21%	0.28%	0.13%	0.18%	0.22%		0.24%	0.32%	0.21%	0.20%	0.12%	0.16%	0.12%
1973M05	0.18%	0.14%	0.19%	0.20%	0.25%	0.13%	0.17%	0.22%		0.22%	0.30%	0.20%	0.18%	0.14%	0.15%	0.14%
1973M06	0.17%	0.13%	0.20%	0.19%	0.22%	0.14%	0.16%	0.21%		0.21%	0.27%	0.20%	0.16%	0.13%	0.13%	0.13%
1973M07	0.17%	0.12%	0.20%	0.17%	0.22%	0.14%	0.15%	0.21%		0.21%	0.25%	0.19%	0.14%	0.13%	0.13%	0.12%
1973M08	0.16%	0.12%	0.21%	0.17%	0.24%	0.13%	0.18%	0.22%		0.19%	0.23%	0.19%	0.14%	0.13%	0.13%	0.12%
1973M09	0.15%	0.15%	0.21%	0.16%	0.22%	0.14%	0.18%	0.22%		0.18%	0.22%	0.18%	0.18%	0.14%	0.13%	0.14%
1973M10	0.15%	0.18%	0.32%	0.15%	0.20%	0.14%	0.19%	0.21%		0.19%	0.20%	0.19%	0.18%	0.14%	0.17%	0.14%
1973M11	0.15%	0.20%	0.30%	0.19%	0.21%	0.13%	0.19%	0.21%		0.20%	0.24%	0.19%	0.30%	0.13%	0.18%	0.12%
1973M12	0.20%	0.19%	0.33%	0.42%	0.41%	0.27%	0.37%	0.70%		0.28%	0.30%	0.25%	0.38%	0.29%	0.33%	0.29%
1974M01	0.22%	0.17%	0.33%	0.36%	0.38%	0.31%	0.33%	0.42%		0.29%	0.28%	0.34%	0.45%	0.25%	0.30%	0.25%
1974M02	0.25%	0.18%	0.32%	0.36%	0.44%	0.39%	0.30%	0.26%		0.30%	0.28%	0.33%	0.37%	0.23%	0.28%	0.23%
1974M03	0.23%	0.18%	0.30%	0.31%	0.38%	0.36%	0.31%	0.22%		0.28%	0.26%	0.30%	0.32%	0.20%	0.25%	0.20%
1974M04	0.24%	0.17%	0.28%	0.36%	0.48%	0.38%	0.31%	0.24%		0.27%	0.24%	0.28%	0.26%	0.19%	0.25%	0.19%

1974M05	0.38%	0.28%	0.39%	0.81%	0.60%	4.10%	1.01%	0.25%		0.48%	0.27%	0.29%	0.39%	0.20%	0.43%	0.20%
1974M06	0.42%	0.25%	0.37%	0.95%	0.57%	4.56%	1.02%	0.24%		0.51%	0.29%	0.27%	0.50%	0.20%	0.43%	0.20%
1974M07	0.36%	0.29%	0.35%	2.01%	0.57%	4.69%	1.10%	0.29%		0.68%	0.33%	0.34%	0.55%	0.18%	0.43%	0.18%
1974M08	0.33%	0.26%	0.41%	1.83%	0.64%	4.92%	0.98%	0.21%		0.62%	0.43%	0.32%	0.54%	0.26%	0.39%	0.26%
1974M09	0.44%	0.24%	0.40%	1.58%	0.58%	4.79%	0.84%	0.22%		0.58%	0.73%	0.40%	0.72%	0.35%	0.45%	0.35%
1974M10	0.41%	0.25%	0.46%	1.31%	0.54%	4.42%	0.84%	0.26%		0.54%	0.69%	0.36%	0.68%	0.53%	0.41%	0.54%
1974M11	0.36%	0.24%	0.53%	1.18%	0.68%	3.82%	0.74%	0.49%		0.50%	0.66%	0.45%	0.56%	0.71%	0.48%	0.72%
1974M12	0.36%	0.23%	0.50%	1.05%	0.57%	3.37%	0.66%	0.23%		0.46%	0.64%	0.41%	0.47%	0.66%	0.43%	0.67%
1975M01	0.32%	0.22%	0.45%	0.87%	0.69%	2.91%	0.58%	0.37%		0.45%	0.74%	0.37%	0.44%	0.58%	0.38%	0.59%
1975M02	0.45%	0.53%	0.51%	4.10%	1.92%	4.57%	1.59%	0.24%		1.82%	1.12%	0.34%	1.82%	0.62%	0.67%	0.63%
1975M03	0.39%	0.56%	0.47%	3.38%	1.60%	4.00%	1.45%	0.23%		1.68%	1.02%	0.33%	1.41%	0.54%	0.59%	0.55%
1975M04	0.35%	0.50%	0.45%	2.82%	1.38%	3.44%	1.25%	0.30%		1.53%	0.94%	0.30%	1.10%	0.46%	0.53%	0.47%
1975M05	0.31%	0.46%	0.42%	2.54%	1.20%	2.98%	1.09%	0.27%		1.41%	0.86%	0.28%	0.86%	0.40%	0.48%	0.41%
1975M06	0.42%	0.41%	0.39%	2.26%	1.05%	2.65%	0.95%	0.24%		1.26%	0.81%	0.27%	0.68%	0.35%	0.48%	0.36%
1975M07	0.42%	0.48%	0.78%	2.06%	1.01%	2.52%	1.02%	0.59%		1.16%	1.09%	0.28%	1.01%	0.31%	0.51%	0.32%
1975M08	0.40%	0.47%	0.72%	1.73%	0.85%	2.37%	0.98%	0.29%		1.10%	0.99%	0.26%	0.89%	0.35%	0.50%	0.36%
1975M09	0.35%	0.43%	0.64%	1.51%	0.72%	2.09%	0.85%	0.24%		0.99%	0.90%	0.27%	0.82%	0.32%	0.45%	0.32%
1975M10	0.34%	0.40%	0.57%	1.27%	0.61%	1.85%	0.75%	0.23%		0.88%	0.81%	0.27%	0.65%	0.30%	0.40%	0.31%
1975M11	0.38%	0.37%	0.50%	1.09%	0.58%	1.62%	0.74%	0.22%		0.84%	0.83%	0.34%	0.64%	0.29%	0.39%	0.30%
1975M12	0.33%	0.35%	0.45%	0.92%	0.56%	1.41%	0.66%	0.24%		0.75%	0.76%	0.32%	0.51%	0.25%	0.35%	0.26%
1976M01	0.29%	0.34%	0.41%	0.76%	0.48%	1.33%	0.58%	0.21%		0.68%	0.69%	0.30%	0.42%	0.23%	0.31%	0.23%
1976M02	0.29%	0.31%	0.57%	0.88%	0.42%	1.47%	0.52%	0.27%		0.64%	0.65%	0.27%	0.35%	0.34%	0.34%	0.35%
1976M03	0.26%	0.28%	0.53%	0.78%	0.42%	1.32%	0.46%	0.21%		0.62%	0.64%	0.32%	0.48%	0.30%	0.33%	0.30%
1976M04	0.24%	0.25%	0.59%	0.67%	0.36%	1.16%	0.40%	0.23%		0.57%	0.58%	0.29%	0.44%	0.26%	0.29%	0.27%
1976M05	0.22%	0.25%	0.54%	0.56%	0.31%	1.01%	0.36%	0.22%		0.51%	0.52%	0.27%	0.47%	0.24%	0.26%	0.24%
1976M06	0.20%	0.23%	0.55%	0.48%	0.34%	0.88%	0.32%	0.21%		0.47%	0.49%	0.30%	0.40%	0.21%	0.24%	0.21%
1976M07	0.19%	0.24%	0.52%	0.41%	0.37%	0.78%	0.29%	0.23%		0.44%	0.45%	0.32%	0.32%	0.20%	0.22%	0.20%
1976M08	0.18%	0.23%	0.46%	0.37%	0.34%	0.68%	0.27%	0.22%		0.41%	0.42%	0.29%	0.35%	0.18%	0.20%	0.18%
1976M09	0.18%	0.22%	0.47%	0.32%	0.31%	0.61%	0.25%	0.22%		0.38%	0.38%	0.29%	0.32%	0.16%	0.19%	0.16%
1976M10	0.17%	0.20%	0.43%	0.27%	0.29%	0.54%	0.24%	0.22%		0.39%	0.35%	0.27%	0.27%	0.15%	0.18%	0.15%
1976M11	0.17%	0.18%	0.41%	0.24%	0.26%	0.49%	0.22%	0.22%		0.35%	0.32%	0.26%	0.23%	0.14%	0.16%	0.15%
1976M12	0.16%	0.18%	0.42%	0.20%	0.26%	0.44%	0.23%	0.26%		0.32%	0.29%	0.25%	0.19%	0.13%	0.15%	0.13%
1977M01	0.16%	0.23%	0.48%	0.20%	0.24%	0.44%	0.24%	0.21%		0.30%	0.29%	0.27%	0.18%	0.15%	0.17%	0.15%
1977M02	0.15%	0.23%	0.46%	0.18%	0.22%	0.47%	0.24%	0.25%		0.27%	0.27%	0.25%	0.16%	0.18%	0.15%	0.18%
1977M03	0.16%	0.27%	0.42%	0.27%	0.23%	0.41%	0.23%	0.22%		0.26%	0.26%	0.24%	0.22%	0.17%	0.16%	0.17%
1977M04	0.15%	0.25%	0.43%	0.24%	0.22%	0.37%	0.21%	0.22%		0.24%	0.24%	0.29%	0.19%	0.16%	0.14%	0.16%
1977M05	0.14%	0.22%	0.41%	0.28%	0.21%	0.33%	0.19%	0.22%		0.26%	0.23%	0.28%	0.17%	0.14%	0.13%	0.14%
1977M06	0.14%	0.21%	0.58%	0.24%	0.23%	0.29%	0.18%	0.21%		0.24%	0.21%	0.26%	0.15%	0.14%	0.12%	0.14%
1977M07	0.14%	0.19%	0.51%	0.25%	0.21%	0.37%	0.18%	0.21%		0.23%	0.22%	0.25%	0.17%	0.14%	0.13%	0.14%
1977M08	0.13%	0.18%	0.49%	0.22%	0.19%	0.35%	0.18%	0.21%		0.22%	0.20%	0.23%	0.15%	0.14%	0.12%	0.14%
1977M09	0.13%	0.19%	0.44%	0.19%	0.20%	0.34%	0.19%	0.21%		0.22%	0.19%	0.22%	0.14%	0.13%	0.13%	0.13%
1977M10	0.13%	0.17%	0.45%	0.17%	0.19%	0.30%	0.18%	0.21%		0.21%	0.20%	0.21%	0.13%	0.12%	0.12%	0.12%
1977M11	0.13%	0.16%	0.42%	0.17%	0.20%	0.27%	0.17%	0.21%		0.26%	0.19%	0.21%	0.23%	0.15%	0.13%	0.15%
1977M12	0.14%	0.14%	0.45%	0.15%	0.21%	0.32%	0.18%	0.21%		0.25%	0.18%	0.21%	0.20%	0.14%	0.13%	0.14%
1978M01	0.16%	0.14%	0.40%	0.14%	0.19%	0.28%	0.16%	0.22%		0.24%	0.17%	0.20%	0.18%	0.13%	0.12%	0.13%
1978M02	0.15%	0.13%	0.40%	0.13%	0.21%	0.36%	0.16%	0.26%		0.23%	0.16%	0.28%	0.32%	0.18%	0.15%	0.18%
1978M03	0.15%	0.13%	0.39%	0.15%	0.21%	0.32%	0.15%	0.22%		0.22%	0.16%	0.26%	0.26%	0.17%	0.14%	0.17%
1978M04	0.15%	0.12%	0.44%	0.19%	0.19%	0.28%	0.16%	0.22%		0.21%	0.15%	0.24%	0.26%	0.16%	0.13%	0.15%
1978M05	0.14%	0.12%	0.40%	0.25%	0.20%	0.25%	0.15%	0.22%		0.20%	0.14%	0.24%	0.23%	0.21%	0.12%	0.21%
1978M06	0.14%	0.12%	0.56%	0.22%	0.20%	0.24%	0.14%	0.21%		0.20%	0.14%	0.23%	0.23%	0.19%	0.11%	0.19%
1978M07	0.13%	0.11%	0.52%	0.22%	0.18%	0.22%	0.15%	0.23%		0.18%	0.13%	0.22%	0.20%	0.18%	0.10%	0.17%
1978M08	0.16%	0.10%	0.56%	0.21%	0.22%	0.20%	0.14%	0.23%		0.18%	0.12%	0.21%	0.17%	0.18%	0.10%	0.18%
1978M09	0.16%	0.12%	0.50%	0.19%	0.25%	0.18%	0.15%	0.21%		0.17%	0.12%	0.20%	0.15%	0.17%	0.09%	0.17%
1978M10	0.15%	0.12%	0.46%	0.17%	0.23%	0.18%	0.14%	0.23%		0.16%	0.13%	0.20%	0.17%	0.15%	0.09%	0.15%
1978M11	0.17%	0.18%	0.86%	0.29%	0.21%	0.24%	0.17%	0.23%		0.23%	0.15%	0.21%	0.22%	0.27%	0.15%	0.27%
1978M12	0.16%	0.16%	0.80%	0.27%	0.19%	0.23%	0.16%	0.22%		0.22%	0.14%	0.20%	0.19%	0.23%	0.14%	0.23%
1979M01	0.19%	0.15%	0.71%	0.24%	0.18%	0.20%	0.18%	0.22%		0.25%	0.19%	0.20%	0.17%	0.20%	0.13%	0.20%
1979M02	0.24%	0.17%	0.63%	0.26%	0.19%	0.24%	0.25%	0.22%		0.31%	0.25%	0.19%	0.16%	0.19%	0.16%	0.19%
1979M03	0.23%	0.15%	0.56%	0.27%	0.23%	0.22%	0.24%	0.22%		0.29%	0.25%	0.19%	0.15%	0.19%	0.16%	0.19%
1979M04	0.21%	0.14%	0.51%	0.23%	0.22%	0.20%	0.22%	0.21%		0.27%	0.23%	0.18%	0.15%	0.19%	0.14%	0.19%
1979M05	0.20%	0.13%	0.48%	0.41%	0.24%	0.24%	0.21%	0.25%		0.32%	0.22%	0.19%	0.27%	0.17%	0.14%	0.17%
1979M06	0.19%	0.12%	0.45%	0.38%	0.23%	0.22%	0.19%	0.22%		0.30%	0.23%	0.18%	0.23%	0.16%	0.13%	0.16%
1979M07	0.18%	0.11%	0.41%	0.37%	0.27%	0.24%	0.20%	0.22%		0.28%	0.23%	0.18%	0.24%	0.16%	0.13%	0.16%
1979M08	0.16%	0.10%	0.42%	0.32%	0.29%	0.21%	0.26%	0.21%		0.26%	0.21%	0.18%	0.20%	0.14%	0.12%	0.14%
1979M09	0.15%	0.10%	0.39%	0.27%	0.26%	0.21%	0.24%	0.22%		0.24%	0.20%	0.18%	0.18%	0.16%	0.11%	0.16%
1979M10	0.15%	0.10%	0.38%	0.24%	0.24%	0.19%	0.26%	0.24%		0.26%	0.20%	0.18%	0.19%	0.14%	0.11%	0.14%
1979M11	0.33%	0.17%	0.46%	0.36%	0.23%	0.22%	0.32%	0.40%		0.27%	0.19%	0.20%	0.29%	0.21%	0.14%	0.21%
1979M12	0.29%	0.16%	0.42%	0.32%	0.21%	0.32%	0.32%	0.24%		0.26%	0.17%	0.20%	0.28%	0.20%	0.16%	0.20%
1980M01	0.27%	0.21%	0.44%	0.39%	0.20%	0.28%	0.31%	0.22%		0.24%	0.18%	0.21%	0.26%	0.18%	0.14%	0.18%
1980M02	0.27%	0.21%	0.40%	0.34%	0.22%	0.29%	0.29%	0.24%		0.29%	0.17%	0.20%	0.38%	0.19%	0.13%	0.19%
1980M03	0.30%	0.19%	0.39%	0.36%	0.27%	0.33%	0.33%	0.22%		0.27%	0.16%	0.28%	0.39%	0.17%	0.14%	0.17%
1980M04	0.29%	0.21%	0.57%	0.34%	0.26%	0.29%	0.30%	0.27%		0.26%	0.19%	0.26%	0.32%	0.31%	0.17%	0.32%
1980M05	0.44%	0.22%	0.59%	0.66%	0.53%	0.46%	0.37%	0.83%		0.56%	0.44%	0.43%	0.79%	0.28%	0.27%	0.28%

1980M06	0.46%	0.20%	0.52%	0.56%	0.49%	0.42%	0.33%	0.18%		0.50%	0.41%	0.39%	0.62%	0.26%	0.25%	0.26%
1980M07	0.41%	0.22%	0.57%	0.51%	0.44%	0.38%	0.32%	0.22%		0.46%	0.41%	0.35%	0.52%	0.23%	0.22%	0.23%
1980M08	0.37%	0.19%	0.55%	0.52%	0.44%	0.35%	0.33%	0.29%		0.43%	0.41%	0.34%	0.43%	0.23%	0.20%	0.23%
1980M09	0.32%	0.22%	0.50%	0.52%	0.37%	0.32%	0.29%	0.23%		0.40%	0.39%	0.31%	0.38%	0.20%	0.19%	0.21%
1980M10	0.31%	0.22%	0.45%	0.44%	0.32%	0.29%	0.30%	0.22%		0.42%	0.36%	0.31%	0.31%	0.18%	0.18%	0.18%
1980M11	0.34%	0.22%	0.41%	0.42%	0.30%	0.27%	0.29%	0.21%		0.41%	0.33%	0.29%	0.41%	0.16%	0.16%	0.16%
1980M12	0.30%	0.30%	0.38%	0.39%	0.31%	0.27%	0.26%	0.27%		0.37%	0.36%	0.28%	0.36%	0.26%	0.16%	0.26%
1981M01	0.26%	0.27%	0.35%	0.33%	0.46%	0.42%	0.23%	0.32%		0.34%	0.40%	0.26%	0.30%	0.26%	0.15%	0.26%
1981M02	0.24%	0.29%	0.37%	0.31%	0.45%	0.38%	0.26%	0.23%		0.39%	0.37%	0.24%	0.28%	0.27%	0.15%	0.27%
1981M03	0.22%	0.28%	0.35%	0.27%	0.40%	0.35%	0.24%	0.21%		0.37%	0.34%	0.23%	0.27%	0.24%	0.15%	0.24%
1981M04	0.20%	0.25%	0.33%	0.23%	0.44%	0.55%	0.22%	0.22%		0.33%	0.32%	0.23%	0.25%	0.21%	0.14%	0.21%
1981M05	0.20%	0.23%	0.31%	0.22%	0.38%	0.50%	0.20%	0.34%		0.31%	0.30%	0.22%	0.31%	0.20%	0.14%	0.21%
1981M06	0.21%	0.22%	0.31%	0.20%	0.33%	0.44%	0.18%	0.21%		0.28%	0.28%	0.22%	0.26%	0.18%	0.12%	0.18%
1981M07	0.19%	0.27%	0.31%	0.18%	0.32%	0.39%	0.17%	0.31%		0.26%	0.26%	0.22%	0.30%	0.17%	0.12%	0.17%
1981M08	0.19%	0.24%	0.29%	0.18%	0.31%	0.34%	0.16%	0.21%		0.25%	0.24%	0.21%	0.31%	0.15%	0.11%	0.15%
1981M09	0.18%	0.24%	0.30%	0.18%	0.27%	0.30%	0.15%	0.22%		0.23%	0.22%	0.20%	0.27%	0.20%	0.10%	0.21%
1981M10	0.17%	0.21%	0.31%	0.18%	0.25%	0.28%	0.18%	0.22%		0.26%	0.22%	0.19%	0.35%	0.24%	0.13%	0.24%
1981M11	0.16%	0.19%	0.29%	0.16%	0.27%	0.37%	0.17%	0.25%		0.31%	0.22%	0.19%	0.43%	0.22%	0.14%	0.23%
1981M12	0.20%	0.25%	0.28%	0.18%	0.26%	0.33%	0.22%	0.27%		0.29%	0.27%	0.20%	0.35%	0.20%	0.14%	0.21%
1982M01	0.19%	0.25%	0.29%	0.18%	0.30%	0.30%	0.20%	0.25%		0.32%	0.31%	0.19%	0.38%	0.20%	0.15%	0.21%
1982M02	0.17%	0.23%	0.27%	0.16%	0.29%	0.28%	0.19%	0.23%		0.32%	0.29%	0.19%	0.34%	0.19%	0.14%	0.20%
1982M03	0.18%	0.21%	0.26%	0.16%	0.26%	0.25%	0.18%	0.22%		0.29%	0.27%	0.21%	0.28%	0.23%	0.13%	0.24%
1982M04	0.17%	0.25%	0.29%	0.14%	0.23%	0.23%	0.26%	0.22%		0.27%	0.29%	0.20%	0.24%	0.21%	0.12%	0.21%
1982M05	0.20%	0.28%	0.35%	0.13%	0.22%	0.22%	0.23%	0.21%		0.28%	0.26%	0.20%	0.20%	0.19%	0.13%	0.20%
1982M06	0.19%	0.25%	0.33%	0.12%	0.22%	0.20%	0.21%	0.24%		0.28%	0.26%	0.19%	0.18%	0.19%	0.13%	0.20%
1982M07	0.18%	0.28%	0.31%	0.16%	0.22%	0.20%	0.22%	0.22%		0.26%	0.24%	0.19%	0.18%	0.19%	0.13%	0.19%
1982M08	0.17%	0.25%	0.29%	0.15%	0.21%	0.21%	0.21%	0.26%		0.24%	0.24%	0.19%	0.16%	0.19%	0.13%	0.19%
1982M09	0.26%	0.33%	0.27%	0.25%	0.27%	0.37%	0.31%	0.29%		0.32%	0.34%	0.20%	0.34%	0.32%	0.24%	0.32%
1982M10	0.23%	0.30%	0.27%	0.22%	0.32%	0.33%	0.28%	0.30%		0.30%	0.31%	0.20%	0.28%	0.27%	0.21%	0.28%
1982M11	0.25%	0.27%	0.27%	0.22%	0.29%	0.35%	0.29%	0.24%		0.29%	0.30%	0.20%	0.24%	0.35%	0.22%	0.36%
1982M12	0.23%	0.25%	0.30%	0.19%	0.25%	0.32%	0.27%	0.21%		0.29%	0.27%	0.30%	0.22%	0.31%	0.20%	0.31%
1983M01	0.21%	0.23%	0.35%	0.18%	0.33%	0.44%	0.25%	0.23%		0.32%	0.25%	0.31%	0.21%	0.27%	0.18%	0.27%
1983M02	0.21%	0.22%	0.33%	0.19%	0.29%	0.39%	0.23%	0.22%		0.30%	0.23%	0.28%	0.18%	0.23%	0.17%	0.24%
1983M03	0.19%	0.20%	0.44%	0.17%	0.26%	0.38%	0.21%	0.21%		0.27%	0.21%	0.26%	0.19%	0.21%	0.16%	0.21%
1983M04	0.20%	0.18%	0.41%	0.16%	0.24%	0.35%	0.21%	0.24%		0.29%	0.21%	0.24%	0.18%	0.19%	0.14%	0.19%
1983M05	0.23%	0.17%	0.42%	0.14%	0.22%	0.32%	0.21%	0.23%		0.28%	0.21%	0.23%	0.20%	0.21%	0.15%	0.21%
1983M06	0.22%	0.18%	0.39%	0.13%	0.20%	0.29%	0.20%	0.21%		0.25%	0.20%	0.23%	0.18%	0.19%	0.14%	0.19%
1983M07	0.31%	0.20%	0.41%	0.16%	0.19%	0.26%	0.22%	0.22%		0.28%	0.18%	0.22%	0.16%	0.18%	0.13%	0.18%
1983M08	0.30%	0.19%	0.52%	0.20%	0.18%	0.23%	0.21%	0.23%		0.28%	0.18%	0.22%	0.14%	0.18%	0.12%	0.19%
1983M09	0.27%	0.17%	0.52%	0.17%	0.17%	0.23%	0.20%	0.29%		0.26%	0.18%	0.21%	0.13%	0.16%	0.11%	0.16%
1983M10	0.25%	0.16%	0.50%	0.21%	0.24%	0.28%	0.30%	0.27%		0.24%	0.21%	0.23%	0.22%	0.15%	0.12%	0.15%
1983M11	0.25%	0.18%	0.45%	0.18%	0.27%	0.34%	0.27%	0.27%		0.26%	0.20%	0.26%	0.25%	0.14%	0.12%	0.14%
1983M12	0.26%	0.24%	0.41%	0.80%	0.24%	0.33%	0.25%	0.23%		0.24%	0.19%	0.24%	0.25%	0.13%	0.13%	0.13%
1984M01	0.38%	0.21%	0.41%	0.91%	0.22%	0.29%	0.26%	0.26%		0.34%	0.19%	0.24%	0.21%	0.12%	0.13%	0.12%
1984M02	0.33%	0.19%	0.38%	0.88%	0.21%	0.26%	0.26%	0.21%		0.31%	0.18%	0.23%	0.21%	0.12%	0.13%	0.12%
1984M03	0.30%	0.19%	0.35%	0.78%	0.27%	0.32%	0.30%	0.22%		0.37%	0.21%	0.24%	0.21%	0.14%	0.15%	0.14%
1984M04	0.27%	0.20%	0.40%	1.52%	0.26%	0.30%	0.27%	0.25%		0.35%	0.19%	0.23%	0.19%	0.12%	0.14%	0.12%
1984M05	0.27%	0.29%	0.39%	2.25%	0.25%	0.27%	0.30%	0.21%		0.36%	0.18%	0.21%	0.17%	0.12%	0.13%	0.11%
1984M06	0.24%	0.27%	0.37%	1.89%	0.22%	0.24%	0.27%	0.21%		0.35%	0.19%	0.20%	0.15%	0.16%	0.13%	0.17%
1984M07	0.23%	0.24%	0.34%	2.99%	0.23%	0.22%	0.24%	0.23%		0.31%	0.17%	0.20%	0.14%	0.15%	0.12%	0.15%
1984M08	0.21%	0.23%	0.32%	3.88%	0.22%	0.22%	0.22%	0.21%		0.31%	0.17%	0.19%	0.13%	0.15%	0.12%	0.15%
1984M09	0.23%	0.21%	0.30%	3.31%	0.21%	0.20%	0.23%	0.22%		0.29%	0.20%	0.19%	0.20%	0.25%	0.14%	0.25%
1984M10	0.21%	0.25%	0.28%	3.16%	0.22%	0.20%	0.30%	0.34%		0.29%	0.21%	0.20%	0.19%	0.22%	0.13%	0.22%
1984M11	0.19%	0.23%	0.29%	2.83%	0.20%	0.18%	0.28%	0.21%		0.27%	0.21%	0.20%	0.17%	0.20%	0.12%	0.20%
1984M12	0.34%	0.21%	0.30%	2.35%	0.19%	0.16%	0.25%	0.22%		0.25%	0.19%	0.19%	0.15%	0.18%	0.12%	0.18%
1985M01	0.31%	0.19%	0.30%	2.11%	0.17%	0.22%	0.23%	0.21%		0.23%	0.18%	0.18%	0.14%	0.16%	0.11%	0.16%
1985M02	0.27%	0.24%	0.28%	3.62%	0.16%	0.21%	0.21%	0.22%		0.23%	0.18%	0.18%	0.14%	0.20%	0.10%	0.20%
1985M03	0.26%	0.22%	0.28%	3.26%	0.17%	0.20%	0.20%	0.21%		0.21%	0.16%	0.17%	0.15%	0.17%	0.10%	0.17%
1985M04	0.26%	0.21%	0.27%	2.80%	0.22%	0.20%	0.18%	0.23%		0.21%	0.20%	0.17%	0.16%	0.16%	0.09%	0.16%
1985M05	0.24%	0.19%	0.26%	2.46%	0.20%	0.18%	0.18%	0.24%		0.20%	0.18%	0.18%	0.16%	0.15%	0.09%	0.14%
1985M06	0.24%	0.29%	0.37%	2.03%	0.19%	0.26%	0.21%	0.35%		0.26%	0.19%	0.21%	0.16%	0.16%	0.11%	0.16%
1985M07	0.23%	0.30%	0.35%	1.92%	0.19%	0.25%	0.20%	0.21%		0.24%	0.21%	0.20%	0.17%	0.14%	0.10%	0.14%
1985M08	0.24%	0.31%	0.33%	1.71%	0.25%	0.35%	0.18%	0.33%		0.25%	0.21%	0.24%	0.21%	0.13%	0.13%	0.13%
1985M09	0.23%	0.29%	0.32%	1.50%	0.22%	0.32%	0.17%	0.28%		0.24%	0.20%	0.23%	0.18%	0.13%	0.12%	0.13%
1985M10	0.35%	0.27%	0.31%	1.47%	0.23%	0.31%	0.38%	0.24%		0.37%	0.22%	0.22%	0.19%	0.14%	0.15%	0.14%
1985M11	0.52%	0.26%	0.30%	1.23%	0.31%	0.31%	0.50%	0.21%		0.37%	0.24%	0.22%	0.19%	0.14%	0.16%	0.14%
1985M12	0.45%	0.24%	0.31%	1.16%	0.27%	0.28%	0.46%	0.31%		0.37%	0.24%	0.22%	0.18%	0.17%	0.17%	0.17%
1986M01	0.43%	0.30%	0.46%	1.15%	0.25%	0.31%	0.40%	0.21%		0.35%	0.22%	0.21%	0.23%	0.17%	0.19%	0.17%
1986M02	0.38%	0.27%	0.44%	3.30%	0.29%	0.28%	0.44%	0.21%		0.33%	0.21%	0.22%	0.20%	0.15%	0.17%	0.15%
1986M03	0.41%	0.33%	0.59%	2.87%	0.27%	0.26%	0.44%	0.31%		0.44%	0.21%	0.24%	0.29%	0.19%	0.18%	0.19%
1986M04	0.36%	0.30%	0.57%	2.51%	0.26%	0.24%	0.40%	0.21%		0.40%	0.21%	0.23%	0.24%	0.19%	0.18%	0.19%
1986M05	0.39%	0.27%	0.51%	2.39%	0.26%	0.22%	0.47%	0.22%		0.44%	0.24%	0.22%	0.21%	0.18%	0.18%	0.18%
1986M06	0.37%	0.26%	0.48%	2.07%	0.26%	0.21%	0.41%	0.42%		0.41%	0.23%	0.21%	0.18%	0.18%	0.18%	0.18%

1986M07	0.32%	0.25%	0.43%	1.80%	0.27%	0.19%	0.42%	0.20%		0.38%	0.25%	0.25%	0.35%	0.16%	0.19%	0.16%
1986M08	0.41%	0.23%	0.47%	1.51%	0.28%	0.34%	0.53%	0.26%		0.49%	0.25%	0.25%	0.36%	0.20%	0.18%	0.20%
1986M09	0.42%	0.24%	0.43%	1.26%	0.27%	0.34%	0.56%	0.25%		0.46%	0.31%	0.24%	0.31%	0.23%	0.22%	0.23%
1986M10	0.47%	0.36%	0.48%	1.05%	0.38%	0.60%	0.59%	0.38%		0.54%	0.41%	0.26%	0.55%	0.32%	0.37%	0.32%
1986M11	0.41%	0.33%	0.44%	1.20%	0.37%	0.53%	0.53%	0.28%		0.50%	0.42%	0.24%	0.44%	0.29%	0.34%	0.29%
1986M12	0.37%	0.30%	0.48%	1.01%	0.32%	0.51%	0.47%	0.22%		0.45%	0.39%	0.23%	0.35%	0.25%	0.30%	0.25%
1987M01	0.36%	0.35%	0.45%	0.88%	0.36%	0.49%	0.46%	0.36%		0.43%	0.37%	0.26%	0.33%	0.24%	0.28%	0.24%
1987M02	0.38%	0.53%	0.46%	0.87%	0.45%	0.44%	0.55%	0.21%		0.41%	0.44%	0.25%	0.37%	0.40%	0.33%	0.40%
1987M03	0.43%	0.48%	0.44%	0.73%	0.43%	0.47%	0.56%	0.22%		0.39%	0.41%	0.29%	0.55%	0.34%	0.32%	0.35%
1987M04	0.38%	0.43%	0.41%	0.62%	0.39%	0.46%	0.49%	0.23%		0.38%	0.39%	0.27%	0.46%	0.30%	0.29%	0.30%
1987M05	0.42%	0.49%	0.47%	0.52%	0.37%	0.41%	0.53%	0.25%		0.36%	0.41%	0.26%	0.39%	0.26%	0.29%	0.27%
1987M06	0.47%	0.46%	0.47%	0.44%	0.32%	0.37%	0.48%	0.21%		0.33%	0.40%	0.24%	0.33%	0.23%	0.26%	0.23%
1987M07	0.41%	0.45%	0.47%	0.39%	0.28%	0.35%	0.42%	0.23%		0.30%	0.38%	0.23%	0.27%	0.22%	0.24%	0.22%
1987M08	0.39%	0.41%	0.42%	0.53%	0.26%	0.35%	0.39%	0.21%		0.30%	0.37%	0.22%	0.23%	0.21%	0.22%	0.21%
1987M09	0.37%	0.40%	0.43%	0.45%	0.27%	0.32%	0.34%	0.29%		0.28%	0.33%	0.21%	0.21%	0.19%	0.21%	0.19%
1987M10	0.33%	0.41%	0.42%	0.55%	0.24%	0.29%	0.31%	0.26%		0.27%	0.32%	0.20%	0.21%	0.18%	0.19%	0.18%
1987M11	0.32%	0.48%	0.41%	0.74%	0.24%	0.27%	0.32%	0.23%		0.28%	0.30%	0.20%	0.20%	0.83%	0.25%	0.84%
1987M12	0.30%	0.45%	0.43%	0.76%	0.34%	0.24%	0.30%	0.22%		0.26%	0.28%	0.24%	0.19%	0.86%	0.27%	0.87%
1988M01	0.26%	0.40%	0.46%	0.63%	0.30%	0.22%	0.27%	0.24%		0.25%	0.26%	0.22%	0.16%	0.74%	0.24%	0.75%
1988M02	0.28%	0.55%	0.42%	0.65%	0.47%	0.39%	0.30%	0.21%		0.34%	0.31%	0.33%	0.23%	0.62%	0.33%	0.63%
1988M03	0.25%	0.49%	0.39%	0.74%	0.44%	0.36%	0.33%	0.22%		0.40%	0.31%	0.31%	0.22%	0.53%	0.30%	0.54%
1988M04	0.24%	0.56%	0.38%	0.63%	0.42%	0.37%	0.31%	0.22%		0.39%	0.29%	0.29%	0.21%	0.48%	0.32%	0.49%
1988M05	0.24%	0.53%	0.36%	0.60%	0.37%	0.33%	0.29%	0.21%		0.37%	0.27%	0.27%	0.18%	0.41%	0.28%	0.42%
1988M06	0.25%	0.48%	0.33%	0.50%	0.33%	0.30%	0.26%	0.21%		0.34%	0.28%	0.26%	0.17%	0.35%	0.26%	0.36%
1988M07	0.22%	0.44%	0.34%	0.85%	0.29%	0.27%	0.24%	0.22%		0.32%	0.26%	0.24%	0.15%	0.31%	0.24%	0.32%
1988M08	0.21%	0.40%	0.32%	0.82%	0.26%	0.24%	0.26%	0.21%		0.32%	0.24%	0.23%	0.14%	0.27%	0.21%	0.28%
1988M09	0.19%	0.36%	0.30%	0.68%	0.25%	0.23%	0.23%	0.21%		0.30%	0.25%	0.22%	0.13%	0.27%	0.20%	0.27%
1988M10	0.19%	0.34%	0.29%	0.63%	0.23%	0.22%	0.25%	0.22%		0.31%	0.23%	0.21%	0.15%	0.24%	0.19%	0.25%
1988M11	0.18%	0.30%	0.27%	0.64%	0.22%	0.20%	0.24%	0.21%		0.28%	0.22%	0.21%	0.15%	0.21%	0.17%	0.22%
1988M12	0.17%	0.28%	0.28%	0.60%	0.21%	0.18%	0.22%	0.23%		0.26%	0.21%	0.20%	0.16%	0.20%	0.16%	0.20%
1989M01	0.16%	0.25%	0.28%	0.50%	0.19%	0.17%	0.23%	0.21%		0.24%	0.20%	0.19%	0.14%	0.17%	0.14%	0.18%
1989M02	0.15%	0.23%	0.29%	0.44%	0.18%	0.16%	0.21%	0.21%		0.22%	0.21%	0.19%	0.13%	0.20%	0.15%	0.20%
1989M03	0.15%	0.22%	0.28%	0.38%	0.21%	0.17%	0.22%	0.23%		0.23%	0.19%	0.19%	0.17%	0.19%	0.15%	0.20%
1989M04	0.15%	0.19%	0.27%	0.35%	0.19%	0.15%	0.22%	0.42%		0.22%	0.18%	0.19%	0.16%	0.17%	0.14%	0.17%
1989M05	0.14%	0.19%	0.26%	0.53%	0.18%	0.15%	0.20%	0.20%		0.21%	0.17%	0.20%	0.23%	0.17%	0.16%	0.17%
1989M06	0.15%	0.22%	0.25%	0.45%	0.20%	0.17%	0.22%	0.26%		0.21%	0.22%	0.21%	0.22%	0.16%	0.17%	0.16%
1989M07	0.16%	0.20%	0.31%	0.43%	0.19%	0.16%	0.20%	0.27%		0.21%	0.21%	0.20%	0.19%	0.15%	0.15%	0.15%
1989M08	0.16%	0.18%	0.29%	0.59%	0.21%	0.17%	0.23%	0.21%		0.21%	0.23%	0.20%	0.18%	0.21%	0.19%	0.21%
1989M09	0.15%	0.17%	0.29%	0.53%	0.20%	0.18%	0.22%	0.21%		0.21%	0.21%	0.20%	0.17%	0.19%	0.17%	0.19%
1989M10	0.15%	0.16%	0.28%	0.45%	0.19%	0.18%	0.21%	0.22%		0.20%	0.20%	0.19%	0.15%	0.17%	0.16%	0.17%
1989M11	0.14%	0.16%	0.29%	0.41%	0.17%	0.16%	0.19%	0.23%		0.18%	0.18%	0.18%	0.14%	0.17%	0.14%	0.17%
1989M12	0.13%	0.14%	0.28%	0.35%	0.17%	0.22%	0.18%	0.21%		0.17%	0.18%	0.18%	0.14%	0.15%	0.13%	0.15%
1990M01	0.15%	0.15%	0.28%	0.44%	0.18%	0.25%	0.18%	0.22%		0.18%	0.17%	0.20%	0.17%	0.14%	0.17%	0.14%
1990M02	0.19%	0.18%	0.32%	0.63%	0.20%	0.30%	0.19%	0.39%		0.23%	0.20%	0.23%	0.24%	0.21%	0.24%	0.20%
1990M03	0.17%	0.16%	0.30%	0.55%	0.19%	0.27%	0.18%	0.27%		0.21%	0.20%	0.22%	0.22%	0.18%	0.22%	0.18%
1990M04	0.16%	0.16%	0.29%	0.49%	0.18%	0.25%	0.17%	0.23%		0.21%	0.18%	0.22%	0.19%	0.16%	0.20%	0.16%
1990M05	0.21%	0.14%	0.29%	0.61%	0.19%	0.35%	0.19%	0.24%		0.25%	0.23%	0.23%	0.26%	0.16%	0.20%	0.16%
1990M06	0.21%	0.14%	0.27%	0.52%	0.20%	0.31%	0.18%	0.22%		0.28%	0.23%	0.22%	0.27%	0.24%	0.22%	0.24%
1990M07	0.19%	0.15%	0.26%	0.53%	0.19%	0.28%	0.17%	0.21%		0.26%	0.21%	0.21%	0.23%	0.21%	0.21%	0.21%
1990M08	0.17%	0.15%	0.26%	0.46%	0.18%	0.28%	0.15%	0.21%		0.25%	0.20%	0.20%	0.19%	0.19%	0.19%	0.19%
1990M09	0.18%	0.15%	0.27%	0.51%	0.19%	0.45%	0.18%	0.24%		0.29%	0.26%	0.21%	0.67%	0.31%	0.26%	0.31%
1990M10	0.17%	0.15%	0.31%	0.46%	0.17%	0.42%	0.17%	0.21%		0.27%	0.24%	0.20%	0.53%	0.32%	0.24%	0.32%
1990M11	0.29%	0.22%	0.29%	0.52%	0.38%	0.50%	0.20%	0.21%		0.37%	0.33%	0.22%	0.48%	0.28%	0.24%	0.28%
1990M12	0.26%	0.20%	0.37%	0.44%	0.34%	0.44%	0.19%	0.22%		0.34%	0.31%	0.22%	0.38%	0.27%	0.22%	0.27%
1991M01	0.24%	0.18%	0.37%	0.38%	0.30%	0.39%	0.17%	0.21%		0.31%	0.29%	0.21%	0.32%	0.24%	0.19%	0.24%
1991M02	0.22%	0.17%	0.34%	0.35%	0.42%	0.35%	0.16%	0.21%		0.29%	0.29%	0.20%	0.28%	0.22%	0.19%	0.22%
1991M03	0.21%	0.17%	0.36%	0.34%	0.37%	0.32%	0.16%	0.35%		0.29%	0.30%	0.20%	0.24%	0.23%	0.18%	0.24%
1991M04	0.19%	0.16%	0.35%	0.32%	0.32%	0.33%	0.15%	0.22%		0.26%	0.28%	0.20%	0.21%	0.21%	0.16%	0.21%
1991M05	0.18%	0.15%	0.37%	0.39%	0.31%	0.34%	0.14%	0.21%		0.25%	0.26%	0.21%	0.23%	0.18%	0.15%	0.18%
1991M06	0.16%	0.14%	0.39%	0.39%	0.27%	0.30%	0.14%	0.21%		0.23%	0.24%	0.20%	0.19%	0.17%	0.15%	0.17%
1991M07	0.16%	0.13%	0.37%	0.38%	0.24%	0.26%	0.13%	0.21%		0.22%	0.22%	0.20%	0.17%	0.20%	0.14%	0.20%
1991M08	0.16%	0.13%	0.37%	0.72%	0.25%	0.24%	0.14%	0.22%		0.22%	0.21%	0.20%	0.18%	0.19%	0.13%	0.19%
1991M09	0.15%	0.15%	0.39%	0.66%	0.23%	0.22%	0.13%	0.22%		0.21%	0.19%	0.19%	0.18%	0.17%	0.12%	0.17%
1991M10	0.20%	0.14%	0.37%	0.74%	0.26%	0.20%	0.13%	0.21%		0.20%	0.26%	0.19%	0.19%	0.16%	0.11%	0.16%
1991M11	0.18%	0.13%	0.41%	0.74%	0.26%	0.18%	0.13%	0.32%		0.18%	0.24%	0.19%	0.17%	0.14%	0.11%	0.14%
1991M12	0.18%	0.13%	0.46%	0.62%	0.23%	0.17%	0.12%	0.21%		0.17%	0.23%	0.18%	0.16%	0.16%	0.10%	0.16%
1992M01	0.22%	0.12%	0.45%	0.52%	0.36%	0.26%	0.13%	0.25%		0.18%	0.28%	0.19%	0.18%	0.28%	0.14%	0.28%
1992M02	0.30%	0.11%	0.44%	0.49%	0.39%	0.24%	0.12%	0.23%		0.23%	0.28%	0.20%	0.23%	0.26%	0.17%	0.26%
1992M03	0.29%	0.11%	0.44%	0.44%	0.34%	0.31%	0.12%	0.21%		0.21%	0.28%	0.19%	0.20%	0.22%	0.17%	0.23%
1992M04	0.26%	0.11%	0.43%	0.53%	0.30%	0.29%	0.12%	0.21%		0.20%	0.26%	0.18%	0.20%	0.21%	0.16%	0.21%
1992M05	0.23%	0.10%	0.48%	1.96%	0.29%	0.26%	0.11%	0.21%		0.20%	0.25%	0.19%	0.20%	0.19%	0.17%	0.19%
1992M06	0.25%	0.10%	0.44%	1.63%	0.26%	0.24%	0.11%	0.23%		0.22%	0.23%	0.18%	0.17%	0.17%	0.16%	0.17%
1992M07	0.22%	0.09%	0.45%	1.37%	0.23%	0.22%	0.11%	0.22%		0.20%	0.22%	0.18%	0.15%	0.16%	0.14%	0.16%

1992M08	0.22%	0.12%	0.41%	1.14%	0.23%	0.35%	0.20%	0.28%		0.19%	0.29%	0.18%	0.19%	0.15%	0.18%	0.15%
1992M09	0.20%	0.12%	0.38%	1.00%	0.21%	0.31%	0.18%	0.21%		0.18%	0.27%	0.18%	0.17%	0.15%	0.17%	0.15%
1992M10	0.18%	0.11%	0.35%	0.90%	0.19%	0.27%	0.17%	0.21%		0.17%	0.25%	0.18%	0.15%	0.14%	0.15%	0.13%
1992M11	0.17%	0.10%	0.38%	0.75%	0.18%	0.25%	0.17%	0.22%		0.16%	0.23%	0.19%	0.14%	0.12%	0.14%	0.12%
1992M12	0.16%	0.09%	0.40%	0.64%	0.17%	0.22%	0.16%	0.28%		0.16%	0.22%	0.18%	0.13%	0.12%	0.13%	0.12%
1993M01	0.16%	0.09%	0.44%	0.54%	0.16%	0.21%	0.15%	0.22%		0.18%	0.24%	0.18%	0.12%	0.11%	0.13%	0.11%
1993M02	0.15%	0.10%	0.41%	0.49%	0.15%	0.19%	0.15%	0.22%		0.17%	0.22%	0.18%	0.11%	0.10%	0.12%	0.10%
1993M03	0.17%	0.13%	0.39%	0.44%	0.17%	0.21%	0.14%	0.23%		0.17%	0.24%	0.20%	0.16%	0.10%	0.15%	0.10%
1993M04	0.17%	0.12%	0.36%	0.42%	0.16%	0.19%	0.14%	0.22%		0.16%	0.22%	0.19%	0.14%	0.09%	0.14%	0.09%
1993M05	0.16%	0.11%	0.35%	0.55%	0.15%	0.18%	0.13%	0.22%		0.15%	0.20%	0.19%	0.14%	0.10%	0.13%	0.10%
1993M06	0.16%	0.11%	0.33%	0.52%	0.14%	0.17%	0.13%	0.22%		0.15%	0.21%	0.18%	0.15%	0.10%	0.12%	0.10%
1993M07	0.15%	0.10%	0.31%	0.46%	0.14%	0.17%	0.13%	0.23%		0.15%	0.20%	0.18%	0.15%	0.10%	0.13%	0.09%
1993M08	0.14%	0.09%	0.29%	0.43%	0.18%	0.16%	0.12%	0.24%		0.14%	0.18%	0.18%	0.13%	0.09%	0.12%	0.09%
1993M09	0.16%	0.09%	0.30%	0.37%	0.16%	0.15%	0.12%	0.21%		0.13%	0.21%	0.18%	0.13%	0.10%	0.13%	0.10%
1993M10	0.15%	0.08%	0.29%	0.34%	0.16%	0.14%	0.14%	0.21%		0.13%	0.19%	0.18%	0.12%	0.10%	0.12%	0.09%
1993M11	0.17%	0.09%	0.32%	0.29%	0.15%	0.16%	0.13%	0.23%		0.15%	0.18%	0.17%	0.16%	0.09%	0.11%	0.09%
1993M12	0.23%	0.12%	0.33%	0.29%	0.16%	0.27%	0.22%	0.22%		0.16%	0.18%	0.19%	0.19%	0.09%	0.14%	0.09%
1994M01	0.21%	0.11%	0.31%	0.26%	0.15%	0.25%	0.20%	0.22%		0.15%	0.17%	0.18%	0.18%	0.09%	0.13%	0.09%
1994M02	0.20%	0.11%	0.30%	0.26%	0.15%	0.24%	0.22%	0.22%		0.14%	0.16%	0.19%	0.16%	0.09%	0.12%	0.09%
1994M03	0.21%	0.13%	0.29%	0.29%	0.21%	0.24%	0.24%	0.28%		0.16%	0.17%	0.20%	0.21%	0.10%	0.15%	0.10%
1994M04	0.21%	0.12%	0.28%	0.26%	0.26%	0.23%	0.22%	0.23%		0.20%	0.22%	0.19%	0.18%	0.13%	0.16%	0.13%
1994M05	0.19%	0.12%	0.28%	0.23%	0.23%	0.23%	0.22%	0.21%		0.18%	0.22%	0.19%	0.18%	0.12%	0.14%	0.12%
1994M06	0.20%	0.24%	0.28%	0.20%	0.21%	0.31%	0.27%	0.21%		0.19%	0.23%	0.19%	0.18%	0.11%	0.14%	0.11%
1994M07	0.21%	0.33%	0.42%	0.30%	0.20%	0.31%	0.27%	0.22%		0.20%	0.21%	0.21%	0.16%	0.12%	0.13%	0.12%
1994M08	0.26%	0.34%	0.45%	0.32%	0.22%	0.35%	0.29%	0.24%		0.21%	0.21%	0.23%	0.18%	0.12%	0.13%	0.12%
1994M09	0.24%	0.31%	0.42%	0.28%	0.21%	0.34%	0.26%	0.25%		0.20%	0.21%	0.22%	0.16%	0.12%	0.12%	0.12%
1994M10	0.22%	0.32%	0.41%	0.27%	0.19%	0.42%	0.28%	0.23%		0.20%	0.19%	0.21%	0.15%	0.13%	0.12%	0.12%
1994M11	0.20%	0.28%	0.38%	0.27%	0.17%	0.38%	0.27%	0.22%		0.19%	0.21%	0.21%	0.16%	0.12%	0.11%	0.12%
1994M12	0.18%	0.26%	0.36%	0.25%	0.17%	0.36%	0.29%	0.21%		0.18%	0.22%	0.20%	0.14%	0.14%	0.11%	0.14%
1995M01	0.17%	0.25%	0.39%	0.22%	0.23%	0.32%	0.26%	0.21%		0.17%	0.22%	0.19%	0.14%	0.12%	0.10%	0.12%
1995M02	0.17%	0.35%	0.36%	0.20%	0.23%	0.38%	0.33%	0.24%		0.20%	0.23%	0.21%	0.15%	0.12%	0.14%	0.12%
1995M03	0.16%	0.31%	0.38%	0.18%	0.22%	0.34%	0.31%	0.22%		0.19%	0.21%	0.20%	0.15%	0.12%	0.13%	0.12%
1995M04	0.19%	0.28%	0.38%	0.18%	0.21%	0.31%	0.34%	0.21%		0.20%	0.20%	0.20%	0.16%	0.12%	0.12%	0.11%
1995M05	0.17%	0.26%	0.36%	0.16%	0.20%	0.27%	0.30%	0.24%		0.19%	0.19%	0.19%	0.14%	0.11%	0.12%	0.11%
1995M06	0.19%	0.23%	0.33%	0.17%	0.23%	0.34%	0.39%	0.22%		0.22%	0.21%	0.20%	0.19%	0.11%	0.12%	0.11%
1995M07	0.17%	0.22%	0.32%	0.15%	0.21%	0.31%	0.40%	0.21%		0.23%	0.19%	0.20%	0.19%	0.11%	0.11%	0.11%
1995M08	0.19%	0.22%	0.46%	0.14%	0.19%	0.28%	0.36%	0.24%		0.22%	0.18%	0.19%	0.18%	0.11%	0.10%	0.11%
1995M09	0.18%	0.20%	0.42%	0.13%	0.18%	0.25%	0.32%	0.21%		0.20%	0.18%	0.19%	0.20%	0.10%	0.10%	0.10%
1995M10	0.20%	0.19%	0.38%	0.17%	0.21%	0.28%	0.32%	0.21%		0.26%	0.27%	0.20%	0.25%	0.11%	0.12%	0.11%
1995M11	0.19%	0.22%	0.35%	0.19%	0.20%	0.25%	0.28%	0.22%		0.25%	0.25%	0.19%	0.22%	0.11%	0.11%	0.10%
1995M12	0.18%	0.21%	0.33%	0.17%	0.18%	0.25%	0.26%	0.21%		0.23%	0.24%	0.19%	0.19%	0.11%	0.11%	0.11%
1996M01	0.19%	0.20%	0.31%	0.28%	0.19%	0.35%	0.24%	0.24%		0.23%	0.27%	0.18%	0.21%	0.11%	0.14%	0.10%
1996M02	0.18%	0.19%	0.29%	0.26%	0.20%	0.34%	0.23%	0.21%		0.21%	0.25%	0.18%	0.20%	0.11%	0.13%	0.11%
1996M03	0.17%	0.18%	0.28%	0.23%	0.19%	0.32%	0.23%	0.49%		0.30%	0.26%	0.21%	0.21%	0.10%	0.14%	0.10%
1996M04	0.16%	0.17%	0.31%	0.23%	0.18%	0.29%	0.37%	0.33%		0.28%	0.24%	0.21%	0.19%	0.10%	0.14%	0.09%
1996M05	0.19%	0.20%	0.29%	0.21%	0.24%	0.36%	0.77%	0.23%		0.29%	0.29%	0.23%	0.19%	0.09%	0.12%	0.09%
1996M06	0.18%	0.19%	0.28%	0.18%	0.22%	0.35%	0.75%	0.21%		0.26%	0.30%	0.23%	0.17%	0.09%	0.12%	0.09%
1996M07	0.17%	0.18%	0.27%	0.23%	0.24%	0.33%	0.75%	0.42%		0.26%	0.30%	0.22%	0.17%	0.09%	0.12%	0.08%
1996M08	0.22%	0.16%	0.33%	0.21%	0.28%	0.39%	0.74%	0.20%		0.28%	0.35%	0.25%	0.29%	0.12%	0.16%	0.12%
1996M09	0.20%	0.15%	0.38%	0.19%	0.26%	0.35%	0.65%	0.24%		0.27%	0.32%	0.24%	0.24%	0.11%	0.15%	0.11%
1996M10	0.18%	0.14%	0.36%	0.17%	0.23%	0.34%	0.59%	0.23%		0.24%	0.29%	0.23%	0.21%	0.13%	0.14%	0.13%
1996M11	0.18%	0.13%	0.34%	0.18%	0.23%	0.33%	0.75%	0.33%		0.22%	0.27%	0.22%	0.18%	0.12%	0.14%	0.12%
1996M12	0.17%	0.12%	0.31%	0.17%	0.23%	0.29%	0.78%	0.22%		0.23%	0.25%	0.21%	0.16%	0.17%	0.13%	0.17%
1997M01	0.17%	0.11%	0.36%	0.16%	0.21%	0.26%	0.76%	0.25%		0.23%	0.23%	0.20%	0.15%	0.16%	0.12%	0.16%
1997M02	0.16%	0.10%	0.33%	0.14%	0.19%	0.27%	0.66%	0.22%		0.21%	0.21%	0.21%	0.14%	0.18%	0.11%	0.18%
1997M03	0.15%	0.10%	0.31%	0.14%	0.21%	0.24%	1.04%	0.22%		0.20%	0.20%	0.20%	0.13%	0.16%	0.11%	0.16%
1997M04	0.15%	0.14%	0.33%	0.13%	0.20%	0.24%	1.65%	0.27%		0.22%	0.19%	0.21%	0.13%	0.18%	0.11%	0.18%
1997M05	0.16%	0.13%	0.34%	0.15%	0.18%	0.30%	1.42%	0.22%		0.28%	0.20%	0.20%	0.14%	0.19%	0.11%	0.19%
1997M06	0.15%	0.12%	0.32%	0.19%	0.18%	0.31%	1.28%	0.21%		0.26%	0.20%	0.20%	0.20%	0.20%	0.11%	0.20%
1997M07	0.16%	0.20%	0.30%	0.19%	0.20%	0.28%	1.10%	0.21%		0.24%	0.19%	0.19%	0.20%	0.19%	0.11%	0.19%
1997M08	0.15%	0.20%	0.29%	0.21%	0.21%	0.30%	0.95%	0.22%		0.23%	0.18%	0.18%	0.18%	0.23%	0.10%	0.23%
1997M09	0.16%	0.20%	0.28%	0.21%	0.21%	0.28%	0.82%	0.21%		0.21%	0.18%	0.18%	0.24%	0.26%	0.10%	0.26%
1997M10	0.17%	0.18%	0.28%	0.19%	0.20%	0.38%	0.74%	0.21%		0.22%	0.21%	0.17%	0.22%	0.24%	0.11%	0.25%
1997M11	0.16%	0.17%	0.27%	0.17%	0.19%	0.33%	0.95%	0.22%		0.20%	0.20%	0.18%	0.19%	0.24%	0.10%	0.24%
1997M12	0.19%	0.24%	0.29%	0.24%	0.24%	0.46%	0.94%	0.22%		0.31%	0.20%	0.20%	0.27%	0.22%	0.14%	0.23%
1998M01	0.24%	0.42%	0.36%	0.41%	0.25%	0.47%	0.94%	0.39%		0.36%	0.23%	0.21%	0.28%	0.20%	0.17%	0.20%
1998M02	0.47%	0.54%	0.39%	0.37%	0.24%	0.41%	0.81%	0.25%		0.34%	0.24%	0.22%	0.37%	0.17%	0.18%	0.17%
1998M03	0.42%	0.52%	0.36%	0.33%	0.22%	0.37%	0.70%	0.22%		0.32%	0.22%	0.20%	0.31%	0.20%	0.17%	0.20%
1998M04	0.46%	0.51%	0.35%	0.32%	0.25%	0.43%	0.80%	0.23%		0.57%	0.33%	0.27%	0.31%	0.20%	0.19%	0.20%
1998M05	0.45%	0.51%	0.43%	0.37%	0.24%	0.40%	0.71%	0.21%		0.66%	0.31%	0.25%	0.29%	0.18%	0.18%	0.18%
1998M06	0.40%	0.50%	0.42%	0.32%	0.22%	0.39%	0.75%	0.21%		0.61%	0.29%	0.24%	0.24%	0.17%	0.16%	0.17%
1998M07	0.35%	0.45%	0.39%	0.27%	0.20%	0.40%	0.67%	0.27%		0.56%	0.27%	0.23%	0.20%	0.16%	0.15%	0.16%
1998M08	0.35%	0.52%	0.37%	0.28%	0.21%	0.46%	0.72%	0.23%		0.55%	0.30%	0.25%	0.28%	0.15%	0.18%	0.15%

1998M09	0.32%	0.82%	0.35%	0.24%	0.29%	0.59%	0.66%	0.23%		0.58%	0.36%	0.23%	0.23%	0.44%	0.16%	0.44%
1998M10	0.32%	1.04%	0.52%	0.21%	0.29%	0.61%	0.76%	0.21%		0.57%	0.35%	0.25%	0.26%	0.40%	0.20%	0.40%
1998M11	0.32%	0.98%	0.50%	0.19%	0.27%	0.57%	0.73%	0.21%		0.54%	0.33%	0.25%	0.26%	0.39%	0.19%	0.40%
1998M12	0.28%	0.89%	0.46%	0.33%	0.25%	0.50%	0.64%	0.21%		0.49%	0.31%	0.23%	0.21%	0.36%	0.17%	0.36%
1999M01	0.27%	0.81%	0.44%	0.29%	0.23%	0.45%	0.55%	0.22%		0.44%	0.29%	0.22%	0.19%	0.33%	0.16%	0.33%
1999M02	0.32%	0.75%	0.45%	0.48%	0.23%	0.47%	0.52%	0.29%		0.41%	0.31%	0.39%	0.19%	0.29%	0.17%	0.30%
1999M03	0.32%	0.85%	0.48%	0.44%	0.28%	0.45%	0.46%	0.24%		0.40%	0.34%	0.36%	0.21%	0.28%	0.18%	0.28%
1999M04	0.29%	0.76%	0.48%	0.40%	0.28%	0.42%	0.49%	0.23%		0.36%	0.37%	0.32%	0.39%	0.25%	0.17%	0.25%
1999M05	0.29%	0.78%	0.45%	0.46%	0.25%	0.37%	0.60%	0.25%		0.34%	0.61%	0.30%	0.34%	0.22%	0.22%	0.23%
1999M06	0.28%	1.19%	0.41%	0.43%	0.29%	0.39%	0.64%	0.49%		0.32%	0.56%	0.28%	0.35%	0.21%	0.23%	0.22%
1999M07	0.28%	1.23%	0.38%	0.58%	0.40%	0.43%	0.55%	0.24%		0.30%	0.57%	0.33%	0.41%	0.21%	0.22%	0.21%
1999M08	0.25%	1.09%	0.40%	0.70%	0.37%	0.41%	0.49%	0.21%		0.28%	0.51%	0.30%	0.41%	0.21%	0.20%	0.21%
1999M09	0.23%	0.97%	0.37%	0.62%	0.42%	0.36%	0.50%	0.24%		0.25%	0.47%	0.28%	0.35%	0.19%	0.18%	0.19%
1999M10	0.23%	0.86%	0.38%	0.93%	0.40%	0.38%	0.45%	0.21%		0.26%	0.46%	0.28%	0.40%	0.18%	0.20%	0.19%
1999M11	0.21%	0.77%	0.37%	0.85%	0.35%	0.44%	0.55%	0.23%		0.24%	0.43%	0.27%	0.33%	0.20%	0.18%	0.20%
1999M12	0.28%	0.82%	0.35%	0.91%	0.44%	0.51%	0.48%	0.26%		0.37%	0.55%	0.32%	0.34%	0.18%	0.24%	0.18%
2000M01	0.27%	0.78%	0.32%	0.87%	0.38%	0.45%	0.44%	0.21%		0.34%	0.50%	0.30%	0.31%	0.19%	0.22%	0.19%
2000M02	0.24%	10.65%	0.34%	0.78%	0.57%	0.45%	0.39%	0.37%		0.31%	0.52%	0.28%	0.26%	0.21%	0.30%	0.21%
2000M03	0.30%	9.49%	0.38%	4.02%	0.81%	0.69%	0.43%	0.22%		0.54%	0.64%	0.31%	0.38%	0.20%	0.32%	0.20%
2000M04	0.28%	9.21%	0.35%	3.32%	0.73%	0.63%	0.56%	0.22%		0.49%	0.59%	0.36%	0.53%	0.27%	0.29%	0.27%
2000M05	0.55%	9.88%	0.33%	2.74%	0.68%	1.04%	0.49%	0.21%		0.79%	0.76%	0.34%	0.57%	0.26%	0.30%	0.26%
2000M06	0.48%	10.19%	0.33%	2.63%	0.58%	0.98%	0.44%	0.23%		0.71%	0.69%	0.31%	0.45%	0.24%	0.29%	0.24%
2000M07	0.47%	10.34%	0.35%	2.26%	0.52%	1.01%	0.39%	0.24%		0.69%	0.75%	0.32%	0.54%	0.21%	0.30%	0.21%
2000M08	0.44%	9.15%	0.32%	2.09%	0.52%	0.88%	0.35%	0.22%		0.65%	0.69%	0.29%	0.56%	0.19%	0.30%	0.20%
2000M09	0.49%	8.22%	0.40%	1.72%	0.96%	0.78%	0.31%	0.22%		0.61%	1.13%	0.30%	0.69%	0.21%	0.44%	0.21%
2000M10	0.43%	7.49%	0.44%	1.43%	0.98%	0.75%	0.31%	0.44%		1.02%	1.06%	0.31%	0.63%	0.23%	0.45%	0.24%
2000M11	0.42%	6.70%	0.49%	1.19%	0.82%	0.65%	0.33%	0.25%		1.01%	1.07%	0.31%	0.61%	0.21%	0.43%	0.21%
2000M12	0.47%	6.22%	0.51%	0.99%	0.70%	0.61%	0.33%	0.21%		0.90%	1.02%	0.38%	0.51%	0.29%	0.38%	0.29%
2001M01	0.42%	5.54%	1.27%	1.06%	0.64%	0.54%	0.43%	0.23%		0.95%	0.93%	0.35%	0.47%	0.25%	0.42%	0.25%
2001M02	0.54%	5.50%	1.36%	1.02%	0.85%	0.62%	0.45%	0.22%		1.16%	1.02%	0.41%	0.70%	0.22%	0.50%	0.23%
2001M03	0.47%	5.10%	1.17%	0.85%	0.83%	0.58%	0.52%	0.22%		1.08%	0.95%	0.41%	0.66%	0.33%	0.45%	0.34%
2001M04	0.42%	4.56%	1.18%	0.71%	0.71%	0.51%	0.73%	0.21%		0.99%	1.00%	0.38%	0.58%	0.36%	0.40%	0.37%
2001M05	0.36%	4.11%	1.11%	0.63%	0.67%	0.45%	0.64%	0.22%		0.91%	0.94%	0.35%	0.46%	0.36%	0.38%	0.36%
2001M06	0.34%	3.68%	0.99%	0.58%	0.57%	0.42%	0.60%	0.22%		0.87%	0.84%	0.33%	0.40%	0.31%	0.36%	0.31%
2001M07	0.32%	3.48%	1.61%	0.58%	0.80%	0.37%	0.57%	0.55%		0.82%	0.77%	0.30%	0.42%	0.28%	0.40%	0.29%
2001M08	0.36%	3.46%	1.38%	0.54%	0.68%	0.33%	0.52%	0.45%		0.77%	0.69%	0.32%	0.39%	0.25%	0.39%	0.26%
2001M09	0.33%	3.16%	1.73%	0.70%	0.58%	0.31%	0.47%	0.20%		0.70%	0.63%	0.33%	0.32%	0.29%	0.37%	0.30%
2001M10	0.33%	3.30%	1.52%	1.03%	0.52%	0.28%	0.44%	0.23%		0.71%	0.57%	0.34%	0.27%	0.36%	0.50%	0.37%
2001M11	0.30%	3.22%	1.45%	0.91%	0.44%	0.27%	0.44%	0.23%		0.72%	0.52%	0.31%	0.23%	0.31%	0.44%	0.32%
2001M12	0.27%	2.86%	1.34%	0.84%	0.43%	0.24%	0.39%	0.32%		0.65%	0.49%	0.29%	0.23%	0.32%	0.44%	0.32%
2002M01	0.26%	2.59%	1.20%	0.71%	0.44%	0.23%	0.35%	0.21%		0.59%	0.55%	0.27%	0.20%	0.27%	0.39%	0.28%
2002M02	0.23%	2.29%	1.30%	0.67%	0.56%	0.21%	0.31%	0.23%		0.54%	0.50%	0.25%	0.21%	0.25%	0.40%	0.25%
2002M03	0.24%	2.06%	1.15%	0.59%	0.48%	0.19%	0.28%	0.23%		0.49%	0.46%	0.26%	0.43%	0.23%	0.36%	0.23%
2002M04	0.25%	1.84%	1.31%	0.51%	0.45%	0.18%	0.31%	0.26%		0.50%	0.43%	0.24%	0.40%	0.21%	0.45%	0.21%
2002M05	0.24%	1.63%	1.13%	0.85%	0.38%	0.17%	0.27%	0.21%		0.45%	0.43%	0.23%	0.32%	0.25%	0.41%	0.25%
2002M06	0.23%	1.69%	0.97%	0.78%	0.68%	0.16%	0.25%	0.23%		0.42%	0.41%	0.22%	0.72%	0.22%	0.48%	0.22%
2002M07	0.21%	1.51%	0.86%	3.48%	0.60%	0.18%	0.26%	0.21%		0.40%	0.37%	0.22%	1.53%	0.28%	0.50%	0.29%
2002M08	0.19%	1.56%	1.48%	4.61%	0.97%	0.17%	0.40%	0.21%		0.79%	0.35%	0.21%	7.21%	0.35%	0.69%	0.36%
2002M09	0.17%	1.39%	1.29%	4.80%	0.83%	0.18%	0.38%	0.22%		0.71%	0.32%	0.20%	5.98%	0.30%	0.61%	0.31%
2002M10	0.18%	1.47%	1.15%	5.67%	1.71%	0.17%	0.36%	0.27%		0.82%	0.29%	0.21%	5.23%	0.45%	0.76%	0.46%
2002M11	0.18%	1.42%	0.99%	4.93%	1.41%	0.19%	0.47%	0.23%		0.80%	0.28%	0.22%	3.97%	0.44%	0.68%	0.45%
2002M12	0.17%	1.30%	0.87%	4.80%	1.20%	0.22%	0.44%	0.21%		0.72%	0.41%	0.21%	3.13%	0.40%	0.59%	0.40%
2003M01	0.16%	1.50%	0.76%	4.26%	1.01%	0.26%	0.41%	0.22%		0.69%	0.43%	0.24%	2.42%	0.41%	0.53%	0.42%
2003M02	0.19%	1.40%	0.76%	7.27%	1.12%	0.31%	0.41%	0.21%		0.67%	0.39%	0.24%	1.93%	0.38%	0.49%	0.38%
2003M03	0.18%	1.30%	0.67%	7.81%	1.49%	0.28%	0.37%	0.22%		0.62%	0.36%	0.25%	1.52%	0.33%	0.47%	0.34%
2003M04	0.16%	1.16%	0.80%	6.81%	1.25%	0.25%	0.33%	0.21%		0.59%	0.32%	0.29%	1.35%	0.29%	0.43%	0.29%
2003M05	0.17%	1.16%	0.70%	7.10%	1.44%	0.23%	0.33%	0.30%		0.54%	0.30%	0.27%	1.05%	0.31%	0.44%	0.31%
2003M06	0.26%	1.45%	0.64%	6.23%	1.28%	0.37%	0.37%	0.30%		0.56%	0.34%	0.26%	0.99%	0.28%	0.48%	0.29%
2003M07	0.24%	1.28%	0.57%	5.24%	1.06%	0.33%	0.33%	0.21%		0.51%	0.32%	0.25%	0.80%	0.25%	0.42%	0.25%
2003M08	0.26%	1.14%	0.51%	5.70%	1.13%	0.40%	0.30%	0.21%		0.48%	0.36%	0.24%	0.66%	0.21%	0.44%	0.22%
2003M09	0.23%	1.04%	0.48%	4.78%	0.95%	0.35%	0.27%	0.21%		0.44%	0.32%	0.23%	0.52%	0.19%	0.39%	0.19%
2003M10	0.21%	0.93%	0.47%	3.95%	0.80%	0.32%	0.26%	0.25%		0.40%	0.30%	0.23%	0.44%	0.17%	0.35%	0.17%
2003M11	0.20%	0.90%	0.43%	3.27%	0.67%	0.28%	0.25%	0.23%		0.38%	0.28%	0.24%	0.38%	0.18%	0.31%	0.18%
2003M12	0.19%	0.81%	0.39%	2.82%	0.57%	0.25%	0.26%	0.21%		0.34%	0.26%	0.22%	0.31%	0.16%	0.28%	0.16%
2004M01	0.20%	0.72%	0.43%	2.34%	0.65%	0.27%	0.24%	0.22%		0.36%	0.24%	0.21%	0.27%	0.17%	0.28%	0.17%
2004M02	0.20%	0.65%	0.39%	1.94%	0.57%	0.24%	0.25%	0.21%		0.33%	0.22%	0.20%	0.22%	0.15%	0.25%	0.15%
2004M03	0.19%	0.58%	0.37%	1.61%	0.49%	0.22%	0.22%	0.21%		0.31%	0.21%	0.20%	0.19%	0.14%	0.23%	0.14%
2004M04	0.18%	0.53%	0.35%	1.39%	0.42%	0.20%	0.22%	0.22%		0.28%	0.19%	0.19%	0.17%	0.13%	0.20%	0.13%
2004M05	0.20%	0.64%	0.34%	1.31%	0.44%	0.25%	0.21%	0.21%		0.34%	0.20%	0.19%	0.23%	0.13%	0.20%	0.13%
2004M06	0.18%	0.57%	0.33%	1.09%	0.41%	0.24%	0.21%	0.22%		0.32%	0.18%	0.19%	0.20%	0.12%	0.18%	0.12%
2004M07	0.17%	0.58%	0.35%	0.93%	0.35%	0.22%	0.19%	0.27%		0.31%	0.17%	0.18%	0.17%	0.11%	0.17%	0.11%
2004M08	0.17%	0.57%	0.49%	0.79%	0.34%	0.20%	0.20%	0.24%		0.30%	0.16%	0.18%	0.16%	0.12%	0.15%	0.12%
2004M09	0.17%	0.51%	0.44%	0.70%	0.31%	0.20%	0.19%	0.21%		0.32%	0.15%	0.18%	0.15%	0.11%	0.15%	0.11%

2004M10	0.16%	0.46%	0.40%	0.59%	0.28%	0.18%	0.17%	0.21%		0.30%	0.15%	0.18%	0.14%	0.11%	0.13%	0.10%
2004M11	0.16%	0.42%	0.39%	0.51%	0.29%	0.18%	0.16%	0.21%		0.27%	0.17%	0.17%	0.13%	0.10%	0.14%	0.10%
2004M12	0.15%	0.37%	0.37%	0.53%	0.27%	0.16%	0.19%	0.30%	0.34%	0.25%	0.17%	0.17%	0.16%	0.11%	0.14%	0.11%
2005M01	0.16%	0.33%	0.35%	0.45%	0.24%	0.15%	0.18%	0.23%	0.45%	0.52%	0.16%	0.17%	0.14%	0.11%	0.13%	0.11%
2005M02	0.15%	0.30%	0.33%	0.38%	0.25%	0.14%	0.17%	0.21%	0.27%	0.47%	0.15%	0.17%	0.13%	0.12%	0.12%	0.11%
2005M03	0.15%	0.28%	0.35%	0.67%	0.22%	0.13%	0.16%	0.21%	0.22%	0.43%	0.15%	0.16%	0.14%	0.11%	0.11%	0.11%
2005M04	0.16%	0.28%	0.34%	0.62%	0.21%	0.13%	0.15%	0.30%	0.30%	0.39%	0.14%	0.16%	0.14%	0.11%	0.11%	0.11%
2005M05	0.17%	0.28%	0.32%	0.53%	0.21%	0.12%	0.18%	0.21%	0.31%	0.38%	0.15%	0.16%	0.13%	0.11%	0.10%	0.11%
2005M06	0.18%	0.29%	0.34%	0.45%	0.23%	0.16%	0.24%	0.30%	0.23%	0.38%	0.14%	0.16%	0.19%	0.11%	0.10%	0.11%
2005M07	0.17%	0.29%	0.32%	0.65%	0.27%	0.15%	0.24%	0.21%	0.45%	0.42%	0.14%	0.19%	0.22%	0.10%	0.12%	0.10%
2005M08	0.16%	0.26%	0.35%	0.57%	0.24%	0.15%	0.23%	0.21%	0.28%	0.40%	0.13%	0.18%	0.19%	0.11%	0.11%	0.11%
2005M09	0.15%	0.24%	0.34%	0.48%	0.22%	0.14%	0.27%	0.21%	0.22%	0.36%	0.12%	0.18%	0.17%	0.11%	0.10%	0.10%
2005M10	0.15%	0.22%	0.32%	0.41%	0.20%	0.14%	0.24%	0.22%	0.22%	0.33%	0.13%	0.18%	0.16%	0.10%	0.11%	0.10%
2005M11	0.15%	0.33%	0.33%	0.53%	0.30%	0.19%	0.32%	0.23%	0.20%	0.31%	0.13%	0.19%	0.23%	0.10%	0.15%	0.10%
2005M12	0.14%	0.30%	0.44%	0.54%	0.27%	0.17%	0.29%	0.21%	0.21%	0.29%	0.12%	0.19%	0.20%	0.11%	0.14%	0.10%
2006M01	0.14%	0.27%	0.44%	0.46%	0.24%	0.16%	0.29%	0.23%	0.18%	0.27%	0.11%	0.18%	0.17%	0.10%	0.12%	0.10%
2006M02	0.13%	0.30%	0.40%	0.40%	0.23%	0.15%	0.26%	0.21%	0.16%	0.28%	0.10%	0.19%	0.18%	0.10%	0.12%	0.10%
2006M03	0.13%	0.28%	0.37%	0.36%	0.20%	0.14%	0.23%	0.22%	0.18%	0.26%	0.10%	0.19%	0.20%	0.09%	0.11%	0.09%
2006M04	0.12%	0.28%	0.35%	0.44%	0.19%	0.17%	0.21%	0.22%	0.22%	0.30%	0.11%	0.19%	0.18%	0.09%	0.13%	0.09%
2006M05	0.12%	0.25%	0.36%	0.38%	0.18%	0.16%	0.20%	0.24%	0.69%	0.28%	0.10%	0.19%	0.17%	0.09%	0.12%	0.08%
2006M06	0.12%	0.27%	0.38%	0.36%	0.17%	0.16%	0.18%	0.22%	0.40%	0.26%	0.10%	0.18%	0.15%	0.10%	0.11%	0.10%
2006M07	0.13%	0.25%	0.35%	0.31%	0.18%	0.14%	0.17%	0.21%	0.26%	0.25%	0.09%	0.18%	0.15%	0.09%	0.10%	0.09%
2006M08	0.12%	0.32%	0.33%	0.35%	0.17%	0.16%	0.22%	0.23%	0.20%	0.23%	0.11%	0.18%	0.16%	0.09%	0.12%	0.09%
2006M09	0.13%	0.30%	0.32%	0.32%	0.16%	0.15%	0.21%	0.23%	0.17%	0.22%	0.11%	0.18%	0.15%	0.09%	0.11%	0.09%
2006M10	0.13%	0.28%	0.32%	0.28%	0.15%	0.14%	0.19%	0.24%	0.16%	0.35%	0.10%	0.17%	0.14%	0.09%	0.11%	0.09%
2006M11	0.13%	0.33%	0.30%	0.25%	0.16%	0.15%	0.22%	0.24%	0.16%	0.32%	0.12%	0.19%	0.19%	0.09%	0.13%	0.09%
2006M12	0.12%	0.32%	0.29%	0.33%	0.15%	0.14%	0.36%	0.21%	0.16%	0.36%	0.11%	0.18%	0.18%	0.09%	0.12%	0.09%
2007M01	0.12%	0.34%	0.28%	0.29%	0.17%	0.13%	0.32%	0.25%	0.16%	0.33%	0.11%	0.18%	0.16%	0.09%	0.11%	0.08%
2007M02	0.12%	0.31%	0.27%	0.25%	0.17%	0.12%	0.29%	0.28%	0.16%	0.30%	0.10%	0.18%	0.14%	0.09%	0.10%	0.08%
2007M03	0.12%	0.34%	0.26%	0.24%	0.15%	0.11%	0.29%	0.22%	0.15%	0.38%	0.10%	0.18%	0.13%	0.09%	0.11%	0.09%
2007M04	0.13%	0.32%	0.25%	0.21%	0.15%	0.13%	0.41%	0.25%	0.16%	0.44%	0.10%	0.17%	0.15%	0.09%	0.12%	0.08%
2007M05	0.14%	0.30%	0.30%	0.20%	0.15%	0.12%	0.37%	0.21%	0.17%	0.41%	0.10%	0.17%	0.16%	0.10%	0.12%	0.10%
2007M06	0.13%	0.27%	0.29%	0.18%	0.16%	0.14%	0.37%	0.26%	0.34%	0.37%	0.11%	0.17%	0.19%	0.11%	0.11%	0.10%
2007M07	0.18%	0.34%	0.29%	0.23%	0.21%	0.22%	0.39%	0.24%	0.28%	0.34%	0.13%	0.21%	0.35%	0.11%	0.14%	0.10%
2007M08	0.17%	0.40%	0.32%	0.28%	0.27%	0.21%	0.37%	0.32%	1.13%	0.32%	0.13%	0.21%	0.29%	0.12%	0.15%	0.11%
2007M09	0.19%	0.36%	0.40%	0.24%	0.32%	0.24%	0.33%	0.33%	0.60%	0.30%	0.15%	0.21%	0.24%	0.11%	0.13%	0.11%
2007M10	0.19%	0.33%	0.36%	0.22%	0.28%	0.21%	0.30%	0.21%	0.33%	0.28%	0.14%	0.20%	0.24%	0.11%	0.13%	0.11%
2007M11	0.18%	0.37%	0.38%	0.19%	0.25%	0.19%	0.32%	0.21%	0.23%	0.31%	0.13%	0.21%	0.22%	0.11%	0.16%	0.10%
2007M12	0.16%	0.35%	0.39%	0.18%	0.24%	0.19%	0.29%	0.24%	0.18%	0.28%	0.13%	0.20%	0.19%	0.13%	0.15%	0.13%
2008M01	0.16%	0.31%	0.38%	0.16%	0.22%	0.17%	0.26%	0.21%	0.31%	0.26%	0.13%	0.19%	0.18%	0.12%	0.13%	0.12%
2008M02	0.47%	0.34%	0.51%	0.33%	0.28%	0.33%	0.40%	0.31%	0.25%	0.25%	0.15%	0.21%	0.28%	0.17%	0.18%	0.17%
2008M03	0.44%	0.42%	0.51%	0.40%	0.29%	0.33%	0.44%	0.23%	0.68%	0.30%	0.17%	0.22%	0.29%	0.18%	0.20%	0.18%
2008M04	0.39%	0.42%	0.46%	0.42%	0.25%	0.31%	0.40%	0.27%	0.50%	0.36%	0.16%	0.20%	0.24%	0.16%	0.18%	0.16%
2008M05	0.35%	0.40%	0.48%	0.43%	0.23%	0.30%	0.40%	0.21%	0.29%	0.38%	0.17%	0.22%	0.22%	0.16%	0.19%	0.16%
2008M06	0.31%	0.37%	0.52%	0.43%	0.21%	0.27%	0.35%	0.21%	0.33%	0.35%	0.16%	0.21%	0.19%	0.15%	0.17%	0.15%
2008M07	0.32%	0.33%	0.56%	0.42%	0.25%	0.29%	0.32%	0.26%	0.28%	0.33%	0.16%	0.23%	0.22%	0.24%	0.16%	0.24%
2008M08	0.29%	0.33%	0.50%	0.54%	0.22%	0.26%	0.29%	0.27%	0.25%	0.39%	0.16%	0.22%	0.19%	0.22%	0.20%	0.22%
2008M09	0.26%	0.29%	0.47%	0.45%	0.20%	0.25%	0.31%	0.23%	0.29%	0.37%	0.17%	0.21%	0.17%	0.19%	0.18%	0.19%
2008M10	0.27%	0.28%	0.50%	0.53%	0.18%	0.24%	0.31%	0.23%	0.27%	0.70%	0.16%	0.22%	0.16%	0.29%	0.33%	0.30%
2008M11	0.55%	0.36%	0.81%	1.05%	0.23%	0.22%	0.46%	0.21%	2.14%	0.87%	0.21%	0.21%	0.44%	0.67%	0.47%	0.68%
2008M12	0.54%	0.49%	0.71%	0.88%	0.23%	0.25%	0.42%	0.21%	0.95%	0.82%	0.22%	0.20%	0.42%	0.68%	0.41%	0.69%
2009M01	0.50%	0.56%	0.64%	0.75%	0.23%	0.24%	0.37%	0.29%	1.04%	0.78%	0.21%	0.21%	0.34%	0.57%	0.37%	0.59%
2009M02	0.44%	0.51%	0.57%	0.99%	0.21%	0.24%	0.33%	0.23%	0.51%	0.74%	0.27%	0.21%	0.28%	0.62%	0.33%	0.64%
2009M03	1.24%	1.22%	1.48%	0.90%	0.31%	0.36%	0.36%	0.26%	1.32%	0.88%	0.34%	0.27%	0.28%	0.74%	0.50%	0.75%
2009M04	1.06%	1.12%	1.27%	0.80%	0.31%	0.41%	0.33%	0.22%	0.65%	0.83%	0.31%	0.25%	0.27%	0.67%	0.44%	0.68%
2009M05	0.91%	1.07%	1.17%	0.67%	0.30%	0.43%	0.30%	0.22%	0.42%	0.75%	0.30%	0.24%	0.24%	0.62%	0.39%	0.64%
2009M06	0.77%	0.98%	1.05%	0.62%	0.27%	0.39%	0.27%	0.21%	0.27%	0.69%	0.28%	0.23%	0.30%	0.54%	0.35%	0.55%
2009M07	0.70%	1.02%	0.94%	0.56%	0.25%	0.37%	0.29%	0.28%	0.36%	0.62%	0.34%	0.22%	0.34%	0.46%	0.33%	0.47%
2009M08	0.60%	0.92%	0.93%	0.53%	0.26%	0.35%	0.27%	0.25%	0.33%	0.56%	0.31%	0.22%	0.36%	0.43%	0.30%	0.44%
2009M09	0.53%	0.85%	0.81%	0.47%	0.23%	0.32%	0.25%	0.21%	0.24%	0.52%	0.28%	0.23%	0.30%	0.37%	0.27%	0.38%
2009M10	0.50%	0.76%	0.72%	0.40%	0.21%	0.29%	0.23%	0.22%	0.21%	0.47%	0.26%	0.22%	0.26%	0.32%	0.24%	0.33%
2009M11	0.45%	0.74%	0.65%	0.34%	0.19%	0.26%	0.22%	0.24%	0.19%	0.47%	0.24%	0.21%	0.23%	0.29%	0.23%	0.30%
2009M12	0.42%	0.75%	0.59%	0.38%	0.22%	0.28%	0.23%	0.22%	0.30%	0.44%	0.22%	0.21%	0.27%	0.28%	0.22%	0.29%
2010M01	0.43%	0.69%	0.65%	0.46%	0.21%	0.28%	0.25%	0.23%	0.22%	0.42%	0.21%	0.25%	0.26%	0.24%	0.22%	0.25%
2010M02	0.47%	0.67%	0.59%	0.42%	0.22%	0.28%	0.23%	0.28%	0.35%	0.46%	0.21%	0.24%	0.23%	0.24%	0.23%	0.24%
2010M03	0.43%	0.59%	0.57%	0.35%	0.20%	0.25%	0.21%	0.21%	0.24%	0.44%	0.19%	0.23%	0.20%	0.21%	0.21%	0.22%
2010M04	0.40%	0.53%	0.56%	0.30%	0.18%	0.24%	0.25%	0.25%	0.38%	0.40%	0.19%	0.21%	0.18%	0.22%	0.19%	0.22%
2010M05	0.35%	0.49%	0.55%	0.29%	0.17%	0.22%	0.23%	0.22%	0.71%	0.41%	0.20%	0.22%	0.16%	0.19%	0.18%	0.20%
2010M06	0.35%	0.57%	0.64%	0.40%	0.18%	0.23%	0.25%	0.23%	1.17%	0.40%	0.22%	0.23%	0.21%	0.27%	0.21%	0.28%
2010M07	0.31%	0.51%	0.57%	0.35%	0.17%	0.21%	0.23%	0.21%	0.58%	0.37%	0.20%	0.22%	0.18%	0.29%	0.19%	0.29%
2010M08	0.31%	0.50%	0.62%	0.40%	0.21%	0.24%	0.29%	0.22%	0.45%	0.35%	0.23%	0.23%	0.22%	0.29%	0.22%	0.30%
2010M09	0.37%	0.45%	0.57%	0.50%	0.19%	0.23%	0.28%	0.21%	0.28%	0.33%	0.22%	0.22%	0.19%	0.30%	0.20%	0.30%
2010M10	0.32%	0.40%	0.51%	0.43%	0.18%	0.21%	0.25%	0.25%	0.22%	0.31%	0.21%	0.21%	0.18%	0.33%	0.18%	0.33%

2010M11	0.29%	0.38%	0.46%	0.37%	0.17%	0.20%	0.26%	0.21%	0.23%	0.30%	0.19%	0.21%	0.17%	0.29%	0.17%	0.29%
2010M12	0.26%	0.34%	0.43%	0.32%	0.17%	0.18%	0.23%	0.22%	0.24%	0.30%	0.18%	0.20%	0.16%	0.25%	0.17%	0.26%
2011M01	0.23%	0.33%	0.40%	0.28%	0.16%	0.17%	0.21%	0.22%	0.19%	0.28%	0.17%	0.20%	0.14%	0.26%	0.16%	0.26%
2011M02	0.21%	0.30%	0.37%	0.27%	0.15%	0.16%	0.20%	0.25%	0.20%	0.26%	0.16%	0.19%	0.13%	0.23%	0.14%	0.23%
2011M03	0.20%	0.27%	0.34%	0.24%	0.15%	0.14%	0.20%	0.21%	0.24%	0.24%	0.15%	0.18%	0.12%	0.21%	0.13%	0.21%
2011M04	0.18%	0.25%	0.37%	0.21%	0.14%	0.13%	0.18%	0.22%	0.21%	0.23%	0.14%	0.18%	0.11%	0.18%	0.12%	0.18%
2011M05	0.18%	0.25%	0.35%	0.18%	0.14%	0.13%	0.17%	0.22%	0.33%	0.22%	0.14%	0.18%	0.11%	0.17%	0.12%	0.17%
2011M06	0.17%	0.24%	0.43%	0.16%	0.14%	0.13%	0.16%	0.21%	0.23%	0.21%	0.13%	0.17%	0.11%	0.15%	0.11%	0.15%
2011M07	0.16%	0.22%	0.40%	0.15%	0.13%	0.12%	0.15%	0.23%	0.18%	0.20%	0.12%	0.17%	0.11%	0.15%	0.11%	0.15%
2011M08	0.15%	0.21%	0.37%	0.15%	0.13%	0.12%	0.16%	0.21%	0.22%	0.18%	0.12%	0.17%	0.11%	0.14%	0.10%	0.14%
2011M09	0.16%	0.19%	0.35%	0.16%	0.14%	0.18%	0.15%	0.22%	0.27%	0.18%	0.13%	0.17%	0.11%	0.18%	0.09%	0.18%
2011M10	0.15%	0.23%	0.32%	0.14%	0.16%	0.17%	0.16%	0.24%	0.32%	0.17%	0.12%	0.17%	0.11%	0.24%	0.09%	0.24%
2011M11	0.19%	0.25%	0.38%	0.16%	0.16%	0.15%	0.15%	0.26%	0.39%	0.16%	0.12%	0.17%	0.13%	0.33%	0.09%	0.34%
2011M12	0.20%	0.23%	0.36%	0.15%	0.16%	0.15%	0.14%	0.22%	0.25%	0.16%	0.11%	0.17%	0.12%	0.29%	0.09%	0.29%
2012M01	0.19%	0.21%	0.33%	0.17%	0.18%	0.16%	0.16%	0.23%	0.22%	0.15%	0.13%	0.18%	0.16%	0.25%	0.09%	0.25%
2012M02	0.20%	0.20%	0.31%	0.16%	0.18%	0.19%	0.17%	0.24%	0.20%	0.21%	0.13%	0.18%	0.18%	0.23%	0.10%	0.23%
2012M03	0.18%	0.18%	0.30%	0.14%	0.17%	0.17%	0.17%	0.22%	0.19%	0.19%	0.12%	0.18%	0.16%	0.22%	0.09%	0.22%
2012M04	0.17%	0.18%	0.28%	0.14%	0.16%	0.15%	0.17%	0.21%	0.19%	0.18%	0.12%	0.18%	0.14%	0.20%	0.09%	0.20%
2012M05	0.16%	0.17%	0.27%	0.15%	0.15%	0.14%	0.16%	0.22%	0.17%	0.17%	0.11%	0.18%	0.13%	0.18%	0.08%	0.18%
2012M06	0.15%	0.17%	0.26%	0.14%	0.16%	0.14%	0.15%	0.21%	0.16%	0.16%	0.10%	0.18%	0.14%	0.22%	0.08%	0.22%
2012M07	0.17%	0.18%	0.25%	0.13%	0.17%	0.14%	0.20%	0.23%	0.21%	0.17%	0.10%	0.18%	0.13%	0.20%	0.09%	0.20%
2012M08	0.16%	0.18%	0.24%	0.15%	0.58%	0.14%	0.19%	0.21%	0.18%	0.16%	0.11%	0.18%	0.13%	0.18%	0.09%	0.18%
2012M09	0.17%	0.23%	0.29%	0.19%	0.52%	0.17%	0.20%	0.23%	0.17%	0.18%	0.13%	0.20%	0.17%	0.16%	0.11%	0.16%
2012M10	0.16%	0.21%	0.29%	0.17%	0.44%	0.16%	0.19%	0.26%	0.16%	0.17%	0.12%	0.19%	0.15%	0.15%	0.10%	0.15%
2012M11	0.15%	0.19%	0.27%	0.18%	0.38%	0.14%	0.18%	0.21%	0.17%	0.16%	0.11%	0.19%	0.14%	0.14%	0.09%	0.14%
2012M12	0.23%	0.22%	0.26%	0.16%	0.34%	0.20%	0.17%	0.23%	0.21%	0.19%	0.14%	0.18%	0.16%	0.13%	0.12%	0.13%
2013M01	0.22%	0.20%	0.25%	0.14%	0.30%	0.18%	0.15%	0.21%	0.18%	0.18%	0.13%	0.18%	0.15%	0.12%	0.11%	0.12%
2013M02	0.22%	0.24%	0.34%	0.17%	0.32%	0.17%	0.16%	0.22%	0.29%	0.17%	0.13%	0.20%	0.15%	0.14%	0.11%	0.14%
2013M03	0.21%	0.22%	0.33%	0.18%	0.28%	0.18%	0.15%	0.22%	0.28%	0.17%	0.13%	0.20%	0.15%	0.13%	0.11%	0.12%
2013M04	0.21%	0.22%	0.33%	0.19%	0.27%	0.17%	0.16%	0.22%	0.22%	0.19%	0.14%	0.20%	0.16%	0.13%	0.13%	0.13%
2013M05	0.20%	0.21%	0.34%	0.24%	0.25%	0.18%	0.17%	0.21%	0.36%	0.21%	0.13%	0.20%	0.20%	0.12%	0.15%	0.12%
2013M06	0.23%	0.21%	0.31%	0.37%	0.36%	0.29%	0.22%	0.24%	0.34%	0.29%	0.19%	0.24%	0.35%	0.11%	0.23%	0.11%
2013M07	0.21%	0.19%	0.30%	0.31%	0.31%	0.26%	0.20%	0.21%	0.27%	0.27%	0.17%	0.23%	0.29%	0.11%	0.21%	0.11%
2013M08	0.20%	0.22%	0.34%	0.29%	0.30%	0.24%	0.21%	0.26%	0.28%	0.25%	0.16%	0.23%	0.27%	0.13%	0.20%	0.13%
2013M09	0.22%	0.28%	0.40%	0.30%	0.33%	0.26%	0.27%	0.38%	0.32%	0.25%	0.19%	0.23%	0.32%	0.13%	0.21%	0.13%
2013M10	0.21%	0.25%	0.37%	0.27%	0.29%	0.24%	0.24%	0.22%	0.71%	0.24%	0.18%	0.22%	0.26%	0.13%	0.19%	0.13%
2013M11	0.20%	0.25%	0.35%	0.26%	0.31%	0.24%	0.23%	0.22%	0.38%	0.22%	0.16%	0.22%	0.24%	0.14%	0.18%	0.14%
2013M12	0.19%	0.23%	0.32%	0.26%	0.28%	0.25%	0.24%	0.21%	0.34%	0.21%	0.15%	0.21%	0.23%	0.13%	0.17%	0.13%
2014M01	0.18%	0.22%	0.31%	0.22%	0.25%	0.22%	0.23%	0.22%	0.24%	0.20%	0.14%	0.20%	0.19%	0.13%	0.15%	0.12%
2014M02	0.18%	0.20%	0.31%	0.21%	0.23%	0.21%	0.21%	0.22%	0.23%	0.19%	0.13%	0.19%	0.18%	0.14%	0.14%	0.13%
2014M03	0.20%	0.20%	0.30%	0.19%	0.21%	0.20%	0.20%	0.21%	0.19%	0.26%	0.13%	0.19%	0.18%	0.14%	0.14%	0.14%
2014M04	0.19%	0.19%	0.28%	0.18%	0.19%	0.21%	0.18%	0.21%	0.21%	0.25%	0.13%	0.20%	0.16%	0.13%	0.13%	0.13%
2014M05	0.18%	0.20%	0.27%	0.18%	0.19%	0.27%	0.18%	0.23%	0.18%	0.27%	0.14%	0.20%	0.17%	0.12%	0.14%	0.12%
2014M06	0.19%	0.18%	0.26%	0.17%	0.20%	0.27%	0.18%	0.22%	0.17%	0.28%	0.14%	0.21%	0.18%	0.11%	0.13%	0.11%
2014M07	0.19%	0.22%	0.28%	0.18%	0.20%	0.26%	0.18%	0.24%	0.45%	0.27%	0.14%	0.20%	0.20%	0.11%	0.13%	0.11%
2014M08	0.22%	0.28%	0.46%	0.24%	0.20%	0.25%	0.23%	0.25%	0.86%	0.45%	0.14%	0.23%	0.22%	0.11%	0.18%	0.10%
2014M09	0.21%	0.28%	0.42%	0.25%	0.19%	0.24%	0.23%	0.27%	0.45%	0.43%	0.14%	0.23%	0.20%	0.11%	0.18%	0.11%
2014M10	0.21%	0.31%	0.51%	0.24%	0.18%	0.23%	0.22%	0.30%	0.43%	0.39%	0.13%	0.23%	0.21%	0.11%	0.17%	0.11%
2014M11	0.28%	0.58%	0.62%	0.36%	0.27%	0.37%	0.32%	0.64%	1.09%	0.44%	0.17%	0.34%	0.32%	0.11%	0.21%	0.11%
2014M12	0.25%	0.52%	0.55%	0.31%	0.24%	0.33%	0.29%	0.20%	0.55%	0.40%	0.16%	0.31%	0.26%	0.11%	0.19%	0.10%
2015M01	0.28%	0.47%	0.50%	0.29%	0.22%	0.31%	0.30%	0.22%	0.42%	0.36%	0.16%	0.30%	0.27%	0.10%	0.18%	0.10%
2015M02	0.25%	0.44%	0.49%	0.36%	0.22%	0.30%	0.28%	0.21%	0.26%	0.33%	0.16%	0.29%	0.25%	0.11%	0.17%	0.11%
2015M03	0.28%	0.47%	0.44%	0.38%	0.31%	0.36%	0.30%	0.26%	0.37%	0.31%	0.22%	0.31%	0.29%	0.14%	0.20%	0.13%
2015M04	0.25%	0.42%	0.40%	0.33%	0.28%	0.34%	0.28%	0.21%	0.24%	0.28%	0.22%	0.29%	0.24%	0.13%	0.18%	0.13%
2015M05	0.24%	0.41%	0.38%	0.30%	0.25%	0.30%	0.27%	0.28%	0.25%	0.26%	0.20%	0.27%	0.22%	0.12%	0.17%	0.12%
2015M06	0.22%	0.37%	0.36%	0.26%	0.23%	0.27%	0.24%	0.27%	0.19%	0.24%	0.18%	0.25%	0.19%	0.11%	0.15%	0.11%
2015M07	0.23%	0.36%	0.41%	0.32%	0.27%	0.30%	0.30%	0.21%	0.30%	0.28%	0.19%	0.27%	0.21%	0.11%	0.18%	0.11%
2015M08	0.28%	0.39%	0.40%	0.35%	0.26%	0.38%	0.35%	0.22%	0.54%	0.28%	0.21%	0.28%	0.26%	0.11%	0.18%	0.10%
2015M09	0.26%	0.38%	0.39%	0.33%	0.26%	0.34%	0.35%	0.22%	0.42%	0.27%	0.20%	0.27%	0.24%	0.16%	0.19%	0.15%
2015M10	0.26%	0.39%	0.36%	0.36%	0.23%	0.34%	0.36%	0.26%	0.32%	0.27%	0.19%	0.29%	0.24%	0.15%	0.18%	0.15%
2015M11	0.24%	0.35%	0.43%	0.31%	0.21%	0.31%	0.32%	0.21%	0.22%	0.26%	0.17%	0.27%	0.20%	0.21%	0.16%	0.21%
2015M12	0.21%	0.33%	0.42%	0.28%	0.22%	0.31%	0.29%	0.25%	0.18%	0.27%	0.16%	0.26%	0.18%	0.19%	0.15%	0.19%
2016M01	0.20%	0.30%	0.43%	0.25%	0.22%	0.28%	0.26%	0.25%	0.16%	0.25%	0.17%	0.25%	0.16%	0.17%	0.14%	0.17%
2016M02	0.19%	0.29%	0.42%	0.30%	0.23%	0.32%	0.26%	0.23%	0.18%	0.26%	0.17%	0.26%	0.19%	0.20%	0.15%	0.20%
2016M03	0.19%	0.27%	0.55%	0.27%	0.21%	0.29%	0.23%	0.21%	0.28%	0.24%	0.16%	0.24%	0.18%	0.18%	0.14%	0.18%
2016M04	0.22%	0.31%	0.53%	0.30%	0.27%	0.36%	0.26%	0.27%	0.26%	0.33%	0.20%	0.25%	0.21%	0.20%	0.19%	0.20%
2016M05	0.23%	0.28%	0.47%	0.30%	0.25%	0.33%	0.25%	0.25%	0.47%	0.31%	0.19%	0.24%	0.23%	0.18%	0.18%	0.18%
2016M06	0.21%	0.25%	0.43%	0.27%	0.22%	0.30%	0.23%	0.21%	0.28%	0.29%	0.18%	0.23%	0.20%	0.16%	0.16%	0.16%
2016M07	0.26%	0.38%	0.40%	0.37%	0.30%	0.37%	0.28%	0.36%	0.48%	0.29%	0.23%	0.25%	0.29%	0.14%	0.20%	0.14%
2016M08	0.24%	0.35%	0.37%	0.32%	0.27%	0.33%	0.26%	0.21%	0.38%	0.27%	0.21%	0.24%	0.25%	0.14%	0.18%	0.14%
2016M09	0.26%	0.37%	0.39%	0.36%	0.29%	0.34%	0.31%	0.22%	0.37%	0.30%	0.20%	0.26%	0.29%	0.13%	0.20%	0.13%
2016M10	0.23%	0.34%	0.37%	0.31%	0.26%	0.30%	0.28%	0.22%	0.24%	0.28%	0.19%	0.24%	0.24%	0.12%	0.18%	0.12%
2016M11	0.21%	0.30%	0.34%	0.27%	0.23%	0.27%	0.25%	0.22%	0.19%	0.25%	0.17%	0.23%	0.20%	0.12%	0.17%	0.12%

2016M12	0.20%	0.28%	0.34%	0.26%	0.27%	0.31%	0.27%	0.21%	0.20%	0.24%	0.23%	0.24%	0.25%	0.12%	0.19%	0.12%
2017M01	0.23%	0.25%	0.33%	0.24%	0.27%	0.30%	0.30%	0.33%	0.18%	0.26%	0.23%	0.23%	0.24%	0.11%	0.19%	0.11%
2017M02	0.21%	0.25%	0.31%	0.21%	0.24%	0.27%	0.27%	0.22%	0.17%	0.24%	0.21%	0.22%	0.20%	0.11%	0.17%	0.11%
2017M03	0.20%	0.24%	0.30%	0.22%	0.25%	0.26%	0.29%	0.21%	0.17%	0.23%	0.21%	0.21%	0.22%	0.12%	0.18%	0.11%
2017M04	0.18%	0.22%	0.29%	0.19%	0.23%	0.23%	0.26%	0.21%	0.16%	0.22%	0.19%	0.20%	0.19%	0.11%	0.17%	0.10%
2017M05	0.17%	0.21%	0.27%	0.17%	0.20%	0.21%	0.23%	0.22%	0.16%	0.20%	0.18%	0.19%	0.16%	0.10%	0.15%	0.10%
2017M06	0.17%	0.25%	0.27%	0.19%	0.21%	0.22%	0.23%	0.21%	0.19%	0.19%	0.17%	0.19%	0.20%	0.10%	0.15%	0.09%
2017M07	0.17%	0.22%	0.27%	0.18%	0.20%	0.21%	0.22%	0.22%	0.17%	0.19%	0.19%	0.19%	0.20%	0.09%	0.15%	0.09%
2017M08	0.16%	0.89%	0.26%	0.16%	0.19%	0.19%	0.20%	0.22%	0.29%	0.19%	0.17%	0.19%	0.18%	0.09%	0.14%	0.09%
2017M09	0.19%	0.80%	0.25%	0.19%	0.18%	0.18%	0.19%	0.24%	0.25%	0.19%	0.16%	0.19%	0.18%	0.09%	0.13%	0.08%
2017M10	0.19%	0.71%	0.25%	0.21%	0.19%	0.19%	0.19%	0.21%	0.30%	0.18%	0.15%	0.19%	0.19%	0.09%	0.13%	0.08%
2017M11	0.21%	0.63%	0.27%	0.21%	0.20%	0.22%	0.19%	0.22%	0.25%	0.19%	0.17%	0.21%	0.19%	0.09%	0.13%	0.08%
2017M12	0.20%	0.56%	0.35%	0.20%	0.19%	0.22%	0.18%	0.21%	0.40%	0.23%	0.16%	0.20%	0.19%	0.09%	0.13%	0.09%
2018M01	0.24%	0.51%	0.33%	0.23%	0.22%	0.23%	0.18%	0.25%	0.45%	0.22%	0.19%	0.21%	0.24%	0.09%	0.16%	0.08%
2018M02	0.24%	0.46%	0.37%	0.26%	0.26%	0.26%	0.16%	0.26%	0.65%	0.20%	0.22%	0.21%	0.26%	0.12%	0.16%	0.12%
2018M03	0.24%	0.44%	0.41%	0.27%	0.25%	0.28%	0.26%	0.41%	0.57%	0.23%	0.21%	0.23%	0.28%	0.13%	0.17%	0.13%
2018M04	0.23%	0.45%	0.41%	0.29%	0.23%	0.27%	0.25%	0.24%	0.40%	0.23%	0.21%	0.22%	0.27%	0.14%	0.16%	0.13%
2018M05	0.22%	0.40%	0.38%	0.27%	0.22%	0.24%	0.23%	0.22%	0.26%	0.22%	0.20%	0.21%	0.23%	0.12%	0.15%	0.12%
2018M06	0.20%	0.36%	0.36%	0.24%	0.21%	0.24%	0.24%	0.22%	0.21%	0.20%	0.18%	0.20%	0.22%	0.12%	0.14%	0.11%
2018M07	0.19%	0.32%	0.35%	0.21%	0.20%	0.22%	0.22%	0.24%	0.28%	0.19%	0.18%	0.20%	0.19%	0.11%	0.13%	0.11%
2018M08	0.18%	0.31%	0.33%	0.19%	0.19%	0.20%	0.21%	0.21%	0.23%	0.21%	0.18%	0.19%	0.17%	0.11%	0.12%	0.11%
2018M09	0.17%	0.28%	0.31%	0.18%	0.17%	0.18%	0.20%	0.22%	0.18%	0.19%	0.25%	0.19%	0.15%	0.11%	0.11%	0.11%
2018M10	0.16%	0.26%	0.30%	0.16%	0.17%	0.18%	0.18%	0.23%	0.18%	0.18%	0.23%	0.18%	0.14%	0.11%	0.10%	0.10%
2018M11	0.15%	0.24%	0.28%	0.14%	0.16%	0.17%	0.17%	0.22%	0.16%	0.17%	0.22%	0.18%	0.14%	0.17%	0.10%	0.17%
2018M12	0.17%	0.21%	0.39%	0.18%	0.23%	0.20%	0.22%	0.25%	0.40%	0.17%	0.23%	0.19%	0.20%	0.15%	0.10%	0.15%
2019M01	0.18%	0.64%	0.39%	0.20%	0.22%	0.22%	0.23%	0.34%	0.45%	0.20%	0.27%	0.20%	0.23%	0.26%	0.12%	0.26%
2019M02	0.20%	0.58%	0.40%	0.22%	0.20%	0.20%	0.25%	0.25%	0.41%	0.20%	0.35%	0.20%	0.24%	0.29%	0.13%	0.29%
2019M03	0.19%	0.53%	0.39%	0.22%	0.19%	0.24%	0.22%	0.21%	0.39%	0.23%	0.32%	0.21%	0.23%	0.25%	0.13%	0.25%
2019M04	0.18%	0.47%	0.37%	0.19%	0.18%	0.22%	0.21%	0.25%	0.27%	0.22%	0.31%	0.20%	0.20%	0.22%	0.12%	0.22%
2019M05	0.17%	0.46%	0.35%	0.17%	0.16%	0.20%	0.19%	0.21%	0.21%	0.20%	0.29%	0.19%	0.18%	0.21%	0.11%	0.21%
2019M06	0.16%	0.42%	0.34%	0.15%	0.19%	0.18%	0.18%	0.22%	0.18%	0.19%	0.26%	0.19%	0.16%	0.25%	0.11%	0.25%
2019M07	0.16%	0.42%	0.32%	0.15%	0.18%	0.16%	0.17%	0.33%	0.18%	0.18%	0.25%	0.19%	0.16%	0.26%	0.11%	0.26%
2019M08	0.15%	0.39%	0.30%	0.13%	0.18%	0.17%	0.16%	0.21%	0.21%	0.17%	0.23%	0.18%	0.14%	0.23%	0.10%	0.23%
2019M09	0.14%	0.35%	0.29%	0.24%	0.23%	0.19%	0.18%	0.22%	0.21%	0.19%	0.23%	0.26%	0.21%	0.21%	0.11%	0.21%
2019M10	0.15%	0.32%	0.28%	0.21%	0.22%	0.21%	0.22%	0.24%	0.23%	0.18%	0.24%	0.24%	0.18%	0.18%	0.12%	0.18%
2019M11	0.15%	0.29%	0.27%	0.19%	0.20%	0.20%	0.21%	0.23%	0.24%	0.17%	0.22%	0.23%	0.17%	0.17%	0.11%	0.17%
2019M12	0.17%	0.26%	0.26%	0.20%	0.23%	0.22%	0.19%	0.21%	0.20%	0.20%	0.20%	0.24%	0.18%	0.16%	0.11%	0.16%
2020M01	0.17%	0.24%	0.25%	0.18%	0.22%	0.22%	0.19%	0.21%	0.17%	0.19%	0.19%	0.23%	0.17%	0.15%	0.11%	0.15%
2020M02	0.20%	0.25%	0.27%	0.28%	0.25%	0.21%	0.24%	0.21%	0.33%	0.17%	0.28%	0.25%	0.26%	0.14%	0.14%	0.13%
2020M03	0.20%	0.29%	0.41%	0.48%	0.26%	0.51%	0.27%	0.37%	0.55%	0.34%	0.44%	0.27%	0.41%	0.22%	0.24%	0.22%
2020M04	0.24%	0.39%	0.51%	0.43%	0.42%	0.46%	0.34%	0.32%	1.18%	0.45%	0.51%	0.26%	0.35%	0.42%	0.34%	0.42%
2020M05	0.22%	0.35%	0.47%	0.38%	0.38%	0.40%	0.31%	0.21%	0.71%	0.53%	0.48%	0.25%	0.32%	0.52%	0.31%	0.53%
2020M06	0.20%	0.40%	0.43%	0.34%	0.33%	0.38%	0.29%	0.24%	0.40%	0.48%	0.44%	0.23%	0.27%	0.45%	0.29%	0.46%
2020M07	0.22%	0.43%	0.46%	0.29%	0.35%	0.36%	0.26%	0.25%	0.57%	0.45%	0.49%	0.23%	0.25%	0.38%	0.29%	0.39%
2020M08	0.38%	0.39%	0.42%	0.39%	0.34%	0.37%	0.30%	0.22%	0.33%	0.55%	0.46%	0.26%	0.36%	0.35%	0.31%	0.36%
2020M09	0.33%	0.35%	0.39%	0.39%	0.33%	0.39%	0.30%	0.22%	0.52%	0.55%	0.43%	0.24%	0.29%	0.35%	0.29%	0.35%
2020M10	0.29%	0.39%	0.38%	0.33%	0.40%	0.44%	0.27%	0.23%	0.42%	0.52%	0.41%	0.23%	0.24%	0.33%	0.26%	0.33%
2020M11	0.26%	0.36%	0.38%	0.30%	0.36%	0.38%	0.26%	0.22%	0.39%	0.49%	0.40%	0.22%	0.21%	0.30%	0.25%	0.30%
2020M12	0.26%	0.52%	0.40%	0.27%	0.31%	0.35%	0.24%	0.25%	0.62%	0.44%	0.38%	0.23%	0.21%	0.38%	0.22%	0.39%
2021M01	0.23%	0.53%	0.37%	0.23%	0.28%	0.35%	0.22%	0.21%	0.34%	0.40%	0.35%	0.22%	0.18%	0.33%	0.20%	0.34%
2021M02	0.26%	0.54%	0.36%	0.29%	0.25%	0.32%	0.20%	0.33%	0.43%	0.38%	0.34%	0.22%	0.20%	0.29%	0.18%	0.30%
2021M03	0.25%	0.55%	0.33%	0.29%	0.31%	0.34%	0.28%	0.21%	0.40%	0.37%	0.32%	0.26%	0.30%	0.26%	0.21%	0.26%
2021M04	0.47%	0.90%	0.44%	0.51%	0.45%	0.53%	0.34%	0.38%	0.72%	0.46%	0.37%	0.37%	0.53%	0.24%	0.29%	0.24%
2021M05	0.42%	0.83%	0.41%	0.46%	0.40%	0.47%	0.31%	0.22%	0.40%	0.43%	0.37%	0.34%	0.47%	0.23%	0.27%	0.24%
2021M06	0.37%	0.74%	0.39%	0.40%	0.34%	0.42%	0.31%	0.21%	0.48%	0.40%	0.35%	0.32%	0.39%	0.20%	0.25%	0.21%
2021M07	0.35%	0.71%	0.36%	0.42%	0.31%	0.45%	0.28%	0.22%	0.39%	0.38%	0.35%	0.31%	0.41%	0.18%	0.24%	0.18%
2021M08	0.32%	0.64%	0.34%	0.38%	0.31%	0.40%	0.30%	0.23%	0.26%	0.35%	0.34%	0.30%	0.34%	0.16%	0.22%	0.17%
Avg Pred. Variance	0.23%	0.47%	0.43%	0.54%	0.31%	0.46%	0.31%	0.24%	0.34%	0.30%	1.28%	0.23%	0.28%	0.28%	0.30%	0.28%
Spot Variance	0.32%	0.64%	0.34%	0.38%	0.31%	0.40%	0.30%	0.23%	0.26%	0.35%	0.34%	0.30%	0.34%	0.16%	0.22%	0.17%
GARCH Coefficient	2.03832	0.994391	1.566885	1.632017	1.866857	1.546617	1.689958	2.61707	2.374687	2.407147	0.978019	3.009788	2.825029	3.165594	1.555855	2.813867
Predicted RP Based on Avg														11.10%	5.66%	10.00%
Predicted RP Based on Spot														6.44%	4.22%	5.75%
Predicted RP														8.77%	4.94%	7.88%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Jan-26	0.0000%		0.3100%								
Feb-26	-3.8500%		0.2800%					-4.1300%			
Mar-26	-5.7500%		0.3200%					-6.0700%			
Apr-26	2.5300%		0.3000%					2.2300%			
May-26	1.7900%		0.2800%					1.5100%			
Jun-26	4.5700%		0.3300%					4.2400%			
Jul-26	4.7900%		0.3100%					4.4800%			
Aug-26	2.4800%		0.3100%					2.1700%			
Sep-26	2.5200%		0.3000%					2.2200%			
Oct-26	-2.8400%		0.3000%					-3.1400%			
Nov-26	3.4700%		0.3100%					3.1600%			
Dec-26	1.9600%		0.3000%					1.6600%			
Jan-27	-1.9300%		0.3000%					-2.2300%			
Feb-27	5.3700%		0.2700%					5.1000%			
Mar-27	0.8700%		0.2900%					0.5800%			
Apr-27	2.0100%		0.2700%					1.7400%			
May-27	6.0700%		0.2800%					5.7900%			
Jun-27	-0.6700%		0.2700%					-0.9400%			
Jul-27	6.7000%		0.2700%					6.4300%			
Aug-27	5.1500%		0.2900%					4.8600%			
Sep-27	4.5000%		0.2700%					4.2300%			
Oct-27	-5.0200%		0.2800%					-5.3000%			
Nov-27	7.2100%		0.2700%					6.9400%			
Dec-27	2.7900%		0.2700%					2.5200%			
Jan-28	-0.4000%	3.7500%	0.2700%	0.3717%	0.3842%	0.3779%	0.4042%	-0.6700%	-0.7779%	-0.8042%	3.3458%
Feb-28	-1.2500%	-0.8000%	0.2500%	0.3717%	0.3842%	0.3779%	0.4042%	-1.5000%	-1.6279%	-1.6542%	-1.2042%
Mar-28	11.0100%	7.2300%	0.2700%	0.3717%	0.3825%	0.3771%	0.4017%	10.7400%	10.6329%	10.6083%	6.8283%
Apr-28	3.4500%	9.8600%	0.2600%	0.3717%	0.3833%	0.3775%	0.4017%	3.1900%	3.0725%	3.0483%	9.4583%
May-28	1.9700%	2.0800%	0.2700%	0.3742%	0.3867%	0.3804%	0.4058%	1.7000%	1.5896%	1.5642%	1.6742%
Jun-28	-3.8500%	-4.0100%	0.2700%	0.3808%	0.3958%	0.3883%	0.4158%	-4.1200%	-4.2383%	-4.2658%	-4.4258%
Jul-28	1.4100%	-0.7600%	0.2700%	0.3842%	0.3992%	0.3917%	0.4200%	1.1400%	1.0183%	0.9900%	-1.1800%
Aug-28	8.0300%	6.8200%	0.2900%	0.3867%	0.4017%	0.3942%	0.4233%	7.7400%	7.6358%	7.6067%	6.3967%
Sep-28	2.5900%	2.8700%	0.2700%	0.3842%	0.3992%	0.3917%	0.4208%	2.3200%	2.1983%	2.1692%	2.4492%
Oct-28	1.6800%	-0.9200%	0.3000%	0.3842%	0.3983%	0.3913%	0.4158%	1.3800%	1.2888%	1.2642%	-1.3358%
Nov-28	12.9200%	21.4700%	0.2700%	0.3817%	0.3933%	0.3875%	0.4150%	12.6500%	12.5325%	12.5050%	21.0550%
Dec-28	0.4900%	1.0000%	0.2900%	0.3842%	0.3975%	0.3908%	0.4208%	0.2000%	0.0992%	0.0692%	0.5792%
Jan-29	5.8300%	13.2500%	0.2900%	0.3850%	0.3992%	0.3921%	0.4208%	5.5400%	5.4379%	5.4092%	12.8292%
Feb-29	-0.1900%	-2.3200%	0.2700%	0.3883%	0.4050%	0.3967%	0.4250%	-0.4600%	-0.5867%	-0.6150%	-2.7450%
Mar-29	-0.1200%	-1.1000%	0.2800%	0.3917%	0.4100%	0.4008%	0.4283%	-0.4000%	-0.5208%	-0.5483%	-1.5283%
Apr-29	1.7600%	3.4700%	0.3400%	0.3908%	0.4092%	0.4000%	0.4283%	1.4200%	1.3600%	1.3317%	3.0417%
May-29	-3.6200%	4.7000%	0.3000%	0.3917%	0.4092%	0.4004%	0.4283%	-3.9200%	-4.0204%	-4.0483%	4.2717%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Jun-29	11.4000%	21.7800%	0.2900%	0.3975%	0.4150%	0.4063%	0.4358%	11.1100%	10.9938%	10.9642%	21.3442%
Jul-29	4.7100%	9.0500%	0.3200%	0.3975%	0.4142%	0.4058%	0.4367%	4.3900%	4.3042%	4.2733%	8.6133%
Aug-29	10.2800%	10.3300%	0.3000%	0.3992%	0.4158%	0.4075%	0.4417%	9.9800%	9.8725%	9.8383%	9.8883%
Sep-29	-4.7600%	0.0400%	0.3200%	0.4000%	0.4175%	0.4088%	0.4483%	-5.0800%	-5.1688%	-5.2083%	-0.4083%
Oct-29	-19.7300%	-30.2200%	0.3100%	0.3975%	0.4175%	0.4075%	0.4450%	-20.0400%	-20.1375%	-20.1750%	-30.6650%
Nov-29	-12.4600%	-14.2400%	0.2600%	0.3967%	0.4117%	0.4042%	0.4408%	-12.7200%	-12.8642%	-12.9008%	-14.6808%
Dec-29	2.8200%	6.8000%	0.3100%	0.3892%	0.4033%	0.3963%	0.4358%	2.5100%	2.4238%	2.3842%	6.3642%
Jan-30	6.3900%	7.4000%	0.2900%	0.3883%	0.4050%	0.3967%	0.4383%	6.1000%	5.9933%	5.9517%	6.9617%
Feb-30	2.5900%	8.8500%	0.2600%	0.3908%	0.4075%	0.3992%	0.4408%	2.3300%	2.1908%	2.1492%	8.4092%
Mar-30	8.1200%	8.9100%	0.2900%	0.3850%	0.4000%	0.3925%	0.4317%	7.8300%	7.7275%	7.6883%	8.4783%
Apr-30	-0.8000%	3.4100%	0.2700%	0.3833%	0.3983%	0.3908%	0.4292%	-1.0700%	-1.1908%	-1.2292%	2.9808%
May-30	-0.9600%	-2.3600%	0.2700%	0.3833%	0.3975%	0.3904%	0.4200%	-1.2300%	-1.3504%	-1.3800%	-2.7800%
Jun-30	-16.2500%	-19.0300%	0.2900%	0.3808%	0.3967%	0.3888%	0.4175%	-16.5400%	-16.6388%	-16.6675%	-19.4475%
Jul-30	3.8600%	1.7600%	0.2800%	0.3767%	0.3950%	0.3858%	0.4158%	3.5800%	3.4742%	3.4442%	1.3442%
Aug-30	1.4100%	0.7600%	0.2600%	0.3725%	0.3900%	0.3813%	0.4125%	1.1500%	1.0288%	0.9975%	0.3475%
Sep-30	-12.8200%	-11.0800%	0.2900%	0.3683%	0.3875%	0.3779%	0.4050%	-13.1100%	-13.1979%	-13.2250%	-11.4850%
Oct-30	-8.5500%	-8.1800%	0.2700%	0.3683%	0.3892%	0.3788%	0.4067%	-8.8200%	-8.9288%	-8.9567%	-8.5867%
Nov-30	-0.8900%	-7.3000%	0.2600%	0.3725%	0.3958%	0.3842%	0.4133%	-1.1500%	-1.2742%	-1.3033%	-7.7133%
Dec-30	-7.0600%	-3.3900%	0.2800%	0.3767%	0.4042%	0.3904%	0.4258%	-7.3400%	-7.4504%	-7.4858%	-3.8158%
Jan-31	5.0200%	5.4000%	0.2800%	0.3683%	0.3917%	0.3800%	0.4175%	4.7400%	4.6400%	4.6025%	4.9825%
Feb-31	11.9300%	15.2400%	0.2600%	0.3692%	0.3917%	0.3804%	0.4175%	11.6700%	11.5496%	11.5125%	14.8225%
Mar-31	-6.7500%	-2.3900%	0.2900%	0.3658%	0.3892%	0.3775%	0.4150%	-7.0400%	-7.1275%	-7.1650%	-2.8050%
Apr-31	-9.3500%	-10.5400%	0.2700%	0.3667%	0.3967%	0.3817%	0.4050%	-9.6200%	-9.7317%	-9.7550%	-10.9450%
May-31	-12.7900%	-10.2900%	0.2600%	0.3642%	0.3967%	0.3804%	0.4033%	-13.0500%	-13.1704%	-13.1933%	-10.6933%
Jun-31	14.2100%	13.7300%	0.2800%	0.3633%	0.4008%	0.3821%	0.4058%	13.9300%	13.8279%	13.8042%	13.3242%
Jul-31	-7.2200%	-6.2200%	0.2700%	0.3633%	0.4008%	0.3821%	0.4025%	-7.4900%	-7.6021%	-7.6225%	-6.6225%
Aug-31	1.8200%	2.5600%	0.2700%	0.3667%	0.4042%	0.3854%	0.4008%	1.5500%	1.4346%	1.4192%	2.1592%
Sep-31	-29.7300%	-31.4900%	0.2700%	0.3792%	0.4233%	0.4013%	0.4208%	-30.0000%	-30.1313%	-30.1508%	-31.9108%
Oct-31	8.9600%	9.9000%	0.2900%	0.4158%	0.4642%	0.4400%	0.4617%	8.6700%	8.5200%	8.4983%	9.4383%
Nov-31	-7.9800%	-6.1400%	0.3100%	0.4117%	0.4675%	0.4396%	0.4592%	-8.2900%	-8.4196%	-8.4392%	-6.5992%
Dec-31	-14.0000%	-12.8300%	0.3200%	0.4433%	0.5217%	0.4825%	0.5200%	-14.3200%	-14.4825%	-14.5200%	-13.3500%
Jan-32	-2.7100%	-2.0000%	0.3200%	0.4333%	0.5067%	0.4700%	0.5142%	-3.0300%	-3.1800%	-3.2242%	-2.5142%
Feb-32	5.7000%	7.9900%	0.3200%	0.4358%	0.5108%	0.4733%	0.5342%	5.3800%	5.2267%	5.1658%	7.4558%
Mar-32	-11.5800%	-10.5800%	0.3100%	0.4150%	0.4875%	0.4513%	0.5050%	-11.8900%	-12.0313%	-12.0850%	-11.0850%
Apr-32	-19.9700%	-15.3500%	0.3000%	0.4308%	0.5092%	0.4700%	0.5692%	-20.2700%	-20.4400%	-20.5392%	-15.9192%
May-32	-21.9600%	-28.0600%	0.2800%	0.4467%	0.5317%	0.4892%	0.6133%	-22.2400%	-22.4492%	-22.5733%	-28.6733%
Jun-32	-0.2200%	0.9000%	0.2800%	0.4508%	0.5500%	0.5004%	0.6308%	-0.5000%	-0.7204%	-0.8508%	0.2692%
Jul-32	38.1500%	33.1800%	0.2800%	0.4383%	0.5425%	0.4904%	0.6067%	37.8700%	37.6596%	37.5433%	32.5733%
Aug-32	38.6900%	40.3000%	0.2800%	0.4092%	0.4858%	0.4475%	0.5292%	38.4100%	38.2425%	38.1608%	39.7708%
Sep-32	-3.4600%	-2.7000%	0.2600%	0.3917%	0.4617%	0.4267%	0.4925%	-3.7200%	-3.8867%	-3.9525%	-3.1925%
Oct-32	-13.4900%	-10.4700%	0.2700%	0.3867%	0.4592%	0.4229%	0.4842%	-13.7600%	-13.9129%	-13.9742%	-10.9542%
Nov-32	-4.1700%	-3.5400%	0.2600%	0.3858%	0.4642%	0.4250%	0.4900%	-4.4300%	-4.5950%	-4.6600%	-4.0300%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Dec-32	5.6500%	8.9300%	0.2700%	0.3825%	0.4667%	0.4246%	0.4875%	5.3800%	5.2254%	5.1625%	8.4425%
Jan-33	0.8700%	-3.1100%	0.2700%	0.3700%	0.4417%	0.4058%	0.4492%	0.6000%	0.4642%	0.4208%	-3.5592%
Feb-33	-17.7200%	-19.8400%	0.2300%	0.3733%	0.4458%	0.4096%	0.4808%	-17.9500%	-18.1296%	-18.2008%	-20.3208%
Mar-33	3.5300%	-10.8000%	0.2700%	0.3900%	0.4675%	0.4288%	0.5283%	3.2600%	3.1013%	3.0017%	-11.3283%
Apr-33	42.5600%	26.3500%	0.2500%	0.3983%	0.4842%	0.4413%	0.5742%	42.3100%	42.1188%	41.9858%	25.7758%
May-33	16.8300%	17.3200%	0.2800%	0.3858%	0.4500%	0.4179%	0.5417%	16.5500%	16.4121%	16.2883%	16.7783%
Jun-33	13.3800%	14.2600%	0.2500%	0.3717%	0.4242%	0.3979%	0.5092%	13.1300%	12.9821%	12.8708%	13.7508%
Jul-33	-8.6200%	-12.0400%	0.2600%	0.3633%	0.4025%	0.3829%	0.4925%	-8.8800%	-9.0029%	-9.1125%	-12.5325%
Aug-33	12.0600%	-0.5600%	0.2600%	0.3583%	0.3975%	0.3779%	0.4983%	11.8000%	11.6821%	11.5617%	-1.0583%
Sep-33	-11.1800%	-17.5900%	0.2500%	0.3633%	0.4133%	0.3883%	0.5300%	-11.4300%	-11.5683%	-11.7100%	-18.1200%
Oct-33	-8.5500%	-7.1200%	0.2600%	0.3617%	0.4142%	0.3879%	0.5300%	-8.8100%	-8.9379%	-9.0800%	-7.6500%
Nov-33	11.2700%	-1.8000%	0.2500%	0.3783%	0.4458%	0.4121%	0.5883%	11.0200%	10.8579%	10.6817%	-2.3883%
Dec-33	2.5300%	1.2600%	0.2800%	0.3750%	0.4392%	0.4071%	0.6017%	2.2500%	2.1229%	1.9283%	0.6583%
Jan-34	10.6900%	17.4600%	0.2900%	0.3625%	0.4167%	0.3896%	0.5467%	10.4000%	10.3004%	10.1433%	16.9133%
Feb-34	-3.2200%	-2.4200%	0.2400%	0.3500%	0.3917%	0.3708%	0.4817%	-3.4600%	-3.5908%	-3.7017%	-2.9017%
Mar-34	0.0000%	-1.1100%	0.2700%	0.3442%	0.3792%	0.3617%	0.4717%	-0.2700%	-0.3617%	-0.4717%	-1.5817%
Apr-34	-2.5100%	-3.5100%	0.2500%	0.3392%	0.3692%	0.3542%	0.4533%	-2.7600%	-2.8642%	-2.9633%	-3.9633%
May-34	-7.3600%	-7.6500%	0.2500%	0.3342%	0.3642%	0.3492%	0.4492%	-7.6100%	-7.7092%	-7.8092%	-8.0992%
Jun-34	2.2900%	4.7800%	0.2400%	0.3275%	0.3583%	0.3429%	0.4500%	2.0500%	1.9471%	1.8400%	4.3300%
Jul-34	-11.3200%	-16.0300%	0.2400%	0.3242%	0.3567%	0.3404%	0.4408%	-11.5600%	-11.6604%	-11.7608%	-16.4708%
Aug-34	6.1100%	2.6900%	0.2400%	0.3275%	0.3617%	0.3446%	0.4525%	5.8700%	5.7654%	5.6575%	2.2375%
Sep-34	-0.3300%	0.9500%	0.2300%	0.3300%	0.3683%	0.3492%	0.4633%	-0.5600%	-0.6792%	-0.7933%	0.4867%
Oct-34	-2.8600%	-6.6600%	0.2700%	0.3250%	0.3633%	0.3442%	0.4500%	-3.1300%	-3.2042%	-3.3100%	-7.1100%
Nov-34	9.4200%	-0.4800%	0.2500%	0.3217%	0.3567%	0.3392%	0.4483%	9.1700%	9.0808%	8.9717%	-0.9283%
Dec-34	-0.1000%	-7.0100%	0.2500%	0.3175%	0.3558%	0.3367%	0.4467%	-0.3500%	-0.4367%	-0.5467%	-7.4567%
Jan-35	-4.1100%	-2.3100%	0.2500%	0.3142%	0.3508%	0.3325%	0.4317%	-4.3600%	-4.4425%	-4.5417%	-2.7417%
Feb-35	-3.4100%	-11.3600%	0.2100%	0.3075%	0.3442%	0.3258%	0.4133%	-3.6200%	-3.7358%	-3.8233%	-11.7733%
Mar-35	-2.8600%	10.4300%	0.2200%	0.3058%	0.3425%	0.3242%	0.4067%	-3.0800%	-3.1842%	-3.2667%	10.0233%
Apr-35	9.8000%	11.7800%	0.2300%	0.3050%	0.3400%	0.3225%	0.3992%	9.5700%	9.4775%	9.4008%	11.3808%
May-35	4.0900%	11.0600%	0.2300%	0.3042%	0.3358%	0.3200%	0.3842%	3.8600%	3.7700%	3.7058%	10.6758%
Jun-35	6.9900%	10.3600%	0.2200%	0.3008%	0.3325%	0.3167%	0.3775%	6.7700%	6.6733%	6.6125%	9.9825%
Jul-35	8.5000%	8.7000%	0.2400%	0.2967%	0.3242%	0.3104%	0.3683%	8.2600%	8.1896%	8.1317%	8.3317%
Aug-35	2.8000%	5.6300%	0.2300%	0.3000%	0.3225%	0.3113%	0.3700%	2.5700%	2.4888%	2.4300%	5.2600%
Sep-35	2.5600%	-1.2200%	0.2300%	0.2992%	0.3208%	0.3100%	0.3692%	2.3300%	2.2500%	2.1908%	-1.5892%
Oct-35	7.7700%	12.2400%	0.2300%	0.2933%	0.3183%	0.3058%	0.3667%	7.5400%	7.4642%	7.4033%	11.8733%
Nov-35	4.7400%	1.0800%	0.2400%	0.2892%	0.3108%	0.3000%	0.3625%	4.5000%	4.4400%	4.3775%	0.7175%
Dec-35	3.9400%	4.7900%	0.2400%	0.2867%	0.3042%	0.2954%	0.3575%	3.7000%	3.6446%	3.5825%	4.4325%
Jan-36	6.7000%	11.0300%	0.2400%	0.2808%	0.2975%	0.2892%	0.3508%	6.4600%	6.4108%	6.3492%	10.6792%
Feb-36	2.2400%	-3.4200%	0.2300%	0.2767%	0.2958%	0.2863%	0.3475%	2.0100%	1.9538%	1.8925%	-3.7675%
Mar-36	2.6800%	0.3300%	0.2400%	0.2742%	0.2958%	0.2850%	0.3475%	2.4400%	2.3950%	2.3325%	-0.0175%
Apr-36	-7.5100%	-8.1400%	0.2200%	0.2742%	0.2975%	0.2858%	0.3475%	-7.7300%	-7.7958%	-7.8575%	-8.4875%
May-36	5.4500%	7.6100%	0.2200%	0.2725%	0.2942%	0.2833%	0.3450%	5.2300%	5.1667%	5.1050%	7.2650%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Jun-36	3.3300%	3.5000%	0.2400%	0.2700%	0.2925%	0.2813%	0.3433%	3.0900%	3.0488%	2.9867%	3.1567%
Jul-36	7.0100%	10.0900%	0.2300%	0.2692%	0.2900%	0.2796%	0.3392%	6.7800%	6.7304%	6.6708%	9.7508%
Aug-36	1.5100%	-0.1800%	0.2300%	0.2675%	0.2867%	0.2771%	0.3383%	1.2800%	1.2329%	1.1717%	-0.5183%
Sep-36	0.3100%	-2.2500%	0.2100%	0.2650%	0.2842%	0.2746%	0.3375%	0.1000%	0.0354%	-0.0275%	-2.5875%
Oct-36	7.7500%	5.6600%	0.2300%	0.2650%	0.2808%	0.2729%	0.3367%	7.5200%	7.4771%	7.4133%	5.3233%
Nov-36	1.3400%	-1.6900%	0.2200%	0.2625%	0.2758%	0.2692%	0.3292%	1.1200%	1.0708%	1.0108%	-2.0192%
Dec-36	-0.2900%	-1.7400%	0.2200%	0.2583%	0.2733%	0.2658%	0.3192%	-0.5100%	-0.5558%	-0.6092%	-2.0592%
Jan-37	3.9000%	1.9500%	0.2100%	0.2583%	0.2750%	0.2667%	0.3183%	3.6900%	3.6333%	3.5817%	1.6317%
Feb-37	1.9100%	-3.5300%	0.2000%	0.2683%	0.2833%	0.2758%	0.3242%	1.7100%	1.6342%	1.5858%	-3.8542%
Mar-37	-0.7700%	-5.7300%	0.2200%	0.2767%	0.2917%	0.2842%	0.3333%	-0.9900%	-1.0542%	-1.1033%	-6.0633%
Apr-37	-8.0900%	-7.3600%	0.2300%	0.2850%	0.2975%	0.2913%	0.3392%	-8.3200%	-8.3813%	-8.4292%	-7.6992%
May-37	-0.2400%	-5.1600%	0.2200%	0.2775%	0.2900%	0.2838%	0.3333%	-0.4600%	-0.5238%	-0.5733%	-5.4933%
Jun-37	-5.0400%	-4.6700%	0.2500%	0.2733%	0.2858%	0.2796%	0.3325%	-5.2900%	-5.3196%	-5.3725%	-5.0025%
Jul-37	10.4500%	16.7100%	0.2400%	0.2708%	0.2842%	0.2775%	0.3283%	10.2100%	10.1725%	10.1217%	16.3817%
Aug-37	-4.8300%	-9.0300%	0.2300%	0.2700%	0.2842%	0.2771%	0.3242%	-5.0600%	-5.1071%	-5.1542%	-9.3542%
Sep-37	-14.0300%	-11.7400%	0.2300%	0.2733%	0.2883%	0.2808%	0.3300%	-14.2600%	-14.3108%	-14.3600%	-12.0700%
Oct-37	-9.8100%	-5.1600%	0.2300%	0.2725%	0.2942%	0.2833%	0.3408%	-10.0400%	-10.0933%	-10.1508%	-5.5008%
Nov-37	-8.6600%	0.8000%	0.2400%	0.2700%	0.2950%	0.2825%	0.3400%	-8.9000%	-8.9425%	-9.0000%	0.4600%
Dec-37	-4.5900%	-9.5100%	0.2300%	0.2675%	0.2917%	0.2796%	0.3358%	-4.8200%	-4.8696%	-4.9258%	-9.8458%
Jan-38	1.5200%	-3.6800%	0.2300%	0.2642%	0.2917%	0.2779%	0.3342%	1.2900%	1.2421%	1.1858%	-4.0142%
Feb-38	6.7400%	3.4100%	0.2100%	0.2667%	0.2925%	0.2796%	0.3358%	6.5300%	6.4604%	6.4042%	3.0742%
Mar-38	-24.8700%	-19.8400%	0.2300%	0.2683%	0.2967%	0.2825%	0.3325%	-25.1000%	-25.1525%	-25.2025%	-20.1725%
Apr-38	14.4700%	15.3800%	0.2200%	0.2750%	0.3108%	0.2929%	0.3400%	14.2500%	14.1771%	14.1300%	15.0400%
May-38	-3.3000%	1.8100%	0.2200%	0.2683%	0.2967%	0.2825%	0.3292%	-3.5200%	-3.5825%	-3.6292%	1.4808%
Jun-38	25.0300%	16.2200%	0.2100%	0.2717%	0.3067%	0.2892%	0.3292%	24.8200%	24.7408%	24.7008%	15.8908%
Jul-38	7.4400%	1.4800%	0.2100%	0.2683%	0.3017%	0.2850%	0.3217%	7.2300%	7.1550%	7.1183%	1.1583%
Aug-38	-2.2600%	-5.5700%	0.2200%	0.2650%	0.2975%	0.2813%	0.3200%	-2.4800%	-2.5413%	-2.5800%	-5.8900%
Sep-38	1.6600%	1.9100%	0.2100%	0.2675%	0.3000%	0.2838%	0.3233%	1.4500%	1.3763%	1.3367%	1.5867%
Oct-38	7.7600%	18.0100%	0.2200%	0.2625%	0.2942%	0.2783%	0.3158%	7.5400%	7.4817%	7.4442%	17.6942%
Nov-38	-2.7300%	-6.2000%	0.2100%	0.2583%	0.2883%	0.2733%	0.3108%	-2.9400%	-3.0033%	-3.0408%	-6.5108%
Dec-38	4.0100%	3.9100%	0.2200%	0.2567%	0.2850%	0.2708%	0.3117%	3.7900%	3.7392%	3.6983%	3.5983%
Jan-39	-6.7400%	1.6500%	0.2100%	0.2508%	0.2767%	0.2638%	0.3067%	-6.9500%	-7.0038%	-7.0467%	1.3433%
Feb-39	3.9000%	8.0100%	0.1900%	0.2500%	0.2717%	0.2608%	0.2992%	3.7100%	3.6392%	3.6008%	7.7108%
Mar-39	-13.3900%	-13.7800%	0.2100%	0.2492%	0.2683%	0.2588%	0.2950%	-13.6000%	-13.6488%	-13.6850%	-14.0750%
Apr-39	-0.2700%	2.8500%	0.1900%	0.2517%	0.2683%	0.2600%	0.2958%	-0.4600%	-0.5300%	-0.5658%	2.5542%
May-39	7.3300%	6.6500%	0.2000%	0.2475%	0.2633%	0.2554%	0.2917%	7.1300%	7.0746%	7.0383%	6.3583%
Jun-39	-6.1200%	-4.2300%	0.1800%	0.2433%	0.2608%	0.2521%	0.2892%	-6.3000%	-6.3721%	-6.4092%	-4.5192%
Jul-39	11.0500%	12.0800%	0.1900%	0.2408%	0.2567%	0.2488%	0.2858%	10.8600%	10.8013%	10.7642%	11.7942%
Aug-39	-6.4800%	-6.4700%	0.1800%	0.2442%	0.2592%	0.2517%	0.2842%	-6.6600%	-6.7317%	-6.7642%	-6.7542%
Sep-39	16.7300%	4.2100%	0.1900%	0.2708%	0.2908%	0.2808%	0.3092%	16.5400%	16.4492%	16.4208%	3.9008%
Oct-39	-1.2300%	1.3000%	0.2300%	0.2625%	0.2792%	0.2708%	0.2983%	-1.4600%	-1.5008%	-1.5283%	1.0017%
Nov-39	-3.9800%	-1.5700%	0.2000%	0.2500%	0.2633%	0.2567%	0.2842%	-4.1800%	-4.2367%	-4.2642%	-1.8542%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Dec-39	2.7000%	2.7200%	0.1900%	0.2450%	0.2617%	0.2533%	0.2817%	2.5100%	2.4467%	2.4183%	2.4383%
Jan-40	-3.3600%	0.6900%	0.2000%	0.2400%	0.2567%	0.2483%	0.2783%	-3.5600%	-3.6083%	-3.6383%	0.4117%
Feb-40	1.3300%	-1.0200%	0.1800%	0.2383%	0.2542%	0.2463%	0.2792%	1.1500%	1.0838%	1.0508%	-1.2992%
Mar-40	1.2400%	0.9400%	0.1900%	0.2367%	0.2533%	0.2450%	0.2783%	1.0500%	0.9950%	0.9617%	0.6617%
Apr-40	-0.2400%	-0.9200%	0.1800%	0.2350%	0.2492%	0.2421%	0.2708%	-0.4200%	-0.4821%	-0.5108%	-1.1908%
May-40	-22.8900%	-19.6400%	0.1900%	0.2442%	0.2567%	0.2504%	0.2750%	-23.0800%	-23.1404%	-23.1650%	-19.9150%
Jun-40	8.0900%	15.0600%	0.1900%	0.2467%	0.2583%	0.2525%	0.2783%	7.9000%	7.8375%	7.8117%	14.7817%
Jul-40	3.4100%	0.6500%	0.2000%	0.2400%	0.2508%	0.2454%	0.2692%	3.2100%	3.1646%	3.1408%	0.3808%
Aug-40	3.5000%	-0.9400%	0.1900%	0.2375%	0.2525%	0.2450%	0.2675%	3.3100%	3.2550%	3.2325%	-1.2075%
Sep-40	1.2300%	-2.1100%	0.1800%	0.2350%	0.2508%	0.2429%	0.2650%	1.0500%	0.9871%	0.9650%	-2.3750%
Oct-40	4.2200%	3.1700%	0.1800%	0.2325%	0.2508%	0.2417%	0.2625%	4.0400%	3.9783%	3.9575%	2.9075%
Nov-40	-3.1600%	-12.0700%	0.1800%	0.2292%	0.2467%	0.2379%	0.2592%	-3.3400%	-3.3979%	-3.4192%	-12.3292%
Dec-40	0.0900%	1.5400%	0.1700%	0.2258%	0.2433%	0.2346%	0.2583%	-0.0800%	-0.1446%	-0.1683%	1.2817%
Jan-41	-4.6300%	-0.8400%	0.1600%	0.2292%	0.2458%	0.2375%	0.2625%	-4.7900%	-4.8675%	-4.8925%	-1.1025%
Feb-41	-0.6000%	-2.3300%	0.1600%	0.2317%	0.2500%	0.2408%	0.2667%	-0.7600%	-0.8408%	-0.8667%	-2.5967%
Mar-41	0.7100%	-2.8000%	0.1800%	0.2333%	0.2508%	0.2421%	0.2633%	0.5300%	0.4679%	0.4467%	-3.0633%
Apr-41	-6.1200%	-8.4400%	0.1700%	0.2350%	0.2533%	0.2442%	0.2617%	-6.2900%	-6.3642%	-6.3817%	-8.7017%
May-41	1.8300%	-3.3700%	0.1700%	0.2342%	0.2492%	0.2417%	0.2567%	1.6600%	1.5883%	1.5733%	-3.6267%
Jun-41	5.7800%	2.5700%	0.1600%	0.2308%	0.2458%	0.2383%	0.2525%	5.6200%	5.5417%	5.5275%	2.3175%
Jul-41	5.7900%	5.3800%	0.1600%	0.2283%	0.2417%	0.2350%	0.2500%	5.6300%	5.5550%	5.5400%	5.1300%
Aug-41	0.1000%	-1.9200%	0.1600%	0.2283%	0.2417%	0.2350%	0.2483%	-0.0600%	-0.1350%	-0.1483%	-2.1683%
Sep-41	-0.6800%	-2.8200%	0.1600%	0.2292%	0.2425%	0.2358%	0.2500%	-0.8400%	-0.9158%	-0.9300%	-3.0700%
Oct-41	-6.5700%	-8.4800%	0.1600%	0.2275%	0.2392%	0.2333%	0.2500%	-6.7300%	-6.8033%	-6.8200%	-8.7300%
Nov-41	-2.8400%	-6.5200%	0.1400%	0.2267%	0.2383%	0.2325%	0.2483%	-2.9800%	-3.0725%	-3.0883%	-6.7683%
Dec-41	-4.0700%	-6.7800%	0.1600%	0.2333%	0.2458%	0.2396%	0.2550%	-4.2300%	-4.3096%	-4.3250%	-7.0350%
Jan-42	1.6100%	2.5200%	0.2100%	0.2358%	0.2467%	0.2413%	0.2575%	1.4000%	1.3688%	1.3525%	2.2625%
Feb-42	-1.5900%	-3.3900%	0.1900%	0.2375%	0.2483%	0.2429%	0.2575%	-1.7800%	-1.8329%	-1.8475%	-3.6475%
Mar-42	-6.5200%	-10.4600%	0.2100%	0.2383%	0.2500%	0.2442%	0.2600%	-6.7300%	-6.7642%	-6.7800%	-10.7200%
Apr-42	-4.0000%	-4.3200%	0.2000%	0.2358%	0.2483%	0.2421%	0.2575%	-4.2000%	-4.2421%	-4.2575%	-4.5775%
May-42	7.9600%	9.5600%	0.1900%	0.2375%	0.2500%	0.2438%	0.2583%	7.7700%	7.7163%	7.7017%	9.3017%
Jun-42	2.2100%	0.5700%	0.2100%	0.2375%	0.2508%	0.2442%	0.2600%	2.0000%	1.9658%	1.9500%	0.3100%
Jul-42	3.3700%	0.4000%	0.2100%	0.2358%	0.2492%	0.2425%	0.2583%	3.1600%	3.1275%	3.1117%	0.1417%
Aug-42	1.6400%	0.2600%	0.2100%	0.2342%	0.2492%	0.2417%	0.2583%	1.4300%	1.3983%	1.3817%	0.0017%
Sep-42	2.9000%	4.6600%	0.2000%	0.2333%	0.2483%	0.2408%	0.2567%	2.7000%	2.6592%	2.6433%	4.4033%
Oct-42	6.7800%	13.6200%	0.2100%	0.2333%	0.2458%	0.2396%	0.2567%	6.5700%	6.5404%	6.5233%	13.3633%
Nov-42	-0.2100%	-0.1500%	0.2000%	0.2325%	0.2450%	0.2388%	0.2558%	-0.4100%	-0.4488%	-0.4658%	-0.4058%
Dec-42	5.4900%	3.2800%	0.2100%	0.2342%	0.2467%	0.2404%	0.2550%	5.2800%	5.2496%	5.2350%	3.0250%
Jan-43	7.3700%	12.1700%	0.2000%	0.2325%	0.2442%	0.2383%	0.2542%	7.1700%	7.1317%	7.1158%	11.9158%
Feb-43	5.8300%	7.1900%	0.1900%	0.2308%	0.2408%	0.2358%	0.2517%	5.6400%	5.5942%	5.5783%	6.9383%
Mar-43	5.4500%	4.1200%	0.2100%	0.2300%	0.2400%	0.2350%	0.2508%	5.2400%	5.2150%	5.1992%	3.8692%
Apr-43	0.3500%	3.8700%	0.2000%	0.2300%	0.2400%	0.2350%	0.2500%	0.1500%	0.1150%	0.1000%	3.6200%
May-43	5.5200%	3.4700%	0.1900%	0.2283%	0.2392%	0.2338%	0.2500%	5.3300%	5.2863%	5.2700%	3.2200%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Jun-43	2.2300%	5.3800%	0.2100%	0.2267%	0.2375%	0.2321%	0.2483%	2.0200%	1.9979%	1.9817%	5.1317%
Jul-43	-5.2600%	0.3800%	0.2100%	0.2242%	0.2350%	0.2296%	0.2467%	-5.4700%	-5.4896%	-5.5067%	0.1333%
Aug-43	1.7100%	1.0500%	0.2100%	0.2242%	0.2342%	0.2292%	0.2467%	1.5000%	1.4808%	1.4633%	0.8033%
Sep-43	2.6300%	3.2300%	0.2000%	0.2242%	0.2350%	0.2296%	0.2467%	2.4300%	2.4004%	2.3833%	2.9833%
Oct-43	-1.0800%	0.8200%	0.2000%	0.2250%	0.2358%	0.2304%	0.2475%	-1.2800%	-1.3104%	-1.3275%	0.5725%
Nov-43	-6.5400%	-7.7500%	0.2100%	0.2258%	0.2367%	0.2313%	0.2483%	-6.7500%	-6.7713%	-6.7883%	-7.9983%
Dec-43	6.1700%	5.7800%	0.2100%	0.2283%	0.2392%	0.2338%	0.2492%	5.9600%	5.9363%	5.9208%	5.5308%
Jan-44	1.7100%	1.0600%	0.2100%	0.2267%	0.2358%	0.2313%	0.2492%	1.5000%	1.4788%	1.4608%	0.8108%
Feb-44	0.4200%	1.7900%	0.2000%	0.2283%	0.2358%	0.2321%	0.2492%	0.2200%	0.1879%	0.1708%	1.5408%
Mar-44	1.9500%	1.0400%	0.2100%	0.2283%	0.2350%	0.2317%	0.2475%	1.7400%	1.7183%	1.7025%	0.7925%
Apr-44	-1.0000%	-0.9100%	0.2000%	0.2283%	0.2350%	0.2317%	0.2492%	-1.2000%	-1.2317%	-1.2492%	-1.1592%
May-44	5.0500%	3.0100%	0.2200%	0.2275%	0.2342%	0.2308%	0.2492%	4.8300%	4.8192%	4.8008%	2.7608%
Jun-44	5.4300%	5.2600%	0.2000%	0.2275%	0.2342%	0.2308%	0.2492%	5.2300%	5.1992%	5.1808%	5.0108%
Jul-44	-1.9300%	0.2900%	0.2100%	0.2267%	0.2333%	0.2300%	0.2467%	-2.1400%	-2.1600%	-2.1767%	0.0433%
Aug-44	1.5700%	3.5700%	0.2100%	0.2258%	0.2325%	0.2292%	0.2450%	1.3600%	1.3408%	1.3250%	3.3250%
Sep-44	-0.0800%	-1.5000%	0.2000%	0.2267%	0.2325%	0.2296%	0.2442%	-0.2800%	-0.3096%	-0.3242%	-1.7442%
Oct-44	0.2300%	1.3900%	0.2100%	0.2267%	0.2342%	0.2304%	0.2450%	0.0200%	-0.0004%	-0.0150%	1.1450%
Nov-44	1.3300%	-1.3000%	0.2000%	0.2267%	0.2333%	0.2300%	0.2467%	1.1300%	1.1000%	1.0833%	-1.5467%
Dec-44	3.7400%	3.2400%	0.2000%	0.2250%	0.2300%	0.2275%	0.2475%	3.5400%	3.5125%	3.4925%	2.9925%
Jan-45	1.5800%	4.9700%	0.2100%	0.2242%	0.2300%	0.2271%	0.2492%	1.3700%	1.3529%	1.3308%	4.7208%
Feb-45	6.8300%	6.9500%	0.1800%	0.2208%	0.2275%	0.2242%	0.2483%	6.6500%	6.6058%	6.5817%	6.7017%
Mar-45	-4.4100%	-3.5700%	0.2000%	0.2183%	0.2267%	0.2225%	0.2475%	-4.6100%	-4.6325%	-4.6575%	-3.8175%
Apr-45	9.0200%	10.6600%	0.1900%	0.2175%	0.2275%	0.2225%	0.2458%	8.8300%	8.7975%	8.7742%	10.4142%
May-45	1.9500%	1.7100%	0.1900%	0.2183%	0.2267%	0.2225%	0.2433%	1.7600%	1.7275%	1.7067%	1.4667%
Jun-45	-0.0700%	6.6200%	0.1900%	0.2175%	0.2242%	0.2208%	0.2392%	-0.2600%	-0.2908%	-0.3092%	6.3808%
Jul-45	-1.8000%	-0.5100%	0.1800%	0.2167%	0.2233%	0.2200%	0.2358%	-1.9800%	-2.0200%	-2.0358%	-0.7458%
Aug-45	6.4100%	0.3100%	0.1900%	0.2175%	0.2250%	0.2213%	0.2333%	6.2200%	6.1888%	6.1767%	0.0767%
Sep-45	4.3800%	7.3900%	0.1800%	0.2183%	0.2250%	0.2217%	0.2325%	4.2000%	4.1583%	4.1475%	7.1575%
Oct-45	3.2200%	6.4100%	0.1900%	0.2183%	0.2250%	0.2217%	0.2325%	3.0300%	2.9983%	2.9875%	6.1775%
Nov-45	3.9600%	4.7100%	0.1800%	0.2183%	0.2233%	0.2208%	0.2308%	3.7800%	3.7392%	3.7292%	4.4792%
Dec-45	1.1600%	-1.1700%	0.1800%	0.2175%	0.2233%	0.2204%	0.2292%	0.9800%	0.9396%	0.9308%	-1.3992%
Jan-46	7.1400%	11.9900%	0.1700%	0.2117%	0.2183%	0.2150%	0.2242%	6.9700%	6.9250%	6.9158%	11.7658%
Feb-46	-6.4100%	-6.4000%	0.1500%	0.2067%	0.2133%	0.2100%	0.2225%	-6.5600%	-6.6200%	-6.6325%	-6.6225%
Mar-46	4.8000%	6.3100%	0.1600%	0.2058%	0.2117%	0.2088%	0.2217%	4.6400%	4.5913%	4.5783%	6.0883%
Apr-46	3.9300%	3.3800%	0.1700%	0.2050%	0.2133%	0.2092%	0.2208%	3.7600%	3.7208%	3.7092%	3.1592%
May-46	2.8800%	3.0100%	0.1800%	0.2092%	0.2150%	0.2121%	0.2242%	2.7000%	2.6679%	2.6558%	2.7858%
Jun-46	-3.7000%	-2.7600%	0.1600%	0.2075%	0.2158%	0.2117%	0.2250%	-3.8600%	-3.9117%	-3.9250%	-2.9850%
Jul-46	-2.3900%	-3.9500%	0.1900%	0.2067%	0.2158%	0.2113%	0.2242%	-2.5800%	-2.6013%	-2.6142%	-4.1742%
Aug-46	-6.7400%	-7.2400%	0.1700%	0.2092%	0.2183%	0.2138%	0.2258%	-6.9100%	-6.9538%	-6.9658%	-7.4658%
Sep-46	-9.9700%	-10.5100%	0.1800%	0.2150%	0.2233%	0.2192%	0.2292%	-10.1500%	-10.1892%	-10.1992%	-10.7392%
Oct-46	-0.6000%	2.2000%	0.1900%	0.2167%	0.2250%	0.2208%	0.2300%	-0.7900%	-0.8208%	-0.8300%	1.9700%
Nov-46	-0.2700%	0.5800%	0.1800%	0.2158%	0.2242%	0.2200%	0.2300%	-0.4500%	-0.4900%	-0.5000%	0.3500%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Dec-46	4.5700%	7.0600%	0.1900%	0.2175%	0.2242%	0.2208%	0.2300%	4.3800%	4.3492%	4.3400%	6.8300%
Jan-47	2.5500%	-0.0200%	0.1800%	0.2142%	0.2208%	0.2175%	0.2267%	2.3700%	2.3325%	2.3233%	-0.2467%
Feb-47	-0.7700%	-0.8900%	0.1600%	0.2125%	0.2200%	0.2163%	0.2267%	-0.9300%	-0.9863%	-0.9967%	-1.1167%
Mar-47	-1.4900%	-3.6400%	0.1800%	0.2125%	0.2200%	0.2163%	0.2267%	-1.6700%	-1.7063%	-1.7167%	-3.8667%
Apr-47	-3.6300%	-3.2000%	0.1700%	0.2108%	0.2192%	0.2150%	0.2250%	-3.8000%	-3.8450%	-3.8550%	-3.4250%
May-47	0.1400%	-2.7900%	0.1700%	0.2108%	0.2192%	0.2150%	0.2250%	-0.0300%	-0.0750%	-0.0850%	-3.0150%
Jun-47	5.5400%	4.2800%	0.1900%	0.2125%	0.2200%	0.2163%	0.2258%	5.3500%	5.3238%	5.3142%	4.0542%
Jul-47	3.8100%	2.1400%	0.1800%	0.2125%	0.2200%	0.2163%	0.2275%	3.6300%	3.5938%	3.5825%	1.9125%
Aug-47	-2.0300%	-0.2200%	0.1700%	0.2133%	0.2200%	0.2167%	0.2275%	-2.2000%	-2.2467%	-2.2575%	-0.4475%
Sep-47	-1.1100%	-1.4200%	0.1800%	0.2175%	0.2242%	0.2208%	0.2333%	-1.2900%	-1.3308%	-1.3433%	-1.6533%
Oct-47	2.3800%	-1.3300%	0.1800%	0.2250%	0.2325%	0.2288%	0.2400%	2.2000%	2.1513%	2.1400%	-1.5700%
Nov-47	-1.7500%	-8.2400%	0.1700%	0.2308%	0.2375%	0.2342%	0.2442%	-1.9200%	-1.9842%	-1.9942%	-8.4842%
Dec-47	2.3300%	1.8900%	0.2100%	0.2383%	0.2450%	0.2417%	0.2542%	2.1200%	2.0883%	2.0758%	1.6358%
Jan-48	-3.7900%	0.7000%	0.2000%	0.2383%	0.2450%	0.2417%	0.2542%	-3.9900%	-4.0317%	-4.0442%	0.4458%
Feb-48	-3.8800%	-3.7200%	0.1900%	0.2375%	0.2442%	0.2408%	0.2542%	-4.0700%	-4.1208%	-4.1342%	-3.9742%
Mar-48	7.9300%	6.1700%	0.2200%	0.2358%	0.2417%	0.2388%	0.2517%	7.7100%	7.6913%	7.6783%	5.9183%
Apr-48	2.9200%	1.6000%	0.2000%	0.2317%	0.2392%	0.2354%	0.2475%	2.7200%	2.6846%	2.6725%	1.3525%
May-48	8.7900%	5.8300%	0.1800%	0.2300%	0.2383%	0.2342%	0.2450%	8.6100%	8.5558%	8.5450%	5.5850%
Jun-48	0.5400%	2.1200%	0.2100%	0.2300%	0.2375%	0.2338%	0.2450%	0.3300%	0.3063%	0.2950%	1.8750%
Jul-48	-5.0800%	-4.4300%	0.1900%	0.2342%	0.2408%	0.2375%	0.2492%	-5.2700%	-5.3175%	-5.3292%	-4.6792%
Aug-48	1.5800%	0.3600%	0.2100%	0.2367%	0.2450%	0.2408%	0.2525%	1.3700%	1.3392%	1.3275%	0.1075%
Sep-48	-2.7600%	-0.7100%	0.2000%	0.2367%	0.2442%	0.2404%	0.2542%	-2.9600%	-3.0004%	-3.0142%	-0.9642%
Oct-48	7.1000%	4.0300%	0.1900%	0.2367%	0.2450%	0.2408%	0.2525%	6.9100%	6.8592%	6.8475%	3.7775%
Nov-48	-9.6100%	-9.1300%	0.2100%	0.2367%	0.2433%	0.2400%	0.2558%	-9.8200%	-9.8500%	-9.8658%	-9.3858%
Dec-48	3.4600%	2.2100%	0.2000%	0.2325%	0.2400%	0.2363%	0.2550%	3.2600%	3.2238%	3.2050%	1.9550%
Jan-49	0.3900%	5.0400%	0.2000%	0.2258%	0.2342%	0.2300%	0.2492%	0.1900%	0.1600%	0.1408%	4.7908%
Feb-49	-2.9600%	0.0500%	0.1800%	0.2258%	0.2333%	0.2296%	0.2492%	-3.1400%	-3.1896%	-3.2092%	-0.1992%
Mar-49	3.2800%	3.6400%	0.1900%	0.2250%	0.2325%	0.2288%	0.2475%	3.0900%	3.0513%	3.0325%	3.3925%
Apr-49	-1.7900%	0.5800%	0.1800%	0.2250%	0.2325%	0.2288%	0.2467%	-1.9700%	-2.0188%	-2.0367%	0.3333%
May-49	-2.5800%	0.3400%	0.2000%	0.2258%	0.2317%	0.2288%	0.2458%	-2.7800%	-2.8088%	-2.8258%	0.0942%
Jun-49	0.1400%	-1.3400%	0.1900%	0.2258%	0.2317%	0.2288%	0.2450%	-0.0500%	-0.0888%	-0.1050%	-1.5850%
Jul-49	6.5000%	5.6900%	0.1700%	0.2225%	0.2292%	0.2258%	0.2417%	6.3300%	6.2742%	6.2583%	5.4483%
Aug-49	2.1900%	3.4600%	0.1900%	0.2183%	0.2258%	0.2221%	0.2383%	2.0000%	1.9679%	1.9517%	3.2217%
Sep-49	2.6300%	3.7300%	0.1700%	0.2167%	0.2242%	0.2204%	0.2375%	2.4600%	2.4096%	2.3925%	3.4925%
Oct-49	3.4000%	1.1200%	0.1800%	0.2175%	0.2250%	0.2213%	0.2358%	3.2200%	3.1788%	3.1642%	0.8842%
Nov-49	1.7500%	1.5900%	0.1700%	0.2167%	0.2233%	0.2200%	0.2342%	1.5800%	1.5300%	1.5158%	1.3558%
Dec-49	4.8600%	3.9600%	0.1700%	0.2150%	0.2225%	0.2188%	0.2317%	4.6900%	4.6413%	4.6283%	3.7283%
Jan-50	1.9700%	3.5300%	0.1800%	0.2142%	0.2208%	0.2175%	0.2300%	1.7900%	1.7525%	1.7400%	3.3000%
Feb-50	1.9900%	1.0000%	0.1600%	0.2150%	0.2208%	0.2179%	0.2300%	1.8300%	1.7721%	1.7600%	0.7700%
Mar-50	0.7000%	0.8400%	0.1800%	0.2150%	0.2217%	0.2183%	0.2300%	0.5200%	0.4817%	0.4700%	0.6100%
Apr-50	4.8600%	1.8500%	0.1600%	0.2167%	0.2217%	0.2192%	0.2308%	4.7000%	4.6408%	4.6292%	1.6192%
May-50	5.0900%	1.9200%	0.1900%	0.2175%	0.2242%	0.2208%	0.2325%	4.9000%	4.8692%	4.8575%	1.6875%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Jun-50	-5.4800%	-7.7100%	0.1700%	0.2183%	0.2242%	0.2213%	0.2325%	-5.6500%	-5.7013%	-5.7125%	-7.9425%
Jul-50	1.1900%	-4.3600%	0.1800%	0.2208%	0.2267%	0.2238%	0.2325%	1.0100%	0.9663%	0.9575%	-4.5925%
Aug-50	4.4300%	1.5400%	0.1800%	0.2175%	0.2225%	0.2200%	0.2300%	4.2500%	4.2100%	4.2000%	1.3100%
Sep-50	5.9200%	4.1800%	0.1700%	0.2200%	0.2258%	0.2229%	0.2333%	5.7500%	5.6971%	5.6867%	3.9467%
Oct-50	0.9300%	-0.2700%	0.1900%	0.2225%	0.2267%	0.2246%	0.2358%	0.7400%	0.7054%	0.6942%	-0.5058%
Nov-50	1.6900%	-1.7600%	0.1800%	0.2225%	0.2267%	0.2246%	0.2383%	1.5100%	1.4654%	1.4517%	-1.9983%
Dec-50	5.1300%	3.1200%	0.1800%	0.2225%	0.2267%	0.2246%	0.2383%	4.9500%	4.9054%	4.8917%	2.8817%
Jan-51	6.3700%	4.3800%	0.2000%	0.2217%	0.2258%	0.2238%	0.2358%	6.1700%	6.1463%	6.1342%	4.1442%
Feb-51	1.5700%	2.6800%	0.1700%	0.2217%	0.2258%	0.2238%	0.2367%	1.4000%	1.3463%	1.3333%	2.4433%
Mar-51	-1.5600%	-1.7400%	0.1900%	0.2317%	0.2350%	0.2333%	0.2458%	-1.7500%	-1.7933%	-1.8058%	-1.9858%
Apr-51	5.0900%	0.0500%	0.2000%	0.2392%	0.2442%	0.2417%	0.2575%	4.8900%	4.8483%	4.8325%	-0.2075%
May-51	-2.9900%	0.6600%	0.2100%	0.2408%	0.2442%	0.2425%	0.2608%	-3.2000%	-3.2325%	-3.2508%	0.3992%
Jun-51	-2.2800%	-0.4000%	0.2000%	0.2450%	0.2492%	0.2471%	0.2675%	-2.4800%	-2.5271%	-2.5475%	-0.6675%
Jul-51	7.1100%	4.3900%	0.2300%	0.2450%	0.2492%	0.2471%	0.2717%	6.8800%	6.8629%	6.8383%	4.1183%
Aug-51	4.7800%	1.5200%	0.2100%	0.2400%	0.2433%	0.2417%	0.2658%	4.5700%	4.5383%	4.5142%	1.2542%
Sep-51	0.1300%	0.8600%	0.1900%	0.2367%	0.2400%	0.2383%	0.2617%	-0.0600%	-0.1083%	-0.1317%	0.5983%
Oct-51	-1.0300%	0.2900%	0.2300%	0.2408%	0.2442%	0.2425%	0.2642%	-1.2600%	-1.2725%	-1.2942%	0.0258%
Nov-51	0.9600%	1.2000%	0.2100%	0.2467%	0.2517%	0.2492%	0.2700%	0.7500%	0.7108%	0.6900%	0.9300%
Dec-51	4.2400%	3.5200%	0.2200%	0.2508%	0.2550%	0.2529%	0.2742%	4.0200%	3.9871%	3.9658%	3.2458%
Jan-52	1.8100%	3.0500%	0.2300%	0.2483%	0.2542%	0.2513%	0.2742%	1.5800%	1.5588%	1.5358%	2.7758%
Feb-52	-2.8200%	0.5900%	0.2100%	0.2442%	0.2508%	0.2475%	0.2692%	-3.0300%	-3.0675%	-3.0892%	0.3208%
Mar-52	5.0300%	1.7600%	0.2300%	0.2467%	0.2525%	0.2496%	0.2708%	4.8000%	4.7804%	4.7592%	1.4892%
Apr-52	-4.0200%	-1.5400%	0.2200%	0.2442%	0.2508%	0.2475%	0.2692%	-4.2400%	-4.2675%	-4.2892%	-1.8092%
May-52	3.4300%	1.9000%	0.2000%	0.2442%	0.2500%	0.2471%	0.2683%	3.2300%	3.1829%	3.1617%	1.6317%
Jun-52	4.9000%	0.4900%	0.2200%	0.2450%	0.2525%	0.2488%	0.2683%	4.6800%	4.6513%	4.6317%	0.2217%
Jul-52	1.9600%	2.0600%	0.2200%	0.2458%	0.2533%	0.2496%	0.2683%	1.7400%	1.7104%	1.6917%	1.7917%
Aug-52	-0.7100%	2.0300%	0.2100%	0.2450%	0.2550%	0.2500%	0.2700%	-0.9200%	-0.9600%	-0.9800%	1.7600%
Sep-52	-1.7600%	0.1500%	0.2300%	0.2458%	0.2558%	0.2508%	0.2700%	-1.9900%	-2.0108%	-2.0300%	-0.1200%
Oct-52	0.2000%	1.0100%	0.2300%	0.2508%	0.2567%	0.2538%	0.2717%	-0.0300%	-0.0538%	-0.0717%	0.7383%
Nov-52	5.7100%	4.2300%	0.2100%	0.2483%	0.2550%	0.2517%	0.2700%	5.5000%	5.4583%	5.4400%	3.9600%
Dec-52	3.8200%	2.1300%	0.2400%	0.2475%	0.2542%	0.2508%	0.2683%	3.5800%	3.5692%	3.5517%	1.8617%
Jan-53	-0.4900%	1.0300%	0.2300%	0.2517%	0.2575%	0.2546%	0.2708%	-0.7200%	-0.7446%	-0.7608%	0.7592%
Feb-53	-1.0600%	-0.6700%	0.2100%	0.2558%	0.2617%	0.2588%	0.2750%	-1.2700%	-1.3188%	-1.3350%	-0.9450%
Mar-53	-2.1200%	-0.4300%	0.2500%	0.2600%	0.2650%	0.2625%	0.2800%	-2.3700%	-2.3825%	-2.4000%	-0.7100%
Apr-53	-2.3700%	-1.9200%	0.2400%	0.2692%	0.2742%	0.2717%	0.2892%	-2.6100%	-2.6417%	-2.6592%	-2.2092%
May-53	0.7700%	0.2400%	0.2400%	0.2783%	0.2842%	0.2813%	0.3025%	0.5300%	0.4888%	0.4675%	-0.0625%
Jun-53	-1.3400%	-2.7300%	0.2700%	0.2833%	0.2917%	0.2875%	0.3092%	-1.6100%	-1.6275%	-1.6492%	-3.0392%
Jul-53	2.7300%	3.4500%	0.2500%	0.2733%	0.2850%	0.2792%	0.3050%	2.4800%	2.4508%	2.4250%	3.1450%
Aug-53	-5.0100%	0.1600%	0.2500%	0.2700%	0.2825%	0.2763%	0.3008%	-5.2600%	-5.2863%	-5.3108%	-0.1408%
Sep-53	0.3400%	1.1900%	0.2500%	0.2742%	0.2858%	0.2800%	0.3017%	0.0900%	0.0600%	0.0383%	0.8883%
Oct-53	5.4000%	4.1100%	0.2300%	0.2633%	0.2775%	0.2704%	0.2908%	5.1700%	5.1296%	5.1092%	3.8192%
Nov-53	2.0400%	2.7400%	0.2400%	0.2592%	0.2725%	0.2658%	0.2833%	1.8000%	1.7742%	1.7567%	2.4567%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Dec-53	0.5300%	0.6400%	0.2400%	0.2608%	0.2733%	0.2671%	0.2817%	0.2900%	0.2629%	0.2483%	0.3583%
Jan-54	5.3600%	3.2700%	0.2300%	0.2550%	0.2683%	0.2617%	0.2767%	5.1300%	5.0983%	5.0833%	2.9933%
Feb-54	1.1100%	1.1700%	0.2200%	0.2458%	0.2600%	0.2529%	0.2692%	0.8900%	0.8571%	0.8408%	0.9008%
Mar-54	3.2500%	2.7000%	0.2500%	0.2383%	0.2525%	0.2454%	0.2633%	3.0000%	3.0046%	2.9867%	2.4367%
Apr-54	5.1600%	1.2100%	0.2200%	0.2375%	0.2500%	0.2438%	0.2633%	4.9400%	4.9163%	4.8967%	0.9467%
May-54	4.1800%	2.5700%	0.2000%	0.2400%	0.2525%	0.2463%	0.2617%	3.9800%	3.9338%	3.9183%	2.3083%
Jun-54	0.3100%	0.9600%	0.2500%	0.2417%	0.2550%	0.2483%	0.2633%	0.0600%	0.0617%	0.0467%	0.6967%
Jul-54	5.8900%	4.9500%	0.2200%	0.2408%	0.2533%	0.2471%	0.2617%	5.6700%	5.6429%	5.6283%	4.6883%
Aug-54	-2.7500%	-1.3100%	0.2300%	0.2392%	0.2525%	0.2458%	0.2608%	-2.9800%	-2.9958%	-3.0108%	-1.5708%
Sep-54	8.5100%	1.7800%	0.2200%	0.2408%	0.2533%	0.2471%	0.2600%	8.2900%	8.2629%	8.2500%	1.5200%
Oct-54	-1.6700%	-3.6800%	0.2100%	0.2392%	0.2533%	0.2463%	0.2600%	-1.8800%	-1.9163%	-1.9300%	-3.9400%
Nov-54	9.0900%	5.6500%	0.2300%	0.2408%	0.2533%	0.2471%	0.2592%	8.8600%	8.8429%	8.8308%	5.3908%
Dec-54	5.3400%	3.4100%	0.2300%	0.2417%	0.2533%	0.2475%	0.2592%	5.1100%	5.0925%	5.0808%	3.1508%
Jan-55	1.9700%	1.4300%	0.2200%	0.2442%	0.2550%	0.2496%	0.2608%	1.7500%	1.7204%	1.7092%	1.1692%
Feb-55	0.9800%	3.4400%	0.2200%	0.2442%	0.2583%	0.2513%	0.2617%	0.7600%	0.7288%	0.7183%	3.1783%
Mar-55	-0.3000%	-1.1000%	0.2400%	0.2517%	0.2608%	0.2563%	0.2625%	-0.5400%	-0.5563%	-0.5625%	-1.3625%
Apr-55	3.9600%	2.0200%	0.2200%	0.2508%	0.2608%	0.2558%	0.2625%	3.7400%	3.7042%	3.6975%	1.7575%
May-55	0.5500%	-0.5800%	0.2500%	0.2533%	0.2625%	0.2579%	0.2658%	0.3000%	0.2921%	0.2842%	-0.8458%
Jun-55	8.4100%	2.1100%	0.2300%	0.2542%	0.2617%	0.2579%	0.2675%	8.1800%	8.1521%	8.1425%	1.8425%
Jul-55	6.2200%	4.6600%	0.2300%	0.2550%	0.2617%	0.2583%	0.2675%	5.9900%	5.9617%	5.9525%	4.3925%
Aug-55	-0.2500%	0.5200%	0.2700%	0.2592%	0.2667%	0.2629%	0.2700%	-0.5200%	-0.5129%	-0.5200%	0.2500%
Sep-55	1.3000%	-2.9000%	0.2400%	0.2608%	0.2683%	0.2646%	0.2725%	1.0600%	1.0354%	1.0275%	-3.1725%
Oct-55	-2.8400%	-0.8500%	0.2500%	0.2583%	0.2658%	0.2621%	0.2750%	-3.0900%	-3.1021%	-3.1150%	-1.1250%
Nov-55	8.2700%	2.9200%	0.2400%	0.2583%	0.2650%	0.2617%	0.2767%	8.0300%	8.0083%	7.9933%	2.6433%
Dec-55	0.1500%	-0.6700%	0.2400%	0.2625%	0.2683%	0.2654%	0.2792%	-0.0900%	-0.1154%	-0.1292%	-0.9492%
Jan-56	-3.4700%	0.3000%	0.2500%	0.2592%	0.2658%	0.2625%	0.2758%	-3.7200%	-3.7325%	-3.7458%	0.0242%
Feb-56	4.1300%	1.7800%	0.2300%	0.2567%	0.2633%	0.2600%	0.2742%	3.9000%	3.8700%	3.8558%	1.5058%
Mar-56	7.1000%	3.9400%	0.2300%	0.2583%	0.2650%	0.2617%	0.2742%	6.8700%	6.8383%	6.8258%	3.6658%
Apr-56	-0.0400%	-2.8700%	0.2600%	0.2700%	0.2750%	0.2725%	0.2833%	-0.3000%	-0.3125%	-0.3233%	-3.1533%
May-56	-5.9300%	-1.3800%	0.2600%	0.2733%	0.2783%	0.2758%	0.2900%	-6.1900%	-6.2058%	-6.2200%	-1.6700%
Jun-56	4.0900%	2.1100%	0.2300%	0.2717%	0.2792%	0.2754%	0.2908%	3.8600%	3.8146%	3.7992%	1.8192%
Jul-56	5.3000%	5.2500%	0.2600%	0.2733%	0.2825%	0.2779%	0.2958%	5.0400%	5.0221%	5.0042%	4.9542%
Aug-56	-3.2800%	-2.5900%	0.2600%	0.2858%	0.2917%	0.2888%	0.3025%	-3.5400%	-3.5688%	-3.5825%	-2.8925%
Sep-56	-4.4000%	-3.1900%	0.2500%	0.2967%	0.3025%	0.2996%	0.3100%	-4.6500%	-4.6996%	-4.7100%	-3.5000%
Oct-56	0.6600%	0.6300%	0.2900%	0.2992%	0.3075%	0.3033%	0.3158%	0.3700%	0.3567%	0.3442%	0.3142%
Nov-56	-0.5000%	0.2800%	0.2700%	0.3075%	0.3133%	0.3104%	0.3183%	-0.7700%	-0.8104%	-0.8183%	-0.0383%
Dec-56	3.7000%	1.0400%	0.2800%	0.3125%	0.3208%	0.3167%	0.3258%	3.4200%	3.3833%	3.3742%	0.7142%
Jan-57	-4.0100%	3.2400%	0.2900%	0.3142%	0.3242%	0.3192%	0.3300%	-4.3000%	-4.3292%	-4.3400%	2.9100%
Feb-57	-2.6400%	-0.6100%	0.2500%	0.3058%	0.3192%	0.3125%	0.3375%	-2.8900%	-2.9525%	-2.9775%	-0.9475%
Mar-57	2.1500%	0.7800%	0.2600%	0.3050%	0.3167%	0.3108%	0.3375%	1.8900%	1.8392%	1.8125%	0.4425%
Apr-57	3.8800%	4.0200%	0.2900%	0.3058%	0.3158%	0.3108%	0.3342%	3.5900%	3.5692%	3.5458%	3.6858%
May-57	4.3700%	1.8000%	0.2900%	0.3117%	0.3192%	0.3154%	0.3342%	4.0800%	4.0546%	4.0358%	1.4658%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Jun-57	0.0400%	-4.1800%	0.2500%	0.3258%	0.3317%	0.3288%	0.3408%	-0.2100%	-0.2888%	-0.3008%	-4.5208%
Jul-57	1.3100%	0.3500%	0.3300%	0.3325%	0.3417%	0.3371%	0.3500%	0.9800%	0.9729%	0.9600%	0.0000%
Aug-57	-5.0500%	-2.9400%	0.3000%	0.3417%	0.3508%	0.3463%	0.3642%	-5.3500%	-5.3963%	-5.4142%	-3.3042%
Sep-57	-6.0200%	-1.3800%	0.3100%	0.3433%	0.3550%	0.3492%	0.3792%	-6.3300%	-6.3692%	-6.3992%	-1.7592%
Oct-57	-3.0200%	-0.7400%	0.3100%	0.3417%	0.3567%	0.3492%	0.3842%	-3.3300%	-3.3692%	-3.4042%	-1.1242%
Nov-57	2.3100%	4.2800%	0.2900%	0.3400%	0.3575%	0.3488%	0.3850%	2.0200%	1.9613%	1.9250%	3.8950%
Dec-57	-3.9500%	1.9500%	0.2900%	0.3175%	0.3400%	0.3288%	0.3633%	-4.2400%	-4.2788%	-4.3133%	1.5867%
Jan-58	4.4500%	6.0200%	0.2700%	0.3000%	0.3175%	0.3088%	0.3275%	4.1800%	4.1413%	4.1225%	5.6925%
Feb-58	-1.4100%	1.3700%	0.2500%	0.2992%	0.3142%	0.3067%	0.3300%	-1.6600%	-1.7167%	-1.7400%	1.0400%
Mar-58	3.2800%	2.0000%	0.2700%	0.3025%	0.3150%	0.3088%	0.3442%	3.0100%	2.9713%	2.9358%	1.6558%
Apr-58	3.3700%	5.1600%	0.2600%	0.3000%	0.3150%	0.3075%	0.3292%	3.1100%	3.0625%	3.0408%	4.8308%
May-58	2.1200%	1.6400%	0.2400%	0.2975%	0.3150%	0.3063%	0.3342%	1.8800%	1.8138%	1.7858%	1.3058%
Jun-58	2.7900%	1.7200%	0.2700%	0.2975%	0.3150%	0.3063%	0.3325%	2.5200%	2.4838%	2.4575%	1.3875%
Jul-58	4.4900%	1.0900%	0.2700%	0.3058%	0.3192%	0.3125%	0.3367%	4.2200%	4.1775%	4.1533%	0.7533%
Aug-58	1.7600%	-0.6700%	0.2700%	0.3208%	0.3317%	0.3263%	0.3575%	1.4900%	1.4338%	1.4025%	-1.0275%
Sep-58	5.0100%	3.3200%	0.3200%	0.3408%	0.3500%	0.3454%	0.3792%	4.6900%	4.6646%	4.6308%	2.9408%
Oct-58	2.7000%	4.0600%	0.3200%	0.3425%	0.3508%	0.3467%	0.3800%	2.3800%	2.3533%	2.3200%	3.6800%
Nov-58	2.8400%	2.6300%	0.2800%	0.3408%	0.3508%	0.3458%	0.3725%	2.5600%	2.4942%	2.4675%	2.2575%
Dec-58	5.3500%	6.5500%	0.3300%	0.3400%	0.3483%	0.3442%	0.3742%	5.0200%	5.0058%	4.9758%	6.1758%
Jan-59	0.5300%	1.3400%	0.3100%	0.3433%	0.3517%	0.3475%	0.3767%	0.2200%	0.1825%	0.1533%	0.9633%
Feb-59	0.4900%	2.0600%	0.3100%	0.3450%	0.3533%	0.3492%	0.3750%	0.1800%	0.1408%	0.1150%	1.6850%
Mar-59	0.2000%	1.0200%	0.3500%	0.3442%	0.3525%	0.3483%	0.3725%	-0.1500%	-0.1483%	-0.1725%	0.6475%
Apr-59	4.0200%	-0.2800%	0.3300%	0.3525%	0.3600%	0.3563%	0.3800%	3.6900%	3.6638%	3.6400%	-0.6600%
May-59	2.4000%	-1.2000%	0.3300%	0.3642%	0.3717%	0.3679%	0.3975%	2.0700%	2.0321%	2.0025%	-1.5975%
Jun-59	-0.2200%	-0.8800%	0.3600%	0.3717%	0.3800%	0.3758%	0.4050%	-0.5800%	-0.5958%	-0.6250%	-1.2850%
Jul-59	3.6300%	3.7100%	0.3500%	0.3725%	0.3817%	0.3771%	0.4067%	3.2800%	3.2529%	3.2233%	3.3033%
Aug-59	-1.0200%	1.7500%	0.3500%	0.3692%	0.3817%	0.3754%	0.4075%	-1.3700%	-1.3954%	-1.4275%	1.3425%
Sep-59	-4.4300%	-3.9300%	0.3400%	0.3767%	0.3908%	0.3838%	0.4192%	-4.7700%	-4.8138%	-4.8492%	-4.3492%
Oct-59	1.2800%	1.5700%	0.3500%	0.3808%	0.3967%	0.3888%	0.4133%	0.9300%	0.8913%	0.8667%	1.1567%
Nov-59	1.8600%	0.0100%	0.3500%	0.3800%	0.3917%	0.3858%	0.4083%	1.5100%	1.4742%	1.4517%	-0.3983%
Dec-59	2.9200%	2.3000%	0.3600%	0.3817%	0.3950%	0.3883%	0.4133%	2.5600%	2.5317%	2.5067%	1.8867%
Jan-60	-7.0000%	-1.0800%	0.3500%	0.3842%	0.3975%	0.3908%	0.4183%	-7.3500%	-7.3908%	-7.4183%	-1.4983%
Feb-60	1.4700%	1.8100%	0.3700%	0.3800%	0.3925%	0.3863%	0.4167%	1.1000%	1.0838%	1.0533%	1.3933%
Mar-60	-1.2300%	1.4100%	0.3600%	0.3742%	0.3850%	0.3796%	0.4092%	-1.5900%	-1.6096%	-1.6392%	1.0008%
Apr-60	-1.6100%	0.7500%	0.3200%	0.3708%	0.3817%	0.3763%	0.3992%	-1.9300%	-1.9863%	-2.0092%	0.3508%
May-60	3.2600%	2.3300%	0.3700%	0.3717%	0.3842%	0.3779%	0.4050%	2.8900%	2.8821%	2.8550%	1.9250%
Jun-60	2.1100%	4.0800%	0.3400%	0.3708%	0.3833%	0.3771%	0.4033%	1.7700%	1.7329%	1.7067%	3.6767%
Jul-60	-2.3400%	-1.0000%	0.3200%	0.3675%	0.3800%	0.3738%	0.3992%	-2.6600%	-2.7138%	-2.7392%	-1.3992%
Aug-60	3.1700%	5.0200%	0.3400%	0.3567%	0.3700%	0.3633%	0.3867%	2.8300%	2.8067%	2.7833%	4.6333%
Sep-60	-5.9000%	-5.1400%	0.3200%	0.3542%	0.3675%	0.3608%	0.3808%	-6.2200%	-6.2608%	-6.2808%	-5.5208%
Oct-60	-0.0700%	-0.1200%	0.3300%	0.3583%	0.3700%	0.3642%	0.3842%	-0.4000%	-0.4342%	-0.4542%	-0.5042%
Nov-60	4.6500%	3.8600%	0.3200%	0.3592%	0.3725%	0.3658%	0.3851%	4.3300%	4.2842%	4.2649%	3.4749%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Dec-60	4.7900%	7.2400%	0.3300%	0.3625%	0.3750%	0.3688%	0.3875%	4.4600%	4.4213%	4.4025%	6.8525%
Jan-61	6.4500%	6.1900%	0.3300%	0.3600%	0.3733%	0.3667%	0.3867%	6.1200%	6.0833%	6.0633%	5.8033%
Feb-61	3.1900%	3.5700%	0.3000%	0.3558%	0.3667%	0.3613%	0.3825%	2.8900%	2.8288%	2.8075%	3.1875%
Mar-61	2.7000%	3.1900%	0.3100%	0.3517%	0.3608%	0.3563%	0.3733%	2.3900%	2.3438%	2.3267%	2.8167%
Apr-61	0.5100%	1.0900%	0.3100%	0.3542%	0.3642%	0.3592%	0.3733%	0.2000%	0.1508%	0.1367%	0.7167%
May-61	2.3900%	1.3300%	0.3400%	0.3558%	0.3675%	0.3617%	0.3767%	2.0500%	2.0283%	2.0133%	0.9533%
Jun-61	-2.7500%	-2.2700%	0.3200%	0.3608%	0.3708%	0.3658%	0.3808%	-3.0700%	-3.1158%	-3.1308%	-2.6508%
Jul-61	3.4200%	4.2400%	0.3300%	0.3675%	0.3775%	0.3725%	0.3875%	3.0900%	3.0475%	3.0325%	3.8525%
Aug-61	2.4300%	4.5400%	0.3300%	0.3708%	0.3808%	0.3758%	0.3942%	2.1000%	2.0542%	2.0358%	4.1458%
Sep-61	-1.8400%	-0.6700%	0.3200%	0.3708%	0.3825%	0.3767%	0.3942%	-2.1600%	-2.2167%	-2.2342%	-1.0642%
Oct-61	2.9800%	4.8000%	0.3400%	0.3683%	0.3800%	0.3742%	0.3925%	2.6400%	2.6058%	2.5875%	4.4075%
Nov-61	4.4700%	3.3500%	0.3200%	0.3658%	0.3783%	0.3721%	0.3900%	4.1500%	4.0979%	4.0800%	2.9600%
Dec-61	0.4600%	-2.9200%	0.3100%	0.3683%	0.3800%	0.3742%	0.3875%	0.1500%	0.0858%	0.0725%	-3.3075%
Jan-62	-3.6600%	-3.6600%	0.3700%	0.3683%	0.3792%	0.3738%	0.3875%	-4.0300%	-4.0338%	-4.0475%	-4.0475%
Feb-62	2.0900%	3.0000%	0.3200%	0.3683%	0.3800%	0.3742%	0.3883%	1.7700%	1.7158%	1.7017%	2.6117%
Mar-62	-0.4600%	0.8100%	0.3300%	0.3658%	0.3775%	0.3717%	0.3867%	-0.7900%	-0.8317%	-0.8467%	0.4233%
Apr-62	-6.0700%	-3.5300%	0.3300%	0.3608%	0.3742%	0.3675%	0.3825%	-6.4000%	-6.4375%	-6.4525%	-3.9125%
May-62	-8.1100%	-9.1200%	0.3200%	0.3567%	0.3692%	0.3629%	0.3758%	-8.4300%	-8.4729%	-8.4858%	-9.4958%
Jun-62	-8.0300%	-5.4800%	0.3000%	0.3567%	0.3700%	0.3633%	0.3733%	-8.3300%	-8.3933%	-8.4033%	-5.8533%
Jul-62	6.5200%	6.8900%	0.3400%	0.3617%	0.3742%	0.3679%	0.3750%	6.1800%	6.1521%	6.1450%	6.5150%
Aug-62	2.0800%	2.7100%	0.3400%	0.3625%	0.3742%	0.3683%	0.3775%	1.7400%	1.7117%	1.7025%	2.3325%
Sep-62	-4.6500%	-3.3400%	0.3000%	0.3600%	0.3717%	0.3658%	0.3758%	-4.9500%	-5.0158%	-5.0258%	-3.7158%
Oct-62	0.6400%	-0.1400%	0.3500%	0.3567%	0.3675%	0.3621%	0.3742%	0.2900%	0.2779%	0.2658%	-0.5142%
Nov-62	10.8600%	7.6800%	0.3100%	0.3542%	0.3667%	0.3604%	0.3708%	10.5500%	10.4996%	10.4892%	7.3092%
Dec-62	1.5300%	3.1200%	0.3200%	0.3533%	0.3650%	0.3592%	0.3700%	1.2100%	1.1708%	1.1600%	2.7500%
Jan-63	5.0600%	5.5800%	0.3200%	0.3508%	0.3642%	0.3575%	0.3658%	4.7400%	4.7025%	4.6942%	5.2142%
Feb-63	-2.3900%	-2.0600%	0.2900%	0.3492%	0.3633%	0.3563%	0.3642%	-2.6800%	-2.7463%	-2.7542%	-2.4242%
Mar-63	3.7000%	1.8600%	0.3100%	0.3492%	0.3617%	0.3554%	0.3642%	3.3900%	3.3446%	3.3358%	1.4958%
Apr-63	5.0000%	2.3200%	0.3400%	0.3508%	0.3625%	0.3567%	0.3642%	4.6600%	4.6433%	4.6358%	1.9558%
May-63	1.9300%	0.7000%	0.3300%	0.3517%	0.3633%	0.3575%	0.3642%	1.6000%	1.5725%	1.5658%	0.3358%
Jun-63	-1.8800%	-1.2300%	0.3000%	0.3525%	0.3633%	0.3579%	0.3642%	-2.1800%	-2.2379%	-2.2442%	-1.5942%
Jul-63	-0.2200%	1.2300%	0.3600%	0.3550%	0.3658%	0.3604%	0.3658%	-0.5800%	-0.5804%	-0.5858%	0.8642%
Aug-63	5.3500%	4.2500%	0.3300%	0.3575%	0.3667%	0.3621%	0.3650%	5.0200%	4.9879%	4.9850%	3.8850%
Sep-63	-0.9700%	-2.5800%	0.3400%	0.3592%	0.3675%	0.3633%	0.3667%	-1.3100%	-1.3333%	-1.3367%	-2.9467%
Oct-63	3.3900%	-0.3300%	0.3400%	0.3600%	0.3692%	0.3646%	0.3675%	3.0500%	3.0254%	3.0225%	-0.6975%
Nov-63	-0.4600%	-0.8200%	0.3200%	0.3608%	0.3700%	0.3654%	0.3683%	-0.7800%	-0.8254%	-0.8283%	-1.1883%
Dec-63	2.6200%	3.1700%	0.3600%	0.3625%	0.3717%	0.3671%	0.3717%	2.2600%	2.2529%	2.2483%	2.7983%
Jan-64	2.8300%	1.2700%	0.3500%	0.3642%	0.3742%	0.3692%	0.3742%	2.4800%	2.4608%	2.4558%	0.8958%
Feb-64	1.4700%	0.3200%	0.3200%	0.3633%	0.3717%	0.3675%	0.3750%	1.1500%	1.1025%	1.0950%	-0.0550%
Mar-64	1.6500%	-0.3500%	0.3700%	0.3650%	0.3725%	0.3688%	0.3758%	1.2800%	1.2813%	1.2742%	-0.7258%
Apr-64	0.7500%	0.6700%	0.3500%	0.3667%	0.3742%	0.3704%	0.3767%	0.4000%	0.3796%	0.3733%	0.2933%
May-64	1.6200%	0.3200%	0.3200%	0.3675%	0.3750%	0.3713%	0.3775%	1.3000%	1.2488%	1.2425%	-0.0575%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Jun-64	1.7800%	2.3400%	0.3800%	0.3675%	0.3758%	0.3717%	0.3792%	1.4000%	1.4083%	1.4008%	1.9608%
Jul-64	1.9500%	4.7100%	0.3500%	0.3667%	0.3750%	0.3708%	0.3783%	1.6000%	1.5792%	1.5717%	4.3317%
Aug-64	-1.1800%	0.3100%	0.3500%	0.3675%	0.3742%	0.3708%	0.3783%	-1.5300%	-1.5508%	-1.5583%	-0.0683%
Sep-64	3.0100%	1.7000%	0.3400%	0.3683%	0.3733%	0.3708%	0.3775%	2.6700%	2.6392%	2.6325%	1.3225%
Oct-64	0.9600%	1.6500%	0.3400%	0.3683%	0.3742%	0.3713%	0.3758%	0.6200%	0.5888%	0.5842%	1.2742%
Nov-64	0.0500%	1.1400%	0.3500%	0.3692%	0.3742%	0.3717%	0.3775%	-0.3000%	-0.3217%	-0.3275%	0.7625%
Dec-64	0.5600%	0.8600%	0.3500%	0.3700%	0.3750%	0.3725%	0.3783%	0.2100%	0.1875%	0.1817%	0.4817%
Jan-65	3.4500%	3.7100%	0.3300%	0.3692%	0.3733%	0.3713%	0.3775%	3.1200%	3.0788%	3.0725%	3.3325%
Feb-65	0.3100%	0.0900%	0.3200%	0.3675%	0.3717%	0.3696%	0.3758%	-0.0100%	-0.0596%	-0.0658%	-0.2858%
Mar-65	-1.3300%	0.0700%	0.3800%	0.3683%	0.3733%	0.3708%	0.3750%	-1.7100%	-1.7008%	-1.7050%	-0.3050%
Apr-65	3.5600%	1.0900%	0.3300%	0.3692%	0.3733%	0.3713%	0.3742%	3.2300%	3.1888%	3.1858%	0.7158%
May-65	-0.3000%	-0.8400%	0.3300%	0.3700%	0.3742%	0.3721%	0.3750%	-0.6300%	-0.6721%	-0.6750%	-1.2150%
Jun-65	-4.7300%	-3.4000%	0.3800%	0.3717%	0.3767%	0.3742%	0.3767%	-5.1100%	-5.1042%	-5.1067%	-3.7767%
Jul-65	1.4700%	1.0500%	0.3400%	0.3733%	0.3800%	0.3767%	0.3783%	1.1300%	1.0933%	1.0917%	0.6717%
Aug-65	2.7200%	0.9700%	0.3700%	0.3742%	0.3825%	0.3783%	0.3817%	2.3500%	2.3417%	2.3383%	0.5883%
Sep-65	3.3400%	1.9400%	0.3500%	0.3767%	0.3858%	0.3813%	0.3858%	2.9900%	2.9588%	2.9542%	1.5542%
Oct-65	2.8900%	1.2900%	0.3400%	0.3800%	0.3883%	0.3842%	0.3883%	2.5500%	2.5058%	2.5017%	0.9017%
Nov-65	-0.3100%	-1.1600%	0.3700%	0.3833%	0.3908%	0.3871%	0.3925%	-0.6800%	-0.6971%	-0.7025%	-1.5525%
Dec-65	1.0600%	-0.0800%	0.3700%	0.3900%	0.4000%	0.3950%	0.4025%	0.6900%	0.6650%	0.6575%	-0.4825%
Jan-66	0.6200%	-2.9700%	0.3800%	0.3950%	0.4025%	0.3988%	0.4050%	0.2400%	0.2213%	0.2150%	-3.3750%
Feb-66	-1.3100%	-4.1400%	0.3400%	0.3983%	0.4083%	0.4033%	0.4100%	-1.6500%	-1.7133%	-1.7200%	-4.5500%
Mar-66	-2.0500%	-0.4500%	0.4000%	0.4100%	0.4208%	0.4154%	0.4283%	-2.4500%	-2.4654%	-2.4783%	-0.8783%
Apr-66	2.2000%	1.7200%	0.3600%	0.4108%	0.4250%	0.4179%	0.4375%	1.8400%	1.7821%	1.7625%	1.2825%
May-66	-4.9200%	-2.9600%	0.4100%	0.4150%	0.4250%	0.4200%	0.4375%	-5.3300%	-5.3400%	-5.3575%	-3.3975%
Jun-66	-1.4600%	-1.8100%	0.3900%	0.4225%	0.4300%	0.4263%	0.4500%	-1.8500%	-1.8863%	-1.9100%	-2.2600%
Jul-66	-1.2000%	0.0900%	0.3800%	0.4300%	0.4375%	0.4338%	0.4542%	-1.5800%	-1.6338%	-1.6542%	-0.3642%
Aug-66	-7.2500%	-8.7500%	0.4300%	0.4425%	0.4483%	0.4454%	0.4650%	-7.6800%	-7.6954%	-7.7150%	-9.2150%
Sep-66	-0.5300%	4.7500%	0.4100%	0.4575%	0.4650%	0.4613%	0.4842%	-0.9400%	-0.9913%	-1.0142%	4.2658%
Oct-66	4.9400%	9.7000%	0.4000%	0.4508%	0.4583%	0.4546%	0.4783%	4.5400%	4.4854%	4.4617%	9.2217%
Nov-66	0.9500%	-0.7600%	0.3800%	0.4458%	0.4550%	0.4504%	0.4692%	0.5700%	0.4996%	0.4808%	-1.2292%
Dec-66	0.0200%	2.2100%	0.3900%	0.4492%	0.4567%	0.4529%	0.4725%	-0.3700%	-0.4329%	-0.4525%	1.7375%
Jan-67	7.9800%	2.7100%	0.4000%	0.4333%	0.4417%	0.4375%	0.4550%	7.5800%	7.5425%	7.5250%	2.2550%
Feb-67	0.7200%	-1.5700%	0.3400%	0.4192%	0.4317%	0.4254%	0.4400%	0.3800%	0.2946%	0.2800%	-2.0100%
Mar-67	4.0900%	1.9700%	0.3900%	0.4275%	0.4358%	0.4317%	0.4533%	3.7000%	3.6583%	3.6367%	1.5167%
Apr-67	4.3700%	2.0200%	0.3500%	0.4258%	0.4383%	0.4321%	0.4517%	4.0200%	3.9379%	3.9183%	1.5683%
May-67	-4.7700%	-5.0600%	0.4300%	0.4367%	0.4517%	0.4442%	0.4717%	-5.2000%	-5.2142%	-5.2417%	-5.5317%
Jun-67	1.9000%	-1.3100%	0.3900%	0.4533%	0.4692%	0.4613%	0.4867%	1.5100%	1.4388%	1.4133%	-1.7967%
Jul-67	4.6800%	2.0400%	0.4300%	0.4650%	0.4767%	0.4708%	0.4950%	4.2500%	4.2092%	4.1850%	1.5450%
Aug-67	-0.7000%	-0.6500%	0.4200%	0.4683%	0.4800%	0.4742%	0.4967%	-1.1200%	-1.1742%	-1.1967%	-1.1467%
Sep-67	3.4200%	-0.3700%	0.4000%	0.4708%	0.4892%	0.4800%	0.5042%	3.0200%	2.9400%	2.9158%	-0.8742%
Oct-67	-2.7600%	-5.7200%	0.4500%	0.4850%	0.5008%	0.4929%	0.5150%	-3.2100%	-3.2529%	-3.2750%	-6.2350%
Nov-67	0.6500%	2.9300%	0.4500%	0.5058%	0.5192%	0.5125%	0.5400%	0.2000%	0.1375%	0.1100%	2.3900%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Dec-67	2.7800%	2.8600%	0.4400%	0.5158%	0.5292%	0.5225%	0.5558%	2.3400%	2.2575%	2.2242%	2.3042%
Jan-68	-4.2500%	0.8200%	0.5000%	0.5142%	0.5242%	0.5192%	0.5450%	-4.7500%	-4.7692%	-4.7950%	0.2750%
Feb-68	-2.6100%	-2.3300%	0.4200%	0.5083%	0.5225%	0.5154%	0.5308%	-3.0300%	-3.1254%	-3.1408%	-2.8608%
Mar-68	1.1000%	-3.9900%	0.4300%	0.5092%	0.5233%	0.5163%	0.5342%	0.6700%	0.5838%	0.5658%	-4.5242%
Apr-68	8.3400%	2.7500%	0.4900%	0.5175%	0.5317%	0.5246%	0.5483%	7.8500%	7.8154%	7.7917%	2.2017%
May-68	1.6100%	-0.6200%	0.4600%	0.5225%	0.5400%	0.5313%	0.5517%	1.1500%	1.0788%	1.0583%	-1.1717%
Jun-68	1.0500%	8.0700%	0.4200%	0.5233%	0.5417%	0.5325%	0.5517%	0.6300%	0.5175%	0.4983%	7.5183%
Jul-68	-1.7200%	-0.7000%	0.4800%	0.5200%	0.5375%	0.5288%	0.5442%	-2.2000%	-2.2488%	-2.2642%	-1.2442%
Aug-68	1.6400%	0.0400%	0.4200%	0.5017%	0.5208%	0.5113%	0.5225%	1.2200%	1.1288%	1.1175%	-0.4825%
Sep-68	4.0000%	1.0000%	0.4400%	0.4975%	0.5192%	0.5083%	0.5225%	3.5600%	3.4917%	3.4775%	0.4775%
Oct-68	0.8700%	0.8600%	0.4500%	0.5075%	0.5267%	0.5171%	0.5333%	0.4200%	0.3529%	0.3367%	0.3267%
Nov-68	5.3100%	7.8100%	0.4300%	0.5158%	0.5375%	0.5267%	0.5492%	4.8800%	4.7833%	4.7608%	7.2608%
Dec-68	-4.0200%	-3.0900%	0.4900%	0.5375%	0.5550%	0.5463%	0.5725%	-4.5100%	-4.5663%	-4.5925%	-3.6625%
Jan-69	-0.6800%	1.6900%	0.5000%	0.5492%	0.5608%	0.5550%	0.5867%	-1.1800%	-1.2350%	-1.2667%	1.1033%
Feb-69	-4.2600%	-5.3200%	0.4600%	0.5550%	0.5642%	0.5596%	0.5942%	-4.7200%	-4.8196%	-4.8542%	-5.9142%
Mar-69	3.5900%	-0.9600%	0.4700%	0.5708%	0.5792%	0.5750%	0.6058%	3.1200%	3.0150%	2.9842%	-1.5658%
Apr-69	2.2900%	1.3900%	0.5500%	0.5742%	0.5850%	0.5796%	0.6083%	1.7400%	1.7104%	1.6817%	0.7817%
May-69	0.2600%	-0.0600%	0.4700%	0.5658%	0.5800%	0.5729%	0.5967%	-0.2100%	-0.3129%	-0.3367%	-0.6567%
Jun-69	-5.4200%	-5.1600%	0.5500%	0.5817%	0.5933%	0.5875%	0.6175%	-5.9700%	-6.0075%	-6.0375%	-5.7775%
Jul-69	-5.8700%	-3.6300%	0.5200%	0.5900%	0.6033%	0.5967%	0.6267%	-6.3900%	-6.4667%	-6.4967%	-4.2567%
Aug-69	4.5400%	-1.1400%	0.4800%	0.5808%	0.6025%	0.5917%	0.6200%	4.0600%	3.9483%	3.9200%	-1.7600%
Sep-69	-2.3600%	-3.7200%	0.5500%	0.5950%	0.6133%	0.6042%	0.6358%	-2.9100%	-2.9642%	-2.9958%	-4.3558%
Oct-69	4.5900%	7.9800%	0.5700%	0.6108%	0.6275%	0.6192%	0.6683%	4.0200%	3.9708%	3.9217%	7.3117%
Nov-69	-2.9700%	-5.8800%	0.4900%	0.6125%	0.6317%	0.6221%	0.6667%	-3.4600%	-3.5921%	-3.6367%	-6.5467%
Dec-69	-1.7700%	-0.9700%	0.6000%	0.6433%	0.6608%	0.6521%	0.7158%	-2.3700%	-2.4221%	-2.4858%	-1.6858%
Jan-70	-7.4300%	-4.5300%	0.5600%	0.6592%	0.6792%	0.6692%	0.7242%	-7.9900%	-8.0992%	-8.1542%	-5.2542%
Feb-70	5.5800%	10.5300%	0.5200%	0.6608%	0.6775%	0.6692%	0.7092%	5.0600%	4.9108%	4.8708%	9.8208%
Mar-70	0.4400%	2.3200%	0.5600%	0.6533%	0.6717%	0.6625%	0.6925%	-0.1200%	-0.2225%	-0.2525%	1.6275%
Apr-70	-8.7500%	-9.2900%	0.5400%	0.6525%	0.6692%	0.6608%	0.6925%	-9.2900%	-9.4108%	-9.4425%	-9.9825%
May-70	-5.7800%	-5.1500%	0.5500%	0.6758%	0.6867%	0.6813%	0.7225%	-6.3300%	-6.4613%	-6.5025%	-5.8725%
Jun-70	-4.6600%	-5.8200%	0.6400%	0.7067%	0.7150%	0.7108%	0.7533%	-5.3000%	-5.3708%	-5.4133%	-6.5733%
Jul-70	7.6900%	9.7300%	0.5900%	0.7033%	0.7200%	0.7117%	0.7550%	7.1000%	6.9783%	6.9350%	8.9750%
Aug-70	4.7800%	5.8100%	0.5700%	0.6775%	0.7075%	0.6925%	0.7400%	4.2100%	4.0875%	4.0400%	5.0700%
Sep-70	3.6200%	-1.1400%	0.5600%	0.6742%	0.7058%	0.6900%	0.7350%	3.0600%	2.9300%	2.8850%	-1.8750%
Oct-70	-0.8300%	-1.4900%	0.5500%	0.6692%	0.7033%	0.6863%	0.7300%	-1.3800%	-1.5163%	-1.5600%	-2.2200%
Nov-70	5.0600%	9.7500%	0.5800%	0.6708%	0.7017%	0.6863%	0.7325%	4.4800%	4.3738%	4.3275%	9.0175%
Dec-70	5.9700%	7.3500%	0.5300%	0.6367%	0.6775%	0.6571%	0.7067%	5.4400%	5.3129%	5.2633%	6.6433%
Jan-71	4.3200%	2.5700%	0.5100%	0.6133%	0.6583%	0.6358%	0.6792%	3.8100%	3.6842%	3.6408%	1.8908%
Feb-71	1.1700%	-2.7700%	0.4600%	0.5900%	0.6392%	0.6146%	0.6575%	0.7100%	0.5554%	0.5125%	-3.4275%
Mar-71	3.9400%	3.3100%	0.5600%	0.6008%	0.6442%	0.6225%	0.6708%	3.3800%	3.3175%	3.2692%	2.6392%
Apr-71	3.8900%	-3.4900%	0.4800%	0.6042%	0.6450%	0.6246%	0.6725%	3.4100%	3.2654%	3.2175%	-4.1625%
May-71	-3.9100%	-3.5100%	0.4700%	0.6275%	0.6533%	0.6404%	0.6950%	-4.3800%	-4.5504%	-4.6050%	-4.2050%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Jun-71	0.3300%	3.9800%	0.5600%	0.6367%	0.6633%	0.6500%	0.7042%	-0.2300%	-0.3200%	-0.3742%	3.2758%
Jul-71	-3.8700%	-2.2500%	0.5200%	0.6367%	0.6633%	0.6500%	0.7042%	-4.3900%	-4.5200%	-4.5742%	-2.9542%
Aug-71	3.8800%	-2.4700%	0.5500%	0.6325%	0.6608%	0.6467%	0.7000%	3.3300%	3.2333%	3.1800%	-3.1700%
Sep-71	-0.4400%	-1.4600%	0.5000%	0.6200%	0.6508%	0.6354%	0.6817%	-0.9400%	-1.0754%	-1.1217%	-2.1417%
Oct-71	-3.9200%	1.7000%	0.4700%	0.6158%	0.6408%	0.6283%	0.6750%	-4.3900%	-4.5483%	-4.5950%	1.0250%
Nov-71	0.0200%	-0.5500%	0.5100%	0.6050%	0.6300%	0.6175%	0.6633%	-0.4900%	-0.5975%	-0.6433%	-1.2133%
Dec-71	8.8800%	8.0600%	0.5000%	0.6042%	0.6308%	0.6175%	0.6583%	8.3800%	8.2625%	8.2217%	7.4017%
Jan-72	2.0600%	-0.7400%	0.5000%	0.5992%	0.6267%	0.6129%	0.6492%	1.5600%	1.4471%	1.4108%	-1.3892%
Feb-72	2.7700%	-2.4000%	0.4700%	0.6058%	0.6267%	0.6163%	0.6483%	2.3000%	2.1538%	2.1217%	-3.0483%
Mar-72	0.8300%	-0.3600%	0.4900%	0.6033%	0.6275%	0.6154%	0.6475%	0.3400%	0.2146%	0.1825%	-1.0075%
Apr-72	0.6800%	-2.7700%	0.4800%	0.6083%	0.6308%	0.6196%	0.6517%	0.2000%	0.0604%	0.0283%	-3.4217%
May-72	1.9700%	-0.1700%	0.5500%	0.6083%	0.6300%	0.6192%	0.6533%	1.4200%	1.3508%	1.3167%	-0.8233%
Jun-72	-1.9400%	-2.1000%	0.4900%	0.6025%	0.6258%	0.6142%	0.6475%	-2.4300%	-2.5542%	-2.5875%	-2.7475%
Jul-72	0.4800%	-0.1400%	0.5100%	0.6008%	0.6250%	0.6129%	0.6517%	-0.0300%	-0.1329%	-0.1717%	-0.7917%
Aug-72	3.6900%	5.7400%	0.4900%	0.5992%	0.6192%	0.6092%	0.6367%	3.2000%	3.0808%	3.0533%	5.1033%
Sep-72	-0.2500%	0.2700%	0.4700%	0.6017%	0.6175%	0.6096%	0.6342%	-0.7200%	-0.8596%	-0.8842%	-0.3642%
Oct-72	1.1800%	6.5100%	0.5200%	0.6008%	0.6208%	0.6108%	0.6383%	0.6600%	0.5692%	0.5417%	5.8717%
Nov-72	4.8100%	6.3900%	0.4800%	0.5933%	0.6158%	0.6046%	0.6333%	4.3300%	4.2054%	4.1767%	5.7567%
Dec-72	1.4200%	-1.7400%	0.4500%	0.5900%	0.6133%	0.6017%	0.6233%	0.9700%	0.8183%	0.7967%	-2.3633%
Jan-73	-1.4900%	-4.3900%	0.5400%	0.5958%	0.6142%	0.6050%	0.6267%	-2.0300%	-2.0950%	-2.1167%	-5.0167%
Feb-73	-3.5200%	-2.3400%	0.5100%	0.6017%	0.6225%	0.6121%	0.6350%	-4.0300%	-4.1321%	-4.1550%	-2.9750%
Mar-73	0.0800%	-1.3500%	0.5600%	0.6075%	0.6242%	0.6158%	0.6383%	-0.4800%	-0.5358%	-0.5583%	-1.9883%
Apr-73	-3.8300%	-0.4900%	0.5700%	0.6050%	0.6242%	0.6146%	0.6358%	-4.4000%	-4.4446%	-4.4658%	-1.1258%
May-73	-1.6300%	0.6700%	0.5800%	0.6075%	0.6242%	0.6158%	0.6358%	-2.2100%	-2.2458%	-2.2658%	0.0342%
Jun-73	-0.4000%	-1.6700%	0.5500%	0.6142%	0.6292%	0.6217%	0.6425%	-0.9500%	-1.0217%	-1.0425%	-2.3125%
Jul-73	4.0700%	-1.9900%	0.6100%	0.6208%	0.6367%	0.6288%	0.6517%	3.4600%	3.4413%	3.4183%	-2.6417%
Aug-73	-3.4100%	-2.8400%	0.6200%	0.6400%	0.6533%	0.6467%	0.6700%	-4.0300%	-4.0567%	-4.0800%	-3.5100%
Sep-73	4.2700%	7.7100%	0.5500%	0.6358%	0.6550%	0.6454%	0.6700%	3.7200%	3.6246%	3.6000%	7.0400%
Oct-73	0.1700%	-3.8800%	0.6300%	0.6333%	0.6533%	0.6433%	0.6683%	-0.4600%	-0.4733%	-0.4983%	-4.5483%
Nov-73	-11.0900%	-11.7200%	0.5600%	0.6392%	0.6583%	0.6488%	0.6792%	-11.6500%	-11.7388%	-11.7692%	-12.3992%
Dec-73	1.9800%	3.7500%	0.6000%	0.6400%	0.6600%	0.6500%	0.6867%	1.3800%	1.3300%	1.2933%	3.0633%
Jan-74	-0.7200%	4.1800%	0.6100%	0.6525%	0.6667%	0.6596%	0.6967%	-1.3300%	-1.3796%	-1.4167%	3.4833%
Feb-74	-0.0700%	0.6000%	0.5500%	0.6542%	0.6708%	0.6625%	0.7017%	-0.6200%	-0.7325%	-0.7717%	-0.1017%
Mar-74	-2.0500%	-3.8900%	0.5900%	0.6675%	0.6817%	0.6746%	0.7050%	-2.6400%	-2.7246%	-2.7550%	-4.5950%
Apr-74	-3.5900%	-12.9600%	0.6800%	0.6875%	0.7025%	0.6950%	0.7308%	-4.2700%	-4.2850%	-4.3208%	-13.6908%
May-74	-3.0200%	-4.8400%	0.6800%	0.6975%	0.7150%	0.7063%	0.7500%	-3.7000%	-3.7263%	-3.7700%	-5.5900%
Jun-74	-1.1300%	-5.7000%	0.6100%	0.7058%	0.7292%	0.7175%	0.7767%	-1.7400%	-1.8475%	-1.9067%	-6.4767%
Jul-74	-7.4200%	-0.8900%	0.7200%	0.7267%	0.7508%	0.7388%	0.8050%	-8.1400%	-8.1588%	-8.2250%	-1.6950%
Aug-74	-8.6400%	-8.7100%	0.6500%	0.7500%	0.7733%	0.7617%	0.8358%	-9.2900%	-9.4017%	-9.4758%	-9.5458%
Sep-74	-11.5200%	-0.8600%	0.7100%	0.7700%	0.8050%	0.7875%	0.8708%	-12.2300%	-12.3075%	-12.3908%	-1.7308%
Oct-74	16.8100%	11.9900%	0.7000%	0.7725%	0.8033%	0.7879%	0.8983%	16.1100%	16.0221%	15.9117%	11.0917%
Nov-74	-4.8900%	-1.1900%	0.6200%	0.7408%	0.7783%	0.7596%	0.8717%	-5.5100%	-5.6496%	-5.7617%	-2.0617%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Dec-74	-1.5600%	0.4400%	0.6700%	0.7408%	0.7667%	0.7538%	0.8558%	-2.2300%	-2.3138%	-2.4158%	-0.4158%
Jan-75	12.7200%	18.9700%	0.6800%	0.7358%	0.7608%	0.7483%	0.8642%	12.0400%	11.9717%	11.8558%	18.1058%
Feb-75	6.3800%	1.4300%	0.6000%	0.7183%	0.7425%	0.7304%	0.8325%	5.7800%	5.6496%	5.5475%	0.5975%
Mar-75	2.5400%	-2.1600%	0.6600%	0.7225%	0.7433%	0.7329%	0.8100%	1.8800%	1.8071%	1.7300%	-2.9700%
Apr-75	5.1000%	-1.4000%	0.6700%	0.7458%	0.7658%	0.7558%	0.8383%	4.4300%	4.3442%	4.2617%	-2.2383%
May-75	4.7600%	8.6600%	0.6700%	0.7417%	0.7700%	0.7558%	0.8525%	4.0900%	4.0042%	3.9075%	7.8075%
Jun-75	4.7700%	10.6700%	0.7000%	0.7308%	0.7608%	0.7458%	0.8417%	4.0700%	4.0242%	3.9283%	9.8283%
Jul-75	-6.4400%	-5.1000%	0.6800%	0.7367%	0.7608%	0.7488%	0.8342%	-7.1200%	-7.1888%	-7.2742%	-5.9342%
Aug-75	-1.7600%	-2.1200%	0.6500%	0.7458%	0.7692%	0.7575%	0.8433%	-2.4100%	-2.5175%	-2.6033%	-2.9633%
Sep-75	-3.1200%	-0.4900%	0.7300%	0.7458%	0.7792%	0.7625%	0.8492%	-3.8500%	-3.8825%	-3.9692%	-1.3392%
Oct-75	6.5300%	7.0800%	0.7200%	0.7383%	0.7767%	0.7575%	0.8467%	5.8100%	5.7725%	5.6833%	6.2333%
Nov-75	2.8200%	3.5000%	0.6100%	0.7317%	0.7692%	0.7504%	0.8367%	2.2100%	2.0696%	1.9833%	2.6633%
Dec-75	-0.8100%	0.7700%	0.7500%	0.7325%	0.7713%	0.7519%	0.8425%	-1.5600%	-1.5619%	-1.6525%	-0.0725%
Jan-76	12.1700%	8.9400%	0.6500%	0.7167%	0.7608%	0.7388%	0.8250%	11.5200%	11.4313%	11.3450%	8.1150%
Feb-76	-0.8400%	-3.5600%	0.6100%	0.7125%	0.7517%	0.7321%	0.8092%	-1.4500%	-1.5721%	-1.6492%	-4.3692%
Mar-76	3.3700%	1.0000%	0.7100%	0.7100%	0.7508%	0.7304%	0.8058%	2.6600%	2.6396%	2.5642%	0.1942%
Apr-76	-0.7800%	0.3700%	0.6400%	0.7000%	0.7408%	0.7204%	0.7942%	-1.4200%	-1.5004%	-1.5742%	-0.4242%
May-76	-1.1100%	-1.3900%	0.5900%	0.7150%	0.7433%	0.7292%	0.7958%	-1.7000%	-1.8392%	-1.9058%	-2.1858%
Jun-76	4.4300%	3.3700%	0.7300%	0.7183%	0.7408%	0.7296%	0.7950%	3.7000%	3.7004%	3.6350%	2.5750%
Jul-76	-0.4800%	3.4100%	0.6500%	0.7133%	0.7342%	0.7238%	0.7808%	-1.1300%	-1.2038%	-1.2608%	2.6292%
Aug-76	-0.1800%	3.8300%	0.6900%	0.7042%	0.7217%	0.7129%	0.7608%	-0.8700%	-0.8929%	-0.9408%	3.0692%
Sep-76	2.5800%	3.8100%	0.6400%	0.6983%	0.7117%	0.7050%	0.7417%	1.9400%	1.8750%	1.8383%	3.0683%
Oct-76	-1.8600%	-0.2100%	0.6100%	0.6933%	0.7067%	0.7000%	0.7325%	-2.4700%	-2.5600%	-2.5925%	-0.9425%
Nov-76	-0.4100%	2.6800%	0.6600%	0.6875%	0.7050%	0.6963%	0.7300%	-1.0700%	-1.1063%	-1.1400%	1.9500%
Dec-76	5.6100%	6.3100%	0.6300%	0.6650%	0.6871%	0.6760%	0.7183%	4.9800%	4.9340%	4.8917%	5.5917%
Jan-77	-4.7300%	0.3500%	0.5900%	0.6633%	0.6800%	0.6717%	0.7175%	-5.3200%	-5.4017%	-5.4475%	-0.3675%
Feb-77	-1.8200%	-3.7200%	0.5700%	0.6700%	0.6883%	0.6792%	0.7208%	-2.3900%	-2.4992%	-2.5408%	-4.4408%
Mar-77	-1.0500%	1.0200%	0.6500%	0.6750%	0.6900%	0.6825%	0.7250%	-1.7000%	-1.7325%	-1.7750%	0.2950%
Apr-77	0.4200%	2.0900%	0.6100%	0.6700%	0.6900%	0.6800%	0.7258%	-0.1900%	-0.2600%	-0.3058%	1.3642%
May-77	-1.9600%	2.1100%	0.6700%	0.6708%	0.6900%	0.6804%	0.7258%	-2.6300%	-2.6404%	-2.6858%	1.3842%
Jun-77	4.9400%	5.3100%	0.6200%	0.6625%	0.6825%	0.6725%	0.7150%	4.3200%	4.2675%	4.2250%	4.5950%
Jul-77	-1.2400%	1.6400%	0.5900%	0.6617%	0.6767%	0.6692%	0.7092%	-1.8300%	-1.9092%	-1.9492%	0.9308%
Aug-77	-1.7200%	-3.5300%	0.6700%	0.6650%	0.6808%	0.6729%	0.7075%	-2.3900%	-2.3929%	-2.4275%	-4.2375%
Sep-77	0.1600%	2.4700%	0.6100%	0.6600%	0.6792%	0.6696%	0.7050%	-0.4500%	-0.5096%	-0.5450%	1.7650%
Oct-77	-3.9000%	-2.9600%	0.6300%	0.6700%	0.6883%	0.6792%	0.7175%	-4.5300%	-4.5792%	-4.6175%	-3.6775%
Nov-77	3.1600%	3.8100%	0.6300%	0.6733%	0.6950%	0.6842%	0.7200%	2.5300%	2.4758%	2.4400%	3.0900%
Dec-77	0.7500%	0.1900%	0.6200%	0.6825%	0.7004%	0.6915%	0.7200%	0.1300%	0.0585%	0.0300%	-0.5300%
Jan-78	-5.7400%	-5.3300%	0.6900%	0.7008%	0.7158%	0.7083%	0.7433%	-6.4300%	-6.4483%	-6.4833%	-6.0733%
Feb-78	-2.0300%	-0.6200%	0.6000%	0.7058%	0.7208%	0.7133%	0.7475%	-2.6300%	-2.7433%	-2.7775%	-1.3675%
Mar-78	2.9400%	3.0900%	0.6900%	0.7058%	0.7217%	0.7138%	0.7483%	2.2500%	2.2263%	2.1917%	2.3417%
Apr-78	9.0200%	1.0600%	0.6300%	0.7133%	0.7275%	0.7204%	0.7575%	8.3900%	8.2996%	8.2625%	0.3025%
May-78	0.9200%	0.4300%	0.7500%	0.7242%	0.7367%	0.7304%	0.7683%	0.1700%	0.1896%	0.1517%	-0.3383%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Jun-78	-1.3800%	0.3600%	0.6900%	0.7300%	0.7458%	0.7379%	0.7833%	-2.0700%	-2.1179%	-2.1633%	-0.4233%
Jul-78	5.8300%	3.1600%	0.7300%	0.7400%	0.7558%	0.7479%	0.7925%	5.1000%	5.0821%	5.0375%	2.3675%
Aug-78	3.0100%	-0.0300%	0.7000%	0.7242%	0.7467%	0.7354%	0.7767%	2.3100%	2.2746%	2.2333%	-0.8067%
Sep-78	-0.3200%	-0.5600%	0.6500%	0.7242%	0.7433%	0.7338%	0.7733%	-0.9700%	-1.0538%	-1.0933%	-1.3333%
Oct-78	-8.7200%	-6.8400%	0.7300%	0.7408%	0.7558%	0.7483%	0.7883%	-9.4500%	-9.4683%	-9.5083%	-7.6283%
Nov-78	2.1500%	3.5600%	0.7100%	0.7525%	0.7700%	0.7613%	0.8067%	1.4400%	1.3888%	1.3433%	2.7533%
Dec-78	1.9600%	-1.4900%	0.6800%	0.7633%	0.7775%	0.7704%	0.8083%	1.2800%	1.1896%	1.1517%	-2.2983%
Jan-79	4.4300%	6.9200%	0.7900%	0.7708%	0.7900%	0.7804%	0.8250%	3.6400%	3.6496%	3.6050%	6.0950%
Feb-79	-3.2100%	-2.1200%	0.6500%	0.7717%	0.7917%	0.7817%	0.8200%	-3.8600%	-3.9917%	-4.0300%	-2.9400%
Mar-79	5.9600%	1.9600%	0.7400%	0.7808%	0.8008%	0.7908%	0.8367%	5.2200%	5.1692%	5.1233%	1.1233%
Apr-79	0.6300%	-2.4900%	0.7600%	0.7817%	0.8042%	0.7929%	0.8417%	-0.1300%	-0.1629%	-0.2117%	-3.3317%
May-79	-2.1700%	1.5000%	0.7700%	0.7917%	0.8217%	0.8067%	0.8583%	-2.9400%	-2.9767%	-3.0283%	0.6417%
Jun-79	4.3500%	3.8600%	0.7100%	0.7742%	0.8050%	0.7896%	0.8450%	3.6400%	3.5604%	3.5050%	3.0150%
Jul-79	1.3400%	3.4200%	0.7600%	0.7667%	0.7908%	0.7788%	0.8317%	0.5800%	0.5613%	0.5083%	2.5883%
Aug-79	5.7700%	1.0200%	0.7300%	0.7692%	0.7942%	0.7817%	0.8450%	5.0400%	4.9883%	4.9250%	0.1750%
Sep-79	0.4300%	-1.7700%	0.6800%	0.7867%	0.8083%	0.7975%	0.8633%	-0.2500%	-0.3675%	-0.4333%	-2.6333%
Oct-79	-6.4000%	-5.0500%	0.8200%	0.8442%	0.8717%	0.8579%	0.9500%	-7.2200%	-7.2579%	-7.3500%	-6.0000%
Nov-79	4.7500%	6.0700%	0.8300%	0.8967%	0.9350%	0.9158%	0.9908%	3.9200%	3.8342%	3.7592%	5.0792%
Dec-79	2.1400%	0.2200%	0.8300%	0.8950%	0.9292%	0.9121%	1.0125%	1.3100%	1.2279%	1.1275%	-0.7925%
Jan-80	6.2200%	-0.2300%	0.8300%	0.9242%	0.9633%	0.9438%	1.0177%	5.3900%	5.2763%	5.2023%	-1.2477%
Feb-80	-0.0100%	-2.4700%	0.8400%	1.0317%	1.0608%	1.0463%	1.1028%	-0.8500%	-1.0563%	-1.1128%	-3.5728%
Mar-80	-9.7200%	-5.2900%	0.9900%	1.0800%	1.1258%	1.1029%	1.2158%	-10.7100%	-10.8229%	-10.9358%	-6.5058%
Apr-80	4.6200%	11.8600%	1.0000%	1.0033%	1.0883%	1.0458%	1.1908%	3.6200%	3.5742%	3.4292%	10.6692%
May-80	5.1500%	3.2300%	0.8700%	0.9158%	0.9925%	0.9542%	1.0613%	4.2800%	4.1958%	4.0887%	2.1687%
Jun-80	3.1600%	3.3700%	0.8600%	0.8817%	0.9492%	0.9154%	1.0331%	2.3000%	2.2446%	2.1269%	2.3369%
Jul-80	6.9600%	-0.4100%	0.8400%	0.9225%	0.9525%	0.9375%	1.0127%	6.1200%	6.0225%	5.9473%	-1.4227%
Aug-80	1.0100%	-1.3900%	0.8100%	0.9700%	1.0075%	0.9888%	1.0550%	0.2000%	0.0212%	-0.0450%	-2.4450%
Sep-80	2.9400%	-1.1400%	0.9700%	1.0017%	1.0433%	1.0225%	1.1077%	1.9700%	1.9175%	1.8323%	-2.2477%
Oct-80	2.0200%	2.7400%	0.9700%	1.0258%	1.0567%	1.0413%	1.1280%	1.0500%	0.9788%	0.8920%	1.6120%
Nov-80	10.6500%	5.0100%	0.9100%	1.0808%	1.1117%	1.0963%	1.1677%	9.7400%	9.5538%	9.4823%	3.8423%
Dec-80	-3.0200%	-0.1400%	1.0800%	1.1008%	1.1483%	1.1246%	1.2217%	-4.1000%	-4.1446%	-4.2417%	-1.3617%
Jan-81	-4.1800%	-1.8600%	0.9400%	1.0675%	1.1267%	1.0971%	1.1895%	-5.1200%	-5.2771%	-5.3695%	-3.0495%
Feb-81	1.7400%	-2.2400%	0.8800%	1.1125%	1.1575%	1.1350%	1.2233%	0.8600%	0.6050%	0.5167%	-3.4633%
Mar-81	4.0000%	4.2000%	1.1100%	1.1108%	1.1583%	1.1346%	1.2604%	2.8900%	2.8654%	2.7396%	2.9396%
Apr-81	-1.9300%	-0.9600%	1.0100%	1.1567%	1.1992%	1.1779%	1.2708%	-2.9400%	-3.1079%	-3.2008%	-2.2308%
May-81	0.2600%	2.9100%	1.0400%	1.1933%	1.2400%	1.2167%	1.3430%	-0.7800%	-0.9567%	-1.0830%	1.5670%
Jun-81	-0.6300%	2.7200%	1.0900%	1.1458%	1.2008%	1.1733%	1.3160%	-1.7200%	-1.8033%	-1.9460%	1.4040%
Jul-81	0.2100%	3.4100%	1.0900%	1.1983%	1.2325%	1.2154%	1.3393%	-0.8800%	-1.0054%	-1.1293%	2.0707%
Aug-81	-5.7700%	-0.2400%	1.1000%	1.2408%	1.2850%	1.2629%	1.3706%	-6.8700%	-7.0329%	-7.1406%	-1.6106%
Sep-81	-4.9300%	-4.0900%	1.1400%	1.2908%	1.3292%	1.3100%	1.4192%	-6.0700%	-6.2400%	-6.3492%	-5.5092%
Oct-81	5.4000%	6.1700%	1.1700%	1.2833%	1.3183%	1.3008%	1.4379%	4.2300%	4.0992%	3.9621%	4.7321%
Nov-81	4.1300%	4.8100%	1.1300%	1.1850%	1.2475%	1.2163%	1.3679%	3.0000%	2.9138%	2.7621%	3.4421%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Dec-81	-2.5600%	-3.0500%	1.0000%	1.1858%	1.2500%	1.2179%	1.3468%	-3.5600%	-3.7779%	-3.9068%	-4.3968%
Jan-82	-1.3100%	0.3700%	1.0800%	1.2650%	1.3125%	1.2888%	1.4000%	-2.3900%	-2.5988%	-2.7100%	-1.0300%
Feb-82	-5.5900%	-0.3500%	1.0300%	1.2725%	1.3100%	1.2913%	1.4096%	-6.6200%	-6.8813%	-6.9996%	-1.7596%
Mar-82	-0.5200%	1.6800%	1.2400%	1.2150%	1.2675%	1.2413%	1.3740%	-1.7600%	-1.7613%	-1.8940%	0.3060%
Apr-82	4.5200%	5.4800%	1.1200%	1.2050%	1.2417%	1.2233%	1.3665%	3.4000%	3.2967%	3.1535%	4.1135%
May-82	-3.4100%	-1.8700%	1.0100%	1.1883%	1.2308%	1.2096%	1.3400%	-4.4200%	-4.6196%	-4.7500%	-3.2100%
Jun-82	-1.5000%	-1.6100%	1.2000%	1.2342%	1.2717%	1.2529%	1.3617%	-2.7000%	-2.7529%	-2.8617%	-2.9717%
Jul-82	-1.7800%	-1.9800%	1.1400%	1.2175%	1.2675%	1.2425%	1.3717%	-2.9200%	-3.0225%	-3.1517%	-3.3517%
Aug-82	12.1400%	12.1100%	1.1200%	1.1425%	1.2067%	1.1746%	1.3267%	11.0200%	10.9654%	10.8133%	10.7833%
Sep-82	1.2500%	0.5200%	1.0000%	1.0783%	1.1433%	1.1108%	1.2875%	0.2500%	0.1392%	-0.0375%	-0.7675%
Oct-82	11.5100%	6.5900%	0.9100%	1.0100%	1.0808%	1.0454%	1.2487%	10.6000%	10.4646%	10.2613%	5.3413%
Nov-82	4.0400%	0.1700%	0.9500%	0.9733%	1.0425%	1.0079%	1.2052%	3.0900%	3.0321%	2.8348%	-1.0352%
Dec-82	1.9300%	3.6000%	0.9300%	0.9858%	1.0367%	1.0113%	1.2021%	1.0000%	0.9188%	0.7279%	2.3979%
Jan-83	3.7200%	3.7200%	0.8700%	0.9825%	1.0292%	1.0058%	1.1868%	2.8500%	2.7142%	2.5333%	2.5333%
Feb-83	2.2900%	-0.0500%	0.8100%	1.0008%	1.0483%	1.0246%	1.1898%	1.4800%	1.2654%	1.1002%	-1.2398%
Mar-83	3.6900%	0.1700%	0.8900%	0.9775%	1.0267%	1.0021%	1.1690%	2.8000%	2.6879%	2.5211%	-0.9990%
Apr-83	7.8800%	5.7100%	0.8500%	0.9592%	1.0050%	0.9821%	1.1365%	7.0300%	6.8979%	6.7435%	4.5735%
May-83	-0.8700%	1.2400%	0.9100%	0.9550%	0.9958%	0.9754%	1.1243%	-1.7800%	-1.8454%	-1.9943%	0.1157%
Jun-83	3.8900%	-1.2300%	0.9000%	0.9783%	1.0125%	0.9954%	1.1373%	2.9900%	2.8946%	2.7527%	-2.3673%
Jul-83	-2.9500%	3.3900%	0.8800%	1.0125%	1.0325%	1.0225%	1.1310%	-3.8300%	-3.9725%	-4.0810%	2.2590%
Aug-83	1.5000%	0.4000%	1.0300%	1.0425%	1.0600%	1.0513%	1.1306%	0.4700%	0.4488%	0.3694%	-0.7306%
Sep-83	1.3800%	4.4500%	0.9600%	1.0308%	1.0517%	1.0413%	1.1197%	0.4200%	0.3388%	0.2603%	3.3303%
Oct-83	-1.1600%	5.3200%	0.9500%	1.0208%	1.0408%	1.0308%	1.1044%	-2.1100%	-2.1908%	-2.2644%	4.2156%
Nov-83	2.1100%	-2.0400%	0.9400%	1.0342%	1.0508%	1.0425%	1.1153%	1.1700%	1.0675%	0.9947%	-3.1553%
Dec-83	-0.5200%	-2.2600%	0.9400%	1.0475%	1.0633%	1.0554%	1.1264%	-1.4600%	-1.5754%	-1.6464%	-3.3864%
Jan-84	-0.5600%	4.8200%	1.0300%	1.0167%	1.0592%	1.0379%	1.1167%	-1.5900%	-1.5979%	-1.6767%	3.7033%
Feb-84	-3.5200%	-4.1100%	0.9200%	1.0067%	1.0583%	1.0325%	1.1164%	-4.4400%	-4.5525%	-4.6364%	-5.2264%
Mar-84	1.7300%	-0.5500%	0.9800%	1.0475%	1.1017%	1.0746%	1.1477%	0.7500%	0.6554%	0.5823%	-1.6977%
Apr-84	0.9500%	1.5900%	1.0400%	1.0675%	1.1233%	1.0954%	1.1774%	-0.0900%	-0.1454%	-0.2274%	0.4126%
May-84	-5.5400%	-2.3000%	1.0300%	1.1067%	1.1750%	1.1408%	1.2400%	-6.5700%	-6.6808%	-6.7800%	-3.5400%
Jun-84	2.1700%	0.6900%	1.0600%	1.1292%	1.1942%	1.1617%	1.2581%	1.1100%	1.0083%	0.9119%	-0.5681%
Jul-84	-1.2400%	4.3300%	1.1600%	1.1200%	1.1767%	1.1483%	1.2384%	-2.4000%	-2.3883%	-2.4784%	3.0916%
Aug-84	11.0400%	6.4600%	1.0600%	1.0725%	1.1225%	1.0975%	1.2024%	9.9800%	9.9425%	9.8376%	5.2576%
Sep-84	0.0200%	4.3800%	0.9400%	1.0550%	1.1058%	1.0804%	1.1823%	-0.9200%	-1.0604%	-1.1623%	3.1977%
Oct-84	0.3900%	2.7200%	1.0800%	1.0525%	1.0925%	1.0725%	1.1525%	-0.6900%	-0.6825%	-0.7625%	1.5675%
Nov-84	-1.1200%	2.7000%	0.9100%	1.0242%	1.0550%	1.0396%	1.1039%	-2.0300%	-2.1596%	-2.2239%	1.5961%
Dec-84	2.6300%	3.1600%	0.9800%	1.0108%	1.0417%	1.0263%	1.0891%	1.6500%	1.6038%	1.5409%	2.0709%
Jan-85	7.7900%	2.3500%	0.9600%	1.0067%	1.0358%	1.0213%	1.0822%	6.8300%	6.7688%	6.7078%	1.2678%
Feb-85	1.2200%	1.9300%	0.8200%	1.0108%	1.0408%	1.0258%	1.0862%	0.4000%	0.1942%	0.1338%	0.8438%
Mar-85	0.0700%	3.6200%	0.9400%	1.0467%	1.0758%	1.0613%	1.1501%	-0.8700%	-0.9913%	-1.0801%	2.4699%
Apr-85	-0.0900%	2.0700%	1.0200%	1.0192%	1.0575%	1.0383%	1.1322%	-1.1100%	-1.1283%	-1.2222%	0.9378%
May-85	5.7800%	6.0600%	0.9700%	0.9767%	1.0250%	1.0008%	1.0978%	4.8100%	4.7792%	4.6822%	4.9622%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Jun-85	1.5700%	2.7900%	0.8000%	0.9117%	0.9550%	0.9333%	1.0120%	0.7700%	0.6367%	0.5580%	1.7780%
Jul-85	-0.1500%	-4.2700%	0.9400%	0.9142%	0.9517%	0.9329%	1.0054%	-1.0900%	-1.0829%	-1.1554%	-5.2754%
Aug-85	-0.8500%	1.8100%	0.8500%	0.9208%	0.9558%	0.9383%	1.0114%	-1.7000%	-1.7883%	-1.8614%	0.7986%
Sep-85	-3.1300%	-5.2100%	0.8800%	0.9225%	0.9550%	0.9388%	1.0110%	-4.0100%	-4.0688%	-4.1410%	-6.2210%
Oct-85	4.6200%	6.3800%	0.8900%	0.9183%	0.9542%	0.9363%	1.0012%	3.7300%	3.6838%	3.6188%	5.3788%
Nov-85	6.8600%	5.2200%	0.8100%	0.8792%	0.9225%	0.9008%	0.9595%	6.0500%	5.9592%	5.9005%	4.2605%
Dec-85	4.8400%	6.9400%	0.8600%	0.8467%	0.8858%	0.8663%	0.9173%	3.9800%	3.9738%	3.9227%	6.0227%
Jan-86	0.5600%	2.9300%	0.7900%	0.8375%	0.8717%	0.8546%	0.8999%	-0.2300%	-0.2946%	-0.3399%	2.0301%
Feb-86	7.4700%	6.2300%	0.7300%	0.8058%	0.8442%	0.8250%	0.8597%	6.7400%	6.6450%	6.6103%	5.3703%
Mar-86	5.5800%	5.1400%	0.7100%	0.7500%	0.7908%	0.7704%	0.7928%	4.8700%	4.8096%	4.7873%	4.3473%
Apr-86	-1.1300%	-3.3300%	0.6300%	0.7325%	0.7675%	0.7500%	0.7609%	-1.7600%	-1.8800%	-1.8909%	-4.0909%
May-86	5.3200%	5.2500%	0.6200%	0.7575%	0.7858%	0.7717%	0.7972%	4.7000%	4.5483%	4.5228%	4.4528%
Jun-86	1.6900%	5.9700%	0.7000%	0.7608%	0.7908%	0.7758%	0.8046%	0.9900%	0.9142%	0.8854%	5.1654%
Jul-86	-5.5900%	2.8300%	0.6600%	0.7400%	0.7733%	0.7567%	0.7795%	-6.2500%	-6.3467%	-6.3695%	2.0505%
Aug-86	7.4200%	8.8400%	0.6300%	0.7267%	0.7683%	0.7475%	0.7756%	6.7900%	6.6725%	6.6444%	8.0644%
Sep-86	-8.2700%	-11.3700%	0.6500%	0.7408%	0.7800%	0.7604%	0.7919%	-8.9200%	-9.0304%	-9.0619%	-12.1619%
Oct-86	5.7700%	5.0500%	0.6900%	0.7383%	0.7775%	0.7579%	0.7940%	5.0800%	5.0121%	4.9761%	4.2561%
Nov-86	2.4300%	2.1100%	0.5900%	0.7233%	0.7667%	0.7450%	0.7745%	1.8400%	1.6850%	1.6555%	1.3355%
Dec-86	-2.5500%	-2.5400%	0.7000%	0.7075%	0.7517%	0.7296%	0.7600%	-3.2500%	-3.2796%	-3.3100%	-3.3000%
Jan-87	13.4700%	9.8400%	0.6400%	0.6967%	0.7383%	0.7175%	0.7454%	12.8300%	12.7525%	12.7246%	9.0946%
Feb-87	3.9500%	-3.0100%	0.5900%	0.6983%	0.7400%	0.7192%	0.7503%	3.3600%	3.2308%	3.1997%	-3.7603%
Mar-87	2.8900%	-1.8900%	0.6600%	0.6967%	0.7367%	0.7167%	0.7441%	2.2300%	2.1733%	2.1459%	-2.6341%
Apr-87	-0.8900%	-4.1400%	0.6500%	0.7375%	0.7625%	0.7500%	0.7794%	-1.5400%	-1.6400%	-1.6694%	-4.9194%
May-87	0.8700%	-0.6400%	0.6600%	0.7775%	0.7992%	0.7883%	0.8221%	0.2100%	0.0817%	0.0479%	-1.4621%
Jun-87	5.0500%	4.3900%	0.7500%	0.7767%	0.8042%	0.7904%	0.8349%	4.3000%	4.2596%	4.2152%	3.5552%
Jul-87	5.0700%	-0.2500%	0.7300%	0.7850%	0.8042%	0.7946%	0.8446%	4.3400%	4.2754%	4.2254%	-1.0946%
Aug-87	3.7300%	5.2700%	0.7500%	0.8058%	0.8217%	0.8138%	0.8703%	2.9800%	2.9163%	2.8597%	4.3997%
Sep-87	-2.1900%	0.2100%	0.7500%	0.8483%	0.8625%	0.8554%	0.9314%	-2.9400%	-3.0454%	-3.1214%	-0.7214%
Oct-87	-21.5400%	-7.0500%	0.7900%	0.8767%	0.8950%	0.8858%	0.9466%	-22.3300%	-22.4258%	-22.4866%	-7.9966%
Nov-87	-8.2400%	-5.5500%	0.7500%	0.8342%	0.8558%	0.8450%	0.9020%	-8.9900%	-9.0850%	-9.1420%	-6.4520%
Dec-87	7.6100%	1.0800%	0.7800%	0.8425%	0.8608%	0.8517%	0.9114%	6.8300%	6.7583%	6.6986%	0.1686%
Jan-88	4.2100%	11.5300%	0.7200%	0.8233%	0.8408%	0.8321%	0.8998%	3.4900%	3.3779%	3.3102%	10.6302%
Feb-88	4.6600%	-1.7500%	0.7100%	0.7833%	0.8000%	0.7917%	0.8430%	3.9500%	3.8683%	3.8170%	-2.5930%
Mar-88	-3.0900%	-5.2700%	0.7200%	0.7825%	0.7992%	0.7908%	0.8396%	-3.8100%	-3.8808%	-3.9296%	-6.1096%
Apr-88	1.1100%	0.1900%	0.7000%	0.8058%	0.8217%	0.8138%	0.8768%	0.4100%	0.2963%	0.2332%	-0.6868%
May-88	0.8600%	4.6000%	0.7800%	0.8250%	0.8417%	0.8333%	0.8993%	0.0800%	0.0267%	-0.0393%	3.7007%
Jun-88	4.5900%	3.1500%	0.7600%	0.8217%	0.8442%	0.8329%	0.9005%	3.8300%	3.7571%	3.6895%	2.2495%
Jul-88	-0.3800%	0.1700%	0.7100%	0.8300%	0.8550%	0.8425%	0.9187%	-1.0900%	-1.2225%	-1.2987%	-0.7487%
Aug-88	-3.3900%	-1.3700%	0.8300%	0.8425%	0.8642%	0.8533%	0.9308%	-4.2200%	-4.2433%	-4.3208%	-2.3008%
Sep-88	4.2600%	4.1300%	0.7600%	0.8183%	0.8383%	0.8283%	0.8889%	3.5000%	3.4317%	3.3712%	3.2412%
Oct-88	2.7800%	2.6200%	0.7600%	0.7917%	0.8083%	0.8000%	0.8318%	2.0200%	1.9800%	1.9482%	1.7882%
Nov-88	-1.4300%	-0.7900%	0.7000%	0.7875%	0.8100%	0.7988%	0.8242%	-2.1300%	-2.2288%	-2.2542%	-1.6142%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Dec-88	1.7400%	0.6300%	0.7500%	0.7975%	0.8175%	0.8075%	0.8377%	0.9900%	0.9325%	0.9023%	-0.2077%
Jan-89	7.3200%	5.7100%	0.8000%	0.8017%	0.8175%	0.8096%	0.8404%	6.5200%	6.5104%	6.4796%	4.8696%
Feb-89	-2.4900%	-2.1500%	0.6900%	0.8033%	0.8192%	0.8113%	0.8383%	-3.1800%	-3.3013%	-3.3283%	-2.9883%
Mar-89	2.3300%	2.6900%	0.7900%	0.8167%	0.8317%	0.8242%	0.8535%	1.5400%	1.5058%	1.4766%	1.8366%
Apr-89	5.1900%	6.3400%	0.7000%	0.8158%	0.8283%	0.8221%	0.8492%	4.4900%	4.3679%	4.3408%	5.4908%
May-89	4.0500%	5.8000%	0.8000%	0.7975%	0.8125%	0.8050%	0.8334%	3.2500%	3.2450%	3.2166%	4.9666%
Jun-89	-0.5700%	1.6100%	0.7000%	0.7583%	0.7742%	0.7663%	0.8049%	-1.2700%	-1.3363%	-1.3749%	0.8052%
Jul-89	9.0300%	8.0400%	0.6800%	0.7442%	0.7617%	0.7529%	0.7920%	8.3500%	8.2771%	8.2380%	7.2480%
Aug-89	1.9500%	-0.5700%	0.6600%	0.7467%	0.7617%	0.7542%	0.7929%	1.2900%	1.1958%	1.1571%	-1.3629%
Sep-89	-0.4100%	1.7000%	0.6500%	0.7508%	0.7692%	0.7600%	0.7987%	-1.0600%	-1.1700%	-1.2087%	0.9013%
Oct-89	-2.3200%	0.4500%	0.7200%	0.7433%	0.7658%	0.7546%	0.7949%	-3.0400%	-3.0746%	-3.1149%	-0.3449%
Nov-89	2.0400%	3.3600%	0.6400%	0.7408%	0.7617%	0.7513%	0.7930%	1.4000%	1.2888%	1.2470%	2.5670%
Dec-89	2.4000%	7.3100%	0.6400%	0.7383%	0.7592%	0.7488%	0.7861%	1.7600%	1.6513%	1.6139%	6.5239%
Jan-90	-6.7100%	-8.0900%	0.7300%	0.7492%	0.7725%	0.7608%	0.7956%	-7.4400%	-7.4708%	-7.5056%	-8.8856%
Feb-90	1.2900%	-1.0900%	0.6600%	0.7683%	0.7867%	0.7775%	0.8130%	0.6300%	0.5125%	0.4770%	-1.9030%
Mar-90	2.6500%	1.8700%	0.7100%	0.7808%	0.7925%	0.7867%	0.8205%	1.9400%	1.8633%	1.8295%	1.0495%
Apr-90	-2.4900%	-3.8500%	0.7500%	0.7883%	0.8033%	0.7958%	0.8259%	-3.2400%	-3.2858%	-3.3159%	-4.6759%
May-90	9.7500%	6.8200%	0.7500%	0.7892%	0.8083%	0.7988%	0.8338%	9.0000%	8.9513%	8.9162%	5.9862%
Jun-90	-0.6700%	-2.1100%	0.6800%	0.7717%	0.7908%	0.7813%	0.8175%	-1.3500%	-1.4513%	-1.4875%	-2.9275%
Jul-90	-0.3200%	-0.3200%	0.7400%	0.7700%	0.7892%	0.7796%	0.8132%	-1.0600%	-1.0996%	-1.1332%	-1.1332%
Aug-90	-9.0400%	-7.9200%	0.7100%	0.7842%	0.8025%	0.7933%	0.8246%	-9.7500%	-9.8333%	-9.8646%	-8.7446%
Sep-90	-4.8700%	4.1100%	0.6900%	0.7967%	0.8142%	0.8054%	0.8431%	-5.5600%	-5.6754%	-5.7131%	3.2669%
Oct-90	-0.4300%	6.5300%	0.8100%	0.7942%	0.8142%	0.8042%	0.8386%	-1.2400%	-1.2342%	-1.2686%	5.6915%
Nov-90	6.4600%	1.9300%	0.7100%	0.7750%	0.7992%	0.7871%	0.8260%	5.7500%	5.6729%	5.6340%	1.1040%
Dec-90	2.7900%	0.8600%	0.7200%	0.7542%	0.7825%	0.7683%	0.8109%	2.0700%	2.0217%	1.9791%	0.0491%
Jan-91	4.3600%	-3.0100%	0.7100%	0.7533%	0.7808%	0.7671%	0.8094%	3.6500%	3.5929%	3.5506%	-3.8194%
Feb-91	7.1500%	3.4900%	0.6400%	0.7358%	0.7633%	0.7496%	0.7898%	6.5100%	6.4004%	6.3602%	2.7002%
Mar-91	2.4200%	1.9800%	0.6400%	0.7442%	0.7675%	0.7558%	0.7961%	1.7800%	1.6642%	1.6239%	1.1839%
Apr-91	0.2400%	-1.6200%	0.7600%	0.7383%	0.7600%	0.7492%	0.7887%	-0.5200%	-0.5092%	-0.5487%	-2.4087%
May-91	4.3100%	-1.3000%	0.6800%	0.7383%	0.7625%	0.7504%	0.7860%	3.6300%	3.5596%	3.5240%	-2.0860%
Jun-91	-4.5800%	-1.3900%	0.6300%	0.7508%	0.7733%	0.7621%	0.7986%	-5.2100%	-5.3421%	-5.3786%	-2.1886%
Jul-91	4.6600%	3.0700%	0.7600%	0.7500%	0.7708%	0.7604%	0.7956%	3.9000%	3.8996%	3.8644%	2.2744%
Aug-91	2.3700%	2.5800%	0.6800%	0.7292%	0.7492%	0.7392%	0.7754%	1.6900%	1.6308%	1.5946%	1.8046%
Sep-91	-1.6700%	2.0200%	0.6800%	0.7175%	0.7383%	0.7279%	0.7638%	-2.3500%	-2.3979%	-2.4338%	1.2562%
Oct-91	1.3400%	2.0000%	0.6500%	0.7125%	0.7358%	0.7242%	0.7601%	0.6900%	0.6158%	0.5799%	1.2399%
Nov-91	-4.0300%	-0.9800%	0.6000%	0.7067%	0.7317%	0.7192%	0.7545%	-4.6300%	-4.7492%	-4.7845%	-1.7345%
Dec-91	11.4400%	7.3300%	0.6800%	0.6925%	0.7175%	0.7050%	0.7416%	10.7600%	10.7350%	10.6984%	6.5884%
Jan-92	-1.8600%	-5.3600%	0.6100%	0.6833%	0.7092%	0.6963%	0.7360%	-2.4700%	-2.5563%	-2.5960%	-6.0960%
Feb-92	1.3000%	-2.7300%	0.5900%	0.6908%	0.7225%	0.7067%	0.7442%	0.7100%	0.5933%	0.5558%	-3.4742%
Mar-92	-1.9400%	-1.4300%	0.6700%	0.6958%	0.7275%	0.7117%	0.7473%	-2.6100%	-2.6517%	-2.6873%	-2.1773%
Apr-92	2.9400%	6.4500%	0.6500%	0.6942%	0.7242%	0.7092%	0.7438%	2.2900%	2.2308%	2.1962%	5.7062%
May-92	0.4900%	-0.1500%	0.6100%	0.6900%	0.7192%	0.7046%	0.7400%	-0.1200%	-0.2146%	-0.2500%	-0.8900%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Jun-92	-1.4900%	1.4100%	0.6700%	0.6850%	0.7133%	0.6992%	0.7323%	-2.1600%	-2.1892%	-2.2223%	0.6777%
Jul-92	4.0900%	7.9000%	0.6300%	0.6725%	0.6975%	0.6850%	0.7149%	3.4600%	3.4050%	3.3751%	7.1851%
Aug-92	-2.0500%	-0.7400%	0.6000%	0.6625%	0.6842%	0.6733%	0.7031%	-2.6500%	-2.7233%	-2.7531%	-1.4431%
Sep-92	1.1800%	0.7300%	0.5800%	0.6600%	0.6808%	0.6704%	0.7006%	0.6000%	0.5096%	0.4794%	0.0294%
Oct-92	0.3500%	-0.9400%	0.5700%	0.6658%	0.6933%	0.6796%	0.7106%	-0.2200%	-0.3296%	-0.3606%	-1.6506%
Nov-92	3.4100%	-0.1500%	0.6100%	0.6750%	0.7000%	0.6875%	0.7193%	2.8000%	2.7225%	2.6907%	-0.8693%
Dec-92	1.2300%	3.5800%	0.6300%	0.6650%	0.6867%	0.6758%	0.7042%	0.6000%	0.5542%	0.5258%	2.8758%
Jan-93	0.8400%	1.5700%	0.5900%	0.6592%	0.6758%	0.6675%	0.6901%	0.2500%	0.1725%	0.1499%	0.8799%
Feb-93	1.3600%	7.2100%	0.5500%	0.6425%	0.6583%	0.6504%	0.6704%	0.8100%	0.7096%	0.6896%	6.5396%
Mar-93	2.1100%	1.8000%	0.6300%	0.6317%	0.6433%	0.6375%	0.6586%	1.4800%	1.4725%	1.4515%	1.1415%
Apr-93	-2.4200%	-0.2700%	0.5700%	0.6217%	0.6350%	0.6283%	0.6515%	-2.9900%	-3.0483%	-3.0715%	-0.9215%
May-93	2.6800%	-1.9100%	0.5200%	0.6192%	0.6342%	0.6267%	0.6549%	2.1600%	2.0533%	2.0251%	-2.5649%
Jun-93	0.2900%	4.6300%	0.6200%	0.6108%	0.6258%	0.6183%	0.6469%	-0.3300%	-0.3283%	-0.3569%	3.9831%
Jul-93	-0.4000%	2.2600%	0.5400%	0.5975%	0.6125%	0.6050%	0.6285%	-0.9400%	-1.0050%	-1.0285%	1.6316%
Aug-93	3.7900%	4.8400%	0.5600%	0.5708%	0.5883%	0.5796%	0.6059%	3.2300%	3.2104%	3.1841%	4.2341%
Sep-93	-0.7700%	-0.2000%	0.5000%	0.5550%	0.5708%	0.5629%	0.5864%	-1.2700%	-1.3329%	-1.3564%	-0.7864%
Oct-93	2.0700%	-0.2100%	0.4900%	0.5558%	0.5725%	0.5642%	0.5857%	1.5800%	1.5058%	1.4843%	-0.7957%
Nov-93	-0.9500%	-5.0700%	0.5300%	0.5775%	0.5933%	0.5854%	0.6067%	-1.4800%	-1.5354%	-1.5567%	-5.6767%
Dec-93	1.2100%	-0.5300%	0.5500%	0.5775%	0.5933%	0.5854%	0.6113%	0.6600%	0.6246%	0.5987%	-1.1413%
Jan-94	3.4000%	0.7200%	0.5500%	0.5767%	0.5933%	0.5850%	0.6110%	2.8500%	2.8150%	2.7890%	0.1090%
Feb-94	-2.7100%	-5.6700%	0.4900%	0.5900%	0.6075%	0.5988%	0.6205%	-3.2000%	-3.3088%	-3.3305%	-6.2905%
Mar-94	-4.3600%	-3.3800%	0.5800%	0.5900%	0.6075%	0.5988%	0.6528%	-4.9400%	-4.9588%	-5.0128%	-4.0328%
Apr-94	1.2800%	2.4600%	0.5700%	0.6233%	0.6408%	0.6321%	0.6851%	0.7100%	0.6479%	0.5949%	1.7749%
May-94	1.6400%	-2.6800%	0.6300%	0.6658%	0.6825%	0.6742%	0.6939%	1.0100%	0.9658%	0.9462%	-3.3739%
Jun-94	-2.4500%	0.2100%	0.6100%	0.6642%	0.6808%	0.6725%	0.6923%	-3.0600%	-3.1225%	-3.1423%	-0.4823%
Jul-94	3.2800%	3.3600%	0.6000%	0.6758%	0.6925%	0.6842%	0.7063%	2.6800%	2.5958%	2.5737%	2.6537%
Aug-94	4.1000%	-0.2800%	0.6600%	0.6725%	0.6875%	0.6800%	0.7006%	3.4400%	3.4200%	3.3994%	-0.9806%
Sep-94	-2.4500%	-2.5400%	0.6100%	0.6950%	0.7075%	0.7013%	0.7187%	-3.0600%	-3.1513%	-3.1687%	-3.2587%
Oct-94	2.2500%	0.8600%	0.6600%	0.7142%	0.7258%	0.7200%	0.7377%	1.5900%	1.5300%	1.5123%	0.1223%
Nov-94	-3.6400%	-1.4600%	0.6400%	0.7233%	0.7358%	0.7296%	0.7486%	-4.2800%	-4.3696%	-4.3886%	-2.2086%
Dec-94	1.4800%	0.5200%	0.6600%	0.7050%	0.7183%	0.7117%	0.7307%	0.8200%	0.7683%	0.7493%	-0.2107%
Jan-95	2.5900%	7.7900%	0.7000%	0.7050%	0.7167%	0.7108%	0.7288%	1.8900%	1.8792%	1.8612%	7.0612%
Feb-95	3.9000%	-0.1500%	0.5900%	0.6883%	0.6992%	0.6938%	0.7108%	3.3100%	3.2063%	3.1892%	-0.8608%
Mar-95	2.9500%	-0.6000%	0.6400%	0.6767%	0.6867%	0.6817%	0.6979%	2.3100%	2.2683%	2.2521%	-1.2979%
Apr-95	2.9400%	3.6500%	0.5800%	0.6692%	0.6767%	0.6729%	0.6898%	2.3600%	2.2671%	2.2502%	2.9602%
May-95	4.0000%	3.1600%	0.6500%	0.6375%	0.6450%	0.6413%	0.6610%	3.3500%	3.3588%	3.3390%	2.4990%
Jun-95	2.3200%	0.4700%	0.5400%	0.6083%	0.6192%	0.6138%	0.6336%	1.7800%	1.7063%	1.6864%	-0.1636%
Jul-95	3.3200%	2.5500%	0.5600%	0.6175%	0.6283%	0.6229%	0.6408%	2.7600%	2.6971%	2.6792%	1.9092%
Aug-95	0.2500%	2.0200%	0.5700%	0.6308%	0.6408%	0.6358%	0.6532%	-0.3200%	-0.3858%	-0.4032%	1.3668%
Sep-95	4.2200%	6.3800%	0.5200%	0.6100%	0.6208%	0.6154%	0.6350%	3.7000%	3.6046%	3.5850%	5.7450%
Oct-95	-0.3600%	2.3800%	0.5700%	0.5933%	0.6058%	0.5996%	0.6224%	-0.9300%	-0.9596%	-0.9824%	1.7576%
Nov-95	4.3900%	1.3600%	0.5100%	0.5850%	0.5983%	0.5917%	0.6200%	3.8800%	3.7983%	3.7700%	0.7400%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Dec-95	1.9300%	7.0800%	0.4900%	0.5683%	0.5825%	0.5754%	0.6045%	1.4400%	1.3546%	1.3255%	6.4755%
Jan-96	3.4000%	1.2900%	0.5400%	0.5675%	0.5825%	0.5750%	0.6006%	2.8600%	2.8250%	2.7994%	0.6894%
Feb-96	0.9300%	-3.9500%	0.4800%	0.5825%	0.5967%	0.5896%	0.6125%	0.4500%	0.3404%	0.3175%	-4.5625%
Mar-96	0.9600%	-2.0300%	0.5200%	0.6125%	0.6267%	0.6196%	0.6435%	0.4400%	0.3404%	0.3165%	-2.6735%
Apr-96	1.4700%	1.1000%	0.5900%	0.6250%	0.6400%	0.6325%	0.6570%	0.8800%	0.8375%	0.8130%	0.4430%
May-96	2.5800%	-0.2500%	0.5800%	0.6350%	0.6475%	0.6413%	0.6650%	2.0000%	1.9388%	1.9150%	-0.9150%
Jun-96	0.3800%	4.1600%	0.5400%	0.6425%	0.6558%	0.6492%	0.6720%	-0.1600%	-0.2692%	-0.2920%	3.4880%
Jul-96	-4.4200%	-6.2800%	0.6200%	0.6375%	0.6517%	0.6446%	0.6688%	-5.0400%	-5.0646%	-5.0888%	-6.9488%
Aug-96	2.1100%	2.1300%	0.5700%	0.6217%	0.6358%	0.6288%	0.6532%	1.5400%	1.4813%	1.4568%	1.4768%
Sep-96	5.6300%	0.9500%	0.6000%	0.6383%	0.6517%	0.6450%	0.6681%	5.0300%	4.9850%	4.9619%	0.2819%
Oct-96	2.7600%	5.0800%	0.5800%	0.6158%	0.6317%	0.6238%	0.6482%	2.1800%	2.1363%	2.1118%	4.4318%
Nov-96	7.5600%	2.1100%	0.5200%	0.5917%	0.6092%	0.6004%	0.6253%	7.0400%	6.9596%	6.9347%	1.4847%
Dec-96	-1.9800%	-0.6000%	0.5600%	0.6000%	0.6175%	0.6088%	0.6309%	-2.5400%	-2.5888%	-2.6109%	-1.2309%
Jan-97	6.2500%	0.6600%	0.5600%	0.6183%	0.6358%	0.6271%	0.6472%	5.6900%	5.6229%	5.6028%	0.0128%
Feb-97	0.7800%	-0.9500%	0.5100%	0.6092%	0.6283%	0.6188%	0.6369%	0.2700%	0.1613%	0.1431%	-1.5869%
Mar-97	-4.1100%	-3.0100%	0.5900%	0.6292%	0.6475%	0.6383%	0.6555%	-4.7000%	-4.7483%	-4.7655%	-3.6655%
Apr-97	5.9700%	-1.5000%	0.5900%	0.6442%	0.6608%	0.6525%	0.6697%	5.3800%	5.3175%	5.3003%	-2.1697%
May-97	6.0900%	4.2300%	0.5800%	0.6317%	0.6500%	0.6408%	0.6575%	5.5100%	5.4492%	5.4325%	3.5725%
Jun-97	4.4800%	3.1400%	0.5900%	0.6175%	0.6350%	0.6263%	0.6437%	3.8900%	3.8538%	3.8363%	2.4963%
Jul-97	7.9600%	2.3000%	0.5800%	0.5950%	0.6133%	0.6042%	0.6241%	7.3800%	7.3558%	7.3359%	1.6759%
Aug-97	-5.6000%	-1.8300%	0.4900%	0.6017%	0.6167%	0.6092%	0.6248%	-6.0900%	-6.2092%	-6.2248%	-2.4548%
Sep-97	5.4800%	4.3300%	0.5800%	0.5950%	0.6117%	0.6033%	0.6229%	4.9000%	4.8767%	4.8571%	3.7071%
Oct-97	-3.3400%	0.9800%	0.5400%	0.5833%	0.6000%	0.5917%	0.6130%	-3.8800%	-3.9317%	-3.9530%	0.3670%
Nov-97	4.6300%	7.0700%	0.4700%	0.5725%	0.5892%	0.5808%	0.6039%	4.1600%	4.0492%	4.0261%	6.4661%
Dec-97	1.7200%	7.5200%	0.5400%	0.5633%	0.5825%	0.5729%	0.5970%	1.1800%	1.1471%	1.1230%	6.9230%
Jan-98	1.1100%	-3.9500%	0.4800%	0.5508%	0.5683%	0.5596%	0.5878%	0.6300%	0.5504%	0.5222%	-4.5378%
Feb-98	7.2100%	3.4100%	0.4400%	0.5558%	0.5733%	0.5646%	0.5932%	6.7700%	6.6454%	6.6168%	2.8168%
Mar-98	5.1200%	6.4200%	0.5200%	0.5592%	0.5775%	0.5683%	0.5968%	4.6000%	4.5517%	4.5232%	5.8232%
Apr-98	1.0100%	-1.9300%	0.4900%	0.5575%	0.5750%	0.5663%	0.5968%	0.5200%	0.4438%	0.4132%	-2.5268%
May-98	-1.7200%	-0.5000%	0.4800%	0.5575%	0.5758%	0.5667%	0.5969%	-2.2000%	-2.2867%	-2.3169%	-1.0969%
Jun-98	4.0600%	3.6900%	0.5200%	0.5442%	0.5650%	0.5546%	0.5864%	3.5400%	3.5054%	3.4736%	3.1036%
Jul-98	-1.0600%	-4.9300%	0.4900%	0.5458%	0.5650%	0.5554%	0.5853%	-1.5500%	-1.6154%	-1.6453%	-5.5153%
Aug-98	-14.4600%	1.6100%	0.4800%	0.5433%	0.5642%	0.5538%	0.5835%	-14.9400%	-15.0138%	-15.0435%	1.0265%
Sep-98	6.4100%	8.3500%	0.4400%	0.5333%	0.5567%	0.5450%	0.5780%	5.9700%	5.8650%	5.8320%	7.7720%
Oct-98	8.1300%	-1.6600%	0.4200%	0.5308%	0.5583%	0.5446%	0.5796%	7.7100%	7.5854%	7.5504%	-2.2396%
Nov-98	6.0600%	1.3400%	0.4500%	0.5342%	0.5658%	0.5500%	0.5864%	5.6100%	5.5100%	5.4736%	0.7536%
Dec-98	5.7600%	2.9500%	0.4500%	0.5183%	0.5542%	0.5363%	0.5757%	5.3100%	5.2238%	5.1843%	2.3743%
Jan-99	4.1800%	-4.5100%	0.4200%	0.5200%	0.5567%	0.5383%	0.5808%	3.7600%	3.6417%	3.5992%	-5.0908%
Feb-99	-3.1100%	-3.6400%	0.4000%	0.5333%	0.5658%	0.5496%	0.5897%	-3.5100%	-3.6596%	-3.6997%	-4.2297%
Mar-99	4.0000%	-1.4800%	0.5300%	0.5517%	0.5817%	0.5667%	0.6046%	3.4700%	3.4333%	3.3954%	-2.0846%
Apr-99	3.8700%	8.8400%	0.4800%	0.5533%	0.5800%	0.5667%	0.6012%	3.3900%	3.3033%	3.2688%	8.2388%
May-99	-2.3600%	6.0900%	0.4500%	0.5775%	0.6025%	0.5900%	0.6214%	-2.8100%	-2.9500%	-2.9814%	5.4686%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Jun-99	5.5500%	-3.3200%	0.5500%	0.6025%	0.6267%	0.6146%	0.6445%	5.0000%	4.9354%	4.9055%	-3.9645%
Jul-99	-3.1200%	-1.1400%	0.5100%	0.5992%	0.6233%	0.6113%	0.6418%	-3.6300%	-3.7313%	-3.7618%	-1.7818%
Aug-99	-0.4900%	1.1700%	0.5400%	0.6167%	0.6400%	0.6283%	0.6589%	-1.0300%	-1.1183%	-1.1489%	0.5111%
Sep-99	-2.7400%	-4.8000%	0.5200%	0.6158%	0.6400%	0.6279%	0.6610%	-3.2600%	-3.3679%	-3.4010%	-5.4610%
Oct-99	6.3300%	1.5700%	0.5000%	0.6292%	0.6492%	0.6392%	0.6721%	5.8300%	5.6908%	5.6579%	0.8979%
Nov-99	2.0300%	-7.7300%	0.5600%	0.6133%	0.6350%	0.6242%	0.6610%	1.4700%	1.4058%	1.3690%	-8.3910%
Dec-99	5.8900%	0.9300%	0.5500%	0.6292%	0.6483%	0.6388%	0.6766%	5.3400%	5.2513%	5.2134%	0.2534%
Jan-00	-5.0200%	10.8500%	0.5700%	0.6483%	0.6633%	0.6558%	0.6956%	-5.5900%	-5.6758%	-5.7156%	10.1544%
Feb-00	-1.8900%	-5.7800%	0.5100%	0.6400%	0.6517%	0.6458%	0.6874%	-2.4000%	-2.5358%	-2.5774%	-6.4674%
Mar-00	9.7800%	3.4900%	0.5400%	0.6400%	0.6525%	0.6463%	0.6906%	9.2400%	9.1338%	9.0894%	2.7994%
Apr-00	-3.0100%	7.9400%	0.4700%	0.6367%	0.6517%	0.6442%	0.6898%	-3.4800%	-3.6542%	-3.6998%	7.2502%
May-00	-2.0500%	4.8600%	0.5600%	0.6658%	0.6867%	0.6763%	0.7244%	-2.6100%	-2.7263%	-2.7744%	4.1356%
Jun-00	2.4700%	-5.7500%	0.5200%	0.6392%	0.6558%	0.6475%	0.6980%	1.9500%	1.8225%	1.7720%	-6.4480%
Jul-00	-1.5600%	6.7700%	0.5200%	0.6375%	0.6508%	0.6442%	0.6882%	-2.0800%	-2.2042%	-2.2482%	6.0818%
Aug-00	6.2100%	13.7200%	0.5000%	0.6292%	0.6417%	0.6354%	0.6774%	5.7100%	5.5746%	5.5326%	13.0426%
Sep-00	-5.2800%	9.1500%	0.4600%	0.6350%	0.6525%	0.6438%	0.6853%	-5.7400%	-5.9238%	-5.9653%	8.4647%
Oct-00	-0.4200%	-3.5700%	0.5300%	0.6292%	0.6508%	0.6400%	0.6787%	-0.9500%	-1.0600%	-1.0987%	-4.2487%
Nov-00	-7.8800%	-1.3200%	0.4800%	0.6208%	0.6458%	0.6333%	0.6772%	-8.3600%	-8.5133%	-8.5572%	-1.9972%
Dec-00	0.4900%	9.8200%	0.4500%	0.6008%	0.6233%	0.6121%	0.6547%	0.0400%	-0.1221%	-0.1647%	9.1654%
Jan-01	3.5500%	-9.6700%	0.4900%	0.5958%	0.6150%	0.6054%	0.6499%	3.0600%	2.9446%	2.9001%	-10.3199%
Feb-01	-9.1200%	3.5300%	0.4200%	0.5917%	0.6100%	0.6008%	0.6449%	-9.5400%	-9.7208%	-9.7649%	2.8851%
Mar-01	-6.3400%	-0.6300%	0.4500%	0.5817%	0.6017%	0.5917%	0.6394%	-6.7900%	-6.9317%	-6.9794%	-1.2694%
Apr-01	7.7700%	6.0500%	0.4700%	0.6000%	0.6192%	0.6096%	0.6603%	7.3000%	7.1604%	7.1097%	5.3897%
May-01	0.6700%	-3.4300%	0.5000%	0.6075%	0.6250%	0.6163%	0.6663%	0.1700%	0.0538%	0.0037%	-4.0963%
Jun-01	-2.4300%	-7.9100%	0.4700%	0.5983%	0.6117%	0.6050%	0.6546%	-2.9000%	-3.0350%	-3.0846%	-8.5646%
Jul-01	-0.9800%	-4.4800%	0.5200%	0.5942%	0.6058%	0.6000%	0.6494%	-1.5000%	-1.5800%	-1.6294%	-5.1294%
Aug-01	-6.2600%	-2.9000%	0.4600%	0.6000%	0.5925%	0.5963%	0.6329%	-6.7200%	-6.8563%	-6.8929%	-3.5329%
Sep-01	-8.0800%	-11.5200%	0.4100%	0.5975%	0.6058%	0.6017%	0.6423%	-8.4900%	-8.6817%	-8.7223%	-12.1623%
Oct-01	1.9100%	-0.1700%	0.4800%	0.5858%	0.5942%	0.5900%	0.6373%	1.4300%	1.3200%	1.2727%	-0.8073%
Nov-01	7.6700%	-5.5200%	0.4100%	0.5808%	0.5842%	0.5825%	0.6287%	7.2600%	7.0875%	7.0413%	-6.1487%
Dec-01	0.8800%	2.6000%	0.4600%	0.5633%	0.5992%	0.5813%	0.6526%	0.4200%	0.2988%	0.2274%	1.9474%
Jan-02	-1.4600%	-5.6500%	0.4800%	0.5458%	0.5858%	0.5658%	0.6387%	-1.9400%	-2.0258%	-2.0987%	-6.2887%
Feb-02	-1.9300%	-2.3500%	0.4300%	0.5425%	0.5792%	0.5608%	0.6283%	-2.3600%	-2.4908%	-2.5583%	-2.9783%
Mar-02	3.7600%	12.2300%	0.4300%	0.5675%	0.6017%	0.5846%	0.6453%	3.3300%	3.1754%	3.1147%	11.5847%
Apr-02	-6.0600%	-1.7100%	0.5400%	0.5633%	0.5967%	0.5800%	0.6316%	-6.6000%	-6.6400%	-6.6916%	-2.3416%
May-02	-0.7400%	-9.0200%	0.4900%	0.5625%	0.6000%	0.5813%	0.6272%	-1.2300%	-1.3213%	-1.3672%	-9.6472%
Jun-02	-7.1200%	-7.1000%	0.4400%	0.5533%	0.5900%	0.5717%	0.6180%	-7.5600%	-7.6917%	-7.7380%	-7.7180%
Jul-02	-7.8000%	-13.8000%	0.5100%	0.5442%	0.5817%	0.5629%	0.6101%	-8.3100%	-8.3629%	-8.4101%	-14.4101%
Aug-02	0.6600%	3.5000%	0.4400%	0.5308%	0.5700%	0.5504%	0.5979%	0.2200%	0.1096%	0.0621%	2.9021%
Sep-02	-10.8700%	-12.8300%	0.4200%	0.5125%	0.5525%	0.5325%	0.5906%	-11.2900%	-11.4025%	-11.4606%	-13.4206%
Oct-02	8.8000%	-1.7300%	0.4000%	0.5275%	0.5617%	0.5446%	0.6016%	8.4000%	8.2554%	8.1984%	-2.3316%
Nov-02	5.8900%	2.4900%	0.4000%	0.5258%	0.5592%	0.5425%	0.5952%	5.4900%	5.3475%	5.2948%	1.8948%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Dec-02	-5.8700%	4.1600%	0.4500%	0.5175%	0.5525%	0.5350%	0.5896%	-6.3200%	-6.4050%	-6.4596%	3.5704%
Jan-03	-2.6200%	-2.9200%	0.4100%	0.5142%	0.5492%	0.5317%	0.5887%	-3.0300%	-3.1517%	-3.2087%	-3.5087%
Feb-03	-1.5000%	-4.9000%	0.3800%	0.4958%	0.5283%	0.5121%	0.5778%	-1.8800%	-2.0121%	-2.0778%	-5.4778%
Mar-03	0.9700%	5.0500%	0.4000%	0.4908%	0.5233%	0.5071%	0.5663%	0.5700%	0.4629%	0.4037%	4.4837%
Apr-03	8.2400%	8.8500%	0.4000%	0.4783%	0.5183%	0.4983%	0.5540%	7.8400%	7.7417%	7.6860%	8.2960%
May-03	5.2700%	10.2100%	0.3900%	0.4350%	0.4875%	0.4613%	0.5310%	4.8800%	4.8088%	4.7390%	9.6790%
Jun-03	1.2800%	1.1900%	0.3600%	0.4142%	0.4767%	0.4454%	0.5173%	0.9200%	0.8346%	0.7627%	0.6727%
Jul-03	1.7600%	-6.5000%	0.3800%	0.4575%	0.5058%	0.4817%	0.5457%	1.3800%	1.2783%	1.2143%	-7.0457%
Aug-03	1.9500%	1.7500%	0.4200%	0.4892%	0.5258%	0.5075%	0.5659%	1.5300%	1.4425%	1.3841%	1.1841%
Sep-03	-1.0600%	4.5700%	0.4600%	0.4767%	0.5108%	0.4938%	0.5487%	-1.5200%	-1.5538%	-1.6087%	4.0213%
Oct-03	5.6600%	1.1200%	0.4100%	0.4750%	0.5092%	0.4921%	0.5350%	5.2500%	5.1679%	5.1250%	0.5850%
Nov-03	0.8800%	-0.0500%	0.3900%	0.4708%	0.5067%	0.4888%	0.5309%	0.4900%	0.3913%	0.3491%	-0.5809%
Dec-03	5.2400%	6.7500%	0.4700%	0.4708%	0.5017%	0.4863%	0.5233%	4.7700%	4.7538%	4.7168%	6.2268%
Jan-04	1.8400%	2.1600%	0.4200%	0.4617%	0.4925%	0.4771%	0.5128%	1.4200%	1.3629%	1.3272%	1.6472%
Feb-04	1.3900%	1.8100%	0.3800%	0.4583%	0.4892%	0.4738%	0.5125%	1.0100%	0.9163%	0.8775%	1.2975%
Mar-04	-1.5100%	1.0400%	0.4300%	0.4442%	0.4750%	0.4596%	0.4975%	-1.9400%	-1.9696%	-2.0075%	0.5425%
Apr-04	-1.5700%	-3.6200%	0.3900%	0.4775%	0.5083%	0.4929%	0.5271%	-1.9600%	-2.0629%	-2.0971%	-4.1471%
May-04	1.3700%	0.7900%	0.4000%	0.5033%	0.5333%	0.5183%	0.5517%	0.9700%	0.8517%	0.8183%	0.2383%
Jun-04	1.9400%	1.5500%	0.4800%	0.5008%	0.5175%	0.5092%	0.5388%	1.4600%	1.4308%	1.4012%	1.0112%
Jul-04	-3.3100%	1.7300%	0.4300%	0.4850%	0.5017%	0.4933%	0.5227%	-3.7400%	-3.8033%	-3.8327%	1.2073%
Aug-04	0.4000%	3.9300%	0.4500%	0.4708%	0.4892%	0.4800%	0.5124%	-0.0500%	-0.0800%	-0.1124%	3.4177%
Sep-04	1.0800%	0.9100%	0.4000%	0.4550%	0.4775%	0.4663%	0.4985%	0.6800%	0.6138%	0.5815%	0.4115%
Oct-04	1.5300%	4.9500%	0.3800%	0.4558%	0.4742%	0.4650%	0.4992%	1.1500%	1.0650%	1.0308%	4.4508%
Nov-04	4.0500%	4.0700%	0.4100%	0.4600%	0.4767%	0.4683%	0.4963%	3.6400%	3.5817%	3.5537%	3.5737%
Dec-04	3.4000%	2.6500%	0.4300%	0.4558%	0.4742%	0.4650%	0.4939%	2.9700%	2.9350%	2.9061%	2.1561%
Jan-05	-2.4400%	2.2100%	0.4100%	0.4467%	0.4650%	0.4558%	0.4828%	-2.8500%	-2.8958%	-2.9228%	1.7272%
Feb-05	2.1000%	1.9700%	0.3500%	0.4333%	0.4533%	0.4433%	0.4679%	1.7500%	1.6567%	1.6322%	1.5022%
Mar-05	-1.7700%	1.0800%	0.4100%	0.4500%	0.4700%	0.4600%	0.4855%	-2.1800%	-2.2300%	-2.2555%	0.5945%
Apr-05	-1.9000%	3.2100%	0.3900%	0.4442%	0.4533%	0.4488%	0.4708%	-2.2900%	-2.3488%	-2.3708%	2.7392%
May-05	3.1800%	0.0800%	0.4000%	0.4292%	0.4408%	0.4350%	0.4616%	2.7800%	2.7450%	2.7184%	-0.3816%
Jun-05	0.1400%	5.7600%	0.3600%	0.4133%	0.4183%	0.4158%	0.4502%	-0.2200%	-0.2758%	-0.3102%	5.3098%
Jul-05	3.7200%	2.3300%	0.3400%	0.4217%	0.4283%	0.4250%	0.4583%	3.3800%	3.2950%	3.2617%	1.8717%
Aug-05	-0.9100%	0.7300%	0.4000%	0.4242%	0.4333%	0.4288%	0.4591%	-1.3100%	-1.3388%	-1.3691%	0.2709%
Sep-05	0.8100%	4.0200%	0.3500%	0.4275%	0.4367%	0.4321%	0.4585%	0.4600%	0.3779%	0.3515%	3.5615%
Oct-05	-1.6700%	-6.1700%	0.3900%	0.4450%	0.4550%	0.4500%	0.4812%	-2.0600%	-2.1200%	-2.1512%	-6.6512%
Nov-05	3.7800%	-0.3900%	0.3900%	0.4521%	0.4625%	0.4573%	0.4899%	3.3900%	3.3227%	3.2901%	-0.8799%
Dec-05	0.0300%	1.1000%	0.3900%	0.4483%	0.4592%	0.4538%	0.4848%	-0.3600%	-0.4238%	-0.4548%	0.6152%
Jan-06	2.6500%	2.6348%	0.4000%	0.4408%	0.4542%	0.4475%	0.4792%	2.2500%	2.2025%	2.1708%	2.1556%
Feb-06	0.2700%	0.9527%	0.3600%	0.4458%	0.4592%	0.4525%	0.4850%	-0.0900%	-0.1825%	-0.2150%	0.4677%
Mar-06	1.2400%	-4.6345%	0.3900%	0.4600%	0.4725%	0.4663%	0.4983%	0.8500%	0.7738%	0.7417%	-5.1328%
Apr-06	1.3400%	1.7167%	0.3900%	0.4867%	0.5000%	0.4933%	0.5242%	0.9500%	0.8467%	0.8158%	1.1925%
May-06	-2.8800%	1.4281%	0.4800%	0.4958%	0.5108%	0.5033%	0.5350%	-3.3600%	-3.3833%	-3.4150%	0.8931%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Jun-06	0.1400%	2.4158%	0.4400%	0.4908%	0.5092%	0.5000%	0.5333%	-0.3000%	-0.3600%	-0.3933%	1.8825%
Jul-06	0.6200%	5.1109%	0.4500%	0.4875%	0.5067%	0.4971%	0.5308%	0.1700%	0.1229%	0.0892%	4.5801%
Aug-06	2.3800%	2.7122%	0.4300%	0.4733%	0.4925%	0.4829%	0.5167%	1.9500%	1.8971%	1.8633%	2.1955%
Sep-06	2.5800%	-1.7362%	0.3900%	0.4592%	0.4792%	0.4692%	0.5000%	2.1900%	2.1108%	2.0800%	-2.2362%
Oct-06	3.2600%	5.6026%	0.4200%	0.4592%	0.4783%	0.4688%	0.4983%	2.8400%	2.7913%	2.7617%	5.1043%
Nov-06	1.9000%	2.1405%	0.3900%	0.4442%	0.4642%	0.4542%	0.4833%	1.5100%	1.4458%	1.4167%	1.6572%
Dec-06	1.4000%	1.1817%	0.3600%	0.4408%	0.4650%	0.4529%	0.4842%	1.0400%	0.9471%	0.9158%	0.6975%
Jan-07	1.5100%	-0.1134%	0.4300%	0.4500%	0.4792%	0.4646%	0.4967%	1.0800%	1.0454%	1.0133%	-0.6101%
Feb-07	-1.9600%	5.0341%	0.3800%	0.4492%	0.4767%	0.4629%	0.4917%	-2.3400%	-2.4229%	-2.4517%	4.5424%
Mar-07	1.1200%	4.1373%	0.3900%	0.4417%	0.4717%	0.4567%	0.4875%	0.7300%	0.6633%	0.6325%	3.6498%
Apr-07	4.4300%	4.3759%	0.4200%	0.4558%	0.4858%	0.4708%	0.4975%	4.0100%	3.9592%	3.9325%	3.8784%
May-07	3.4900%	0.5145%	0.4100%	0.4558%	0.4875%	0.4717%	0.4992%	3.0800%	3.0183%	2.9908%	0.0153%
Jun-07	-1.6600%	-5.0621%	0.4000%	0.0483%	0.5142%	0.2812%	0.5250%	-2.0600%	-1.9412%	-2.1850%	-5.5871%
Jul-07	-3.1000%	-3.5666%	0.4600%	0.4775%	0.5075%	0.4925%	0.5208%	-3.5600%	-3.5925%	-3.6208%	-4.0874%
Aug-07	1.5000%	2.0956%	0.4200%	0.4825%	0.5050%	0.4938%	0.5200%	1.0800%	1.0063%	0.9800%	1.5756%
Sep-07	3.7400%	3.5427%	0.3700%	0.4783%	0.5017%	0.4900%	0.5150%	3.3700%	3.2500%	3.2250%	3.0277%
Oct-07	1.5900%	6.8641%	0.4300%	0.4717%	0.4950%	0.4833%	0.5092%	1.1600%	1.1067%	1.0808%	6.3549%
Nov-07	-4.1800%	0.3405%	0.3900%	0.4533%	0.4817%	0.4675%	0.4975%	-4.5700%	-4.6475%	-4.6775%	-0.1570%
Dec-07	-0.6900%	0.2754%	0.3700%	0.4575%	0.4925%	0.4750%	0.5133%	-1.0600%	-1.1650%	-1.2033%	-0.2379%
Jan-08	-6.0000%	-6.8133%	0.4000%	0.4442%	0.4817%	0.4629%	0.5017%	-6.4000%	-6.4629%	-6.5017%	-7.3150%
Feb-08	-3.2500%	-4.9956%	0.3400%	0.4608%	0.4975%	0.4792%	0.5175%	-3.5900%	-3.7292%	-3.7675%	-5.5131%
Mar-08	-0.4300%	1.7056%	0.3700%	0.4592%	0.4917%	0.4754%	0.5175%	-0.8000%	-0.9054%	-0.9475%	1.1881%
Apr-08	4.8700%	5.5163%	0.3500%	0.4625%	0.4942%	0.4783%	0.5242%	4.5200%	4.3917%	4.3458%	4.9921%
May-08	1.3000%	3.1987%	0.3700%	0.4642%	0.5000%	0.4821%	0.5225%	0.9300%	0.8179%	0.7775%	2.6762%
Jun-08	-8.4300%	-0.8668%	0.4000%	0.4733%	0.5092%	0.4913%	0.5317%	-8.8300%	-8.9213%	-8.9617%	-1.3985%
Jul-08	-0.8400%	-6.1108%	0.3900%	0.4725%	0.5042%	0.4883%	0.5333%	-1.2300%	-1.3283%	-1.3733%	-6.6441%
Aug-08	1.4500%	-1.6602%	0.3600%	0.4700%	0.5008%	0.4854%	0.5308%	1.0900%	0.9646%	0.9192%	-2.1910%
Sep-08	-8.9100%	-11.4823%	0.3900%	0.4708%	0.5025%	0.4867%	0.5408%	-9.3000%	-9.3967%	-9.4508%	-12.0231%
Oct-08	-16.7900%	-11.6128%	0.3700%	0.5233%	0.5658%	0.5446%	0.6300%	-17.1600%	-17.3346%	-17.4200%	-12.2428%
Nov-08	-7.1800%	2.7894%	0.3600%	0.5100%	0.5608%	0.5354%	0.6333%	-7.5400%	-7.7154%	-7.8133%	2.1561%
Dec-08	1.0600%	-1.6797%	0.3300%	0.4217%	0.4842%	0.4529%	0.5450%	0.7300%	0.6071%	0.5150%	-2.2247%
Jan-09	-8.4300%	-0.4541%	0.2400%	0.4208%	0.4867%	0.4538%	0.5325%	-8.6700%	-8.8838%	-8.9625%	-0.9866%
Feb-09	-10.6500%	-12.5708%	0.3000%	0.4392%	0.5017%	0.4704%	0.5250%	-10.9500%	-11.1204%	-11.1750%	-13.0958%
Mar-09	8.7600%	2.5255%	0.3500%	0.4583%	0.5092%	0.4838%	0.5350%	8.4100%	8.2763%	8.2250%	1.9905%
Apr-09	9.5700%	0.8462%	0.2900%	0.4492%	0.5142%	0.4817%	0.5400%	9.2800%	9.0883%	9.0300%	0.3062%
May-09	5.5900%	3.5287%	0.3300%	0.4617%	0.5200%	0.4908%	0.5408%	5.2600%	5.0992%	5.0492%	2.9879%
Jun-09	0.2000%	5.5202%	0.3800%	0.4675%	0.5100%	0.4888%	0.5167%	-0.1800%	-0.2888%	-0.3167%	5.0035%
Jul-09	7.5600%	4.0755%	0.3600%	0.4508%	0.4758%	0.4633%	0.4975%	7.2000%	7.0967%	7.0625%	3.5780%
Aug-09	3.6100%	0.5460%	0.3600%	0.4383%	0.4542%	0.4463%	0.4758%	3.2500%	3.1638%	3.1342%	0.0702%
Sep-09	3.7300%	1.4284%	0.3400%	0.4275%	0.4342%	0.4308%	0.4608%	3.3900%	3.2992%	3.2692%	0.9676%
Oct-09	-1.8600%	-2.8427%	0.3300%	0.4292%	0.4367%	0.4329%	0.4625%	-2.1900%	-2.2929%	-2.3225%	-3.3052%
Nov-09	6.0000%	4.5586%	0.3500%	0.4325%	0.4408%	0.4367%	0.4700%	5.6500%	5.5633%	5.5300%	4.0886%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Dec-09	1.9300%	5.5813%	0.3400%	0.4383%	0.4533%	0.4458%	0.4825%	1.5900%	1.4842%	1.4475%	5.0988%
Jan-10	-3.6000%	-4.7493%	0.3600%	0.4383%	0.4583%	0.4483%	0.4808%	-3.9600%	-4.0483%	-4.0808%	-5.2301%
Feb-10	3.1000%	-1.4896%	0.3300%	0.4458%	0.4683%	0.4571%	0.4892%	2.7700%	2.6429%	2.6108%	-1.9788%
Mar-10	6.0300%	2.7978%	0.4000%	0.4392%	0.4642%	0.4517%	0.4867%	5.6300%	5.5783%	5.5433%	2.3111%
Apr-10	1.5800%	2.8058%	0.3800%	0.4408%	0.4642%	0.4525%	0.4842%	1.2000%	1.1275%	1.0958%	2.3216%
May-10	-7.9900%	-5.7600%	0.3400%	0.4133%	0.4375%	0.4254%	0.4583%	-8.3300%	-8.4154%	-8.4483%	-6.2183%
Jun-10	-5.2300%	-0.6360%	0.3700%	0.4067%	0.4300%	0.4183%	0.4550%	-5.6000%	-5.6483%	-5.6850%	-1.0910%
Jul-10	7.0100%	7.7413%	0.3100%	0.3933%	0.4133%	0.4033%	0.4383%	6.7000%	6.6067%	6.5717%	7.3030%
Aug-10	-4.5100%	1.2496%	0.3200%	0.3742%	0.3933%	0.3838%	0.4175%	-4.8300%	-4.8938%	-4.9275%	0.8321%
Sep-10	8.9200%	2.9575%	0.2600%	0.3775%	0.3933%	0.3854%	0.4175%	8.6600%	8.5346%	8.5025%	2.5400%
Oct-10	3.8000%	1.2869%	0.2700%	0.3900%	0.4025%	0.3963%	0.4250%	3.5300%	3.4038%	3.3750%	0.8619%
Nov-10	0.0100%	-3.2323%	0.3200%	0.4058%	0.4225%	0.4142%	0.4475%	-0.3100%	-0.4042%	-0.4375%	-3.6798%
Dec-10	6.6800%	3.1151%	0.3200%	0.4183%	0.4383%	0.4283%	0.4633%	6.3600%	6.2517%	6.2167%	2.6518%
Jan-11	2.3700%	1.4241%	0.3500%	0.4200%	0.4383%	0.4292%	0.4642%	2.0200%	1.9408%	1.9058%	0.9599%
Feb-11	3.4300%	1.1235%	0.3200%	0.4350%	0.4475%	0.4413%	0.4733%	3.1100%	2.9888%	2.9567%	0.6502%
Mar-11	0.0400%	0.1474%	0.3600%	0.4275%	0.4400%	0.4338%	0.4633%	-0.3200%	-0.3938%	-0.4233%	-0.3159%
Apr-11	2.9600%	4.1878%	0.3400%	0.4300%	0.4408%	0.4354%	0.4625%	2.6200%	2.5246%	2.4975%	3.7253%
May-11	-1.1300%	1.9754%	0.3600%	0.4133%	0.4217%	0.4175%	0.4433%	-1.4900%	-1.5475%	-1.5733%	1.5321%
Jun-11	-1.6700%	-0.1283%	0.3200%	0.4158%	0.4200%	0.4179%	0.4383%	-1.9900%	-2.0879%	-2.1083%	-0.5666%
Jul-11	-2.0300%	-0.7538%	0.3200%	0.4108%	0.4192%	0.4150%	0.4392%	-2.3500%	-2.4450%	-2.4692%	-1.1930%
Aug-11	-5.4300%	2.0388%	0.3400%	0.3642%	0.3725%	0.3683%	0.3908%	-5.7700%	-5.7983%	-5.8208%	1.6480%
Sep-11	-7.0300%	0.2271%	0.2600%	0.3408%	0.3525%	0.3467%	0.3733%	-7.2900%	-7.3767%	-7.4033%	-0.1462%
Oct-11	10.9300%	3.8747%	0.2200%	0.3317%	0.3467%	0.3392%	0.3767%	10.7100%	10.5908%	10.5533%	3.4980%
Nov-11	-0.2200%	0.8014%	0.2400%	0.3225%	0.3308%	0.3267%	0.3542%	-0.4600%	-0.5467%	-0.5742%	0.4472%
Dec-11	1.0200%	3.3767%	0.2200%	0.3275%	0.3358%	0.3317%	0.3608%	0.8000%	0.6883%	0.6592%	3.0159%
Jan-12	4.4800%	-3.3237%	0.2100%	0.3342%	0.3342%	0.3342%	0.3617%	4.2700%	4.1458%	4.1183%	-3.6854%
Feb-12	4.3200%	0.3451%	0.2000%	0.3325%	0.3325%	0.3325%	0.3633%	4.1200%	3.9875%	3.9567%	-0.0182%
Mar-12	3.2900%	1.3720%	0.2200%	0.3325%	0.3450%	0.3388%	0.3733%	3.0700%	2.9513%	2.9167%	0.9987%
Apr-12	-0.6300%	2.1237%	0.2500%	0.3300%	0.3400%	0.3350%	0.3667%	-0.8800%	-0.9650%	-0.9967%	1.7570%
May-12	-6.0100%	0.2161%	0.2300%	0.3167%	0.3258%	0.3213%	0.3500%	-6.2400%	-6.3313%	-6.3600%	-0.1339%
Jun-12	4.1200%	4.1004%	0.1800%	0.3033%	0.3150%	0.3092%	0.3400%	3.9400%	3.8108%	3.7800%	3.7604%
Jul-12	1.3900%	2.8439%	0.2000%	0.2833%	0.2950%	0.2892%	0.3275%	1.1900%	1.1008%	1.0625%	2.5164%
Aug-12	2.2500%	-4.4721%	0.1800%	0.2900%	0.3008%	0.2954%	0.3333%	2.0700%	1.9546%	1.9167%	-4.8054%
Sep-12	2.5800%	1.2281%	0.1700%	0.2908%	0.3067%	0.2988%	0.3350%	2.4100%	2.2813%	2.2450%	0.8931%
Oct-12	-1.8500%	1.7240%	0.2100%	0.2892%	0.3025%	0.2958%	0.3258%	-2.0600%	-2.1458%	-2.1758%	1.3982%
Nov-12	0.5800%	-4.6428%	0.1900%	0.2917%	0.2975%	0.2946%	0.3200%	0.3900%	0.2854%	0.2600%	-4.9628%
Dec-12	0.9100%	0.1108%	0.1900%	0.3042%	0.3083%	0.3063%	0.3333%	0.7200%	0.6038%	0.5767%	-0.2225%
Jan-13	5.1800%	3.5100%	0.2200%	0.3167%	0.3225%	0.3196%	0.3458%	4.9600%	4.8604%	4.8342%	3.1642%
Feb-13	1.3600%	3.3900%	0.2200%	0.3250%	0.3292%	0.3271%	0.3483%	1.1400%	1.0329%	1.0117%	3.0417%
Mar-13	3.7500%	5.4000%	0.2100%	0.3167%	0.3225%	0.3196%	0.3458%	3.5400%	3.4304%	3.4042%	5.0542%
Apr-13	1.9300%	5.9000%	0.2600%	0.3108%	0.3142%	0.3125%	0.3333%	1.6700%	1.6175%	1.5967%	5.5667%
May-13	2.3400%	-8.9600%	0.2300%	0.3242%	0.3283%	0.3263%	0.3475%	2.1100%	2.0138%	1.9925%	-9.3075%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Jun-13	-1.3400%	1.1400%	0.2400%	0.3558%	0.3600%	0.3579%	0.3775%	-1.5800%	-1.6979%	-1.7175%	0.7625%
Jul-13	5.0900%	3.8500%	0.3000%	0.3617%	0.3717%	0.3667%	0.3900%	4.7900%	4.7233%	4.7000%	3.4600%
Aug-13	-2.9000%	-5.0000%	0.2800%	0.3783%	0.3858%	0.3821%	0.3942%	-3.1800%	-3.2821%	-3.2942%	-5.3942%
Sep-13	3.1400%	1.0800%	0.2900%	0.3867%	0.3908%	0.3888%	0.4000%	2.8500%	2.7513%	2.7400%	0.6800%
Oct-13	4.6000%	3.7700%	0.2900%	0.3775%	0.3825%	0.3800%	0.3917%	4.3100%	4.2200%	4.2083%	3.3783%
Nov-13	3.0500%	-1.9900%	0.2700%	0.3858%	0.3892%	0.3875%	0.3975%	2.7800%	2.6625%	2.6525%	-2.3875%
Dec-13	2.5300%	0.7600%	0.3100%	0.3850%	0.3900%	0.3875%	0.4008%	2.2200%	2.1425%	2.1292%	0.3592%
Jan-14	-3.4600%	2.8100%	0.3200%	0.3742%	0.3775%	0.3758%	0.3858%	-3.7800%	-3.8358%	-3.8458%	2.4242%
Feb-14	4.5700%	3.3500%	0.2600%	0.3708%	0.3717%	0.3713%	0.3775%	4.3100%	4.1988%	4.1925%	2.9725%
Mar-14	0.8400%	3.3700%	0.2900%	0.3650%	0.3700%	0.3675%	0.3758%	0.5500%	0.4725%	0.4642%	2.9942%
Apr-14	0.7400%	4.2600%	0.2800%	0.3533%	0.3608%	0.3571%	0.3675%	0.4600%	0.3829%	0.3725%	3.8925%
May-14	2.3500%	-1.0500%	0.2800%	0.3467%	0.3500%	0.3483%	0.3550%	2.0700%	2.0017%	1.9950%	-1.4050%
Jun-14	2.0700%	4.4800%	0.2500%	0.3542%	0.3550%	0.3546%	0.3575%	1.8200%	1.7154%	1.7125%	4.1225%
Jul-14	-1.3800%	-6.8000%	0.2700%	0.3467%	0.3500%	0.3483%	0.3525%	-1.6500%	-1.7283%	-1.7325%	-7.1525%
Aug-14	4.0000%	4.9500%	0.2600%	0.3400%	0.3417%	0.3408%	0.3442%	3.7400%	3.6592%	3.6558%	4.6058%
Sep-14	-1.4000%	-1.8600%	0.2300%	0.3425%	0.3492%	0.3458%	0.3533%	-1.6300%	-1.7458%	-1.7533%	-2.2133%
Oct-14	2.4400%	8.0200%	0.2500%	0.3267%	0.3325%	0.3296%	0.3383%	2.1900%	2.1104%	2.1017%	7.6817%
Nov-14	2.6900%	1.2000%	0.2300%	0.3267%	0.3367%	0.3317%	0.3408%	2.4600%	2.3583%	2.3492%	0.8592%
Dec-14	-0.2500%	3.5000%	0.2200%	0.3158%	0.3242%	0.3200%	0.3292%	-0.4700%	-0.5700%	-0.5792%	3.1708%
Jan-15	-3.0000%	2.3300%	0.2000%	0.2883%	0.2950%	0.2917%	0.2983%	-3.2000%	-3.2917%	-3.2983%	2.0317%
Feb-15	5.7500%	-6.3300%	0.1500%	0.3008%	0.3033%	0.3021%	0.3058%	5.6000%	5.4479%	5.4442%	-6.6358%
Mar-15	-1.5800%	-0.4900%	0.2100%	0.3033%	0.3083%	0.3058%	0.3117%	-1.7900%	-1.8858%	-1.8917%	-0.8017%
Apr-15	0.9600%	-1.2900%	0.1900%	0.2933%	0.3033%	0.2983%	0.3125%	0.7700%	0.6617%	0.6475%	-1.6025%
May-15	1.2900%	0.6500%	0.2000%	0.3317%	0.3400%	0.3358%	0.3475%	1.0900%	0.9542%	0.9425%	0.3025%
Jun-15	-1.9400%	-6.0000%	0.2300%	0.3492%	0.3558%	0.3525%	0.3658%	-2.1700%	-2.2925%	-2.3058%	-6.3658%
Jul-15	2.1000%	4.8100%	0.2400%	0.3458%	0.3542%	0.3500%	0.3667%	1.8600%	1.7500%	1.7333%	4.4433%
Aug-15	-6.0300%	-3.9700%	0.2200%	0.3367%	0.3442%	0.3404%	0.3542%	-6.2500%	-6.3704%	-6.3842%	-4.3242%
Sep-15	-2.4700%	2.9000%	0.2100%	0.3392%	0.3508%	0.3450%	0.3658%	-2.6800%	-2.8150%	-2.8358%	2.5342%
Oct-15	8.4400%	1.0800%	0.2100%	0.3292%	0.3425%	0.3358%	0.3575%	8.2300%	8.1042%	8.0825%	0.7225%
Nov-15	0.3000%	-2.1300%	0.2200%	0.3383%	0.3508%	0.3446%	0.3667%	0.0800%	-0.0446%	-0.0667%	-2.4967%
Dec-15	-1.5800%	2.1600%	0.2200%	0.3308%	0.3467%	0.3388%	0.3625%	-1.8000%	-1.9188%	-1.9425%	1.7975%
Jan-16	-4.9600%	4.9223%	0.2100%	0.3333%	0.3433%	0.3383%	0.3558%	-5.1700%	-5.2983%	-5.3158%	4.5665%
Feb-16	-0.1300%	1.9408%	0.2000%	0.3300%	0.3317%	0.3308%	0.3425%	-0.3300%	-0.4608%	-0.4725%	1.5983%
Mar-16	6.7800%	8.1400%	0.1800%	0.3183%	0.3258%	0.3221%	0.3467%	6.6000%	6.4579%	6.4333%	7.7933%
Apr-16	0.3900%	-2.4100%	0.1700%	0.3183%	0.3258%	0.3221%	0.3467%	0.2200%	0.0679%	0.0433%	-2.7567%
May-16	1.8000%	1.5100%	0.2000%	0.3042%	0.3083%	0.3063%	0.3275%	1.6000%	1.4938%	1.4725%	1.1825%
Jun-16	0.2600%	7.7900%	0.1800%	0.2917%	0.3000%	0.2958%	0.3150%	0.0800%	-0.0358%	-0.0550%	7.4750%
Jul-16	3.6900%	-0.8000%	0.1400%	0.2733%	0.2825%	0.2779%	0.2975%	3.5500%	3.4121%	3.3925%	-1.0975%
Aug-16	0.1400%	-5.5100%	0.1600%	0.2767%	0.2850%	0.2808%	0.2992%	-0.0200%	-0.1408%	-0.1592%	-5.8092%
Sep-16	0.0200%	0.4000%	0.1500%	0.2842%	0.2917%	0.2879%	0.3050%	-0.1300%	-0.2679%	-0.2850%	0.0950%
Oct-16	-1.8200%	0.8600%	0.1600%	0.2842%	0.2917%	0.2879%	0.3050%	-1.9800%	-2.1079%	-2.1250%	0.5550%
Nov-16	3.7000%	-5.3900%	0.1800%	0.3217%	0.3275%	0.3246%	0.3400%	3.5200%	3.3754%	3.3600%	-5.7300%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Dec-16	1.9800%	4.9400%	0.2200%	0.3383%	0.3433%	0.3408%	0.3558%	1.7600%	1.6392%	1.6242%	4.5842%
Jan-17	1.9000%	1.2600%	0.2400%	0.3267%	0.3317%	0.3292%	0.3450%	1.6600%	1.5708%	1.5550%	0.9150%
Feb-17	3.9700%	5.2600%	0.2100%	0.3292%	0.3342%	0.3317%	0.3425%	3.7600%	3.6383%	3.6275%	4.9175%
Mar-17	0.1200%	2.9800%	0.2300%	0.3292%	0.3342%	0.3317%	0.3483%	-0.1100%	-0.2117%	-0.2283%	2.6317%
Apr-17	1.0300%	0.7800%	0.2100%	0.3225%	0.3275%	0.3250%	0.3433%	0.8200%	0.7050%	0.6867%	0.4367%
May-17	1.4100%	4.2200%	0.2400%	0.3208%	0.3275%	0.3242%	0.3442%	1.1700%	1.0858%	1.0658%	3.8758%
Jun-17	0.6200%	-2.7000%	0.2100%	0.3067%	0.3142%	0.3104%	0.3283%	0.4100%	0.3096%	0.2917%	-3.0283%
Jul-17	2.0600%	2.4400%	0.2200%	0.3150%	0.3225%	0.3188%	0.3375%	1.8400%	1.7413%	1.7225%	2.1025%
Aug-17	0.3100%	3.2400%	0.2200%	0.3083%	0.3167%	0.3125%	0.3325%	0.0900%	-0.0025%	-0.0225%	2.9075%
Sep-17	2.0600%	-2.7300%	0.1900%	0.3025%	0.3100%	0.3063%	0.3217%	1.8700%	1.7538%	1.7383%	-3.0517%
Oct-17	2.3300%	3.9000%	0.2200%	0.3000%	0.3117%	0.3058%	0.3258%	2.1100%	2.0242%	2.0042%	3.5742%
Nov-17	3.0700%	2.7500%	0.2100%	0.3000%	0.3117%	0.3058%	0.3258%	2.8600%	2.7642%	2.7442%	2.4242%
Dec-17	1.1100%	-6.1300%	0.2000%	0.2925%	0.3008%	0.2967%	0.3158%	0.9100%	0.8133%	0.7942%	-6.4458%
Jan-18	5.7300%	-3.0700%	0.2400%	0.2925%	0.3008%	0.2967%	0.3158%	5.4900%	5.4333%	5.4142%	-3.3858%
Feb-18	-3.6900%	-3.8400%	0.2200%	0.2958%	0.3067%	0.3013%	0.3217%	-3.9100%	-3.9913%	-4.0117%	-4.1617%
Mar-18	-2.5400%	3.7700%	0.2400%	0.3225%	0.3325%	0.3275%	0.3442%	-2.7800%	-2.8675%	-2.8842%	3.4258%
Apr-18	0.3800%	2.1000%	0.2500%	0.3208%	0.3342%	0.3275%	0.3475%	0.1300%	0.0525%	0.0325%	1.7525%
May-18	2.4100%	-1.1400%	0.2500%	0.3325%	0.3433%	0.3379%	0.3567%	2.1600%	2.0721%	2.0533%	-1.4967%
Jun-18	0.6200%	2.7300%	0.2300%	0.3300%	0.3425%	0.3363%	0.3558%	0.3900%	0.2838%	0.2642%	2.3742%
Jul-18	3.7200%	1.8600%	0.2500%	0.3225%	0.3392%	0.3308%	0.3558%	3.4700%	3.3892%	3.3642%	1.5042%
Aug-18	3.2600%	1.1300%	0.2500%	0.3233%	0.3375%	0.3304%	0.3550%	3.0100%	2.9296%	2.9050%	0.7750%
Sep-18	0.5700%	-0.6000%	0.2200%	0.3233%	0.3375%	0.3304%	0.3550%	0.3500%	0.2396%	0.2150%	-0.9550%
Oct-18	-6.8400%	1.9500%	0.3000%	0.3450%	0.0000%	0.1725%	0.3708%	-7.1400%	-7.0125%	-7.2108%	1.5792%
Nov-18	2.0400%	3.5500%	0.2800%	0.3517%	0.3642%	0.3579%	0.3767%	1.7600%	1.6821%	1.6633%	3.1733%
Dec-18	-9.0300%	-4.0100%	0.2700%	0.3350%	0.3500%	0.3425%	0.3642%	-9.3000%	-9.3725%	-9.3942%	-4.3742%
Jan-19	8.0100%	4.8400%	0.2500%	0.3275%	0.3450%	0.3363%	0.3625%	7.7600%	7.6738%	7.6475%	4.4775%
Feb-19	3.2100%	4.1100%	0.2200%	0.3158%	0.3325%	0.3242%	0.3542%	2.9900%	2.8858%	2.8558%	3.7558%
Mar-19	1.9400%	2.8800%	0.2300%	0.3158%	0.3325%	0.3242%	0.3542%	1.7100%	1.6158%	1.5858%	2.5258%
Apr-19	4.0500%	0.9300%	0.2300%	0.3075%	0.3208%	0.3142%	0.3400%	3.8200%	3.7358%	3.7100%	0.5900%
May-19	-6.3500%	-0.7800%	0.2300%	0.3058%	0.3167%	0.3113%	0.3317%	-6.5800%	-6.6613%	-6.6817%	-1.1117%
Jun-19	7.0500%	3.2200%	0.1800%	0.3058%	0.3167%	0.3113%	0.3317%	6.8700%	6.7388%	6.7183%	2.8883%
Jul-19	1.4400%	-0.2700%	0.2100%	0.2742%	0.2883%	0.2813%	0.3075%	1.2300%	1.1588%	1.1325%	-0.5775%
Aug-19	-1.5800%	5.1300%	0.1900%	0.2742%	0.2883%	0.2813%	0.3075%	-1.7700%	-1.8613%	-1.8875%	4.8225%
Sep-19	1.8700%	4.2500%	0.1500%	0.2483%	0.2567%	0.2525%	0.2742%	1.7200%	1.6175%	1.5958%	3.9758%
Oct-19	2.1700%	-0.7700%	0.1600%	0.2525%	0.2608%	0.2567%	0.2808%	2.0100%	1.9133%	1.8892%	-1.0508%
Nov-19	3.6300%	-1.8600%	0.1600%	0.2558%	0.2642%	0.2600%	0.2858%	3.4700%	3.3700%	3.3442%	-2.1458%
Dec-19	3.0200%	3.4300%	0.1800%	0.2508%	0.2592%	0.2550%	0.2833%	2.8400%	2.7650%	2.7367%	3.1467%
Jan-20	-0.0400%	6.6500%	0.2000%	0.2350%	0.2392%	0.2371%	0.2608%	-0.2400%	-0.2771%	-0.3008%	6.3892%
Feb-20	-8.2300%	-9.8500%	0.1500%	0.2450%	0.2517%	0.2483%	0.2742%	-8.3800%	-8.4783%	-8.5042%	-10.1242%
Mar-20	-12.3500%	-9.9900%	0.1230%	0.2317%	0.2375%	0.2346%	0.2592%	-12.4730%	-12.5846%	-12.6092%	-10.2492%
Apr-20	12.8200%	3.2300%	0.0900%	0.2025%	0.2292%	0.2158%	0.2658%	12.7300%	12.6042%	12.5542%	2.9642%
May-20	4.7600%	4.3500%	0.0900%	0.2075%	0.2267%	0.2171%	0.2617%	4.6700%	4.5429%	4.4983%	4.0883%

	Market Return	S&P Return	Ibbot LT RF	Aaa Corp	Aa Corp	Avg Aaa and Aa Corp	A PU	RPMKT	RPAAAAA	RPAPU	RPSPA
Jun-20	1.9900%	-4.6500%	0.0900%	0.2008%	0.2192%	0.2100%	0.2558%	1.9000%	1.7800%	1.7342%	-4.9058%
Jul-20	5.6400%	7.8200%	0.1000%	0.1692%	0.1817%	0.1754%	0.2133%	5.5400%	5.4646%	5.4267%	7.6067%
Aug-20	7.1900%	-2.6500%	0.0800%	0.1875%	0.1975%	0.1925%	0.2275%	7.1100%	6.9975%	6.9625%	-2.8775%
Sep-20	-3.8000%	1.1209%	0.0000%	0.1925%	0.2058%	0.1992%	0.2367%	-3.8000%	-3.9992%	-4.0367%	0.8842%
Oct-20	-2.6600%	5.0400%	0.0900%	0.1958%	0.2125%	0.2042%	0.2458%	-2.7500%	-2.8642%	-2.9058%	4.7942%
Nov-20	10.9500%	0.7352%	0.1100%	0.1917%	0.2058%	0.1988%	0.2375%	10.8400%	10.7513%	10.7125%	0.4977%
Dec-20	3.8400%	0.7033%	0.1100%	0.1883%	0.2033%	0.1958%	0.2308%	3.7300%	3.6442%	3.6092%	0.4724%
Jan-21	-1.0096%	-0.9149%	0.1517%	0.2042%	0.2175%	0.2108%	0.2425%	-1.1613%	-1.2205%	-1.2521%	-1.1574%
Feb-21	2.7574%	-6.0950%	0.1700%	0.2250%	0.2358%	0.2304%	0.2575%	2.5874%	2.5270%	2.4999%	-6.3525%
Mar-21	4.3796%	10.4988%	0.1950%	0.2533%	0.2642%	0.2588%	0.2867%	4.1846%	4.1208%	4.0929%	10.2122%
Apr-21	5.3369%	4.2771%	0.1917%	0.2417%	0.2525%	0.2471%	0.2750%	5.1452%	5.0898%	5.0619%	4.0021%
May-21	0.6984%	-2.3728%	0.1933%	0.2467%	0.2558%	0.2513%	0.2775%	0.5051%	0.4472%	0.4209%	-2.6503%
Jun-21	2.3345%	-2.1630%	0.1800%	0.2325%	0.2425%	0.2375%	0.2633%	2.1545%	2.0970%	2.0712%	-2.4263%
Jul-21	2.3754%	3.8580%	0.1617%	0.2142%	0.2258%	0.2200%	0.2458%	2.2138%	2.1554%	2.1296%	3.6122%
Aug-21	3.1679%	3.9755%	0.1600%	0.2125%	0.2275%	0.2200%	0.2458%	3.0079%	2.9479%	2.9221%	3.7297%

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Jan-26	Market Return			-		0.0031	-0.0031
Feb-26	Market Return			(0.0385)		0.0028	-0.0413
Mar-26	Market Return			(0.0575)		0.0032	-0.0607
Apr-26	Market Return			0.0253		0.0030	0.0223
May-26	Market Return			0.0179		0.0028	0.0151
Jun-26	Market Return			0.0457		0.0033	0.0424
Jul-26	Market Return			0.0479		0.0031	0.0448
Aug-26	Market Return			0.0248		0.0031	0.0217
Sep-26	Market Return			0.0252		0.0030	0.0222
Oct-26	Market Return			(0.0284)		0.0030	-0.0314
Nov-26	Market Return			0.0347		0.0031	0.0316
Dec-26	Market Return			0.0196		0.0030	0.0166
Jan-27	Market Return			(0.0193)		0.0030	-0.0223
Feb-27	Market Return			0.0537		0.0027	0.0510
Mar-27	Market Return			0.0087		0.0029	0.0058
Apr-27	Market Return			0.0201		0.0027	0.0174
May-27	Market Return			0.0607		0.0028	0.0579
Jun-27	Market Return			(0.0067)		0.0027	-0.0094
Jul-27	Market Return			0.0670		0.0027	0.0643
Aug-27	Market Return			0.0515		0.0029	0.0486
Sep-27	Market Return			0.0450		0.0027	0.0423
Oct-27	Market Return			(0.0502)		0.0028	-0.0530
Nov-27	Market Return			0.0721		0.0027	0.0694
Dec-27	Market Return			0.0279		0.0027	0.0252
Jan-28	Market Return			(0.0040)		0.0027	-0.0067
Feb-28	Market Return			(0.0125)		0.0025	-0.0150
Mar-28	Market Return			0.1101		0.0027	0.1074
Apr-28	Market Return			0.0345		0.0026	0.0319
May-28	Market Return			0.0197		0.0027	0.0170
Jun-28	Market Return			(0.0385)		0.0027	-0.0412
Jul-28	Market Return			0.0141		0.0027	0.0114
Aug-28	Market Return			0.0803		0.0029	0.0774
Sep-28	Market Return			0.0259		0.0027	0.0232

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Oct-28	Market Return			0.0168		0.0030	0.0138
Nov-28	Market Return			0.1292		0.0027	0.1265
Dec-28	Market Return			0.0049		0.0029	0.0020
Jan-29	Market Return			0.0583		0.0029	0.0554
Feb-29	Market Return			(0.0019)		0.0027	-0.0046
Mar-29	Market Return			(0.0012)		0.0028	-0.0040
Apr-29	Market Return			0.0176		0.0034	0.0142
May-29	Market Return			(0.0362)		0.0030	-0.0392
Jun-29	Market Return			0.1140		0.0029	0.1111
Jul-29	Market Return			0.0471		0.0032	0.0439
Aug-29	Market Return			0.1028		0.0030	0.0998
Sep-29	Market Return			(0.0476)		0.0032	-0.0508
Oct-29	Market Return			(0.1973)		0.0031	-0.2004
Nov-29	Market Return			(0.1246)		0.0026	-0.1272
Dec-29	Market Return			0.0282		0.0031	0.0251
Jan-30	Market Return			0.0639		0.0029	0.0610
Feb-30	Market Return			0.0259		0.0026	0.0233
Mar-30	Market Return			0.0812		0.0029	0.0783
Apr-30	Market Return			(0.0080)		0.0027	-0.0107
May-30	Market Return			(0.0096)		0.0027	-0.0123
Jun-30	Market Return			(0.1625)		0.0029	-0.1654
Jul-30	Market Return			0.0386		0.0028	0.0358

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Aug-30	Market Return			0.0141		0.0026	0.0115
Sep-30	Market Return			(0.1282)		0.0029	-0.1311
Oct-30	Market Return			(0.0855)		0.0027	-0.0882
Nov-30	Market Return			(0.0089)		0.0026	-0.0115
Dec-30	Market Return			(0.0706)		0.0028	-0.0734
Jan-31	Market Return			0.0502		0.0028	0.0474
Feb-31	Market Return			0.1193		0.0026	0.1167
Mar-31	Market Return			(0.0675)		0.0029	-0.0704
Apr-31	Market Return			(0.0935)		0.0027	-0.0962
May-31	Market Return			(0.1279)		0.0026	-0.1305
Jun-31	Market Return			0.1421		0.0028	0.1393
Jul-31	Market Return			(0.0722)		0.0027	-0.0749
Aug-31	Market Return			0.0182		0.0027	0.0155
Sep-31	Market Return			(0.2973)		0.0027	-0.3000
Oct-31	Market Return			0.0896		0.0029	0.0867
Nov-31	Market Return			(0.0798)		0.0031	-0.0829
Dec-31	Market Return			(0.1400)		0.0032	-0.1432
Jan-32	Market Return			(0.0271)		0.0032	-0.0303
Feb-32	Market Return			0.0570		0.0032	0.0538
Mar-32	Market Return			(0.1158)		0.0031	-0.1189
Apr-32	Market Return			(0.1997)		0.0030	-0.2027
May-32	Market Return			(0.2196)		0.0028	-0.2224
Jun-32	Market Return			(0.0022)		0.0028	-0.0050
Jul-32	Market Return			0.3815		0.0028	0.3787
Aug-32	Market Return			0.3869		0.0028	0.3841
Sep-32	Market Return			(0.0346)		0.0026	-0.0372
Oct-32	Market Return			(0.1349)		0.0027	-0.1376
Nov-32	Market Return			(0.0417)		0.0026	-0.0443
Dec-32	Market Return			0.0565		0.0027	0.0538
Jan-33	Market Return			0.0087		0.0027	0.0060
Feb-33	Market Return			(0.1772)		0.0023	-0.1795
Mar-33	Market Return			0.0353		0.0027	0.0326
Apr-33	Market Return			0.4256		0.0025	0.4231

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
May-33	Market Return			0.1683		0.0028	0.1655
Jun-33	Market Return			0.1338		0.0025	0.1313
Jul-33	Market Return			(0.0862)		0.0026	-0.0888
Aug-33	Market Return			0.1206		0.0026	0.1180
Sep-33	Market Return			(0.1118)		0.0025	-0.1143
Oct-33	Market Return			(0.0855)		0.0026	-0.0881
Nov-33	Market Return			0.1127		0.0025	0.1102
Dec-33	Market Return			0.0253		0.0028	0.0225
Jan-34	Market Return			0.1069		0.0029	0.1040
Feb-34	Market Return			(0.0322)		0.0024	-0.0346
Mar-34	Market Return			-		0.0027	-0.0027
Apr-34	Market Return			(0.0251)		0.0025	-0.0276
May-34	Market Return			(0.0736)		0.0025	-0.0761
Jun-34	Market Return			0.0229		0.0024	0.0205
Jul-34	Market Return			(0.1132)		0.0024	-0.1156
Aug-34	Market Return			0.0611		0.0024	0.0587
Sep-34	Market Return			(0.0033)		0.0023	-0.0056
Oct-34	Market Return			(0.0286)		0.0027	-0.0313
Nov-34	Market Return			0.0942		0.0025	0.0917
Dec-34	Market Return			(0.0010)		0.0025	-0.0035
Jan-35	Market Return			(0.0411)		0.0025	-0.0436
Feb-35	Market Return			(0.0341)		0.0021	-0.0362
Mar-35	Market Return			(0.0286)		0.0022	-0.0308

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Apr-35	Market Return			0.0980		0.0023	0.0957
May-35	Market Return			0.0409		0.0023	0.0386
Jun-35	Market Return			0.0699		0.0022	0.0677
Jul-35	Market Return			0.0850		0.0024	0.0826
Aug-35	Market Return			0.0280		0.0023	0.0257
Sep-35	Market Return			0.0256		0.0023	0.0233
Oct-35	Market Return			0.0777		0.0023	0.0754
Nov-35	Market Return			0.0474		0.0024	0.0450
Dec-35	Market Return			0.0394		0.0024	0.0370
Jan-36	Market Return			0.0670		0.0024	0.0646
Feb-36	Market Return			0.0224		0.0023	0.0201
Mar-36	Market Return			0.0268		0.0024	0.0244
Apr-36	Market Return			(0.0751)		0.0022	-0.0773
May-36	Market Return			0.0545		0.0022	0.0523
Jun-36	Market Return			0.0333		0.0024	0.0309
Jul-36	Market Return			0.0701		0.0023	0.0678
Aug-36	Market Return			0.0151		0.0023	0.0128
Sep-36	Market Return			0.0031		0.0021	0.0010
Oct-36	Market Return			0.0775		0.0023	0.0752
Nov-36	Market Return			0.0134		0.0022	0.0112
Dec-36	Market Return			(0.0029)		0.0022	-0.0051
Jan-37	Market Return			0.0390		0.0021	0.0369
Feb-37	Market Return			0.0191		0.0020	0.0171
Mar-37	Market Return			(0.0077)		0.0022	-0.0099
Apr-37	Market Return			(0.0809)		0.0023	-0.0832
May-37	Market Return			(0.0024)		0.0022	-0.0046
Jun-37	Market Return			(0.0504)		0.0025	-0.0529
Jul-37	Market Return			0.1045		0.0024	0.1021
Aug-37	Market Return			(0.0483)		0.0023	-0.0506
Sep-37	Market Return			(0.1403)		0.0023	-0.1426
Oct-37	Market Return			(0.0981)		0.0023	-0.1004
Nov-37	Market Return			(0.0866)		0.0024	-0.0890
Dec-37	Market Return			(0.0459)		0.0023	-0.0482

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Jan-38	Market Return			0.0152		0.0023	0.0129
Feb-38	Market Return			0.0674		0.0021	0.0653
Mar-38	Market Return			(0.2487)		0.0023	-0.2510
Apr-38	Market Return			0.1447		0.0022	0.1425
May-38	Market Return			(0.0330)		0.0022	-0.0352
Jun-38	Market Return			0.2503		0.0021	0.2482
Jul-38	Market Return			0.0744		0.0021	0.0723
Aug-38	Market Return			(0.0226)		0.0022	-0.0248
Sep-38	Market Return			0.0166		0.0021	0.0145
Oct-38	Market Return			0.0776		0.0022	0.0754
Nov-38	Market Return			(0.0273)		0.0021	-0.0294
Dec-38	Market Return			0.0401		0.0022	0.0379
Jan-39	Market Return			(0.0674)		0.0021	-0.0695
Feb-39	Market Return			0.0390		0.0019	0.0371
Mar-39	Market Return			(0.1339)		0.0021	-0.1360
Apr-39	Market Return			(0.0027)		0.0019	-0.0046
May-39	Market Return			0.0733		0.0020	0.0713
Jun-39	Market Return			(0.0612)		0.0018	-0.0630
Jul-39	Market Return			0.1105		0.0019	0.1086
Aug-39	Market Return			(0.0648)		0.0018	-0.0666
Sep-39	Market Return			0.1673		0.0019	0.1654
Oct-39	Market Return			(0.0123)		0.0023	-0.0146
Nov-39	Market Return			(0.0398)		0.0020	-0.0418
Dec-39	Market Return			0.0270		0.0019	0.0251
Jan-40	Market Return			(0.0336)		0.0020	-0.0356
Feb-40	Market Return			0.0133		0.0018	0.0115
Mar-40	Market Return			0.0124		0.0019	0.0105
Apr-40	Market Return			(0.0024)		0.0018	-0.0042
May-40	Market Return			(0.2289)		0.0019	-0.2308
Jun-40	Market Return			0.0809		0.0019	0.0790
Jul-40	Market Return			0.0341		0.0020	0.0321
Aug-40	Market Return			0.0350		0.0019	0.0331
Sep-40	Market Return			0.0123		0.0018	0.0105

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Oct-40	Market Return			0.0422		0.0018	0.0404
Nov-40	Market Return			(0.0316)		0.0018	-0.0334
Dec-40	Market Return			0.0009		0.0017	-0.0008
Jan-41	Market Return			(0.0463)		0.0016	-0.0479
Feb-41	Market Return			(0.0060)		0.0016	-0.0076
Mar-41	Market Return			0.0071		0.0018	0.0053
Apr-41	Market Return			(0.0612)		0.0017	-0.0629
May-41	Market Return			0.0183		0.0017	0.0166
Jun-41	Market Return			0.0578		0.0016	0.0562
Jul-41	Market Return			0.0579		0.0016	0.0563
Aug-41	Market Return			0.0010		0.0016	-0.0006
Sep-41	Market Return			(0.0068)		0.0016	-0.0084
Oct-41	Market Return			(0.0657)		0.0016	-0.0673
Nov-41	Market Return			(0.0284)		0.0014	-0.0298
Dec-41	Market Return			(0.0407)		0.0016	-0.0423
Jan-42	Market Return			0.0161		0.0021	0.0140
Feb-42	Market Return			(0.0159)		0.0019	-0.0178
Mar-42	Market Return			(0.0652)		0.0021	-0.0673
Apr-42	Market Return			(0.0399)		0.0020	-0.0419
May-42	Market Return			0.0796		0.0019	0.0777
Jun-42	Market Return			0.0221		0.0021	0.0200
Jul-42	Market Return			0.0337		0.0021	0.0316
Aug-42	Market Return			0.0164		0.0021	0.0143
Sep-42	Market Return			0.0290		0.0020	0.0270
Oct-42	Market Return			0.0678		0.0021	0.0657
Nov-42	Market Return			(0.0021)		0.0020	-0.0041
Dec-42	Market Return			0.0549		0.0021	0.0528
Jan-43	Market Return			0.0737		0.0020	0.0717
Feb-43	Market Return			0.0583		0.0019	0.0564
Mar-43	Market Return			0.0545		0.0021	0.0524
Apr-43	Market Return			0.0035		0.0020	0.0015
May-43	Market Return			0.0552		0.0019	0.0533
Jun-43	Market Return			0.0223		0.0021	0.0202

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Jul-43	Market Return			(0.0526)		0.0021	-0.0547
Aug-43	Market Return			0.0171		0.0021	0.0150
Sep-43	Market Return			0.0263		0.0020	0.0243
Oct-43	Market Return			(0.0108)		0.0020	-0.0128
Nov-43	Market Return			(0.0654)		0.0021	-0.0675
Dec-43	Market Return			0.0617		0.0021	0.0596
Jan-44	Market Return			0.0171		0.0021	0.0150
Feb-44	Market Return			0.0042		0.0020	0.0022
Mar-44	Market Return			0.0195		0.0021	0.0174
Apr-44	Market Return			(0.0100)		0.0020	-0.0120
May-44	Market Return			0.0505		0.0022	0.0483
Jun-44	Market Return			0.0543		0.0020	0.0523
Jul-44	Market Return			(0.0193)		0.0021	-0.0214
Aug-44	Market Return			0.0157		0.0021	0.0136
Sep-44	Market Return			(0.0008)		0.0020	-0.0028
Oct-44	Market Return			0.0023		0.0021	0.0002
Nov-44	Market Return			0.0133		0.0020	0.0113
Dec-44	Market Return			0.0374		0.0020	0.0354
Jan-45	Market Return			0.0158		0.0021	0.0137
Feb-45	Market Return			0.0683		0.0018	0.0665
Mar-45	Market Return			(0.0441)		0.0020	-0.0461
Apr-45	Market Return			0.0902		0.0019	0.0883
May-45	Market Return			0.0195		0.0019	0.0176
Jun-45	Market Return			(0.0007)		0.0019	-0.0026
Jul-45	Market Return			(0.0180)		0.0018	-0.0198
Aug-45	Market Return			0.0641		0.0019	0.0622
Sep-45	Market Return			0.0438		0.0018	0.0420
Oct-45	Market Return			0.0322		0.0019	0.0303
Nov-45	Market Return			0.0396		0.0018	0.0378
Dec-45	Market Return			0.0116		0.0018	0.0098
Jan-46	Market Return			0.0714		0.0017	0.0697
Feb-46	Market Return			(0.0641)		0.0015	-0.0656
Mar-46	Market Return			0.0480		0.0016	0.0464

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Apr-46	Market Return			0.0393		0.0017	0.0376
May-46	Market Return			0.0288		0.0018	0.0270
Jun-46	Market Return			(0.0370)		0.0016	-0.0386
Jul-46	Market Return			(0.0239)		0.0019	-0.0258
Aug-46	Market Return			(0.0674)		0.0017	-0.0691
Sep-46	Market Return			(0.0997)		0.0018	-0.1015
Oct-46	Market Return			(0.0060)		0.0019	-0.0079
Nov-46	Market Return			(0.0027)		0.0018	-0.0045
Dec-46	Market Return			0.0457		0.0019	0.0438
Jan-47	Market Return			0.0255		0.0018	0.0237
Feb-47	Market Return			(0.0077)		0.0016	-0.0093
Mar-47	Market Return			(0.0149)		0.0018	-0.0167
Apr-47	Market Return			(0.0363)		0.0017	-0.0380
May-47	Market Return			0.0014		0.0017	-0.0003
Jun-47	Market Return			0.0554		0.0019	0.0535
Jul-47	Market Return			0.0381		0.0018	0.0363
Aug-47	Market Return			(0.0203)		0.0017	-0.0220
Sep-47	Market Return			(0.0111)		0.0018	-0.0129
Oct-47	Market Return			0.0238		0.0018	0.0220
Nov-47	Market Return			(0.0175)		0.0017	-0.0192
Dec-47	Market Return			0.0233		0.0021	0.0212
Jan-48	Market Return			(0.0379)		0.0020	-0.0399
Feb-48	Market Return			(0.0388)		0.0019	-0.0407
Mar-48	Market Return			0.0793		0.0022	0.0771
Apr-48	Market Return			0.0292		0.0020	0.0272
May-48	Market Return			0.0879		0.0018	0.0861
Jun-48	Market Return			0.0054		0.0021	0.0033
Jul-48	Market Return			(0.0508)		0.0019	-0.0527
Aug-48	Market Return			0.0158		0.0021	0.0137
Sep-48	Market Return			(0.0276)		0.0020	-0.0296
Oct-48	Market Return			0.0710		0.0019	0.0691
Nov-48	Market Return			(0.0961)		0.0021	-0.0982
Dec-48	Market Return			0.0346		0.0020	0.0326

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Jan-49	Market Return			0.0039		0.0020	0.0019
Feb-49	Market Return			(0.0296)		0.0018	-0.0314
Mar-49	Market Return			0.0328		0.0019	0.0309
Apr-49	Market Return			(0.0179)		0.0018	-0.0197
May-49	Market Return			(0.0258)		0.0020	-0.0278
Jun-49	Market Return			0.0014		0.0019	-0.0005
Jul-49	Market Return			0.0650		0.0017	0.0633
Aug-49	Market Return			0.0219		0.0019	0.0200
Sep-49	Market Return			0.0263		0.0017	0.0246
Oct-49	Market Return			0.0340		0.0018	0.0322
Nov-49	Market Return			0.0175		0.0017	0.0158
Dec-49	Market Return			0.0486		0.0017	0.0469
Jan-50	Market Return			0.0197		0.0018	0.0179
Feb-50	Market Return			0.0199		0.0016	0.0183
Mar-50	Market Return			0.0070		0.0018	0.0052
Apr-50	Market Return			0.0486		0.0016	0.0470
May-50	Market Return			0.0509		0.0019	0.0490
Jun-50	Market Return			(0.0548)		0.0017	-0.0565
Jul-50	Market Return			0.0119		0.0018	0.0101
Aug-50	Market Return			0.0443		0.0018	0.0425
Sep-50	Market Return			0.0592		0.0017	0.0575
Oct-50	Market Return			0.0093		0.0019	0.0074
Nov-50	Market Return			0.0169		0.0018	0.0151
Dec-50	Market Return			0.0513		0.0018	0.0495
Jan-51	Market Return			0.0637		0.0020	0.0617
Feb-51	Market Return			0.0157		0.0017	0.0140
Mar-51	Market Return			(0.0156)		0.0019	-0.0175
Apr-51	Market Return			0.0509		0.0020	0.0489
May-51	Market Return			(0.0299)		0.0021	-0.0320
Jun-51	Market Return			(0.0228)		0.0020	-0.0248
Jul-51	Market Return			0.0711		0.0023	0.0688
Aug-51	Market Return			0.0478		0.0021	0.0457
Sep-51	Market Return			0.0013		0.0019	-0.0006

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Oct-51	Market Return			(0.0103)		0.0023	-0.0126
Nov-51	Market Return			0.0096		0.0021	0.0075
Dec-51	Market Return			0.0424		0.0022	0.0402
Jan-52	Market Return			0.0181		0.0023	0.0158
Feb-52	Market Return			(0.0282)		0.0021	-0.0303
Mar-52	Market Return			0.0503		0.0023	0.0480
Apr-52	Market Return			(0.0402)		0.0022	-0.0424
May-52	Market Return			0.0343		0.0020	0.0323
Jun-52	Market Return			0.0490		0.0022	0.0468
Jul-52	Market Return			0.0196		0.0022	0.0174
Aug-52	Market Return			(0.0071)		0.0021	-0.0092
Sep-52	Market Return			(0.0176)		0.0023	-0.0199
Oct-52	Market Return			0.0020		0.0023	-0.0003
Nov-52	Market Return			0.0571		0.0021	0.0550
Dec-52	Market Return			0.0382		0.0024	0.0358
Jan-53	Market Return			(0.0049)		0.0023	-0.0072
Feb-53	Market Return			(0.0106)		0.0021	-0.0127
Mar-53	Market Return			(0.0212)		0.0025	-0.0237
Apr-53	Market Return			(0.0237)		0.0024	-0.0261
May-53	Market Return			0.0077		0.0024	0.0053
Jun-53	Market Return			(0.0134)		0.0027	-0.0161
Jul-53	Market Return			0.0273		0.0025	0.0248
Aug-53	Market Return			(0.0501)		0.0025	-0.0526
Sep-53	Market Return			0.0034		0.0025	0.0009
Oct-53	Market Return			0.0540		0.0023	0.0517
Nov-53	Market Return			0.0204		0.0024	0.0180
Dec-53	Market Return			0.0052		0.0024	0.0028
Jan-54	Market Return			0.0536		0.0023	0.0513
Feb-54	Market Return			0.0111		0.0022	0.0089
Mar-54	Market Return			0.0325		0.0025	0.0300
Apr-54	Market Return			0.0516		0.0022	0.0494
May-54	Market Return			0.0418		0.0020	0.0398
Jun-54	Market Return			0.0031		0.0025	0.0006

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Jul-54	Market Return			0.0589		0.0022	0.0567
Aug-54	Market Return			(0.0275)		0.0023	-0.0298
Sep-54	Market Return			0.0851		0.0022	0.0829
Oct-54	Market Return			(0.0167)		0.0021	-0.0188
Nov-54	Market Return			0.0909		0.0023	0.0886
Dec-54	Market Return			0.0534		0.0023	0.0511
Jan-55	Market Return			0.0197		0.0022	0.0175
Feb-55	Market Return			0.0098		0.0022	0.0076
Mar-55	Market Return			(0.0030)		0.0024	-0.0054
Apr-55	Market Return			0.0396		0.0022	0.0374
May-55	Market Return			0.0055		0.0025	0.0030
Jun-55	Market Return			0.0841		0.0023	0.0818
Jul-55	Market Return			0.0622		0.0023	0.0599
Aug-55	Market Return			(0.0025)		0.0027	-0.0052
Sep-55	Market Return			0.0130		0.0024	0.0106
Oct-55	Market Return			(0.0284)		0.0025	-0.0309
Nov-55	Market Return			0.0827		0.0024	0.0803
Dec-55	Market Return			0.0015		0.0024	-0.0009
Jan-56	Market Return			(0.0347)		0.0025	-0.0372
Feb-56	Market Return			0.0413		0.0023	0.0390
Mar-56	Market Return			0.0710		0.0023	0.0687
Apr-56	Market Return			(0.0004)		0.0026	-0.0030
May-56	Market Return			(0.0593)		0.0026	-0.0619
Jun-56	Market Return			0.0409		0.0023	0.0386
Jul-56	Market Return			0.0530		0.0026	0.0504
Aug-56	Market Return			(0.0328)		0.0026	-0.0354
Sep-56	Market Return			(0.0440)		0.0025	-0.0465
Oct-56	Market Return			0.0066		0.0029	0.0037
Nov-56	Market Return			(0.0050)		0.0027	-0.0077
Dec-56	Market Return			0.0370		0.0028	0.0342
Jan-57	Market Return			(0.0401)		0.0029	-0.0430
Feb-57	Market Return			(0.0264)		0.0025	-0.0289
Mar-57	Market Return			0.0215		0.0026	0.0189

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Apr-57	Market Return			0.0388		0.0029	0.0359
May-57	Market Return			0.0437		0.0029	0.0408
Jun-57	Market Return			0.0004		0.0025	-0.0021
Jul-57	Market Return			0.0131		0.0033	0.0098
Aug-57	Market Return			(0.0505)		0.0030	-0.0535
Sep-57	Market Return			(0.0602)		0.0031	-0.0633
Oct-57	Market Return			(0.0302)		0.0031	-0.0333
Nov-57	Market Return			0.0231		0.0029	0.0202
Dec-57	Market Return			(0.0395)		0.0029	-0.0424
Jan-58	Market Return			0.0445		0.0027	0.0418
Feb-58	Market Return			(0.0141)		0.0025	-0.0166
Mar-58	Market Return			0.0328		0.0027	0.0301
Apr-58	Market Return			0.0337		0.0026	0.0311
May-58	Market Return			0.0212		0.0024	0.0188
Jun-58	Market Return			0.0279		0.0027	0.0252
Jul-58	Market Return			0.0449		0.0027	0.0422
Aug-58	Market Return			0.0176		0.0027	0.0149
Sep-58	Market Return			0.0501		0.0032	0.0469
Oct-58	Market Return			0.0270		0.0032	0.0238
Nov-58	Market Return			0.0284		0.0028	0.0256
Dec-58	Market Return			0.0535		0.0033	0.0502
Jan-59	Market Return			0.0053		0.0031	0.0022
Feb-59	Market Return			0.0049		0.0031	0.0018
Mar-59	Market Return			0.0020		0.0035	-0.0015
Apr-59	Market Return			0.0402		0.0033	0.0369
May-59	Market Return			0.0240		0.0033	0.0207
Jun-59	Market Return			(0.0022)		0.0036	-0.0058
Jul-59	Market Return			0.0363		0.0035	0.0328
Aug-59	Market Return			(0.0102)		0.0035	-0.0137
Sep-59	Market Return			(0.0443)		0.0034	-0.0477
Oct-59	Market Return			0.0128		0.0035	0.0093
Nov-59	Market Return			0.0186		0.0035	0.0151
Dec-59	Market Return			0.0292		0.0036	0.0256

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Jan-60	Market Return			(0.0700)		0.0035	-0.0735
Feb-60	Market Return			0.0147		0.0037	0.0110
Mar-60	Market Return			(0.0123)		0.0036	-0.0159
Apr-60	Market Return			(0.0161)		0.0032	-0.0193
May-60	Market Return			0.0326		0.0037	0.0289
Jun-60	Market Return			0.0211		0.0034	0.0177
Jul-60	Market Return			(0.0234)		0.0032	-0.0266
Aug-60	Market Return			0.0317		0.0034	0.0283
Sep-60	Market Return			(0.0590)		0.0032	-0.0622
Oct-60	Market Return			(0.0007)		0.0033	-0.0040
Nov-60	Market Return			0.0465		0.0032	0.0433
Dec-60	Market Return			0.0479		0.0033	0.0446
Jan-61	Market Return			0.0645		0.0033	0.0612
Feb-61	Market Return			0.0319		0.0030	0.0289
Mar-61	Market Return			0.0270		0.0031	0.0239
Apr-61	Market Return			0.0051		0.0031	0.0020
May-61	Market Return			0.0239		0.0034	0.0205
Jun-61	Market Return			(0.0275)		0.0032	-0.0307
Jul-61	Market Return			0.0342		0.0033	0.0309
Aug-61	Market Return			0.0243		0.0033	0.0210
Sep-61	Market Return			(0.0184)		0.0032	-0.0216
Oct-61	Market Return			0.0298		0.0034	0.0264
Nov-61	Market Return			0.0447		0.0032	0.0415
Dec-61	Market Return			0.0046		0.0031	0.0015
Jan-62	Market Return			(0.0366)		0.0037	-0.0403
Feb-62	Market Return			0.0209		0.0032	0.0177
Mar-62	Market Return			(0.0046)		0.0033	-0.0079
Apr-62	Market Return			(0.0607)		0.0033	-0.0640
May-62	Market Return			(0.0811)		0.0032	-0.0843
Jun-62	Market Return			(0.0803)		0.0030	-0.0833
Jul-62	Market Return			0.0652		0.0034	0.0618
Aug-62	Market Return			0.0208		0.0034	0.0174
Sep-62	Market Return			(0.0465)		0.0030	-0.0495

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Oct-62	Market Return			0.0064		0.0035	0.0029
Nov-62	Market Return			0.1086		0.0031	0.1055
Dec-62	Market Return			0.0153		0.0032	0.0121
Jan-63	Market Return			0.0506		0.0032	0.0474
Feb-63	Market Return			(0.0239)		0.0029	-0.0268
Mar-63	Market Return			0.0370		0.0031	0.0339
Apr-63	Market Return			0.0500		0.0034	0.0466
May-63	Market Return			0.0193		0.0033	0.0160
Jun-63	Market Return			(0.0188)		0.0030	-0.0218
Jul-63	Market Return			(0.0022)		0.0036	-0.0058
Aug-63	Market Return			0.0535		0.0033	0.0502
Sep-63	Market Return			(0.0097)		0.0034	-0.0131
Oct-63	Market Return			0.0339		0.0034	0.0305
Nov-63	Market Return			(0.0046)		0.0032	-0.0078
Dec-63	Market Return			0.0262		0.0036	0.0226
Jan-64	Market Return			0.0283		0.0035	0.0248
Feb-64	Market Return			0.0147		0.0032	0.0115
Mar-64	Market Return			0.0165		0.0037	0.0128
Apr-64	Market Return			0.0075		0.0035	0.0040
May-64	Market Return			0.0162		0.0032	0.0130
Jun-64	Market Return			0.0178		0.0038	0.0140
Jul-64	Market Return			0.0195		0.0035	0.0160
Aug-64	Market Return			(0.0118)		0.0035	-0.0153
Sep-64	Market Return			0.0301		0.0034	0.0267
Oct-64	Market Return			0.0096		0.0034	0.0062
Nov-64	Market Return			0.0005		0.0035	-0.0030
Dec-64	Market Return			0.0056		0.0035	0.0021
Jan-65	Market Return			0.0345		0.0033	0.0312
Feb-65	Market Return			0.0031		0.0032	-0.0001
Mar-65	Market Return			(0.0133)		0.0038	-0.0171
Apr-65	Market Return			0.0356		0.0033	0.0323
May-65	Market Return			(0.0030)		0.0033	-0.0063
Jun-65	Market Return			(0.0473)		0.0038	-0.0511

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Jul-65	Market Return			0.0147		0.0034	0.0113
Aug-65	Market Return			0.0272		0.0037	0.0235
Sep-65	Market Return			0.0334		0.0035	0.0299
Oct-65	Market Return			0.0289		0.0034	0.0255
Nov-65	Market Return			(0.0031)		0.0037	-0.0068
Dec-65	Market Return			0.0106		0.0037	0.0069
Jan-66	Market Return			0.0062		0.0038	0.0024
Feb-66	Market Return			(0.0131)		0.0034	-0.0165
Mar-66	Market Return			(0.0205)		0.0040	-0.0245
Apr-66	Market Return			0.0220		0.0036	0.0184
May-66	Market Return			(0.0492)		0.0041	-0.0533
Jun-66	Market Return			(0.0146)		0.0039	-0.0185
Jul-66	Market Return			(0.0120)		0.0038	-0.0158
Aug-66	Market Return			(0.0725)		0.0043	-0.0768
Sep-66	Market Return			(0.0053)		0.0041	-0.0094
Oct-66	Market Return			0.0494		0.0040	0.0454
Nov-66	Market Return			0.0095		0.0038	0.0057
Dec-66	Market Return			0.0002		0.0039	-0.0037
Jan-67	Market Return			0.0798		0.0040	0.0758
Feb-67	Market Return			0.0072		0.0034	0.0038
Mar-67	Market Return			0.0409		0.0039	0.0370
Apr-67	Market Return			0.0437		0.0035	0.0402
May-67	Market Return			(0.0477)		0.0043	-0.0520
Jun-67	Market Return			0.0190		0.0039	0.0151
Jul-67	Market Return			0.0468		0.0043	0.0425
Aug-67	Market Return			(0.0070)		0.0042	-0.0112
Sep-67	Market Return			0.0342		0.0040	0.0302
Oct-67	Market Return			(0.0276)		0.0045	-0.0321
Nov-67	Market Return			0.0065		0.0045	0.0020
Dec-67	Market Return			0.0278		0.0044	0.0234
Jan-68	Market Return			(0.0425)		0.0050	-0.0475
Feb-68	Market Return			(0.0261)		0.0042	-0.0303
Mar-68	Market Return			0.0110		0.0043	0.0067

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Apr-68	Market Return			0.0834		0.0049	0.0785
May-68	Market Return			0.0161		0.0046	0.0115
Jun-68	Market Return			0.0105		0.0042	0.0063
Jul-68	Market Return			(0.0172)		0.0048	-0.0220
Aug-68	Market Return			0.0164		0.0042	0.0122
Sep-68	Market Return			0.0400		0.0044	0.0356
Oct-68	Market Return			0.0087		0.0045	0.0042
Nov-68	Market Return			0.0531		0.0043	0.0488
Dec-68	Market Return			(0.0402)		0.0049	-0.0451
Jan-69	Market Return			(0.0068)		0.0050	-0.0118
Feb-69	Market Return			(0.0426)		0.0046	-0.0472
Mar-69	Market Return			0.0359		0.0047	0.0312
Apr-69	Market Return			0.0229		0.0055	0.0174
May-69	Market Return			0.0026		0.0047	-0.0021
Jun-69	Market Return			(0.0542)		0.0055	-0.0597
Jul-69	Market Return			(0.0587)		0.0052	-0.0639
Aug-69	Market Return			0.0454		0.0048	0.0406
Sep-69	Market Return			(0.0236)		0.0055	-0.0291
Oct-69	Market Return			0.0459		0.0057	0.0402
Nov-69	Market Return			(0.0297)		0.0049	-0.0346
Dec-69	Market Return			(0.0177)		0.0060	-0.0237
Jan-70	Market Return			(0.0743)		0.0056	-0.0799
Feb-70	Market Return			0.0586		0.0052	0.0534
Mar-70	Market Return			0.0030		0.0056	-0.0026
Apr-70	Market Return			(0.0889)		0.0054	-0.0943
May-70	Market Return			(0.0547)		0.0055	-0.0602
Jun-70	Market Return			(0.0482)		0.0064	-0.0546
Jul-70	Market Return			0.0752		0.0059	0.0693
Aug-70	Market Return			0.0509		0.0057	0.0452
Sep-70	Market Return			0.0347		0.0056	0.0291
Oct-70	Market Return			(0.0097)		0.0055	-0.0152
Nov-70	Market Return			0.0536		0.0058	0.0478
Dec-70	Market Return			0.0584		0.0053	0.0531

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Jan-71	Market Return			0.0419		0.0051	0.0368
Feb-71	Market Return			0.0141		0.0046	0.0095
Mar-71	Market Return			0.0382		0.0056	0.0326
Apr-71	Market Return			0.0377		0.0048	0.0329
May-71	Market Return			(0.0367)		0.0047	-0.0414
Jun-71	Market Return			0.0021		0.0056	-0.0035
Jul-71	Market Return			(0.0399)		0.0052	-0.0451
Aug-71	Market Return			0.0412		0.0055	0.0357
Sep-71	Market Return			(0.0056)		0.0049	-0.0105
Oct-71	Market Return			(0.0404)		0.0047	-0.0451
Nov-71	Market Return			0.0027		0.0051	-0.0024
Dec-71	Market Return			0.0877		0.0050	0.0827
Jan-72	Market Return			0.0194		0.0050	0.0144
Feb-72	Market Return			0.0299		0.0047	0.0252
Mar-72	Market Return			0.0072		0.0049	0.0023
Apr-72	Market Return			0.0057		0.0048	0.0009
May-72	Market Return			0.0219		0.0055	0.0164
Jun-72	Market Return			(0.0205)		0.0049	-0.0254
Jul-72	Market Return			0.0036		0.0051	-0.0015
Aug-72	Market Return			0.0391		0.0049	0.0342
Sep-72	Market Return			(0.0036)		0.0047	-0.0083
Oct-72	Market Return			0.0107		0.0052	0.0055
Nov-72	Market Return			0.0505		0.0048	0.0457
Dec-72	Market Return			0.0131		0.0045	0.0086
Jan-73	Market Return			(0.0159)		0.0054	-0.0213
Feb-73	Market Return			(0.0333)		0.0051	-0.0384
Mar-73	Market Return			(0.0002)		0.0056	-0.0058
Apr-73	Market Return			(0.0395)		0.0057	-0.0452
May-73	Market Return			(0.0139)		0.0058	-0.0197
Jun-73	Market Return			(0.0051)		0.0055	-0.0106
Jul-73	Market Return			0.0394		0.0061	0.0333
Aug-73	Market Return			(0.0318)		0.0062	-0.0380
Sep-73	Market Return			0.0415		0.0055	0.0360

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Oct-73	Market Return			0.0003		0.0063	-0.0060
Nov-73	Market Return			(0.1082)		0.0056	-0.1138
Dec-73	Market Return			0.0183		0.0060	0.0123
Jan-74	Market Return			(0.0085)		0.0061	-0.0146
Feb-74	Market Return			0.0019		0.0055	-0.0036
Mar-74	Market Return			(0.0217)		0.0058	-0.0275
Apr-74	Market Return			(0.0373)		0.0068	-0.0441
May-74	Market Return			(0.0272)		0.0068	-0.0340
Jun-74	Market Return			(0.0128)		0.0061	-0.0189
Jul-74	Market Return			(0.0759)		0.0072	-0.0831
Aug-74	Market Return			(0.0828)		0.0065	-0.0893
Sep-74	Market Return			(0.1170)		0.0071	-0.1241
Oct-74	Market Return			0.1657		0.0070	0.1587
Nov-74	Market Return			(0.0448)		0.0062	-0.0510
Dec-74	Market Return			(0.0177)		0.0067	-0.0244
Jan-75	Market Return			0.1251		0.0068	0.1183
Feb-75	Market Return			0.0674		0.0060	0.0614
Mar-75	Market Return			0.0237		0.0066	0.0171
Apr-75	Market Return			0.0493		0.0067	0.0426
May-75	Market Return			0.0509		0.0067	0.0442
Jun-75	Market Return			0.0462		0.0070	0.0392
Jul-75	Market Return			(0.0659)		0.0068	-0.0727
Aug-75	Market Return			(0.0144)		0.0065	-0.0209
Sep-75	Market Return			(0.0328)		0.0073	-0.0401
Oct-75	Market Return			0.0637		0.0072	0.0565
Nov-75	Market Return			0.0313		0.0061	0.0252
Dec-75	Market Return			(0.0096)		0.0074	-0.0170
Jan-76	Market Return			0.1199		0.0065	0.1134
Feb-76	Market Return			(0.0058)		0.0060	-0.0118
Mar-76	Market Return			0.0326		0.0071	0.0255
Apr-76	Market Return			(0.0099)		0.0064	-0.0163
May-76	Market Return			(0.0073)		0.0059	-0.0132
Jun-76	Market Return			0.0427		0.0073	0.0354

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Jul-76	Market Return			(0.0068)		0.0065	-0.0133
Aug-76	Market Return			0.0014		0.0069	-0.0055
Sep-76	Market Return			0.0247		0.0064	0.0183
Oct-76	Market Return			(0.0206)		0.0061	-0.0267
Nov-76	Market Return			(0.0009)		0.0066	-0.0075
Dec-76	Market Return			0.0540		0.0063	0.0477
Jan-77	Market Return			(0.0489)		0.0059	-0.0548
Feb-77	Market Return			(0.0151)		0.0057	-0.0208
Mar-77	Market Return			(0.0119)		0.0065	-0.0184
Apr-77	Market Return			0.0014		0.0061	-0.0047
May-77	Market Return			(0.0150)		0.0067	-0.0217
Jun-77	Market Return			0.0475		0.0062	0.0413
Jul-77	Market Return			(0.0151)		0.0059	-0.0210
Aug-77	Market Return			(0.0133)		0.0067	-0.0200
Sep-77	Market Return			-		0.0061	-0.0061
Oct-77	Market Return			(0.0415)		0.0063	-0.0478
Nov-77	Market Return			0.0370		0.0063	0.0307
Dec-77	Market Return			0.0048		0.0062	-0.0014
Jan-78	Market Return			(0.0596)		0.0069	-0.0665
Feb-78	Market Return			(0.0161)		0.0060	-0.0221
Mar-78	Market Return			0.0276		0.0069	0.0207
Apr-78	Market Return			0.0870		0.0063	0.0807
May-78	Market Return			0.0136		0.0075	0.0061
Jun-78	Market Return			(0.0152)		0.0069	-0.0221
Jul-78	Market Return			0.0560		0.0073	0.0487
Aug-78	Market Return			0.0340		0.0070	0.0270
Sep-78	Market Return			(0.0048)		0.0065	-0.0113
Oct-78	Market Return			(0.0891)		0.0073	-0.0964
Nov-78	Market Return			0.0260		0.0071	0.0189
Dec-78	Market Return			0.0172		0.0068	0.0104
Jan-79	Market Return			0.0421		0.0079	0.0342
Feb-79	Market Return			(0.0284)		0.0065	-0.0349
Mar-79	Market Return			0.0575		0.0074	0.0501

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Apr-79	Market Return			0.0036		0.0076	-0.0040
May-79	Market Return			(0.0168)		0.0077	-0.0245
Jun-79	Market Return			0.0410		0.0071	0.0339
Jul-79	Market Return			0.0110		0.0076	0.0034
Aug-79	Market Return			0.0611		0.0073	0.0538
Sep-79	Market Return			0.0025		0.0068	-0.0043
Oct-79	Market Return			(0.0656)		0.0082	-0.0738
Nov-79	Market Return			0.0514		0.0083	0.0431
Dec-79	Market Return			0.0192		0.0083	0.0109
Jan-80	Market Return			0.0610		0.0083	0.0527
Feb-80	Market Return			0.0031		0.0084	-0.0053
Mar-80	Market Return			(0.0987)		0.0099	-0.1086
Apr-80	Market Return			0.0429		0.0100	0.0329
May-80	Market Return			0.0562		0.0087	0.0475
Jun-80	Market Return			0.0296		0.0086	0.0210
Jul-80	Market Return			0.0676		0.0084	0.0592
Aug-80	Market Return			0.0131		0.0081	0.0050
Sep-80	Market Return			0.0281		0.0097	0.0184
Oct-80	Market Return			0.0187		0.0097	0.0090
Nov-80	Market Return			0.1095		0.0091	0.1004
Dec-80	Market Return			(0.0315)		0.0108	-0.0423
Jan-81	Market Return			(0.0438)		0.0094	-0.0532
Feb-81	Market Return			0.0208		0.0088	0.0120
Mar-81	Market Return			0.0380		0.0111	0.0269
Apr-81	Market Return			(0.0213)		0.0101	-0.0314
May-81	Market Return			0.0062		0.0104	-0.0042
Jun-81	Market Return			(0.0080)		0.0109	-0.0189
Jul-81	Market Return			0.0007		0.0109	-0.0102
Aug-81	Market Return			(0.0554)		0.0110	-0.0664
Sep-81	Market Return			(0.0502)		0.0114	-0.0616
Oct-81	Market Return			0.0528		0.0117	0.0411
Nov-81	Market Return			0.0441		0.0113	0.0328
Dec-81	Market Return			(0.0265)		0.0100	-0.0365

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Jan-82	Market Return			(0.0163)		0.0108	-0.0271
Feb-82	Market Return			(0.0512)		0.0103	-0.0615
Mar-82	Market Return			(0.0060)		0.0124	-0.0184
Apr-82	Market Return			0.0414		0.0112	0.0302
May-82	Market Return			(0.0288)		0.0101	-0.0389
Jun-82	Market Return			(0.0174)		0.0120	-0.0294
Jul-82	Market Return			(0.0215)		0.0114	-0.0329
Aug-82	Market Return			0.1267		0.0112	0.1155
Sep-82	Market Return			0.0110		0.0100	0.0010
Oct-82	Market Return			0.1126		0.0091	0.1035
Nov-82	Market Return			0.0438		0.0094	0.0344
Dec-82	Market Return			0.0173		0.0093	0.0080
Jan-83	Market Return			0.0348		0.0087	0.0261
Feb-83	Market Return			0.0260		0.0081	0.0179
Mar-83	Market Return			0.0365		0.0089	0.0276
Apr-83	Market Return			0.0758		0.0085	0.0673
May-83	Market Return			(0.0052)		0.0091	-0.0143
Jun-83	Market Return			0.0382		0.0090	0.0292
Jul-83	Market Return			(0.0313)		0.0088	-0.0401
Aug-83	Market Return			0.0170		0.0103	0.0067
Sep-83	Market Return			0.0136		0.0096	0.0040
Oct-83	Market Return			(0.0134)		0.0095	-0.0229
Nov-83	Market Return			0.0233		0.0094	0.0139
Dec-83	Market Return			(0.0061)		0.0094	-0.0155
Jan-84	Market Return			(0.0065)		0.0103	-0.0168
Feb-84	Market Return			(0.0328)		0.0092	-0.0420
Mar-84	Market Return			0.0171		0.0098	0.0073
Apr-84	Market Return			0.0069		0.0104	-0.0035
May-84	Market Return			(0.0534)		0.0103	-0.0637
Jun-84	Market Return			0.0221		0.0106	0.0115
Jul-84	Market Return			(0.0143)		0.0116	-0.0259
Aug-84	Market Return			0.1125		0.0106	0.1019
Sep-84	Market Return			0.0002		0.0094	-0.0092

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Oct-84	Market Return			0.0026		0.0108	-0.0082
Nov-84	Market Return			(0.0101)		0.0091	-0.0192
Dec-84	Market Return			0.0253		0.0098	0.0155
Jan-85	Market Return			0.0768		0.0096	0.0672
Feb-85	Market Return			0.0137		0.0082	0.0055
Mar-85	Market Return			0.0018		0.0094	-0.0076
Apr-85	Market Return			(0.0032)		0.0102	-0.0134
May-85	Market Return			0.0615		0.0097	0.0518
Jun-85	Market Return			0.0159		0.0080	0.0079
Jul-85	Market Return			(0.0026)		0.0094	-0.0120
Aug-85	Market Return			(0.0061)		0.0085	-0.0146
Sep-85	Market Return			(0.0321)		0.0088	-0.0409
Oct-85	Market Return			0.0447		0.0089	0.0358
Nov-85	Market Return			0.0716		0.0081	0.0635
Dec-85	Market Return			0.0467		0.0086	0.0381
Jan-86	Market Return			0.0044		0.0079	-0.0035
Feb-86	Market Return			0.0761		0.0073	0.0688
Mar-86	Market Return			0.0554		0.0071	0.0483
Apr-86	Market Return			(0.0124)		0.0063	-0.0187
May-86	Market Return			0.0549		0.0062	0.0487
Jun-86	Market Return			0.0166		0.0070	0.0096
Jul-86	Market Return			(0.0569)		0.0066	-0.0635
Aug-86	Market Return			0.0748		0.0063	0.0685
Sep-86	Market Return			(0.0822)		0.0065	-0.0887
Oct-86	Market Return			0.0556		0.0069	0.0487
Nov-86	Market Return			0.0256		0.0059	0.0197
Dec-86	Market Return			(0.0264)		0.0070	-0.0334
Jan-87	Market Return			0.1343		0.0064	0.1279
Feb-87	Market Return			0.0413		0.0059	0.0354
Mar-87	Market Return			0.0272		0.0066	0.0206
Apr-87	Market Return			(0.0088)		0.0065	-0.0153
May-87	Market Return			0.0103		0.0066	0.0037
Jun-87	Market Return			0.0499		0.0075	0.0424

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Jul-87	Market Return			0.0498		0.0073	0.0425
Aug-87	Market Return			0.0385		0.0075	0.0310
Sep-87	Market Return			(0.0220)		0.0075	-0.0295
Oct-87	Market Return			(0.2152)		0.0079	-0.2231
Nov-87	Market Return			(0.0819)		0.0075	-0.0894
Dec-87	Market Return			0.0738		0.0078	0.0660
Jan-88	Market Return			0.0427		0.0072	0.0355
Feb-88	Market Return			0.0470		0.0071	0.0399
Mar-88	Market Return			(0.0302)		0.0072	-0.0374
Apr-88	Market Return			0.0108		0.0070	0.0038
May-88	Market Return			0.0078		0.0078	0.0000
Jun-88	Market Return			0.0464		0.0076	0.0388
Jul-88	Market Return			(0.0040)		0.0071	-0.0111
Aug-88	Market Return			(0.0331)		0.0083	-0.0414
Sep-88	Market Return			0.0424		0.0076	0.0348
Oct-88	Market Return			0.0273		0.0076	0.0197
Nov-88	Market Return			(0.0142)		0.0070	-0.0212
Dec-88	Market Return			0.0181		0.0075	0.0106
Jan-89	Market Return			0.0723		0.0080	0.0643
Feb-89	Market Return			(0.0249)		0.0069	-0.0318
Mar-89	Market Return			0.0236		0.0079	0.0157
Apr-89	Market Return			0.0516		0.0070	0.0446
May-89	Market Return			0.0402		0.0080	0.0322
Jun-89	Market Return			(0.0054)		0.0070	-0.0124
Jul-89	Market Return			0.0898		0.0068	0.0830
Aug-89	Market Return			0.0193		0.0066	0.0127
Sep-89	Market Return			(0.0039)		0.0065	-0.0104
Oct-89	Market Return			(0.0233)		0.0072	-0.0305
Nov-89	Market Return			0.0208		0.0064	0.0144
Dec-89	Market Return			0.0236		0.0064	0.0172
Jan-90	Market Return			(0.0671)		0.0073	-0.0744
Feb-90	Market Return			0.0129		0.0066	0.0063
Mar-90	Market Return			0.0263		0.0071	0.0192

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Apr-90	Market Return			(0.0247)		0.0075	-0.0322
May-90	Market Return			0.0975		0.0075	0.0900
Jun-90	Market Return			(0.0070)		0.0068	-0.0138
Jul-90	Market Return			(0.0032)		0.0074	-0.0106
Aug-90	Market Return			(0.0903)		0.0071	-0.0974
Sep-90	Market Return			(0.0492)		0.0069	-0.0561
Oct-90	Market Return			(0.0037)		0.0081	-0.0118
Nov-90	Market Return			0.0644		0.0071	0.0573
Dec-90	Market Return			0.0274		0.0072	0.0202
Jan-91	Market Return			0.0442		0.0071	0.0371
Feb-91	Market Return			0.0716		0.0064	0.0652
Mar-91	Market Return			0.0238		0.0064	0.0174
Apr-91	Market Return			0.0028		0.0076	-0.0048
May-91	Market Return			0.0428		0.0068	0.0360
Jun-91	Market Return			(0.0457)		0.0063	-0.0520
Jul-91	Market Return			0.0468		0.0076	0.0392
Aug-91	Market Return			0.0235		0.0068	0.0167
Sep-91	Market Return			(0.0164)		0.0068	-0.0232
Oct-91	Market Return			0.0134		0.0065	0.0069
Nov-91	Market Return			(0.0404)		0.0060	-0.0464
Dec-91	Market Return			0.1143		0.0068	0.1075
Jan-92	Market Return			(0.0186)		0.0061	-0.0247
Feb-92	Market Return			0.0128		0.0059	0.0069
Mar-92	Market Return			(0.0196)		0.0067	-0.0263
Apr-92	Market Return			0.0291		0.0065	0.0226
May-92	Market Return			0.0054		0.0061	-0.0007
Jun-92	Market Return			(0.0145)		0.0067	-0.0212
Jul-92	Market Return			0.0403		0.0063	0.0340
Aug-92	Market Return			(0.0202)		0.0060	-0.0262
Sep-92	Market Return			0.0115		0.0058	0.0057
Oct-92	Market Return			0.0036		0.0057	-0.0021
Nov-92	Market Return			0.0337		0.0061	0.0276
Dec-92	Market Return			0.0131		0.0063	0.0068

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Jan-93	Market Return			0.0073		0.0059	0.0014
Feb-93	Market Return			0.0135		0.0055	0.0080
Mar-93	Market Return			0.0215		0.0063	0.0152
Apr-93	Market Return			(0.0245)		0.0057	-0.0302
May-93	Market Return			0.0270		0.0052	0.0218
Jun-93	Market Return			0.0033		0.0062	-0.0029
Jul-93	Market Return			(0.0047)		0.0054	-0.0101
Aug-93	Market Return			0.0381		0.0056	0.0325
Sep-93	Market Return			(0.0074)		0.0050	-0.0124
Oct-93	Market Return			0.0203		0.0049	0.0154
Nov-93	Market Return			(0.0094)		0.0053	-0.0147
Dec-93	Market Return			0.0123		0.0055	0.0068
Jan-94	Market Return			0.0335		0.0055	0.0280
Feb-94	Market Return			(0.0270)		0.0049	-0.0319
Mar-94	Market Return			(0.0435)		0.0058	-0.0493
Apr-94	Market Return			0.0130		0.0057	0.0073
May-94	Market Return			0.0163		0.0063	0.0100
Jun-94	Market Return			(0.0247)		0.0061	-0.0308
Jul-94	Market Return			0.0331		0.0060	0.0271
Aug-94	Market Return			0.0407		0.0066	0.0341
Sep-94	Market Return			(0.0241)		0.0061	-0.0302
Oct-94	Market Return			0.0229		0.0066	0.0163
Nov-94	Market Return			(0.0367)		0.0064	-0.0431
Dec-94	Market Return			0.0146		0.0066	0.0080
Jan-95	Market Return			0.0260		0.0070	0.0190
Feb-95	Market Return			0.0388		0.0059	0.0329
Mar-95	Market Return			0.0296		0.0064	0.0232
Apr-95	Market Return			0.0291		0.0058	0.0233
May-95	Market Return			0.0395		0.0065	0.0330
Jun-95	Market Return			0.0235		0.0054	0.0181
Jul-95	Market Return			0.0333		0.0056	0.0277
Aug-95	Market Return			0.0027		0.0057	-0.0030
Sep-95	Market Return			0.0419		0.0052	0.0367

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Oct-95	Market Return			(0.0035)		0.0057	-0.0092
Nov-95	Market Return			0.0440		0.0051	0.0389
Dec-95	Market Return			0.0185		0.0049	0.0136
Jan-96	Market Return			0.0344		0.0054	0.0290
Feb-96	Market Return			0.0096		0.0048	0.0048
Mar-96	Market Return			0.0096		0.0052	0.0044
Apr-96	Market Return			0.0147		0.0059	0.0088
May-96	Market Return			0.0258		0.0058	0.0200
Jun-96	Market Return			0.0041		0.0054	-0.0013
Jul-96	Market Return			(0.0445)		0.0062	-0.0507
Aug-96	Market Return			0.0212		0.0057	0.0155
Sep-96	Market Return			0.0562		0.0060	0.0502
Oct-96	Market Return			0.0274		0.0058	0.0216
Nov-96	Market Return			0.0759		0.0052	0.0707
Dec-96	Market Return			(0.0196)		0.0056	-0.0252
Jan-97	Market Return			0.0621		0.0056	0.0565
Feb-97	Market Return			0.0081		0.0051	0.0030
Mar-97	Market Return			(0.0416)		0.0059	-0.0475
Apr-97	Market Return			0.0597		0.0059	0.0538
May-97	Market Return			0.0614		0.0058	0.0556
Jun-97	Market Return			0.0446		0.0059	0.0387
Jul-97	Market Return			0.0794		0.0058	0.0736
Aug-97	Market Return			(0.0556)		0.0049	-0.0605
Sep-97	Market Return			0.0548		0.0058	0.0490
Oct-97	Market Return			(0.0334)		0.0054	-0.0388
Nov-97	Market Return			0.0463		0.0047	0.0416
Dec-97	Market Return			0.0172		0.0054	0.0118
Jan-98	Market Return			0.0111		0.0048	0.0063
Feb-98	Market Return			0.0721		0.0044	0.0677
Mar-98	Market Return			0.0512		0.0052	0.0460
Apr-98	Market Return			0.0101		0.0049	0.0052
May-98	Market Return			(0.0172)		0.0048	-0.0220
Jun-98	Market Return			0.0406		0.0052	0.0354

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Jul-98	Market Return			(0.0106)		0.0049	-0.0155
Aug-98	Market Return			(0.1446)		0.0048	-0.1494
Sep-98	Market Return			0.0641		0.0044	0.0597
Oct-98	Market Return			0.0813		0.0042	0.0771
Nov-98	Market Return			0.0606		0.0045	0.0561
Dec-98	Market Return			0.0576		0.0045	0.0531
Jan-99	Market Return			0.0418		0.0042	0.0376
Feb-99	Market Return			(0.0311)		0.0040	-0.0351
Mar-99	Market Return			0.0400		0.0053	0.0347
Apr-99	Market Return			0.0387		0.0048	0.0339
May-99	Market Return			(0.0236)		0.0045	-0.0281
Jun-99	Market Return			0.0555		0.0055	0.0500
Jul-99	Market Return			(0.0312)		0.0051	-0.0363
Aug-99	Market Return			(0.0050)		0.0054	-0.0104
Sep-99	Market Return			(0.0274)		0.0052	-0.0326
Oct-99	Market Return			0.0633		0.0050	0.0583
Nov-99	Market Return			0.0203		0.0056	0.0147
Dec-99	Market Return			0.0589		0.0055	0.0534
Jan-00	Market Return			(0.0502)		0.0057	-0.0559
Feb-00	Market Return			(0.0189)		0.0051	-0.0240
Mar-00	Market Return			0.0978		0.0054	0.0924
Apr-00	Market Return			(0.0301)		0.0047	-0.0348
May-00	Market Return			(0.0205)		0.0056	-0.0261
Jun-00	Market Return			0.0246		0.0052	0.0194
Jul-00	Market Return			(0.0156)		0.0052	-0.0208
Aug-00	Market Return			0.0621		0.0050	0.0571
Sep-00	Market Return			(0.0528)		0.0046	-0.0574
Oct-00	Market Return			(0.0042)		0.0053	-0.0095
Nov-00	Market Return			(0.0788)		0.0048	-0.0836
Dec-00	Market Return			0.0049		0.0045	0.0004
Jan-01	Market Return			0.0355		0.0049	0.0306
Feb-01	Market Return			(0.0912)		0.0042	-0.0954
Mar-01	Market Return			(0.0634)		0.0045	-0.0679

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Apr-01	Market Return			0.0777		0.0047	0.0730
May-01	Market Return			0.0067		0.0050	0.0017
Jun-01	Market Return			(0.0243)		0.0047	-0.0290
Jul-01	Market Return			(0.0098)		0.0052	-0.0150
Aug-01	Market Return			(0.0626)		0.0046	-0.0672
Sep-01	Market Return			(0.0808)		0.0041	-0.0849
Oct-01	Market Return			0.0191		0.0048	0.0143
Nov-01	Market Return			0.0767		0.0041	0.0726
Dec-01	Market Return			0.0088		0.0046	0.0042
Jan-02	Market Return			(0.0146)		0.0048	-0.0194
Feb-02	Market Return			(0.0193)		0.0043	-0.0236
Mar-02	Market Return			0.0376		0.0043	0.0333
Apr-02	Market Return			(0.0606)		0.0054	-0.0660
May-02	Market Return			(0.0074)		0.0049	-0.0123
Jun-02	Market Return			(0.0712)		0.0044	-0.0756
Jul-02	Market Return			(0.0780)		0.0051	-0.0831
Aug-02	Market Return			0.0066		0.0044	0.0022
Sep-02	Market Return			(0.1087)		0.0042	-0.1129
Oct-02	Market Return			0.0880		0.0040	0.0840
Nov-02	Market Return			0.0589		0.0040	0.0549
Dec-02	Market Return			(0.0588)		0.0045	-0.0633
Jan-03	Market Return			(0.0262)		0.0041	-0.0303
Feb-03	Market Return			(0.0150)		0.0038	-0.0188
Mar-03	Market Return			0.0097		0.0040	0.0057
Apr-03	Market Return			0.0824		0.0040	0.0784
May-03	Market Return			0.0527		0.0039	0.0488
Jun-03	Market Return			0.0128		0.0036	0.0092
Jul-03	Market Return			0.0176		0.0038	0.0138
Aug-03	Market Return			0.0195		0.0042	0.0153
Sep-03	Market Return			(0.0106)		0.0046	-0.0152
Oct-03	Market Return			0.0566		0.0041	0.0525
Nov-03	Market Return			0.0088		0.0039	0.0049
Dec-03	Market Return			0.0524		0.0047	0.0477

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Jan-04	Market Return			0.0184		0.0042	0.0142
Feb-04	Market Return			0.0139		0.0038	0.0101
Mar-04	Market Return			(0.0151)		0.0043	-0.0194
Apr-04	Market Return			(0.0157)		0.0039	-0.0196
May-04	Market Return			0.0137		0.0040	0.0097
Jun-04	Market Return			0.0194		0.0048	0.0146
Jul-04	Market Return			(0.0331)		0.0043	-0.0374
Aug-04	Market Return			0.0040		0.0045	-0.0005
Sep-04	Market Return			0.0108		0.0040	0.0068
Oct-04	Market Return			0.0153		0.0038	0.0115
Nov-04	Market Return			0.0405		0.0041	0.0364
Dec-04	Market Return			0.0340		0.0043	0.0297
Jan-05	Market Return			(0.0244)		0.0041	-0.0285
Feb-05	Market Return			0.0210		0.0035	0.0175
Mar-05	Market Return			(0.0177)		0.0041	-0.0218

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Apr-05	Market Return			(0.0190)		0.0039	-0.0229
May-05	Market Return			0.0318		0.0040	0.0278
Jun-05	Market Return			0.0014		0.0036	-0.0022
Jul-05	Market Return			0.0372		0.0034	0.0338
Aug-05	Market Return			(0.0091)		0.0040	-0.0131
Sep-05	Market Return			0.0081		0.0035	0.0046
Oct-05	Market Return			(0.0167)		0.0039	-0.0206
Nov-05	Market Return			0.0378		0.0039	0.0339
Dec-05	Market Return			0.0003		0.0039	-0.0036
Jan-06	Market Return			0.0265		0.0040	0.0225
Feb-06	Market Return			0.0027		0.0036	-0.0009
Mar-06	Market Return			0.0124		0.0039	0.0085
Apr-06	Market Return			0.0134		0.0039	0.0095
May-06	Market Return			(0.0288)		0.0048	-0.0336
Jun-06	Market Return			0.0014		0.0044	-0.0030
Jul-06	Market Return			0.0062		0.0045	0.0017
Aug-06	Market Return			0.0238		0.0043	0.0195
Sep-06	Market Return			0.0258		0.0039	0.0219
Oct-06	Market Return			0.0326		0.0042	0.0284
Nov-06	Market Return			0.0190		0.0039	0.0151
Dec-06	Market Return			0.0140		0.0036	0.0104
Jan-07	Market Return			0.0151		0.0043	0.0108
Feb-07	Market Return			(0.0196)		0.0038	-0.0234
Mar-07	Market Return			0.0112		0.0039	0.0073
Apr-07	Market Return			0.0443		0.0042	0.0401
May-07	Market Return			0.0349		0.0041	0.0308
Jun-07	Market Return			(0.0166)		0.0040	-0.0206
Jul-07	Market Return			(0.0310)		0.0046	-0.0356
Aug-07	Market Return			0.0150		0.0042	0.0108
Sep-07	Market Return			0.0375		0.0037	0.0338
Oct-07	Market Return			0.0159		0.0043	0.0116
Nov-07	Market Return			(0.0418)		0.0039	-0.0457
Dec-07	Market Return			(0.0069)		0.0037	-0.0106

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Jan-08	Market Return			(0.0600)		0.0040	-0.0640
Feb-08	Market Return			(0.0352)		0.0034	-0.0386
Mar-08	Market Return			(0.0043)		0.0037	-0.0080
Apr-08	Market Return			0.0487		0.0035	0.0452
May-08	Market Return			0.0130		0.0037	0.0093
Jun-08	Market Return			(0.0843)		0.0040	-0.0883
Jul-08	Market Return			(0.0084)		0.0039	-0.0123
Aug-08	Market Return			0.0145		0.0036	0.0109
Sep-08	Market Return			(0.0891)		0.0039	-0.0930
Oct-08	Market Return			(0.1679)		0.0037	-0.1716
Nov-08	Market Return			(0.0718)		0.0036	-0.0754
Dec-08	Market Return			0.0106		0.0033	0.0073
Jan-09	Market Return			(0.0843)		0.0024	-0.0867
Feb-09	Market Return			(0.1065)		0.0030	-0.1095
Mar-09	Market Return			0.0876		0.0035	0.0841
Apr-09	Market Return			0.0957		0.0029	0.0928
May-09	Market Return			0.0559		0.0033	0.0526
Jun-09	Market Return			0.0020		0.0038	-0.0018
Jul-09	Market Return			0.0756		0.0036	0.0720
Aug-09	Market Return			0.0361		0.0036	0.0325
Sep-09	Market Return			0.0373		0.0034	0.0339
Oct-09	Market Return			(0.0186)		0.0033	-0.0219
Nov-09	Market Return			0.0600		0.0035	0.0565

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Dec-09	Market Return			0.0193		0.0034	0.0159
Jan-10	Market Return			(0.0360)		0.0036	-0.0396
Feb-10	Market Return			0.0310		0.0033	0.0277
Mar-10	Market Return			0.0603		0.0040	0.0563
Apr-10	Market Return			0.0158		0.0038	0.0120
May-10	Market Return			(0.0799)		0.0034	-0.0833
Jun-10	Market Return			(0.0523)		0.0037	-0.0560
Jul-10	Market Return			0.0707		0.0031	0.0676
Aug-10	Market Return			(0.0451)		0.0032	-0.0483
Sep-10	Market Return			0.0892		0.0026	0.0866
Oct-10	Market Return			0.0380		0.0027	0.0353
Nov-10	Market Return			0.0001		0.0032	-0.0031
Dec-10	Market Return			0.0668		0.0032	0.0636
Jan-11	Market Return			0.0237		0.003567	0.0201
Feb-11	Market Return			0.0343		0.003683	0.0306
Mar-11	Market Return			0.0004		0.003558	-0.0032
Apr-11	Market Return			0.0296		0.003567	0.0260
May-11	Market Return			(0.0113)		0.003342	-0.0146
Jun-11	Market Return			(0.0167)		0.003258	-0.0200
Jul-11	Market Return			(0.0203)		0.003292	-0.0236
Aug-11	Market Return			(0.0543)		0.003042	-0.0573
Sep-11	Market Return			(0.0703)		0.002358	-0.0727
Oct-11	Market Return			0.1093		0.002392	0.1069
Nov-11	Market Return			(0.0022)		0.002267	-0.0045
Dec-11	Market Return			0.0102		0.002483	0.0077
Jan-12	Market Return			0.0448		0.0021	0.0427
Feb-12	Market Return			0.0432		0.002	0.0412
Mar-12	Market Return			0.0329		0.0022	0.0307
Apr-12	Market Return			(0.0063)		0.0025	-0.0088
May-12	Market Return			(0.0601)		0.0023	-0.0624
Jun-12	Market Return			0.0412		0.0018	0.0394
Jul-12	Market Return			0.0139		0.002	0.0119
Aug-12	Market Return			0.0225		0.0018	0.0207

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Sep-12	Market Return			0.0258		0.0017	0.0241
Oct-12	Market Return			(0.0185)		0.0021	-0.0206
Nov-12	Market Return			0.0058		0.0019	0.0039
Dec-12	Market Return			0.0091		0.0019	0.0072
Jan-13	Market Return			0.0518		0.0022	0.0496
Feb-13	Market Return			0.0136		0.0022	0.0114
Mar-13	Market Return			0.0375		0.0021	0.0354
Apr-13	Market Return			0.0193		0.0026	0.0167
May-13	Market Return			0.0234		0.0023	0.0211
Jun-13	Market Return			(0.0134)		0.0024	-0.0158
Jul-13	Market Return			0.0509		0.003	0.0479
Aug-13	Market Return			(0.0290)		0.0028	-0.0318
Sep-13	Market Return			0.0314		0.0029	0.0285
Oct-13	Market Return			0.0460		0.0029	0.0431
Nov-13	Market Return			0.0305		0.0027	0.0278
Dec-13	Market Return			0.0253		0.0031	0.0222
Jan-14	Market Return			(0.0346)		0.0032	-0.0378
Feb-14	Market Return			0.0457		0.0026	0.0431
Mar-14	Market Return			0.0084		0.0029	0.0055
Apr-14	Market Return			0.0074		0.0028	0.0046
May-14	Market Return			0.0235		0.0028	0.0207
Jun-14	Market Return			0.0207		0.0025	0.0182
Jul-14	Market Return			(0.0138)		0.0027	-0.0165
Aug-14	Market Return			0.0400		0.0026	0.0374
Sep-14	Market Return			(0.0140)		0.0023	-0.0163
Oct-14	Market Return			0.0244		0.0025	0.0219
Nov-14	Market Return			0.0269		0.0023	0.0246
Dec-14	Market Return			(0.0025)		0.0022	-0.0047
Jan-15	Market Return			(0.0300)		0.002	-0.0320
Feb-15	Market Return			0.0575		0.0015	0.0560
Mar-15	Market Return			(0.0158)		0.0021	-0.0179
Apr-15	Market Return			0.0096		0.0019	0.0077
May-15	Market Return			0.0129		0.002	0.0109

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP
Jun-15	Market Return			(0.0194)		0.0023	-0.0217
Jul-15	Market Return			0.0210		0.0024	0.0186
Aug-15	Market Return			(0.0603)		0.0022	-0.0625
Sep-15	Market Return			(0.0247)		0.0021	-0.0268
Oct-15	Market Return			0.0844		0.0021	0.0823
Nov-15	Market Return			0.0030		0.0022	0.0008

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Jan-26							
Feb-26							
Mar-26							
Apr-26							
May-26							
Jun-26							
Jul-26							
Aug-26							
Sep-26							
Oct-26							
Nov-26							
Dec-26							
Jan-27							
Feb-27							
Mar-27							
Apr-27							
May-27							
Jun-27							
Jul-27							
Aug-27							
Sep-27							
Oct-27							
Nov-27							
Dec-27							
Jan-28	S&P 500 Utility Index			0.0375		0.0040	0.0335
Feb-28	S&P 500 Utility Index			-0.0080		0.0040	-0.0120
Mar-28	S&P 500 Utility Index			0.0723		0.0040	0.0683
Apr-28	S&P 500 Utility Index			0.0986		0.0040	0.0946
May-28	S&P 500 Utility Index			0.0208		0.0041	0.0167
Jun-28	S&P 500 Utility Index			-0.0401		0.0042	-0.0443
Jul-28	S&P 500 Utility Index			-0.0076		0.0042	-0.0118
Aug-28	S&P 500 Utility Index			0.0682		0.0042	0.0640
Sep-28	S&P 500 Utility Index			0.0287		0.0042	0.0245
Oct-28	S&P 500 Utility Index			-0.0092		0.0042	-0.0134

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Nov-28	S&P 500 Utility Index			0.2147		0.0042	0.2106
Dec-28	S&P 500 Utility Index			0.0100		0.0042	0.0058
Jan-29	S&P 500 Utility Index			0.1325		0.0042	0.1283
Feb-29	S&P 500 Utility Index			-0.0232		0.0043	-0.0275
Mar-29	S&P 500 Utility Index			-0.0110		0.0043	-0.0153
Apr-29	S&P 500 Utility Index			0.0347		0.0043	0.0304
May-29	S&P 500 Utility Index			0.0470		0.0043	0.0427
Jun-29	S&P 500 Utility Index			0.2178		0.0044	0.2134
Jul-29	S&P 500 Utility Index			0.0905		0.0044	0.0861
Aug-29	S&P 500 Utility Index			0.1033		0.0044	0.0989
Sep-29	S&P 500 Utility Index			0.0004		0.0045	-0.0041
Oct-29	S&P 500 Utility Index			-0.3022		0.0045	-0.3067
Nov-29	S&P 500 Utility Index			-0.1424		0.0044	-0.1468
Dec-29	S&P 500 Utility Index			0.0680		0.0044	0.0636
Jan-30	S&P 500 Utility Index			0.0740		0.0044	0.0696
Feb-30	S&P 500 Utility Index			0.0885		0.0044	0.0841
Mar-30	S&P 500 Utility Index			0.0891		0.0043	0.0848
Apr-30	S&P 500 Utility Index			0.0341		0.0043	0.0298
May-30	S&P 500 Utility Index			-0.0236		0.0042	-0.0278
Jun-30	S&P 500 Utility Index			-0.1903		0.0042	-0.1945
Jul-30	S&P 500 Utility Index			0.0176		0.0042	0.0134
Aug-30	S&P 500 Utility Index			0.0076		0.0041	0.0035
Sep-30	S&P 500 Utility Index			-0.1108		0.0041	-0.1149
Oct-30	S&P 500 Utility Index			-0.0818		0.0041	-0.0859
Nov-30	S&P 500 Utility Index			-0.0730		0.0041	-0.0771
Dec-30	S&P 500 Utility Index			-0.0339		0.0043	-0.0382
Jan-31	S&P 500 Utility Index			0.0540		0.0042	0.0498
Feb-31	S&P 500 Utility Index			0.1524		0.0042	0.1482
Mar-31	S&P 500 Utility Index			-0.0239		0.0042	-0.0281
Apr-31	S&P 500 Utility Index			-0.1054		0.0041	-0.1095
May-31	S&P 500 Utility Index			-0.1029		0.0040	-0.1069
Jun-31	S&P 500 Utility Index			0.1373		0.0041	0.1332
Jul-31	S&P 500 Utility Index			-0.0622		0.0040	-0.0662
Aug-31	S&P 500 Utility Index			0.0256		0.0040	0.0216

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Sep-31	S&P 500 Utility Index			-0.3149		0.0042	-0.3191
Oct-31	S&P 500 Utility Index			0.0990		0.0046	0.0944
Nov-31	S&P 500 Utility Index			-0.0614		0.0046	-0.0660
Dec-31	S&P 500 Utility Index			-0.1283		0.0052	-0.1335
Jan-32	S&P 500 Utility Index			-0.0200		0.0051	-0.0251
Feb-32	S&P 500 Utility Index			0.0799		0.0053	0.0746
Mar-32	S&P 500 Utility Index			-0.1058		0.0051	-0.1109
Apr-32	S&P 500 Utility Index			-0.1535		0.0057	-0.1592
May-32	S&P 500 Utility Index			-0.2806		0.0061	-0.2867
Jun-32	S&P 500 Utility Index			0.0090		0.0063	0.0027
Jul-32	S&P 500 Utility Index			0.3318		0.0061	0.3257
Aug-32	S&P 500 Utility Index			0.4030		0.0053	0.3977
Sep-32	S&P 500 Utility Index			-0.0270		0.0049	-0.0319
Oct-32	S&P 500 Utility Index			-0.1047		0.0048	-0.1095
Nov-32	S&P 500 Utility Index			-0.0354		0.0049	-0.0403
Dec-32	S&P 500 Utility Index			0.0893		0.0049	0.0844
Jan-33	S&P 500 Utility Index			-0.0311		0.0045	-0.0356
Feb-33	S&P 500 Utility Index			-0.1984		0.0048	-0.2032
Mar-33	S&P 500 Utility Index			-0.1080		0.0053	-0.1133
Apr-33	S&P 500 Utility Index			0.2635		0.0057	0.2578
May-33	S&P 500 Utility Index			0.1732		0.0054	0.1678
Jun-33	S&P 500 Utility Index			0.1426		0.0051	0.1375
Jul-33	S&P 500 Utility Index			-0.1204		0.0049	-0.1253
Aug-33	S&P 500 Utility Index			-0.0056		0.0050	-0.0106
Sep-33	S&P 500 Utility Index			-0.1759		0.0053	-0.1812
Oct-33	S&P 500 Utility Index			-0.0712		0.0053	-0.0765
Nov-33	S&P 500 Utility Index			-0.0180		0.0059	-0.0239
Dec-33	S&P 500 Utility Index			0.0126		0.0060	0.0066
Jan-34	S&P 500 Utility Index			0.1746		0.0055	0.1691
Feb-34	S&P 500 Utility Index			-0.0242		0.0048	-0.0290
Mar-34	S&P 500 Utility Index			-0.0111		0.0047	-0.0158
Apr-34	S&P 500 Utility Index			-0.0351		0.0045	-0.0396
May-34	S&P 500 Utility Index			-0.0765		0.0045	-0.0810
Jun-34	S&P 500 Utility Index			0.0478		0.0045	0.0433

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Jul-34	S&P 500 Utility Index			-0.1603		0.0044	-0.1647
Aug-34	S&P 500 Utility Index			0.0269		0.0045	0.0224
Sep-34	S&P 500 Utility Index			0.0095		0.0046	0.0049
Oct-34	S&P 500 Utility Index			-0.0666		0.0045	-0.0711
Nov-34	S&P 500 Utility Index			-0.0048		0.0045	-0.0093
Dec-34	S&P 500 Utility Index			-0.0701		0.0045	-0.0746
Jan-35	S&P 500 Utility Index			-0.0231		0.0043	-0.0274
Feb-35	S&P 500 Utility Index			-0.1136		0.0041	-0.1177
Mar-35	S&P 500 Utility Index			0.1043		0.0041	0.1002
Apr-35	S&P 500 Utility Index			0.1178		0.0040	0.1138
May-35	S&P 500 Utility Index			0.1106		0.0038	0.1068
Jun-35	S&P 500 Utility Index			0.1036		0.0038	0.0998
Jul-35	S&P 500 Utility Index			0.0870		0.0037	0.0833
Aug-35	S&P 500 Utility Index			0.0563		0.0037	0.0526
Sep-35	S&P 500 Utility Index			-0.0122		0.0037	-0.0159
Oct-35	S&P 500 Utility Index			0.1224		0.0037	0.1187
Nov-35	S&P 500 Utility Index			0.0108		0.0036	0.0072
Dec-35	S&P 500 Utility Index			0.0479		0.0036	0.0443
Jan-36	S&P 500 Utility Index			0.1103		0.0035	0.1068
Feb-36	S&P 500 Utility Index			-0.0342		0.0035	-0.0377
Mar-36	S&P 500 Utility Index			0.0033		0.0035	-0.0002
Apr-36	S&P 500 Utility Index			-0.0814		0.0035	-0.0849
May-36	S&P 500 Utility Index			0.0761		0.0035	0.0727
Jun-36	S&P 500 Utility Index			0.0350		0.0034	0.0316
Jul-36	S&P 500 Utility Index			0.1009		0.0034	0.0975
Aug-36	S&P 500 Utility Index			-0.0018		0.0034	-0.0052
Sep-36	S&P 500 Utility Index			-0.0225		0.0034	-0.0259
Oct-36	S&P 500 Utility Index			0.0566		0.0034	0.0532
Nov-36	S&P 500 Utility Index			-0.0169		0.0033	-0.0202
Dec-36	S&P 500 Utility Index			-0.0174		0.0032	-0.0206
Jan-37	S&P 500 Utility Index			0.0195		0.0032	0.0163
Feb-37	S&P 500 Utility Index			-0.0353		0.0032	-0.0385
Mar-37	S&P 500 Utility Index			-0.0573		0.0033	-0.0606
Apr-37	S&P 500 Utility Index			-0.0736		0.0034	-0.0770

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
May-37	S&P 500 Utility Index			-0.0516		0.0033	-0.0549
Jun-37	S&P 500 Utility Index			-0.0467		0.0033	-0.0500
Jul-37	S&P 500 Utility Index			0.1671		0.0033	0.1638
Aug-37	S&P 500 Utility Index			-0.0903		0.0032	-0.0935
Sep-37	S&P 500 Utility Index			-0.1174		0.0033	-0.1207
Oct-37	S&P 500 Utility Index			-0.0516		0.0034	-0.0550
Nov-37	S&P 500 Utility Index			0.0080		0.0034	0.0046
Dec-37	S&P 500 Utility Index			-0.0951		0.0034	-0.0985
Jan-38	S&P 500 Utility Index			-0.0368		0.0033	-0.0401
Feb-38	S&P 500 Utility Index			0.0341		0.0034	0.0307
Mar-38	S&P 500 Utility Index			-0.1984		0.0033	-0.2017
Apr-38	S&P 500 Utility Index			0.1538		0.0034	0.1504
May-38	S&P 500 Utility Index			0.0181		0.0033	0.0148
Jun-38	S&P 500 Utility Index			0.1622		0.0033	0.1589
Jul-38	S&P 500 Utility Index			0.0148		0.0032	0.0116
Aug-38	S&P 500 Utility Index			-0.0557		0.0032	-0.0589
Sep-38	S&P 500 Utility Index			0.0191		0.0032	0.0159
Oct-38	S&P 500 Utility Index			0.1801		0.0032	0.1769
Nov-38	S&P 500 Utility Index			-0.0620		0.0031	-0.0651
Dec-38	S&P 500 Utility Index			0.0391		0.0031	0.0360
Jan-39	S&P 500 Utility Index			0.0165		0.0031	0.0134
Feb-39	S&P 500 Utility Index			0.0801		0.0030	0.0771
Mar-39	S&P 500 Utility Index			-0.1378		0.0030	-0.1408
Apr-39	S&P 500 Utility Index			0.0285		0.0030	0.0255
May-39	S&P 500 Utility Index			0.0665		0.0029	0.0636
Jun-39	S&P 500 Utility Index			-0.0423		0.0029	-0.0452
Jul-39	S&P 500 Utility Index			0.1208		0.0029	0.1179
Aug-39	S&P 500 Utility Index			-0.0647		0.0028	-0.0675
Sep-39	S&P 500 Utility Index			0.0421		0.0031	0.0390
Oct-39	S&P 500 Utility Index			0.0130		0.0030	0.0100
Nov-39	S&P 500 Utility Index			-0.0157		0.0028	-0.0185
Dec-39	S&P 500 Utility Index			0.0272		0.0028	0.0244
Jan-40	S&P 500 Utility Index			0.0069		0.0028	0.0041
Feb-40	S&P 500 Utility Index			-0.0102		0.0028	-0.0130

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Mar-40	S&P 500 Utility Index			0.0094		0.0028	0.0066
Apr-40	S&P 500 Utility Index			-0.0092		0.0027	-0.0119
May-40	S&P 500 Utility Index			-0.1964		0.0028	-0.1992
Jun-40	S&P 500 Utility Index			0.1506		0.0028	0.1478
Jul-40	S&P 500 Utility Index			0.0065		0.0027	0.0038
Aug-40	S&P 500 Utility Index			-0.0094		0.0027	-0.0121
Sep-40	S&P 500 Utility Index			-0.0211		0.0027	-0.0238
Oct-40	S&P 500 Utility Index			0.0317		0.0026	0.0291
Nov-40	S&P 500 Utility Index			-0.1207		0.0026	-0.1233
Dec-40	S&P 500 Utility Index			0.0154		0.0026	0.0128
Jan-41	S&P 500 Utility Index			-0.0084		0.0026	-0.0110
Feb-41	S&P 500 Utility Index			-0.0233		0.0027	-0.0260
Mar-41	S&P 500 Utility Index			-0.0280		0.0026	-0.0306
Apr-41	S&P 500 Utility Index			-0.0844		0.0026	-0.0870
May-41	S&P 500 Utility Index			-0.0337		0.0026	-0.0363
Jun-41	S&P 500 Utility Index			0.0257		0.0025	0.0232
Jul-41	S&P 500 Utility Index			0.0538		0.0025	0.0513
Aug-41	S&P 500 Utility Index			-0.0192		0.0025	-0.0217
Sep-41	S&P 500 Utility Index			-0.0282		0.0025	-0.0307
Oct-41	S&P 500 Utility Index			-0.0848		0.0025	-0.0873
Nov-41	S&P 500 Utility Index			-0.0652		0.0025	-0.0677
Dec-41	S&P 500 Utility Index			-0.0678		0.0026	-0.0704
Jan-42	S&P 500 Utility Index			0.0252		0.0026	0.0226
Feb-42	S&P 500 Utility Index			-0.0339		0.0026	-0.0365
Mar-42	S&P 500 Utility Index			-0.1046		0.0026	-0.1072
Apr-42	S&P 500 Utility Index			-0.0432		0.0026	-0.0458
May-42	S&P 500 Utility Index			0.0956		0.0026	0.0930
Jun-42	S&P 500 Utility Index			0.0057		0.0026	0.0031
Jul-42	S&P 500 Utility Index			0.0040		0.0026	0.0014
Aug-42	S&P 500 Utility Index			0.0026		0.0026	0.0000
Sep-42	S&P 500 Utility Index			0.0466		0.0026	0.0440
Oct-42	S&P 500 Utility Index			0.1362		0.0026	0.1336
Nov-42	S&P 500 Utility Index			-0.0015		0.0026	-0.0041
Dec-42	S&P 500 Utility Index			0.0328		0.0026	0.0303

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Jan-43	S&P 500 Utility Index			0.1217		0.0025	0.1192
Feb-43	S&P 500 Utility Index			0.0719		0.0025	0.0694
Mar-43	S&P 500 Utility Index			0.0412		0.0025	0.0387
Apr-43	S&P 500 Utility Index			0.0387		0.0025	0.0362
May-43	S&P 500 Utility Index			0.0347		0.0025	0.0322
Jun-43	S&P 500 Utility Index			0.0538		0.0025	0.0513
Jul-43	S&P 500 Utility Index			0.0038		0.0025	0.0013
Aug-43	S&P 500 Utility Index			0.0105		0.0025	0.0080
Sep-43	S&P 500 Utility Index			0.0323		0.0025	0.0298
Oct-43	S&P 500 Utility Index			0.0082		0.0025	0.0057
Nov-43	S&P 500 Utility Index			-0.0775		0.0025	-0.0800
Dec-43	S&P 500 Utility Index			0.0578		0.0025	0.0553
Jan-44	S&P 500 Utility Index			0.0106		0.0025	0.0081
Feb-44	S&P 500 Utility Index			0.0179		0.0025	0.0154
Mar-44	S&P 500 Utility Index			0.0104		0.0025	0.0079
Apr-44	S&P 500 Utility Index			-0.0091		0.0025	-0.0116
May-44	S&P 500 Utility Index			0.0301		0.0025	0.0276
Jun-44	S&P 500 Utility Index			0.0526		0.0025	0.0501
Jul-44	S&P 500 Utility Index			0.0029		0.0025	0.0004
Aug-44	S&P 500 Utility Index			0.0357		0.0025	0.0333
Sep-44	S&P 500 Utility Index			-0.0150		0.0024	-0.0174
Oct-44	S&P 500 Utility Index			0.0139		0.0025	0.0115
Nov-44	S&P 500 Utility Index			-0.0130		0.0025	-0.0155
Dec-44	S&P 500 Utility Index			0.0324		0.0025	0.0299
Jan-45	S&P 500 Utility Index			0.0497		0.0025	0.0472
Feb-45	S&P 500 Utility Index			0.0695		0.0025	0.0670
Mar-45	S&P 500 Utility Index			-0.0357		0.0025	-0.0382
Apr-45	S&P 500 Utility Index			0.1066		0.0025	0.1041
May-45	S&P 500 Utility Index			0.0171		0.0024	0.0147
Jun-45	S&P 500 Utility Index			0.0662		0.0024	0.0638
Jul-45	S&P 500 Utility Index			-0.0051		0.0024	-0.0075
Aug-45	S&P 500 Utility Index			0.0031		0.0023	0.0008
Sep-45	S&P 500 Utility Index			0.0739		0.0023	0.0716
Oct-45	S&P 500 Utility Index			0.0641		0.0023	0.0618

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Nov-45	S&P 500 Utility Index			0.0471		0.0023	0.0448
Dec-45	S&P 500 Utility Index			-0.0117		0.0023	-0.0140
Jan-46	S&P 500 Utility Index			0.1199		0.0022	0.1177
Feb-46	S&P 500 Utility Index			-0.0640		0.0022	-0.0662
Mar-46	S&P 500 Utility Index			0.0631		0.0022	0.0609
Apr-46	S&P 500 Utility Index			0.0338		0.0022	0.0316
May-46	S&P 500 Utility Index			0.0301		0.0022	0.0279
Jun-46	S&P 500 Utility Index			-0.0276		0.0023	-0.0299
Jul-46	S&P 500 Utility Index			-0.0395		0.0022	-0.0417
Aug-46	S&P 500 Utility Index			-0.0724		0.0023	-0.0747
Sep-46	S&P 500 Utility Index			-0.1051		0.0023	-0.1074
Oct-46	S&P 500 Utility Index			0.0220		0.0023	0.0197
Nov-46	S&P 500 Utility Index			0.0058		0.0023	0.0035
Dec-46	S&P 500 Utility Index			0.0706		0.0023	0.0683
Jan-47	S&P 500 Utility Index			-0.0002		0.0023	-0.0025
Feb-47	S&P 500 Utility Index			-0.0089		0.0023	-0.0112
Mar-47	S&P 500 Utility Index			-0.0364		0.0023	-0.0387
Apr-47	S&P 500 Utility Index			-0.0320		0.0023	-0.0343
May-47	S&P 500 Utility Index			-0.0279		0.0023	-0.0302
Jun-47	S&P 500 Utility Index			0.0428		0.0023	0.0405
Jul-47	S&P 500 Utility Index			0.0214		0.0023	0.0191
Aug-47	S&P 500 Utility Index			-0.0022		0.0023	-0.0045
Sep-47	S&P 500 Utility Index			-0.0142		0.0023	-0.0165
Oct-47	S&P 500 Utility Index			-0.0133		0.0024	-0.0157
Nov-47	S&P 500 Utility Index			-0.0824		0.0024	-0.0848
Dec-47	S&P 500 Utility Index			0.0189		0.0025	0.0164
Jan-48	S&P 500 Utility Index			0.0070		0.0025	0.0045
Feb-48	S&P 500 Utility Index			-0.0372		0.0025	-0.0397
Mar-48	S&P 500 Utility Index			0.0617		0.0025	0.0592
Apr-48	S&P 500 Utility Index			0.0160		0.0025	0.0135
May-48	S&P 500 Utility Index			0.0583		0.0025	0.0559
Jun-48	S&P 500 Utility Index			0.0212		0.0025	0.0188
Jul-48	S&P 500 Utility Index			-0.0443		0.0025	-0.0468
Aug-48	S&P 500 Utility Index			0.0036		0.0025	0.0011

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Sep-48	S&P 500 Utility Index			-0.0071		0.0025	-0.0096
Oct-48	S&P 500 Utility Index			0.0403		0.0025	0.0378
Nov-48	S&P 500 Utility Index			-0.0913		0.0026	-0.0939
Dec-48	S&P 500 Utility Index			0.0221		0.0026	0.0196
Jan-49	S&P 500 Utility Index			0.0504		0.0025	0.0479
Feb-49	S&P 500 Utility Index			0.0005		0.0025	-0.0020
Mar-49	S&P 500 Utility Index			0.0364		0.0025	0.0339
Apr-49	S&P 500 Utility Index			0.0058		0.0025	0.0033
May-49	S&P 500 Utility Index			0.0034		0.0025	0.0009
Jun-49	S&P 500 Utility Index			-0.0134		0.0025	-0.0159
Jul-49	S&P 500 Utility Index			0.0569		0.0024	0.0545
Aug-49	S&P 500 Utility Index			0.0346		0.0024	0.0322
Sep-49	S&P 500 Utility Index			0.0373		0.0024	0.0349
Oct-49	S&P 500 Utility Index			0.0112		0.0024	0.0088
Nov-49	S&P 500 Utility Index			0.0159		0.0023	0.0136
Dec-49	S&P 500 Utility Index			0.0396		0.0023	0.0373
Jan-50	S&P 500 Utility Index			0.0353		0.0023	0.0330
Feb-50	S&P 500 Utility Index			0.0100		0.0023	0.0077
Mar-50	S&P 500 Utility Index			0.0084		0.0023	0.0061
Apr-50	S&P 500 Utility Index			0.0185		0.0023	0.0162
May-50	S&P 500 Utility Index			0.0192		0.0023	0.0169
Jun-50	S&P 500 Utility Index			-0.0771		0.0023	-0.0794
Jul-50	S&P 500 Utility Index			-0.0436		0.0023	-0.0459
Aug-50	S&P 500 Utility Index			0.0154		0.0023	0.0131
Sep-50	S&P 500 Utility Index			0.0418		0.0023	0.0395
Oct-50	S&P 500 Utility Index			-0.0027		0.0024	-0.0051
Nov-50	S&P 500 Utility Index			-0.0176		0.0024	-0.0200
Dec-50	S&P 500 Utility Index			0.0312		0.0024	0.0288
Jan-51	S&P 500 Utility Index			0.0438		0.0024	0.0414
Feb-51	S&P 500 Utility Index			0.0268		0.0024	0.0244
Mar-51	S&P 500 Utility Index			-0.0174		0.0025	-0.0199
Apr-51	S&P 500 Utility Index			0.0005		0.0026	-0.0021
May-51	S&P 500 Utility Index			0.0066		0.0026	0.0040
Jun-51	S&P 500 Utility Index			-0.0040		0.0027	-0.0067

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Jul-51	S&P 500 Utility Index			0.0439		0.0027	0.0412
Aug-51	S&P 500 Utility Index			0.0152		0.0027	0.0125
Sep-51	S&P 500 Utility Index			0.0086		0.0026	0.0060
Oct-51	S&P 500 Utility Index			0.0029		0.0026	0.0003
Nov-51	S&P 500 Utility Index			0.0120		0.0027	0.0093
Dec-51	S&P 500 Utility Index			0.0352		0.0027	0.0325
Jan-52	S&P 500 Utility Index			0.0305		0.0027	0.0278
Feb-52	S&P 500 Utility Index			0.0059		0.0027	0.0032
Mar-52	S&P 500 Utility Index			0.0176		0.0027	0.0149
Apr-52	S&P 500 Utility Index			-0.0154		0.0027	-0.0181
May-52	S&P 500 Utility Index			0.0190		0.0027	0.0163
Jun-52	S&P 500 Utility Index			0.0049		0.0027	0.0022
Jul-52	S&P 500 Utility Index			0.0206		0.0027	0.0179
Aug-52	S&P 500 Utility Index			0.0203		0.0027	0.0176
Sep-52	S&P 500 Utility Index			0.0015		0.0027	-0.0012
Oct-52	S&P 500 Utility Index			0.0101		0.0027	0.0074
Nov-52	S&P 500 Utility Index			0.0423		0.0027	0.0396
Dec-52	S&P 500 Utility Index			0.0213		0.0027	0.0186
Jan-53	S&P 500 Utility Index			0.0103		0.0027	0.0076
Feb-53	S&P 500 Utility Index			-0.0067		0.0028	-0.0095
Mar-53	S&P 500 Utility Index			-0.0043		0.0028	-0.0071
Apr-53	S&P 500 Utility Index			-0.0192		0.0029	-0.0221
May-53	S&P 500 Utility Index			0.0024		0.0030	-0.0006
Jun-53	S&P 500 Utility Index			-0.0273		0.0031	-0.0304
Jul-53	S&P 500 Utility Index			0.0345		0.0031	0.0315
Aug-53	S&P 500 Utility Index			0.0016		0.0030	-0.0014
Sep-53	S&P 500 Utility Index			0.0119		0.0030	0.0089
Oct-53	S&P 500 Utility Index			0.0411		0.0029	0.0382
Nov-53	S&P 500 Utility Index			0.0274		0.0028	0.0246
Dec-53	S&P 500 Utility Index			0.0064		0.0028	0.0036
Jan-54	S&P 500 Utility Index			0.0327		0.0028	0.0299
Feb-54	S&P 500 Utility Index			0.0117		0.0027	0.0090
Mar-54	S&P 500 Utility Index			0.0270		0.0026	0.0244
Apr-54	S&P 500 Utility Index			0.0121		0.0026	0.0095

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
May-54	S&P 500 Utility Index			0.0257		0.0026	0.0231
Jun-54	S&P 500 Utility Index			0.0096		0.0026	0.0070
Jul-54	S&P 500 Utility Index			0.0495		0.0026	0.0469
Aug-54	S&P 500 Utility Index			-0.0131		0.0026	-0.0157
Sep-54	S&P 500 Utility Index			0.0178		0.0026	0.0152
Oct-54	S&P 500 Utility Index			-0.0368		0.0026	-0.0394
Nov-54	S&P 500 Utility Index			0.0565		0.0026	0.0539
Dec-54	S&P 500 Utility Index			0.0341		0.0026	0.0315
Jan-55	S&P 500 Utility Index			0.0143		0.0026	0.0117
Feb-55	S&P 500 Utility Index			0.0344		0.0026	0.0318
Mar-55	S&P 500 Utility Index			-0.0110		0.0026	-0.0136
Apr-55	S&P 500 Utility Index			0.0202		0.0026	0.0176
May-55	S&P 500 Utility Index			-0.0058		0.0027	-0.0085
Jun-55	S&P 500 Utility Index			0.0211		0.0027	0.0184
Jul-55	S&P 500 Utility Index			0.0466		0.0027	0.0439
Aug-55	S&P 500 Utility Index			0.0052		0.0027	0.0025
Sep-55	S&P 500 Utility Index			-0.0290		0.0027	-0.0317
Oct-55	S&P 500 Utility Index			-0.0085		0.0028	-0.0113
Nov-55	S&P 500 Utility Index			0.0292		0.0028	0.0264
Dec-55	S&P 500 Utility Index			-0.0067		0.0028	-0.0095
Jan-56	S&P 500 Utility Index			0.0030		0.0028	0.0002
Feb-56	S&P 500 Utility Index			0.0178		0.0027	0.0151
Mar-56	S&P 500 Utility Index			0.0394		0.0027	0.0367
Apr-56	S&P 500 Utility Index			-0.0287		0.0028	-0.0315
May-56	S&P 500 Utility Index			-0.0138		0.0029	-0.0167
Jun-56	S&P 500 Utility Index			0.0211		0.0029	0.0182
Jul-56	S&P 500 Utility Index			0.0525		0.0030	0.0495
Aug-56	S&P 500 Utility Index			-0.0259		0.0030	-0.0289
Sep-56	S&P 500 Utility Index			-0.0319		0.0031	-0.0350
Oct-56	S&P 500 Utility Index			0.0063		0.0032	0.0031
Nov-56	S&P 500 Utility Index			0.0028		0.0032	-0.0004
Dec-56	S&P 500 Utility Index			0.0104		0.0033	0.0071
Jan-57	S&P 500 Utility Index			0.0324		0.0033	0.0291
Feb-57	S&P 500 Utility Index			-0.0061		0.0034	-0.0095

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Mar-57	S&P 500 Utility Index			0.0078		0.0034	0.0044
Apr-57	S&P 500 Utility Index			0.0402		0.0033	0.0369
May-57	S&P 500 Utility Index			0.0180		0.0033	0.0147
Jun-57	S&P 500 Utility Index			-0.0418		0.0034	-0.0452
Jul-57	S&P 500 Utility Index			0.0035		0.0035	0.0000
Aug-57	S&P 500 Utility Index			-0.0294		0.0036	-0.0330
Sep-57	S&P 500 Utility Index			-0.0138		0.0038	-0.0176
Oct-57	S&P 500 Utility Index			-0.0074		0.0038	-0.0112
Nov-57	S&P 500 Utility Index			0.0428		0.0039	0.0390
Dec-57	S&P 500 Utility Index			0.0195		0.0036	0.0159
Jan-58	S&P 500 Utility Index			0.0602		0.0033	0.0569
Feb-58	S&P 500 Utility Index			0.0137		0.0033	0.0104
Mar-58	S&P 500 Utility Index			0.0200		0.0034	0.0166
Apr-58	S&P 500 Utility Index			0.0516		0.0033	0.0483
May-58	S&P 500 Utility Index			0.0164		0.0033	0.0131
Jun-58	S&P 500 Utility Index			0.0172		0.0033	0.0139
Jul-58	S&P 500 Utility Index			0.0109		0.0034	0.0075
Aug-58	S&P 500 Utility Index			-0.0067		0.0036	-0.0103
Sep-58	S&P 500 Utility Index			0.0332		0.0038	0.0294
Oct-58	S&P 500 Utility Index			0.0406		0.0038	0.0368
Nov-58	S&P 500 Utility Index			0.0263		0.0037	0.0226
Dec-58	S&P 500 Utility Index			0.0655		0.0037	0.0618
Jan-59	S&P 500 Utility Index			0.0134		0.0038	0.0096
Feb-59	S&P 500 Utility Index			0.0206		0.0038	0.0169
Mar-59	S&P 500 Utility Index			0.0102		0.0037	0.0065
Apr-59	S&P 500 Utility Index			-0.0028		0.0038	-0.0066
May-59	S&P 500 Utility Index			-0.0120		0.0040	-0.0160
Jun-59	S&P 500 Utility Index			-0.0088		0.0041	-0.0129
Jul-59	S&P 500 Utility Index			0.0371		0.0041	0.0330
Aug-59	S&P 500 Utility Index			0.0175		0.0041	0.0134
Sep-59	S&P 500 Utility Index			-0.0393		0.0042	-0.0435
Oct-59	S&P 500 Utility Index			0.0157		0.0041	0.0116
Nov-59	S&P 500 Utility Index			0.0001		0.0041	-0.0040
Dec-59	S&P 500 Utility Index			0.0230		0.0041	0.0189

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Jan-60	S&P 500 Utility Index			-0.0108		0.0042	-0.0150
Feb-60	S&P 500 Utility Index			0.0181		0.0042	0.0139
Mar-60	S&P 500 Utility Index			0.0141		0.0041	0.0100
Apr-60	S&P 500 Utility Index			0.0075		0.0040	0.0035
May-60	S&P 500 Utility Index			0.0233		0.0041	0.0193
Jun-60	S&P 500 Utility Index			0.0408		0.0040	0.0368
Jul-60	S&P 500 Utility Index			-0.0100		0.0040	-0.0140
Aug-60	S&P 500 Utility Index			0.0502		0.0039	0.0463
Sep-60	S&P 500 Utility Index			-0.0514		0.0038	-0.0552
Oct-60	S&P 500 Utility Index			-0.0012		0.0038	-0.0050
Nov-60	S&P 500 Utility Index			0.0386		0.0039	0.0347
Dec-60	S&P 500 Utility Index			0.0724		0.0039	0.0685
Jan-61	S&P 500 Utility Index			0.0619		0.0039	0.0580
Feb-61	S&P 500 Utility Index			0.0357		0.0038	0.0319
Mar-61	S&P 500 Utility Index			0.0319		0.0037	0.0282
Apr-61	S&P 500 Utility Index			0.0109		0.0037	0.0072
May-61	S&P 500 Utility Index			0.0133		0.0038	0.0095
Jun-61	S&P 500 Utility Index			-0.0227		0.0038	-0.0265
Jul-61	S&P 500 Utility Index			0.0424		0.0039	0.0385
Aug-61	S&P 500 Utility Index			0.0454		0.0039	0.0415
Sep-61	S&P 500 Utility Index			-0.0067		0.0039	-0.0106
Oct-61	S&P 500 Utility Index			0.0480		0.0039	0.0441
Nov-61	S&P 500 Utility Index			0.0335		0.0039	0.0296
Dec-61	S&P 500 Utility Index			-0.0292		0.0039	-0.0331
Jan-62	S&P 500 Utility Index			-0.0366		0.0039	-0.0405
Feb-62	S&P 500 Utility Index			0.0300		0.0039	0.0261
Mar-62	S&P 500 Utility Index			0.0081		0.0039	0.0042
Apr-62	S&P 500 Utility Index			-0.0353		0.0038	-0.0391
May-62	S&P 500 Utility Index			-0.0912		0.0038	-0.0950
Jun-62	S&P 500 Utility Index			-0.0548		0.0037	-0.0585
Jul-62	S&P 500 Utility Index			0.0689		0.0038	0.0652
Aug-62	S&P 500 Utility Index			0.0271		0.0038	0.0233
Sep-62	S&P 500 Utility Index			-0.0334		0.0038	-0.0372
Oct-62	S&P 500 Utility Index			-0.0014		0.0037	-0.0051

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Nov-62	S&P 500 Utility Index			0.0768		0.0037	0.0731
Dec-62	S&P 500 Utility Index			0.0312		0.0037	0.0275
Jan-63	S&P 500 Utility Index			0.0558		0.0037	0.0521
Feb-63	S&P 500 Utility Index			-0.0206		0.0036	-0.0242
Mar-63	S&P 500 Utility Index			0.0186		0.0036	0.0150
Apr-63	S&P 500 Utility Index			0.0232		0.0036	0.0196
May-63	S&P 500 Utility Index			0.0070		0.0036	0.0034
Jun-63	S&P 500 Utility Index			-0.0123		0.0036	-0.0159
Jul-63	S&P 500 Utility Index			0.0123		0.0037	0.0086
Aug-63	S&P 500 Utility Index			0.0425		0.0037	0.0389
Sep-63	S&P 500 Utility Index			-0.0258		0.0037	-0.0295
Oct-63	S&P 500 Utility Index			-0.0033		0.0037	-0.0070
Nov-63	S&P 500 Utility Index			-0.0082		0.0037	-0.0119
Dec-63	S&P 500 Utility Index			0.0317		0.0037	0.0280
Jan-64	S&P 500 Utility Index			0.0127		0.0037	0.0090
Feb-64	S&P 500 Utility Index			0.0032		0.0038	-0.0006
Mar-64	S&P 500 Utility Index			-0.0035		0.0038	-0.0073
Apr-64	S&P 500 Utility Index			0.0067		0.0038	0.0029
May-64	S&P 500 Utility Index			0.0032		0.0038	-0.0006
Jun-64	S&P 500 Utility Index			0.0234		0.0038	0.0196
Jul-64	S&P 500 Utility Index			0.0471		0.0038	0.0433
Aug-64	S&P 500 Utility Index			0.0031		0.0038	-0.0007
Sep-64	S&P 500 Utility Index			0.0170		0.0038	0.0132
Oct-64	S&P 500 Utility Index			0.0165		0.0038	0.0127
Nov-64	S&P 500 Utility Index			0.0114		0.0038	0.0076
Dec-64	S&P 500 Utility Index			0.0086		0.0038	0.0048
Jan-65	S&P 500 Utility Index			0.0371		0.0038	0.0333
Feb-65	S&P 500 Utility Index			0.0009		0.0038	-0.0029
Mar-65	S&P 500 Utility Index			0.0007		0.0038	-0.0031
Apr-65	S&P 500 Utility Index			0.0109		0.0037	0.0072
May-65	S&P 500 Utility Index			-0.0084		0.0038	-0.0122
Jun-65	S&P 500 Utility Index			-0.0340		0.0038	-0.0378
Jul-65	S&P 500 Utility Index			0.0105		0.0038	0.0067
Aug-65	S&P 500 Utility Index			0.0097		0.0038	0.0059

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Sep-65	S&P 500 Utility Index			0.0194		0.0039	0.0155
Oct-65	S&P 500 Utility Index			0.0129		0.0039	0.0090
Nov-65	S&P 500 Utility Index			-0.0116		0.0039	-0.0155
Dec-65	S&P 500 Utility Index			-0.0008		0.0040	-0.0048
Jan-66	S&P 500 Utility Index			-0.0297		0.0041	-0.0338
Feb-66	S&P 500 Utility Index			-0.0414		0.0041	-0.0455
Mar-66	S&P 500 Utility Index			-0.0045		0.0043	-0.0088
Apr-66	S&P 500 Utility Index			0.0172		0.0044	0.0128
May-66	S&P 500 Utility Index			-0.0296		0.0044	-0.0340
Jun-66	S&P 500 Utility Index			-0.0181		0.0045	-0.0226
Jul-66	S&P 500 Utility Index			0.0009		0.0045	-0.0036
Aug-66	S&P 500 Utility Index			-0.0875		0.0047	-0.0922
Sep-66	S&P 500 Utility Index			0.0475		0.0048	0.0427
Oct-66	S&P 500 Utility Index			0.0970		0.0048	0.0922
Nov-66	S&P 500 Utility Index			-0.0076		0.0047	-0.0123
Dec-66	S&P 500 Utility Index			0.0221		0.0047	0.0174
Jan-67	S&P 500 Utility Index			0.0271		0.0046	0.0226
Feb-67	S&P 500 Utility Index			-0.0157		0.0044	-0.0201
Mar-67	S&P 500 Utility Index			0.0197		0.0045	0.0152
Apr-67	S&P 500 Utility Index			0.0202		0.0045	0.0157
May-67	S&P 500 Utility Index			-0.0506		0.0047	-0.0553
Jun-67	S&P 500 Utility Index			-0.0131		0.0049	-0.0180
Jul-67	S&P 500 Utility Index			0.0204		0.0050	0.0155
Aug-67	S&P 500 Utility Index			-0.0065		0.0050	-0.0115
Sep-67	S&P 500 Utility Index			-0.0037		0.0050	-0.0087
Oct-67	S&P 500 Utility Index			-0.0572		0.0052	-0.0624
Nov-67	S&P 500 Utility Index			0.0293		0.0054	0.0239
Dec-67	S&P 500 Utility Index			0.0286		0.0056	0.0230
Jan-68	S&P 500 Utility Index			0.0082		0.0055	0.0028
Feb-68	S&P 500 Utility Index			-0.0233		0.0053	-0.0286
Mar-68	S&P 500 Utility Index			-0.0399		0.0053	-0.0452
Apr-68	S&P 500 Utility Index			0.0275		0.0055	0.0220
May-68	S&P 500 Utility Index			-0.0062		0.0055	-0.0117
Jun-68	S&P 500 Utility Index			0.0807		0.0055	0.0752

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Jul-68	S&P 500 Utility Index			-0.0070		0.0054	-0.0124
Aug-68	S&P 500 Utility Index			0.0004		0.0052	-0.0048
Sep-68	S&P 500 Utility Index			0.0100		0.0052	0.0048
Oct-68	S&P 500 Utility Index			0.0086		0.0053	0.0033
Nov-68	S&P 500 Utility Index			0.0781		0.0055	0.0726
Dec-68	S&P 500 Utility Index			-0.0309		0.0057	-0.0366
Jan-69	S&P 500 Utility Index			0.0169		0.0059	0.0110
Feb-69	S&P 500 Utility Index			-0.0532		0.0059	-0.0591
Mar-69	S&P 500 Utility Index			-0.0096		0.0061	-0.0157
Apr-69	S&P 500 Utility Index			0.0139		0.0061	0.0078
May-69	S&P 500 Utility Index			-0.0006		0.0060	-0.0066
Jun-69	S&P 500 Utility Index			-0.0516		0.0062	-0.0578
Jul-69	S&P 500 Utility Index			-0.0363		0.0063	-0.0426
Aug-69	S&P 500 Utility Index			-0.0114		0.0062	-0.0176
Sep-69	S&P 500 Utility Index			-0.0372		0.0064	-0.0436
Oct-69	S&P 500 Utility Index			0.0798		0.0067	0.0731
Nov-69	S&P 500 Utility Index			-0.0588		0.0067	-0.0655
Dec-69	S&P 500 Utility Index			-0.0097		0.0072	-0.0169
Jan-70	S&P 500 Utility Index			-0.0453		0.0072	-0.0525
Feb-70	S&P 500 Utility Index			0.1053		0.0071	0.0982
Mar-70	S&P 500 Utility Index			0.0232		0.0069	0.0163
Apr-70	S&P 500 Utility Index			-0.0929		0.0069	-0.0998
May-70	S&P 500 Utility Index			-0.0515		0.0072	-0.0587
Jun-70	S&P 500 Utility Index			-0.0582		0.0075	-0.0657
Jul-70	S&P 500 Utility Index			0.0973		0.0076	0.0898
Aug-70	S&P 500 Utility Index			0.0581		0.0074	0.0507
Sep-70	S&P 500 Utility Index			-0.0114		0.0074	-0.0188
Oct-70	S&P 500 Utility Index			-0.0149		0.0073	-0.0222
Nov-70	S&P 500 Utility Index			0.0975		0.0073	0.0902
Dec-70	S&P 500 Utility Index			0.0735		0.0071	0.0664
Jan-71	S&P 500 Utility Index			0.0257		0.0068	0.0189
Feb-71	S&P 500 Utility Index			-0.0277		0.0066	-0.0343
Mar-71	S&P 500 Utility Index			0.0331		0.0067	0.0264
Apr-71	S&P 500 Utility Index			-0.0349		0.0067	-0.0416

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
May-71	S&P 500 Utility Index			-0.0351		0.0070	-0.0421
Jun-71	S&P 500 Utility Index			0.0398		0.0070	0.0328
Jul-71	S&P 500 Utility Index			-0.0225		0.0070	-0.0295
Aug-71	S&P 500 Utility Index			-0.0247		0.0070	-0.0317
Sep-71	S&P 500 Utility Index			-0.0146		0.0068	-0.0214
Oct-71	S&P 500 Utility Index			0.0170		0.0068	0.0103
Nov-71	S&P 500 Utility Index			-0.0055		0.0066	-0.0121
Dec-71	S&P 500 Utility Index			0.0806		0.0066	0.0740
Jan-72	S&P 500 Utility Index			-0.0074		0.0065	-0.0139
Feb-72	S&P 500 Utility Index			-0.0240		0.0065	-0.0305
Mar-72	S&P 500 Utility Index			-0.0036		0.0065	-0.0101
Apr-72	S&P 500 Utility Index			-0.0277		0.0065	-0.0342
May-72	S&P 500 Utility Index			-0.0017		0.0065	-0.0082
Jun-72	S&P 500 Utility Index			-0.0210		0.0065	-0.0275
Jul-72	S&P 500 Utility Index			-0.0014		0.0065	-0.0079
Aug-72	S&P 500 Utility Index			0.0574		0.0064	0.0510
Sep-72	S&P 500 Utility Index			0.0027		0.0063	-0.0036
Oct-72	S&P 500 Utility Index			0.0651		0.0064	0.0587
Nov-72	S&P 500 Utility Index			0.0639		0.0063	0.0576
Dec-72	S&P 500 Utility Index			-0.0174		0.0062	-0.0236
Jan-73	S&P 500 Utility Index			-0.0439		0.0063	-0.0502
Feb-73	S&P 500 Utility Index			-0.0234		0.0064	-0.0298
Mar-73	S&P 500 Utility Index			-0.0135		0.0064	-0.0199
Apr-73	S&P 500 Utility Index			-0.0049		0.0064	-0.0113
May-73	S&P 500 Utility Index			0.0067		0.0064	0.0003
Jun-73	S&P 500 Utility Index			-0.0167		0.0064	-0.0231
Jul-73	S&P 500 Utility Index			-0.0199		0.0065	-0.0264
Aug-73	S&P 500 Utility Index			-0.0284		0.0067	-0.0351
Sep-73	S&P 500 Utility Index			0.0771		0.0067	0.0704
Oct-73	S&P 500 Utility Index			-0.0388		0.0067	-0.0455
Nov-73	S&P 500 Utility Index			-0.1172		0.0068	-0.1240
Dec-73	S&P 500 Utility Index			0.0375		0.0069	0.0306
Jan-74	S&P 500 Utility Index			0.0418		0.0070	0.0348
Feb-74	S&P 500 Utility Index			0.0060		0.0070	-0.0010

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Mar-74	S&P 500 Utility Index			-0.0389		0.0071	-0.0460
Apr-74	S&P 500 Utility Index			-0.1296		0.0073	-0.1369
May-74	S&P 500 Utility Index			-0.0484		0.0075	-0.0559
Jun-74	S&P 500 Utility Index			-0.0570		0.0078	-0.0648
Jul-74	S&P 500 Utility Index			-0.0089		0.0081	-0.0170
Aug-74	S&P 500 Utility Index			-0.0871		0.0084	-0.0955
Sep-74	S&P 500 Utility Index			-0.0086		0.0087	-0.0173
Oct-74	S&P 500 Utility Index			0.1199		0.0090	0.1109
Nov-74	S&P 500 Utility Index			-0.0119		0.0087	-0.0206
Dec-74	S&P 500 Utility Index			0.0044		0.0086	-0.0042
Jan-75	S&P 500 Utility Index			0.1897		0.0086	0.1811
Feb-75	S&P 500 Utility Index			0.0143		0.0083	0.0060
Mar-75	S&P 500 Utility Index			-0.0216		0.0081	-0.0297
Apr-75	S&P 500 Utility Index			-0.0140		0.0084	-0.0224
May-75	S&P 500 Utility Index			0.0866		0.0085	0.0781
Jun-75	S&P 500 Utility Index			0.1067		0.0084	0.0983
Jul-75	S&P 500 Utility Index			-0.0510		0.0083	-0.0593
Aug-75	S&P 500 Utility Index			-0.0212		0.0084	-0.0296
Sep-75	S&P 500 Utility Index			-0.0049		0.0085	-0.0134
Oct-75	S&P 500 Utility Index			0.0708		0.0085	0.0623
Nov-75	S&P 500 Utility Index			0.0350		0.0084	0.0266
Dec-75	S&P 500 Utility Index			0.0077		0.0084	-0.0007
Jan-76	S&P 500 Utility Index			0.0894		0.0083	0.0812
Feb-76	S&P 500 Utility Index			-0.0356		0.0081	-0.0437
Mar-76	S&P 500 Utility Index			0.0100		0.0081	0.0019
Apr-76	S&P 500 Utility Index			0.0037		0.0079	-0.0042
May-76	S&P 500 Utility Index			-0.0139		0.0080	-0.0219
Jun-76	S&P 500 Utility Index			0.0337		0.0080	0.0258
Jul-76	S&P 500 Utility Index			0.0341		0.0078	0.0263
Aug-76	S&P 500 Utility Index			0.0383		0.0076	0.0307
Sep-76	S&P 500 Utility Index			0.0381		0.0074	0.0307
Oct-76	S&P 500 Utility Index			-0.0021		0.0073	-0.0094
Nov-76	S&P 500 Utility Index			0.0268		0.0073	0.0195
Dec-76	S&P 500 Utility Index			0.0631		0.0072	0.0559

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Jan-77	S&P 500 Utility Index			0.0035		0.0072	-0.0037
Feb-77	S&P 500 Utility Index			-0.0372		0.0072	-0.0444
Mar-77	S&P 500 Utility Index			0.0102		0.0073	0.0030
Apr-77	S&P 500 Utility Index			0.0209		0.0073	0.0136
May-77	S&P 500 Utility Index			0.0211		0.0073	0.0138
Jun-77	S&P 500 Utility Index			0.0531		0.0072	0.0460
Jul-77	S&P 500 Utility Index			0.0164		0.0071	0.0093
Aug-77	S&P 500 Utility Index			-0.0353		0.0071	-0.0424
Sep-77	S&P 500 Utility Index			0.0247		0.0071	0.0177
Oct-77	S&P 500 Utility Index			-0.0296		0.0072	-0.0368
Nov-77	S&P 500 Utility Index			0.0381		0.0072	0.0309
Dec-77	S&P 500 Utility Index			0.0019		0.0072	-0.0053
Jan-78	S&P 500 Utility Index			-0.0533		0.0074	-0.0607
Feb-78	S&P 500 Utility Index			-0.0062		0.0075	-0.0137
Mar-78	S&P 500 Utility Index			0.0309		0.0075	0.0234
Apr-78	S&P 500 Utility Index			0.0106		0.0076	0.0030
May-78	S&P 500 Utility Index			0.0043		0.0077	-0.0034
Jun-78	S&P 500 Utility Index			0.0036		0.0078	-0.0042
Jul-78	S&P 500 Utility Index			0.0316		0.0079	0.0237
Aug-78	S&P 500 Utility Index			-0.0003		0.0078	-0.0081
Sep-78	S&P 500 Utility Index			-0.0056		0.0077	-0.0133
Oct-78	S&P 500 Utility Index			-0.0684		0.0079	-0.0763
Nov-78	S&P 500 Utility Index			0.0356		0.0081	0.0275
Dec-78	S&P 500 Utility Index			-0.0149		0.0081	-0.0230
Jan-79	S&P 500 Utility Index			0.0692		0.0083	0.0610
Feb-79	S&P 500 Utility Index			-0.0212		0.0082	-0.0294
Mar-79	S&P 500 Utility Index			0.0196		0.0084	0.0112
Apr-79	S&P 500 Utility Index			-0.0249		0.0084	-0.0333
May-79	S&P 500 Utility Index			0.0150		0.0086	0.0064
Jun-79	S&P 500 Utility Index			0.0386		0.0085	0.0302
Jul-79	S&P 500 Utility Index			0.0342		0.0083	0.0259
Aug-79	S&P 500 Utility Index			0.0102		0.0085	0.0018
Sep-79	S&P 500 Utility Index			-0.0177		0.0086	-0.0263
Oct-79	S&P 500 Utility Index			-0.0505		0.0095	-0.0600

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Nov-79	S&P 500 Utility Index			0.0607		0.0099	0.0508
Dec-79	S&P 500 Utility Index			0.0022		0.0101	-0.0079
Jan-80	S&P 500 Utility Index			-0.0023		0.0102	-0.0125
Feb-80	S&P 500 Utility Index			-0.0247		0.0110	-0.0357
Mar-80	S&P 500 Utility Index			-0.0529		0.0122	-0.0651
Apr-80	S&P 500 Utility Index			0.1186		0.0119	0.1067
May-80	S&P 500 Utility Index			0.0323		0.0106	0.0217
Jun-80	S&P 500 Utility Index			0.0337		0.0103	0.0234
Jul-80	S&P 500 Utility Index			-0.0041		0.0101	-0.0142
Aug-80	S&P 500 Utility Index			-0.0139		0.0106	-0.0245
Sep-80	S&P 500 Utility Index			-0.0114		0.0111	-0.0225
Oct-80	S&P 500 Utility Index			0.0274		0.0113	0.0161
Nov-80	S&P 500 Utility Index			0.0501		0.0117	0.0384
Dec-80	S&P 500 Utility Index			-0.0014		0.0122	-0.0136
Jan-81	S&P 500 Utility Index			-0.0186		0.0119	-0.0305
Feb-81	S&P 500 Utility Index			-0.0224		0.0122	-0.0346
Mar-81	S&P 500 Utility Index			0.0420		0.0126	0.0294
Apr-81	S&P 500 Utility Index			-0.0096		0.0127	-0.0223
May-81	S&P 500 Utility Index			0.0291		0.0134	0.0157
Jun-81	S&P 500 Utility Index			0.0272		0.0132	0.0140
Jul-81	S&P 500 Utility Index			0.0341		0.0134	0.0207
Aug-81	S&P 500 Utility Index			-0.0024		0.0137	-0.0161
Sep-81	S&P 500 Utility Index			-0.0409		0.0142	-0.0551
Oct-81	S&P 500 Utility Index			0.0617		0.0144	0.0473
Nov-81	S&P 500 Utility Index			0.0481		0.0137	0.0344
Dec-81	S&P 500 Utility Index			-0.0305		0.0135	-0.0440
Jan-82	S&P 500 Utility Index			0.0037		0.0140	-0.0103
Feb-82	S&P 500 Utility Index			-0.0035		0.0141	-0.0176
Mar-82	S&P 500 Utility Index			0.0168		0.0137	0.0031
Apr-82	S&P 500 Utility Index			0.0548		0.0137	0.0411
May-82	S&P 500 Utility Index			-0.0187		0.0134	-0.0321
Jun-82	S&P 500 Utility Index			-0.0161		0.0136	-0.0297
Jul-82	S&P 500 Utility Index			-0.0198		0.0137	-0.0335
Aug-82	S&P 500 Utility Index			0.1211		0.0133	0.1078

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Sep-82	S&P 500 Utility Index			0.0052		0.0129	-0.0077
Oct-82	S&P 500 Utility Index			0.0659		0.0125	0.0534
Nov-82	S&P 500 Utility Index			0.0017		0.0121	-0.0104
Dec-82	S&P 500 Utility Index			0.0360		0.0120	0.0240
Jan-83	S&P 500 Utility Index			0.0372		0.0119	0.0253
Feb-83	S&P 500 Utility Index			-0.0005		0.0119	-0.0124
Mar-83	S&P 500 Utility Index			0.0017		0.0117	-0.0100
Apr-83	S&P 500 Utility Index			0.0571		0.0114	0.0457
May-83	S&P 500 Utility Index			0.0124		0.0112	0.0012
Jun-83	S&P 500 Utility Index			-0.0123		0.0114	-0.0237
Jul-83	S&P 500 Utility Index			0.0339		0.0113	0.0226
Aug-83	S&P 500 Utility Index			0.0040		0.0113	-0.0073
Sep-83	S&P 500 Utility Index			0.0445		0.0112	0.0333
Oct-83	S&P 500 Utility Index			0.0532		0.0110	0.0422
Nov-83	S&P 500 Utility Index			-0.0204		0.0112	-0.0316
Dec-83	S&P 500 Utility Index			-0.0226		0.0113	-0.0339
Jan-84	S&P 500 Utility Index			0.0482		0.0112	0.0370
Feb-84	S&P 500 Utility Index			-0.0411		0.0112	-0.0523
Mar-84	S&P 500 Utility Index			-0.0055		0.0115	-0.0170
Apr-84	S&P 500 Utility Index			0.0159		0.0118	0.0041
May-84	S&P 500 Utility Index			-0.0230		0.0124	-0.0354
Jun-84	S&P 500 Utility Index			0.0069		0.0126	-0.0057
Jul-84	S&P 500 Utility Index			0.0433		0.0124	0.0309
Aug-84	S&P 500 Utility Index			0.0646		0.0120	0.0526
Sep-84	S&P 500 Utility Index			0.0438		0.0118	0.0320
Oct-84	S&P 500 Utility Index			0.0272		0.0115	0.0157
Nov-84	S&P 500 Utility Index			0.0270		0.0110	0.0160
Dec-84	S&P 500 Utility Index			0.0316		0.0109	0.0207
Jan-85	S&P 500 Utility Index			0.0235		0.0108	0.0127
Feb-85	S&P 500 Utility Index			0.0193		0.0109	0.0084
Mar-85	S&P 500 Utility Index			0.0362		0.0115	0.0247
Apr-85	S&P 500 Utility Index			0.0207		0.0113	0.0094
May-85	S&P 500 Utility Index			0.0606		0.0110	0.0496
Jun-85	S&P 500 Utility Index			0.0279		0.0101	0.0178

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Jul-85	S&P 500 Utility Index			-0.0427		0.0101	-0.0528
Aug-85	S&P 500 Utility Index			0.0181		0.0101	0.0080
Sep-85	S&P 500 Utility Index			-0.0521		0.0101	-0.0622
Oct-85	S&P 500 Utility Index			0.0638		0.0100	0.0538
Nov-85	S&P 500 Utility Index			0.0522		0.0096	0.0426
Dec-85	S&P 500 Utility Index			0.0694		0.0092	0.0602
Jan-86	S&P 500 Utility Index			0.0293		0.0090	0.0203
Feb-86	S&P 500 Utility Index			0.0623		0.0086	0.0537
Mar-86	S&P 500 Utility Index			0.0514		0.0079	0.0435
Apr-86	S&P 500 Utility Index			-0.0333		0.0076	-0.0409
May-86	S&P 500 Utility Index			0.0525		0.0080	0.0445
Jun-86	S&P 500 Utility Index			0.0597		0.0080	0.0517
Jul-86	S&P 500 Utility Index			0.0283		0.0078	0.0205
Aug-86	S&P 500 Utility Index			0.0884		0.0078	0.0806
Sep-86	S&P 500 Utility Index			-0.1137		0.0079	-0.1216
Oct-86	S&P 500 Utility Index			0.0505		0.0079	0.0426
Nov-86	S&P 500 Utility Index			0.0211		0.0077	0.0134
Dec-86	S&P 500 Utility Index			-0.0254		0.0076	-0.0330
Jan-87	S&P 500 Utility Index			0.0984		0.0075	0.0909
Feb-87	S&P 500 Utility Index			-0.0301		0.0075	-0.0376
Mar-87	S&P 500 Utility Index			-0.0189		0.0074	-0.0263
Apr-87	S&P 500 Utility Index			-0.0414		0.0078	-0.0492
May-87	S&P 500 Utility Index			-0.0064		0.0082	-0.0146
Jun-87	S&P 500 Utility Index			0.0439		0.0083	0.0356
Jul-87	S&P 500 Utility Index			-0.0025		0.0084	-0.0109
Aug-87	S&P 500 Utility Index			0.0527		0.0087	0.0440
Sep-87	S&P 500 Utility Index			0.0021		0.0093	-0.0072
Oct-87	S&P 500 Utility Index			-0.0705		0.0095	-0.0800
Nov-87	S&P 500 Utility Index			-0.0555		0.0090	-0.0645
Dec-87	S&P 500 Utility Index			0.0108		0.0091	0.0017
Jan-88	S&P 500 Utility Index			0.1153		0.0090	0.1063
Feb-88	S&P 500 Utility Index			-0.0175		0.0084	-0.0259
Mar-88	S&P 500 Utility Index			-0.0527		0.0084	-0.0611
Apr-88	S&P 500 Utility Index			0.0019		0.0088	-0.0069

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
May-88	S&P 500 Utility Index			0.0460		0.0090	0.0370
Jun-88	S&P 500 Utility Index			0.0315		0.0090	0.0225
Jul-88	S&P 500 Utility Index			0.0017		0.0092	-0.0075
Aug-88	S&P 500 Utility Index			-0.0137		0.0093	-0.0230
Sep-88	S&P 500 Utility Index			0.0413		0.0089	0.0324
Oct-88	S&P 500 Utility Index			0.0262		0.0083	0.0179
Nov-88	S&P 500 Utility Index			-0.0079		0.0082	-0.0161
Dec-88	S&P 500 Utility Index			0.0063		0.0084	-0.0021
Jan-89	S&P 500 Utility Index			0.0571		0.0084	0.0487
Feb-89	S&P 500 Utility Index			-0.0215		0.0084	-0.0299
Mar-89	S&P 500 Utility Index			0.0269		0.0085	0.0184
Apr-89	S&P 500 Utility Index			0.0634		0.0085	0.0549
May-89	S&P 500 Utility Index			0.0580		0.0083	0.0497
Jun-89	S&P 500 Utility Index			0.0161		0.0080	0.0081
Jul-89	S&P 500 Utility Index			0.0804		0.0079	0.0725
Aug-89	S&P 500 Utility Index			-0.0057		0.0079	-0.0136
Sep-89	S&P 500 Utility Index			0.0170		0.0080	0.0090
Oct-89	S&P 500 Utility Index			0.0045		0.0079	-0.0034
Nov-89	S&P 500 Utility Index			0.0336		0.0079	0.0257
Dec-89	S&P 500 Utility Index			0.0731		0.0079	0.0652
Jan-90	S&P 500 Utility Index			-0.0809		0.0080	-0.0889
Feb-90	S&P 500 Utility Index			-0.0109		0.0081	-0.0190
Mar-90	S&P 500 Utility Index			0.0187		0.0082	0.0105
Apr-90	S&P 500 Utility Index			-0.0385		0.0083	-0.0468
May-90	S&P 500 Utility Index			0.0682		0.0083	0.0599
Jun-90	S&P 500 Utility Index			-0.0211		0.0082	-0.0293
Jul-90	S&P 500 Utility Index			-0.0032		0.0081	-0.0113
Aug-90	S&P 500 Utility Index			-0.0792		0.0082	-0.0874
Sep-90	S&P 500 Utility Index			0.0411		0.0084	0.0327
Oct-90	S&P 500 Utility Index			0.0653		0.0084	0.0569
Nov-90	S&P 500 Utility Index			0.0193		0.0083	0.0110
Dec-90	S&P 500 Utility Index			0.0086		0.0081	0.0005
Jan-91	S&P 500 Utility Index			-0.0301		0.0081	-0.0382
Feb-91	S&P 500 Utility Index			0.0349		0.0079	0.0270

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Mar-91	S&P 500 Utility Index			0.0198		0.0080	0.0118
Apr-91	S&P 500 Utility Index			-0.0162		0.0079	-0.0241
May-91	S&P 500 Utility Index			-0.0130		0.0079	-0.0209
Jun-91	S&P 500 Utility Index			-0.0139		0.0080	-0.0219
Jul-91	S&P 500 Utility Index			0.0307		0.0080	0.0227
Aug-91	S&P 500 Utility Index			0.0258		0.0078	0.0180
Sep-91	S&P 500 Utility Index			0.0202		0.0076	0.0126
Oct-91	S&P 500 Utility Index			0.0200		0.0076	0.0124
Nov-91	S&P 500 Utility Index			-0.0098		0.0075	-0.0173
Dec-91	S&P 500 Utility Index			0.0733		0.0074	0.0659
Jan-92	S&P 500 Utility Index			-0.0536		0.0074	-0.0610
Feb-92	S&P 500 Utility Index			-0.0273		0.0074	-0.0347
Mar-92	S&P 500 Utility Index			-0.0143		0.0075	-0.0218
Apr-92	S&P 500 Utility Index			0.0645		0.0074	0.0571
May-92	S&P 500 Utility Index			-0.0015		0.0074	-0.0089
Jun-92	S&P 500 Utility Index			0.0141		0.0073	0.0068
Jul-92	S&P 500 Utility Index			0.0790		0.0071	0.0719
Aug-92	S&P 500 Utility Index			-0.0074		0.0070	-0.0144
Sep-92	S&P 500 Utility Index			0.0073		0.0070	0.0003
Oct-92	S&P 500 Utility Index			-0.0094		0.0071	-0.0165
Nov-92	S&P 500 Utility Index			-0.0015		0.0072	-0.0087
Dec-92	S&P 500 Utility Index			0.0358		0.0070	0.0288
Jan-93	S&P 500 Utility Index			0.0157		0.0069	0.0088
Feb-93	S&P 500 Utility Index			0.0721		0.0067	0.0654
Mar-93	S&P 500 Utility Index			0.0180		0.0066	0.0114
Apr-93	S&P 500 Utility Index			-0.0027		0.0065	-0.0092
May-93	S&P 500 Utility Index			-0.0191		0.0065	-0.0256
Jun-93	S&P 500 Utility Index			0.0463		0.0065	0.0398
Jul-93	S&P 500 Utility Index			0.0226		0.0063	0.0163
Aug-93	S&P 500 Utility Index			0.0484		0.0061	0.0423
Sep-93	S&P 500 Utility Index			-0.0020		0.0059	-0.0079
Oct-93	S&P 500 Utility Index			-0.0021		0.0059	-0.0080
Nov-93	S&P 500 Utility Index			-0.0507		0.0061	-0.0568
Dec-93	S&P 500 Utility Index			-0.0053		0.0061	-0.0114

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Jan-94	S&P 500 Utility Index			0.0072		0.0061	0.0011
Feb-94	S&P 500 Utility Index			-0.0567		0.0062	-0.0629
Mar-94	S&P 500 Utility Index			-0.0338		0.0065	-0.0403
Apr-94	S&P 500 Utility Index			0.0246		0.0069	0.0177
May-94	S&P 500 Utility Index			-0.0268		0.0069	-0.0337
Jun-94	S&P 500 Utility Index			0.0021		0.0069	-0.0048
Jul-94	S&P 500 Utility Index			0.0336		0.0071	0.0265
Aug-94	S&P 500 Utility Index			-0.0028		0.0070	-0.0098
Sep-94	S&P 500 Utility Index			-0.0254		0.0072	-0.0326
Oct-94	S&P 500 Utility Index			0.0086		0.0074	0.0012
Nov-94	S&P 500 Utility Index			-0.0146		0.0075	-0.0221
Dec-94	S&P 500 Utility Index			0.0052		0.0073	-0.0021
Jan-95	S&P 500 Utility Index			0.0779		0.0073	0.0706
Feb-95	S&P 500 Utility Index			-0.0015		0.0071	-0.0086
Mar-95	S&P 500 Utility Index			-0.0060		0.0070	-0.0130
Apr-95	S&P 500 Utility Index			0.0365		0.0069	0.0296
May-95	S&P 500 Utility Index			0.0316		0.0066	0.0250
Jun-95	S&P 500 Utility Index			0.0047		0.0063	-0.0016
Jul-95	S&P 500 Utility Index			0.0255		0.0064	0.0191
Aug-95	S&P 500 Utility Index			0.0202		0.0065	0.0137
Sep-95	S&P 500 Utility Index			0.0638		0.0064	0.0575
Oct-95	S&P 500 Utility Index			0.0238		0.0062	0.0176
Nov-95	S&P 500 Utility Index			0.0136		0.0062	0.0074
Dec-95	S&P 500 Utility Index			0.0708		0.0060	0.0648
Jan-96	S&P 500 Utility Index			0.0129		0.0060	0.0069
Feb-96	S&P 500 Utility Index			-0.0395		0.0061	-0.0456
Mar-96	S&P 500 Utility Index			-0.0203		0.0064	-0.0267
Apr-96	S&P 500 Utility Index			0.0110		0.0066	0.0044
May-96	S&P 500 Utility Index			-0.0025		0.0067	-0.0092
Jun-96	S&P 500 Utility Index			0.0416		0.0067	0.0349
Jul-96	S&P 500 Utility Index			-0.0628		0.0067	-0.0695
Aug-96	S&P 500 Utility Index			0.0213		0.0065	0.0148
Sep-96	S&P 500 Utility Index			0.0095		0.0067	0.0028
Oct-96	S&P 500 Utility Index			0.0508		0.0065	0.0443

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Nov-96	S&P 500 Utility Index			0.0211		0.0063	0.0148
Dec-96	S&P 500 Utility Index			-0.0060		0.0063	-0.0123
Jan-97	S&P 500 Utility Index			0.0066		0.0065	0.0001
Feb-97	S&P 500 Utility Index			-0.0095		0.0064	-0.0159
Mar-97	S&P 500 Utility Index			-0.0301		0.0066	-0.0367
Apr-97	S&P 500 Utility Index			-0.0150		0.0067	-0.0217
May-97	S&P 500 Utility Index			0.0423		0.0066	0.0357
Jun-97	S&P 500 Utility Index			0.0314		0.0064	0.0250
Jul-97	S&P 500 Utility Index			0.0230		0.0062	0.0168
Aug-97	S&P 500 Utility Index			-0.0183		0.0062	-0.0245
Sep-97	S&P 500 Utility Index			0.0433		0.0062	0.0371
Oct-97	S&P 500 Utility Index			0.0098		0.0061	0.0037
Nov-97	S&P 500 Utility Index			0.0707		0.0060	0.0647
Dec-97	S&P 500 Utility Index			0.0752		0.0060	0.0692
Jan-98	S&P 500 Utility Index			-0.0395		0.0059	-0.0454
Feb-98	S&P 500 Utility Index			0.0341		0.0059	0.0282
Mar-98	S&P 500 Utility Index			0.0642		0.0060	0.0582
Apr-98	S&P 500 Utility Index			-0.0193		0.0060	-0.0253
May-98	S&P 500 Utility Index			-0.0050		0.0060	-0.0110
Jun-98	S&P 500 Utility Index			0.0369		0.0059	0.0310
Jul-98	S&P 500 Utility Index			-0.0493		0.0059	-0.0552
Aug-98	S&P 500 Utility Index			0.0161		0.0058	0.0103
Sep-98	S&P 500 Utility Index			0.0835		0.0058	0.0777
Oct-98	S&P 500 Utility Index			-0.0166		0.0058	-0.0224
Nov-98	S&P 500 Utility Index			0.0134		0.0059	0.0075
Dec-98	S&P 500 Utility Index			0.0295		0.0058	0.0237
Jan-99	S&P 500 Utility Index			-0.0451		0.0058	-0.0509
Feb-99	S&P 500 Utility Index			-0.0364		0.0059	-0.0423
Mar-99	S&P 500 Utility Index			-0.0148		0.0060	-0.0208
Apr-99	S&P 500 Utility Index			0.0884		0.0060	0.0824
May-99	S&P 500 Utility Index			0.0609		0.0062	0.0547
Jun-99	S&P 500 Utility Index			-0.0332		0.0064	-0.0396
Jul-99	S&P 500 Utility Index			-0.0114		0.0064	-0.0178
Aug-99	S&P 500 Utility Index			0.0117		0.0066	0.0051

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Sep-99	S&P 500 Utility Index			-0.0480		0.0066	-0.0546
Oct-99	S&P 500 Utility Index			0.0157		0.0067	0.0090
Nov-99	S&P 500 Utility Index			-0.0773		0.0066	-0.0839
Dec-99	S&P 500 Utility Index			0.0093		0.0068	0.0025
Jan-00	S&P 500 Utility Index			0.1085		0.0070	0.1015
Feb-00	S&P 500 Utility Index			-0.0578		0.0069	-0.0647
Mar-00	S&P 500 Utility Index			0.0349		0.0069	0.0280
Apr-00	S&P 500 Utility Index			0.0794		0.0069	0.0725
May-00	S&P 500 Utility Index			0.0486		0.0072	0.0414
Jun-00	S&P 500 Utility Index			-0.0575		0.0070	-0.0645
Jul-00	S&P 500 Utility Index			0.0677		0.0069	0.0608
Aug-00	S&P 500 Utility Index			0.1372		0.0068	0.1304
Sep-00	S&P 500 Utility Index			0.0915		0.0069	0.0846
Oct-00	S&P 500 Utility Index			-0.0357		0.0068	-0.0425
Nov-00	S&P 500 Utility Index			-0.0132		0.0068	-0.0200
Dec-00	S&P 500 Utility Index			0.0982		0.0065	0.0917
Jan-01	S&P 500 Utility Index			-0.0967		0.0065	-0.1032
Feb-01	S&P 500 Utility Index			0.0353		0.0064	0.0289
Mar-01	S&P 500 Utility Index			-0.0063		0.0064	-0.0127
Apr-01	S&P 500 Utility Index			0.0605		0.0066	0.0539
May-01	S&P 500 Utility Index			-0.0343		0.0067	-0.0410
Jun-01	S&P 500 Utility Index			-0.0791		0.0065	-0.0856
Jul-01	S&P 500 Utility Index			-0.0448		0.0065	-0.0513
Aug-01	S&P 500 Utility Index			-0.0290		0.0063	-0.0353
Sep-01	S&P 500 Utility Index			-0.1152		0.0064	-0.1216
Oct-01	S&P 500 Utility Index			-0.0017		0.0064	-0.0081
Nov-01	S&P 500 Utility Index			-0.0552		0.0063	-0.0615
Dec-01	S&P 500 Utility Index			0.0260		0.0065	0.0195
Jan-02	S&P 500 Utility Index			-0.0565		0.0064	-0.0629
Feb-02	S&P 500 Utility Index			-0.0235		0.0063	-0.0298
Mar-02	S&P 500 Utility Index			0.1223		0.0065	0.1158
Apr-02	S&P 500 Utility Index			-0.0171		0.0063	-0.0234
May-02	S&P 500 Utility Index			-0.0902		0.0063	-0.0965
Jun-02	S&P 500 Utility Index			-0.0710		0.0062	-0.0772

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Jul-02	S&P 500 Utility Index			-0.1380		0.0061	-0.1441
Aug-02	S&P 500 Utility Index			0.0350		0.0060	0.0290
Sep-02	S&P 500 Utility Index			-0.1283		0.0059	-0.1342
Oct-02	S&P 500 Utility Index			-0.0173		0.0060	-0.0233
Nov-02	S&P 500 Utility Index			0.0249		0.0060	0.0189
Dec-02	S&P 500 Utility Index			0.0416		0.0059	0.0357
Jan-03	S&P 500 Utility Index			-0.0292		0.0059	-0.0351
Feb-03	S&P 500 Utility Index			-0.0490		0.0058	-0.0548
Mar-03	S&P 500 Utility Index			0.0505		0.0057	0.0448
Apr-03	S&P 500 Utility Index			0.0885		0.0055	0.0830
May-03	S&P 500 Utility Index			0.1021		0.0053	0.0968
Jun-03	S&P 500 Utility Index			0.0119		0.0052	0.0067
Jul-03	S&P 500 Utility Index			-0.0650		0.0055	-0.0705
Aug-03	S&P 500 Utility Index			0.0175		0.0057	0.0118
Sep-03	S&P 500 Utility Index			0.0457		0.0055	0.0402
Oct-03	S&P 500 Utility Index			0.0112		0.0054	0.0059
Nov-03	S&P 500 Utility Index			-0.0005		0.0053	-0.0058
Dec-03	S&P 500 Utility Index			0.0675		0.0052	0.0623
Jan-04	S&P 500 Utility Index			0.0216		0.0051	0.0165
Feb-04	S&P 500 Utility Index			0.0181		0.0051	0.0130
Mar-04	S&P 500 Utility Index			0.0104		0.0050	0.0054
Apr-04	S&P 500 Utility Index			-0.0362		0.0053	-0.0415
May-04	S&P 500 Utility Index			0.0079		0.0055	0.0024
Jun-04	S&P 500 Utility Index			0.0155		0.0054	0.0101
Jul-04	S&P 500 Utility Index			0.0173		0.0052	0.0121
Aug-04	S&P 500 Utility Index			0.0393		0.0051	0.0342
Sep-04	S&P 500 Utility Index			0.0091		0.0050	0.0041
Oct-04	S&P 500 Utility Index			0.0495		0.0050	0.0445
Nov-04	S&P 500 Utility Index			0.0407		0.0050	0.0357
Dec-04	S&P 500 Utility Index			0.0265		0.0049	0.0216
Jan-05	S&P 500 Utility Index			0.0221		0.0048	0.0173
Feb-05	S&P 500 Utility Index			0.0197		0.0047	0.0150
Mar-05	S&P 500 Utility Index			0.0108		0.0049	0.0059
Apr-05	S&P 500 Utility Index			0.0321		0.0047	0.0274

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
May-05	S&P 500 Utility Index			0.0008		0.0046	-0.0038
Jun-05	S&P 500 Utility Index			0.0576		0.0045	0.0531
Jul-05	S&P 500 Utility Index			0.0233		0.0046	0.0187
Aug-05	S&P 500 Utility Index			0.0073		0.0046	0.0027
Sep-05	S&P 500 Utility Index			0.0402		0.0046	0.0356
Oct-05	S&P 500 Utility Index			-0.0617		0.0048	-0.0665
Nov-05	S&P 500 Utility Index			-0.0039		0.0049	-0.0088
Dec-05	S&P 500 Utility Index			0.0110		0.0048	0.0062
Jan-06	S&P 500 Utility Index			0.0263		0.0048	0.0216
Feb-06	S&P 500 Utility Index			0.0095		0.0049	0.0047
Mar-06	S&P 500 Utility Index			-0.0463		0.0050	-0.0513
Apr-06	S&P 500 Utility Index			0.0172		0.0052	0.0119
May-06	S&P 500 Utility Index			0.0143		0.0054	0.0089
Jun-06	S&P 500 Utility Index			0.0242		0.0053	0.0188
Jul-06	S&P 500 Utility Index			0.0511		0.0053	0.0458
Aug-06	S&P 500 Utility Index			0.0271		0.0052	0.0220
Sep-06	S&P 500 Utility Index			-0.0174		0.0050	-0.0224
Oct-06	S&P 500 Utility Index			0.0560		0.0050	0.0510
Nov-06	S&P 500 Utility Index			0.0214		0.0048	0.0166
Dec-06	S&P 500 Utility Index			0.0118		0.0048	0.0070
Jan-07	S&P 500 Utility Index			-0.0011		0.0050	-0.0061
Feb-07	S&P 500 Utility Index			0.0503		0.0049	0.0454
Mar-07	S&P 500 Utility Index			0.0414		0.0049	0.0365
Apr-07	S&P 500 Utility Index			0.0438		0.0050	0.0388
May-07	S&P 500 Utility Index			0.0051		0.0050	0.0002
Jun-07	S&P 500 Utility Index			-0.0506		0.0053	-0.0559
Jul-07	S&P 500 Utility Index			-0.0357		0.0052	-0.0409
Aug-07	S&P 500 Utility Index			0.0210		0.0052	0.0158
Sep-07	S&P 500 Utility Index			0.0354		0.0052	0.0303
Oct-07	S&P 500 Utility Index			0.0686		0.0051	0.0635
Nov-07	S&P 500 Utility Index			0.0034		0.0050	-0.0016
Dec-07	S&P 500 Utility Index			0.0028		0.0051	-0.0024
Jan-08	S&P 500 Utility Index			-0.0681		0.0050	-0.0731
Feb-08	S&P 500 Utility Index			-0.0500		0.0052	-0.0551

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Mar-08	S&P 500 Utility Index			0.0171		0.0052	0.0119
Apr-08	S&P 500 Utility Index			0.0552		0.0052	0.0499
May-08	S&P 500 Utility Index			0.0320		0.0052	0.0268
Jun-08	S&P 500 Utility Index			-0.0087		0.0053	-0.0140
Jul-08	S&P 500 Utility Index			-0.0611		0.0053	-0.0664
Aug-08	S&P 500 Utility Index			-0.0166		0.0053	-0.0219
Sep-08	S&P 500 Utility Index			-0.1148		0.0054	-0.1202
Oct-08	S&P 500 Utility Index			-0.1161		0.0063	-0.1224
Nov-08	S&P 500 Utility Index			0.0279		0.0063	0.0216
Dec-08	S&P 500 Utility Index			-0.0168		0.0055	-0.0222
Jan-09	S&P 500 Utility Index			-0.0045		0.0053	-0.0099
Feb-09	S&P 500 Utility Index			-0.1257		0.0053	-0.1310
Mar-09	S&P 500 Utility Index			0.0253		0.0054	0.0199
Apr-09	S&P 500 Utility Index			0.0085		0.0054	0.0031
May-09	S&P 500 Utility Index			0.0353		0.0054	0.0299
Jun-09	S&P 500 Utility Index			0.0552		0.0052	0.0500
Jul-09	S&P 500 Utility Index			0.0408		0.0050	0.0358
Aug-09	S&P 500 Utility Index			0.0055		0.0048	0.0007
Sep-09	S&P 500 Utility Index			0.0143		0.0046	0.0097
Oct-09	S&P 500 Utility Index			-0.0284		0.0046	-0.0331
Nov-09	S&P 500 Utility Index			0.0456		0.0047	0.0409
Dec-09	S&P 500 Utility Index			0.0558		0.0048	0.0510
Jan-10	S&P 500 Utility Index			-0.0475		0.0048	-0.0523
Feb-10	S&P 500 Utility Index			-0.0149		0.0049	-0.0198
Mar-10	S&P 500 Utility Index			0.0280		0.0049	0.0231
Apr-10	S&P 500 Utility Index			0.0281		0.0048	0.0232
May-10	S&P 500 Utility Index			-0.0576		0.0046	-0.0622
Jun-10	S&P 500 Utility Index			-0.0064		0.0046	-0.0109
Jul-10	S&P 500 Utility Index			0.0774		0.0044	0.0730
Aug-10	S&P 500 Utility Index			0.0125		0.0042	0.0083
Sep-10	S&P 500 Utility Index			0.0296		0.0042	0.0254
Oct-10	S&P 500 Utility Index			0.0129		0.0043	0.0086
Nov-10	S&P 500 Utility Index			-0.0323		0.0045	-0.0368
Dec-10	S&P 500 Utility Index			0.0312		0.0046	0.0265

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Jan-11	S&P 500 Utility Index			0.0142		0.0046	0.0096
Feb-11	S&P 500 Utility Index			0.0112		0.0047	0.0065
Mar-11	S&P 500 Utility Index			0.0015		0.0046	-0.0032
Apr-11	S&P 500 Utility Index			0.0419		0.0046	0.0373
May-11	S&P 500 Utility Index			0.0198		0.0044	0.0153
Jun-11	S&P 500 Utility Index			-0.0013		0.0044	-0.0057
Jul-11	S&P 500 Utility Index			-0.0075		0.0044	-0.0119
Aug-11	S&P 500 Utility Index			0.0204		0.0039	0.0165
Sep-11	S&P 500 Utility Index			0.0023		0.0037	-0.0015
Oct-11	S&P 500 Utility Index			0.0387		0.0038	0.0350
Nov-11	S&P 500 Utility Index			0.0080		0.0035	0.0045
Dec-11	S&P 500 Utility Index			0.0338		0.0036	0.0302
Jan-12	S&P 500 Utility Index			-0.0332		0.0036	-0.0369
Feb-12	S&P 500 Utility Index			0.0035		0.0036	-0.0002
Mar-12	S&P 500 Utility Index			0.0137		0.0037	0.0100
Apr-12	S&P 500 Utility Index			0.0212		0.0037	0.0176
May-12	S&P 500 Utility Index			0.0022		0.0035	-0.0013
Jun-12	S&P 500 Utility Index			0.0410		0.0034	0.0376
Jul-12	S&P 500 Utility Index			0.0284		0.0033	0.0252
Aug-12	S&P 500 Utility Index			-0.0447		0.0033	-0.0481
Sep-12	S&P 500 Utility Index			0.0123		0.0034	0.0089
Oct-12	S&P 500 Utility Index			0.0172		0.0033	0.0140
Nov-12	S&P 500 Utility Index			-0.0464		0.0032	-0.0496
Dec-12	S&P 500 Utility Index			0.0011		0.0033	-0.0022
Jan-13	S&P 500 Utility Index			0.0351		0.0035	0.0316
Feb-13	S&P 500 Utility Index			0.0339		0.0035	0.0304
Mar-13	S&P 500 Utility Index			0.0540		0.0035	0.0505
Apr-13	S&P 500 Utility Index			0.0590		0.0033	0.0557
May-13	S&P 500 Utility Index			-0.0896		0.0035	-0.0931
Jun-13	S&P 500 Utility Index			0.0114		0.0038	0.0076
Jul-13	S&P 500 Utility Index			0.0385		0.0039	0.0346
Aug-13	S&P 500 Utility Index			-0.0500		0.0039	-0.0539
Sep-13	S&P 500 Utility Index			0.0108		0.0040	0.0068
Oct-13	S&P 500 Utility Index			0.0377		0.0039	0.0338

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	A Rated PU	RP
Nov-13	S&P 500 Utility Index			-0.0199		0.0040	-0.0239
Dec-13	S&P 500 Utility Index			0.0076		0.0040	0.0036
Jan-14	S&P 500 Utility Index			0.0281		0.0039	0.0242
Feb-14	S&P 500 Utility Index			0.0335		0.0038	0.0297
Mar-14	S&P 500 Utility Index			0.0337		0.0038	0.0299
Apr-14	S&P 500 Utility Index			0.0426		0.0037	0.0389
May-14	S&P 500 Utility Index			-0.0105		0.0036	-0.0141
Jun-14	S&P 500 Utility Index			0.0448		0.0036	0.0412
Jul-14	S&P 500 Utility Index			-0.0680		0.0035	-0.0715
Aug-14	S&P 500 Utility Index			0.0495		0.0034	0.0461
Sep-14	S&P 500 Utility Index			-0.0186		0.0035	-0.0221
Oct-14	S&P 500 Utility Index			0.0802		0.0034	0.0768
Nov-14	S&P 500 Utility Index			0.0120		0.0034	0.0086
Dec-14	S&P 500 Utility Index			0.0350		0.0033	0.0317
Jan-15	S&P 500 Utility Index			0.0233		0.0030	0.0203
Feb-15	S&P 500 Utility Index			-0.0633		0.0031	-0.0664
Mar-15	S&P 500 Utility Index			-0.0049		0.0031	-0.0080
Apr-15	S&P 500 Utility Index			-0.0129		0.0031	-0.0160
May-15	S&P 500 Utility Index			0.0065		0.0035	0.0030
Jun-15	S&P 500 Utility Index			-0.0600		0.0037	-0.0637
Jul-15	S&P 500 Utility Index			0.0481		0.0037	0.0444
Aug-15	S&P 500 Utility Index			-0.0397		0.0035	-0.0432
Sep-15	S&P 500 Utility Index			0.0290		0.0037	0.0253
Oct-15	S&P 500 Utility Index			0.0108		0.0036	0.0072
Nov-15	S&P 500 Utility Index			-0.0213		0.0037	-0.0250

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A RP	
Jan-26							
Feb-26							
Mar-26							
Apr-26							
May-26							
Jun-26							
Jul-26							
Aug-26							
Sep-26							
Oct-26							
Nov-26							
Dec-26							
Jan-27							
Feb-27							
Mar-27							
Apr-27							
May-27							
Jun-27							
Jul-27							
Aug-27							
Sep-27							
Oct-27							
Nov-27							
Dec-27							
Jan-28	MKT Minus Aaa and Aa Avg			(0.0040)		0.0038	-0.0078
Feb-28	MKT Minus Aaa and Aa Avg			(0.0125)		0.0038	-0.0163
Mar-28	MKT Minus Aaa and Aa Avg			0.1101		0.0038	0.1063
Apr-28	MKT Minus Aaa and Aa Avg			0.0345		0.0038	0.0307
May-28	MKT Minus Aaa and Aa Avg			0.0197		0.0038	0.0159
Jun-28	MKT Minus Aaa and Aa Avg			(0.0385)		0.0039	-0.0424
Jul-28	MKT Minus Aaa and Aa Avg			0.0141		0.0039	0.0102
Aug-28	MKT Minus Aaa and Aa Avg			0.0803		0.0039	0.0764
Sep-28	MKT Minus Aaa and Aa Avg			0.0259		0.0039	0.0220

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Oct-28	MKT Minus Aaa and Aa Avg			0.0168		0.0039	0.0129
Nov-28	MKT Minus Aaa and Aa Avg			0.1292		0.0039	0.1253
Dec-28	MKT Minus Aaa and Aa Avg			0.0049		0.0039	0.0010
Jan-29	MKT Minus Aaa and Aa Avg			0.0583		0.0039	0.0544
Feb-29	MKT Minus Aaa and Aa Avg			(0.0019)		0.0040	-0.0059
Mar-29	MKT Minus Aaa and Aa Avg			(0.0012)		0.0040	-0.0052
Apr-29	MKT Minus Aaa and Aa Avg			0.0176		0.0040	0.0136
May-29	MKT Minus Aaa and Aa Avg			(0.0362)		0.0040	-0.0402
Jun-29	MKT Minus Aaa and Aa Avg			0.1140		0.0041	0.1099
Jul-29	MKT Minus Aaa and Aa Avg			0.0471		0.0041	0.0430
Aug-29	MKT Minus Aaa and Aa Avg			0.1028		0.0041	0.0987
Sep-29	MKT Minus Aaa and Aa Avg			(0.0476)		0.0041	-0.0517
Oct-29	MKT Minus Aaa and Aa Avg			(0.1973)		0.0041	-0.2014
Nov-29	MKT Minus Aaa and Aa Avg			(0.1246)		0.0040	-0.1286
Dec-29	MKT Minus Aaa and Aa Avg			0.0282		0.0040	0.0242
Jan-30	MKT Minus Aaa and Aa Avg			0.0639		0.0040	0.0599
Feb-30	MKT Minus Aaa and Aa Avg			0.0259		0.0040	0.0219
Mar-30	MKT Minus Aaa and Aa Avg			0.0812		0.0039	0.0773
Apr-30	MKT Minus Aaa and Aa Avg			(0.0080)		0.0039	-0.0119
May-30	MKT Minus Aaa and Aa Avg			(0.0096)		0.0039	-0.0135
Jun-30	MKT Minus Aaa and Aa Avg			(0.1625)		0.0039	-0.1664
Jul-30	MKT Minus Aaa and Aa Avg			0.0386		0.0039	0.0347
Aug-30	MKT Minus Aaa and Aa Avg			0.0141		0.0038	0.0103
Sep-30	MKT Minus Aaa and Aa Avg			(0.1282)		0.0038	-0.1320
Oct-30	MKT Minus Aaa and Aa Avg			(0.0855)		0.0038	-0.0893
Nov-30	MKT Minus Aaa and Aa Avg			(0.0089)		0.0038	-0.0127
Dec-30	MKT Minus Aaa and Aa Avg			(0.0706)		0.0039	-0.0745
Jan-31	MKT Minus Aaa and Aa Avg			0.0502		0.0038	0.0464
Feb-31	MKT Minus Aaa and Aa Avg			0.1193		0.0038	0.1155
Mar-31	MKT Minus Aaa and Aa Avg			(0.0675)		0.0038	-0.0713
Apr-31	MKT Minus Aaa and Aa Avg			(0.0935)		0.0038	-0.0973
May-31	MKT Minus Aaa and Aa Avg			(0.1279)		0.0038	-0.1317
Jun-31	MKT Minus Aaa and Aa Avg			0.1421		0.0038	0.1383

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A RP	
Jul-31	MKT Minus Aaa and Aa Avg			(0.0722)		0.0038	-0.0760
Aug-31	MKT Minus Aaa and Aa Avg			0.0182		0.0039	0.0143
Sep-31	MKT Minus Aaa and Aa Avg			(0.2973)		0.0040	-0.3013
Oct-31	MKT Minus Aaa and Aa Avg			0.0896		0.0044	0.0852
Nov-31	MKT Minus Aaa and Aa Avg			(0.0798)		0.0044	-0.0842
Dec-31	MKT Minus Aaa and Aa Avg			(0.1400)		0.0048	-0.1448
Jan-32	MKT Minus Aaa and Aa Avg			(0.0271)		0.0047	-0.0318
Feb-32	MKT Minus Aaa and Aa Avg			0.0570		0.0047	0.0523
Mar-32	MKT Minus Aaa and Aa Avg			(0.1158)		0.0045	-0.1203
Apr-32	MKT Minus Aaa and Aa Avg			(0.1997)		0.0047	-0.2044
May-32	MKT Minus Aaa and Aa Avg			(0.2196)		0.0049	-0.2245
Jun-32	MKT Minus Aaa and Aa Avg			(0.0022)		0.0050	-0.0072
Jul-32	MKT Minus Aaa and Aa Avg			0.3815		0.0049	0.3766
Aug-32	MKT Minus Aaa and Aa Avg			0.3869		0.0045	0.3824
Sep-32	MKT Minus Aaa and Aa Avg			(0.0346)		0.0043	-0.0389
Oct-32	MKT Minus Aaa and Aa Avg			(0.1349)		0.0042	-0.1391
Nov-32	MKT Minus Aaa and Aa Avg			(0.0417)		0.0043	-0.0460
Dec-32	MKT Minus Aaa and Aa Avg			0.0565		0.0042	0.0523
Jan-33	MKT Minus Aaa and Aa Avg			0.0087		0.0041	0.0046
Feb-33	MKT Minus Aaa and Aa Avg			(0.1772)		0.0041	-0.1813
Mar-33	MKT Minus Aaa and Aa Avg			0.0353		0.0043	0.0310
Apr-33	MKT Minus Aaa and Aa Avg			0.4256		0.0044	0.4212
May-33	MKT Minus Aaa and Aa Avg			0.1683		0.0042	0.1641
Jun-33	MKT Minus Aaa and Aa Avg			0.1338		0.0040	0.1298
Jul-33	MKT Minus Aaa and Aa Avg			(0.0862)		0.0038	-0.0900
Aug-33	MKT Minus Aaa and Aa Avg			0.1206		0.0038	0.1168
Sep-33	MKT Minus Aaa and Aa Avg			(0.1118)		0.0039	-0.1157
Oct-33	MKT Minus Aaa and Aa Avg			(0.0855)		0.0039	-0.0894
Nov-33	MKT Minus Aaa and Aa Avg			0.1127		0.0041	0.1086
Dec-33	MKT Minus Aaa and Aa Avg			0.0253		0.0041	0.0212
Jan-34	MKT Minus Aaa and Aa Avg			0.1069		0.0039	0.1030
Feb-34	MKT Minus Aaa and Aa Avg			(0.0322)		0.0037	-0.0359
Mar-34	MKT Minus Aaa and Aa Avg			-		0.0036	-0.0036

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Apr-34	MKT Minus Aaa and Aa Avg			(0.0251)		0.0035	-0.0286
May-34	MKT Minus Aaa and Aa Avg			(0.0736)		0.0035	-0.0771
Jun-34	MKT Minus Aaa and Aa Avg			0.0229		0.0034	0.0195
Jul-34	MKT Minus Aaa and Aa Avg			(0.1132)		0.0034	-0.1166
Aug-34	MKT Minus Aaa and Aa Avg			0.0611		0.0034	0.0577
Sep-34	MKT Minus Aaa and Aa Avg			(0.0033)		0.0035	-0.0068
Oct-34	MKT Minus Aaa and Aa Avg			(0.0286)		0.0034	-0.0320
Nov-34	MKT Minus Aaa and Aa Avg			0.0942		0.0034	0.0908
Dec-34	MKT Minus Aaa and Aa Avg			(0.0010)		0.0034	-0.0044
Jan-35	MKT Minus Aaa and Aa Avg			(0.0411)		0.0033	-0.0444
Feb-35	MKT Minus Aaa and Aa Avg			(0.0341)		0.0033	-0.0374
Mar-35	MKT Minus Aaa and Aa Avg			(0.0286)		0.0032	-0.0318
Apr-35	MKT Minus Aaa and Aa Avg			0.0980		0.0032	0.0948
May-35	MKT Minus Aaa and Aa Avg			0.0409		0.0032	0.0377
Jun-35	MKT Minus Aaa and Aa Avg			0.0699		0.0032	0.0667
Jul-35	MKT Minus Aaa and Aa Avg			0.0850		0.0031	0.0819
Aug-35	MKT Minus Aaa and Aa Avg			0.0280		0.0031	0.0249
Sep-35	MKT Minus Aaa and Aa Avg			0.0256		0.0031	0.0225
Oct-35	MKT Minus Aaa and Aa Avg			0.0777		0.0031	0.0746
Nov-35	MKT Minus Aaa and Aa Avg			0.0474		0.0030	0.0444
Dec-35	MKT Minus Aaa and Aa Avg			0.0394		0.0030	0.0364
Jan-36	MKT Minus Aaa and Aa Avg			0.0670		0.0029	0.0641
Feb-36	MKT Minus Aaa and Aa Avg			0.0224		0.0029	0.0195
Mar-36	MKT Minus Aaa and Aa Avg			0.0268		0.0029	0.0240
Apr-36	MKT Minus Aaa and Aa Avg			(0.0751)		0.0029	-0.0780
May-36	MKT Minus Aaa and Aa Avg			0.0545		0.0028	0.0517
Jun-36	MKT Minus Aaa and Aa Avg			0.0333		0.0028	0.0305
Jul-36	MKT Minus Aaa and Aa Avg			0.0701		0.0028	0.0673
Aug-36	MKT Minus Aaa and Aa Avg			0.0151		0.0028	0.0123
Sep-36	MKT Minus Aaa and Aa Avg			0.0031		0.0027	0.0004
Oct-36	MKT Minus Aaa and Aa Avg			0.0775		0.0027	0.0748
Nov-36	MKT Minus Aaa and Aa Avg			0.0134		0.0027	0.0107
Dec-36	MKT Minus Aaa and Aa Avg			(0.0029)		0.0027	-0.0056

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Jan-37	MKT Minus Aaa and Aa Avg			0.0390		0.0027	0.0363
Feb-37	MKT Minus Aaa and Aa Avg			0.0191		0.0028	0.0163
Mar-37	MKT Minus Aaa and Aa Avg			(0.0077)		0.0028	-0.0105
Apr-37	MKT Minus Aaa and Aa Avg			(0.0809)		0.0029	-0.0838
May-37	MKT Minus Aaa and Aa Avg			(0.0024)		0.0028	-0.0052
Jun-37	MKT Minus Aaa and Aa Avg			(0.0504)		0.0028	-0.0532
Jul-37	MKT Minus Aaa and Aa Avg			0.1045		0.0028	0.1017
Aug-37	MKT Minus Aaa and Aa Avg			(0.0483)		0.0028	-0.0511
Sep-37	MKT Minus Aaa and Aa Avg			(0.1403)		0.0028	-0.1431
Oct-37	MKT Minus Aaa and Aa Avg			(0.0981)		0.0028	-0.1009
Nov-37	MKT Minus Aaa and Aa Avg			(0.0866)		0.0028	-0.0894
Dec-37	MKT Minus Aaa and Aa Avg			(0.0459)		0.0028	-0.0487
Jan-38	MKT Minus Aaa and Aa Avg			0.0152		0.0028	0.0124
Feb-38	MKT Minus Aaa and Aa Avg			0.0674		0.0028	0.0646
Mar-38	MKT Minus Aaa and Aa Avg			(0.2487)		0.0028	-0.2515
Apr-38	MKT Minus Aaa and Aa Avg			0.1447		0.0029	0.1418
May-38	MKT Minus Aaa and Aa Avg			(0.0330)		0.0028	-0.0358
Jun-38	MKT Minus Aaa and Aa Avg			0.2503		0.0029	0.2474
Jul-38	MKT Minus Aaa and Aa Avg			0.0744		0.0029	0.0716
Aug-38	MKT Minus Aaa and Aa Avg			(0.0226)		0.0028	-0.0254
Sep-38	MKT Minus Aaa and Aa Avg			0.0166		0.0028	0.0138
Oct-38	MKT Minus Aaa and Aa Avg			0.0776		0.0028	0.0748
Nov-38	MKT Minus Aaa and Aa Avg			(0.0273)		0.0027	-0.0300
Dec-38	MKT Minus Aaa and Aa Avg			0.0401		0.0027	0.0374
Jan-39	MKT Minus Aaa and Aa Avg			(0.0674)		0.0026	-0.0700
Feb-39	MKT Minus Aaa and Aa Avg			0.0390		0.0026	0.0364
Mar-39	MKT Minus Aaa and Aa Avg			(0.1339)		0.0026	-0.1365
Apr-39	MKT Minus Aaa and Aa Avg			(0.0027)		0.0026	-0.0053
May-39	MKT Minus Aaa and Aa Avg			0.0733		0.0026	0.0707
Jun-39	MKT Minus Aaa and Aa Avg			(0.0612)		0.0025	-0.0637
Jul-39	MKT Minus Aaa and Aa Avg			0.1105		0.0025	0.1080
Aug-39	MKT Minus Aaa and Aa Avg			(0.0648)		0.0025	-0.0673
Sep-39	MKT Minus Aaa and Aa Avg			0.1673		0.0028	0.1645

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Oct-39	MKT Minus Aaa and Aa Avg			(0.0123)		0.0027	-0.0150
Nov-39	MKT Minus Aaa and Aa Avg			(0.0398)		0.0026	-0.0424
Dec-39	MKT Minus Aaa and Aa Avg			0.0270		0.0025	0.0245
Jan-40	MKT Minus Aaa and Aa Avg			(0.0336)		0.0025	-0.0361
Feb-40	MKT Minus Aaa and Aa Avg			0.0133		0.0025	0.0108
Mar-40	MKT Minus Aaa and Aa Avg			0.0124		0.0025	0.0100
Apr-40	MKT Minus Aaa and Aa Avg			(0.0024)		0.0024	-0.0048
May-40	MKT Minus Aaa and Aa Avg			(0.2289)		0.0025	-0.2314
Jun-40	MKT Minus Aaa and Aa Avg			0.0809		0.0025	0.0784
Jul-40	MKT Minus Aaa and Aa Avg			0.0341		0.0025	0.0316
Aug-40	MKT Minus Aaa and Aa Avg			0.0350		0.0025	0.0326
Sep-40	MKT Minus Aaa and Aa Avg			0.0123		0.0024	0.0099
Oct-40	MKT Minus Aaa and Aa Avg			0.0422		0.0024	0.0398
Nov-40	MKT Minus Aaa and Aa Avg			(0.0316)		0.0024	-0.0340
Dec-40	MKT Minus Aaa and Aa Avg			0.0009		0.0023	-0.0014
Jan-41	MKT Minus Aaa and Aa Avg			(0.0463)		0.0024	-0.0487
Feb-41	MKT Minus Aaa and Aa Avg			(0.0060)		0.0024	-0.0084
Mar-41	MKT Minus Aaa and Aa Avg			0.0071		0.0024	0.0047
Apr-41	MKT Minus Aaa and Aa Avg			(0.0612)		0.0024	-0.0636
May-41	MKT Minus Aaa and Aa Avg			0.0183		0.0024	0.0159
Jun-41	MKT Minus Aaa and Aa Avg			0.0578		0.0024	0.0554
Jul-41	MKT Minus Aaa and Aa Avg			0.0579		0.0024	0.0556
Aug-41	MKT Minus Aaa and Aa Avg			0.0010		0.0024	-0.0014
Sep-41	MKT Minus Aaa and Aa Avg			(0.0068)		0.0024	-0.0092
Oct-41	MKT Minus Aaa and Aa Avg			(0.0657)		0.0023	-0.0680
Nov-41	MKT Minus Aaa and Aa Avg			(0.0284)		0.0023	-0.0307
Dec-41	MKT Minus Aaa and Aa Avg			(0.0407)		0.0024	-0.0431
Jan-42	MKT Minus Aaa and Aa Avg			0.0161		0.0024	0.0137
Feb-42	MKT Minus Aaa and Aa Avg			(0.0159)		0.0024	-0.0183
Mar-42	MKT Minus Aaa and Aa Avg			(0.0652)		0.0024	-0.0676
Apr-42	MKT Minus Aaa and Aa Avg			(0.0399)		0.0024	-0.0423
May-42	MKT Minus Aaa and Aa Avg			0.0796		0.0024	0.0772
Jun-42	MKT Minus Aaa and Aa Avg			0.0221		0.0024	0.0197

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Jul-42	MKT Minus Aaa and Aa Avg			0.0337		0.0024	0.0313
Aug-42	MKT Minus Aaa and Aa Avg			0.0164		0.0024	0.0140
Sep-42	MKT Minus Aaa and Aa Avg			0.0290		0.0024	0.0266
Oct-42	MKT Minus Aaa and Aa Avg			0.0678		0.0024	0.0654
Nov-42	MKT Minus Aaa and Aa Avg			(0.0021)		0.0024	-0.0045
Dec-42	MKT Minus Aaa and Aa Avg			0.0549		0.0024	0.0525
Jan-43	MKT Minus Aaa and Aa Avg			0.0737		0.0024	0.0713
Feb-43	MKT Minus Aaa and Aa Avg			0.0583		0.0024	0.0559
Mar-43	MKT Minus Aaa and Aa Avg			0.0545		0.0024	0.0522
Apr-43	MKT Minus Aaa and Aa Avg			0.0035		0.0024	0.0012
May-43	MKT Minus Aaa and Aa Avg			0.0552		0.0023	0.0529
Jun-43	MKT Minus Aaa and Aa Avg			0.0223		0.0023	0.0200
Jul-43	MKT Minus Aaa and Aa Avg			(0.0526)		0.0023	-0.0549
Aug-43	MKT Minus Aaa and Aa Avg			0.0171		0.0023	0.0148
Sep-43	MKT Minus Aaa and Aa Avg			0.0263		0.0023	0.0240
Oct-43	MKT Minus Aaa and Aa Avg			(0.0108)		0.0023	-0.0131
Nov-43	MKT Minus Aaa and Aa Avg			(0.0654)		0.0023	-0.0677
Dec-43	MKT Minus Aaa and Aa Avg			0.0617		0.0023	0.0594
Jan-44	MKT Minus Aaa and Aa Avg			0.0171		0.0023	0.0148
Feb-44	MKT Minus Aaa and Aa Avg			0.0042		0.0023	0.0019
Mar-44	MKT Minus Aaa and Aa Avg			0.0195		0.0023	0.0172
Apr-44	MKT Minus Aaa and Aa Avg			(0.0100)		0.0023	-0.0123
May-44	MKT Minus Aaa and Aa Avg			0.0505		0.0023	0.0482
Jun-44	MKT Minus Aaa and Aa Avg			0.0543		0.0023	0.0520
Jul-44	MKT Minus Aaa and Aa Avg			(0.0193)		0.0023	-0.0216
Aug-44	MKT Minus Aaa and Aa Avg			0.0157		0.0023	0.0134
Sep-44	MKT Minus Aaa and Aa Avg			(0.0008)		0.0023	-0.0031
Oct-44	MKT Minus Aaa and Aa Avg			0.0023		0.0023	0.0000
Nov-44	MKT Minus Aaa and Aa Avg			0.0133		0.0023	0.0110
Dec-44	MKT Minus Aaa and Aa Avg			0.0374		0.0023	0.0351
Jan-45	MKT Minus Aaa and Aa Avg			0.0158		0.0023	0.0135
Feb-45	MKT Minus Aaa and Aa Avg			0.0683		0.0022	0.0661
Mar-45	MKT Minus Aaa and Aa Avg			(0.0441)		0.0022	-0.0463

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Apr-45	MKT Minus Aaa and Aa Avg			0.0902		0.0022	0.0880
May-45	MKT Minus Aaa and Aa Avg			0.0195		0.0022	0.0173
Jun-45	MKT Minus Aaa and Aa Avg			(0.0007)		0.0022	-0.0029
Jul-45	MKT Minus Aaa and Aa Avg			(0.0180)		0.0022	-0.0202
Aug-45	MKT Minus Aaa and Aa Avg			0.0641		0.0022	0.0619
Sep-45	MKT Minus Aaa and Aa Avg			0.0438		0.0022	0.0416
Oct-45	MKT Minus Aaa and Aa Avg			0.0322		0.0022	0.0300
Nov-45	MKT Minus Aaa and Aa Avg			0.0396		0.0022	0.0374
Dec-45	MKT Minus Aaa and Aa Avg			0.0116		0.0022	0.0094
Jan-46	MKT Minus Aaa and Aa Avg			0.0714		0.0022	0.0693
Feb-46	MKT Minus Aaa and Aa Avg			(0.0641)		0.0021	-0.0662
Mar-46	MKT Minus Aaa and Aa Avg			0.0480		0.0021	0.0459
Apr-46	MKT Minus Aaa and Aa Avg			0.0393		0.0021	0.0372
May-46	MKT Minus Aaa and Aa Avg			0.0288		0.0021	0.0267
Jun-46	MKT Minus Aaa and Aa Avg			(0.0370)		0.0021	-0.0391
Jul-46	MKT Minus Aaa and Aa Avg			(0.0239)		0.0021	-0.0260
Aug-46	MKT Minus Aaa and Aa Avg			(0.0674)		0.0021	-0.0695
Sep-46	MKT Minus Aaa and Aa Avg			(0.0997)		0.0022	-0.1019
Oct-46	MKT Minus Aaa and Aa Avg			(0.0060)		0.0022	-0.0082
Nov-46	MKT Minus Aaa and Aa Avg			(0.0027)		0.0022	-0.0049
Dec-46	MKT Minus Aaa and Aa Avg			0.0457		0.0022	0.0435
Jan-47	MKT Minus Aaa and Aa Avg			0.0255		0.0022	0.0233
Feb-47	MKT Minus Aaa and Aa Avg			(0.0077)		0.0022	-0.0099
Mar-47	MKT Minus Aaa and Aa Avg			(0.0149)		0.0022	-0.0171
Apr-47	MKT Minus Aaa and Aa Avg			(0.0363)		0.0022	-0.0385
May-47	MKT Minus Aaa and Aa Avg			0.0014		0.0022	-0.0008
Jun-47	MKT Minus Aaa and Aa Avg			0.0554		0.0022	0.0532
Jul-47	MKT Minus Aaa and Aa Avg			0.0381		0.0022	0.0359
Aug-47	MKT Minus Aaa and Aa Avg			(0.0203)		0.0022	-0.0225
Sep-47	MKT Minus Aaa and Aa Avg			(0.0111)		0.0022	-0.0133
Oct-47	MKT Minus Aaa and Aa Avg			0.0238		0.0023	0.0215
Nov-47	MKT Minus Aaa and Aa Avg			(0.0175)		0.0023	-0.0198
Dec-47	MKT Minus Aaa and Aa Avg			0.0233		0.0024	0.0209

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Jan-48	MKT Minus Aaa and Aa Avg			(0.0379)		0.0024	-0.0403
Feb-48	MKT Minus Aaa and Aa Avg			(0.0388)		0.0024	-0.0412
Mar-48	MKT Minus Aaa and Aa Avg			0.0793		0.0024	0.0769
Apr-48	MKT Minus Aaa and Aa Avg			0.0292		0.0024	0.0268
May-48	MKT Minus Aaa and Aa Avg			0.0879		0.0023	0.0856
Jun-48	MKT Minus Aaa and Aa Avg			0.0054		0.0023	0.0031
Jul-48	MKT Minus Aaa and Aa Avg			(0.0508)		0.0024	-0.0532
Aug-48	MKT Minus Aaa and Aa Avg			0.0158		0.0024	0.0134
Sep-48	MKT Minus Aaa and Aa Avg			(0.0276)		0.0024	-0.0300
Oct-48	MKT Minus Aaa and Aa Avg			0.0710		0.0024	0.0686
Nov-48	MKT Minus Aaa and Aa Avg			(0.0961)		0.0024	-0.0985
Dec-48	MKT Minus Aaa and Aa Avg			0.0346		0.0024	0.0322
Jan-49	MKT Minus Aaa and Aa Avg			0.0039		0.0023	0.0016
Feb-49	MKT Minus Aaa and Aa Avg			(0.0296)		0.0023	-0.0319
Mar-49	MKT Minus Aaa and Aa Avg			0.0328		0.0023	0.0305
Apr-49	MKT Minus Aaa and Aa Avg			(0.0179)		0.0023	-0.0202
May-49	MKT Minus Aaa and Aa Avg			(0.0258)		0.0023	-0.0281
Jun-49	MKT Minus Aaa and Aa Avg			0.0014		0.0023	-0.0009
Jul-49	MKT Minus Aaa and Aa Avg			0.0650		0.0023	0.0627
Aug-49	MKT Minus Aaa and Aa Avg			0.0219		0.0022	0.0197
Sep-49	MKT Minus Aaa and Aa Avg			0.0263		0.0022	0.0241
Oct-49	MKT Minus Aaa and Aa Avg			0.0340		0.0022	0.0318
Nov-49	MKT Minus Aaa and Aa Avg			0.0175		0.0022	0.0153
Dec-49	MKT Minus Aaa and Aa Avg			0.0486		0.0022	0.0464
Jan-50	MKT Minus Aaa and Aa Avg			0.0197		0.0022	0.0175
Feb-50	MKT Minus Aaa and Aa Avg			0.0199		0.0022	0.0177
Mar-50	MKT Minus Aaa and Aa Avg			0.0070		0.0022	0.0048
Apr-50	MKT Minus Aaa and Aa Avg			0.0486		0.0022	0.0464
May-50	MKT Minus Aaa and Aa Avg			0.0509		0.0022	0.0487
Jun-50	MKT Minus Aaa and Aa Avg			(0.0548)		0.0022	-0.0570
Jul-50	MKT Minus Aaa and Aa Avg			0.0119		0.0022	0.0097
Aug-50	MKT Minus Aaa and Aa Avg			0.0443		0.0022	0.0421
Sep-50	MKT Minus Aaa and Aa Avg			0.0592		0.0022	0.0570

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A RP	
Oct-50	MKT Minus Aaa and Aa Avg			0.0093		0.0022	0.0071
Nov-50	MKT Minus Aaa and Aa Avg			0.0169		0.0022	0.0147
Dec-50	MKT Minus Aaa and Aa Avg			0.0513		0.0022	0.0491
Jan-51	MKT Minus Aaa and Aa Avg			0.0637		0.0022	0.0615
Feb-51	MKT Minus Aaa and Aa Avg			0.0157		0.0022	0.0135
Mar-51	MKT Minus Aaa and Aa Avg			(0.0156)		0.0023	-0.0179
Apr-51	MKT Minus Aaa and Aa Avg			0.0509		0.0024	0.0485
May-51	MKT Minus Aaa and Aa Avg			(0.0299)		0.0024	-0.0323
Jun-51	MKT Minus Aaa and Aa Avg			(0.0228)		0.0025	-0.0253
Jul-51	MKT Minus Aaa and Aa Avg			0.0711		0.0025	0.0686
Aug-51	MKT Minus Aaa and Aa Avg			0.0478		0.0024	0.0454
Sep-51	MKT Minus Aaa and Aa Avg			0.0013		0.0024	-0.0011
Oct-51	MKT Minus Aaa and Aa Avg			(0.0103)		0.0024	-0.0127
Nov-51	MKT Minus Aaa and Aa Avg			0.0096		0.0025	0.0071
Dec-51	MKT Minus Aaa and Aa Avg			0.0424		0.0025	0.0399
Jan-52	MKT Minus Aaa and Aa Avg			0.0181		0.0025	0.0156
Feb-52	MKT Minus Aaa and Aa Avg			(0.0282)		0.0025	-0.0307
Mar-52	MKT Minus Aaa and Aa Avg			0.0503		0.0025	0.0478
Apr-52	MKT Minus Aaa and Aa Avg			(0.0402)		0.0025	-0.0427
May-52	MKT Minus Aaa and Aa Avg			0.0343		0.0025	0.0318
Jun-52	MKT Minus Aaa and Aa Avg			0.0490		0.0025	0.0465
Jul-52	MKT Minus Aaa and Aa Avg			0.0196		0.0025	0.0171
Aug-52	MKT Minus Aaa and Aa Avg			(0.0071)		0.0025	-0.0096
Sep-52	MKT Minus Aaa and Aa Avg			(0.0176)		0.0025	-0.0201
Oct-52	MKT Minus Aaa and Aa Avg			0.0020		0.0025	-0.0005
Nov-52	MKT Minus Aaa and Aa Avg			0.0571		0.0025	0.0546
Dec-52	MKT Minus Aaa and Aa Avg			0.0382		0.0025	0.0357
Jan-53	MKT Minus Aaa and Aa Avg			(0.0049)		0.0025	-0.0074
Feb-53	MKT Minus Aaa and Aa Avg			(0.0106)		0.0026	-0.0132
Mar-53	MKT Minus Aaa and Aa Avg			(0.0212)		0.0026	-0.0238
Apr-53	MKT Minus Aaa and Aa Avg			(0.0237)		0.0027	-0.0264
May-53	MKT Minus Aaa and Aa Avg			0.0077		0.0028	0.0049
Jun-53	MKT Minus Aaa and Aa Avg			(0.0134)		0.0029	-0.0163

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Jul-53	MKT Minus Aaa and Aa Avg			0.0273		0.0028	0.0245
Aug-53	MKT Minus Aaa and Aa Avg			(0.0501)		0.0028	-0.0529
Sep-53	MKT Minus Aaa and Aa Avg			0.0034		0.0028	0.0006
Oct-53	MKT Minus Aaa and Aa Avg			0.0540		0.0027	0.0513
Nov-53	MKT Minus Aaa and Aa Avg			0.0204		0.0027	0.0177
Dec-53	MKT Minus Aaa and Aa Avg			0.0052		0.0027	0.0025
Jan-54	MKT Minus Aaa and Aa Avg			0.0536		0.0026	0.0510
Feb-54	MKT Minus Aaa and Aa Avg			0.0111		0.0025	0.0086
Mar-54	MKT Minus Aaa and Aa Avg			0.0325		0.0025	0.0300
Apr-54	MKT Minus Aaa and Aa Avg			0.0516		0.0024	0.0492
May-54	MKT Minus Aaa and Aa Avg			0.0418		0.0025	0.0393
Jun-54	MKT Minus Aaa and Aa Avg			0.0031		0.0025	0.0006
Jul-54	MKT Minus Aaa and Aa Avg			0.0589		0.0025	0.0564
Aug-54	MKT Minus Aaa and Aa Avg			(0.0275)		0.0025	-0.0300
Sep-54	MKT Minus Aaa and Aa Avg			0.0851		0.0025	0.0826
Oct-54	MKT Minus Aaa and Aa Avg			(0.0167)		0.0025	-0.0192
Nov-54	MKT Minus Aaa and Aa Avg			0.0909		0.0025	0.0884
Dec-54	MKT Minus Aaa and Aa Avg			0.0534		0.0025	0.0509
Jan-55	MKT Minus Aaa and Aa Avg			0.0197		0.0025	0.0172
Feb-55	MKT Minus Aaa and Aa Avg			0.0098		0.0025	0.0073
Mar-55	MKT Minus Aaa and Aa Avg			(0.0030)		0.0026	-0.0056
Apr-55	MKT Minus Aaa and Aa Avg			0.0396		0.0026	0.0370
May-55	MKT Minus Aaa and Aa Avg			0.0055		0.0026	0.0029
Jun-55	MKT Minus Aaa and Aa Avg			0.0841		0.0026	0.0815
Jul-55	MKT Minus Aaa and Aa Avg			0.0622		0.0026	0.0596
Aug-55	MKT Minus Aaa and Aa Avg			(0.0025)		0.0026	-0.0051
Sep-55	MKT Minus Aaa and Aa Avg			0.0130		0.0026	0.0104
Oct-55	MKT Minus Aaa and Aa Avg			(0.0284)		0.0026	-0.0310
Nov-55	MKT Minus Aaa and Aa Avg			0.0827		0.0026	0.0801
Dec-55	MKT Minus Aaa and Aa Avg			0.0015		0.0027	-0.0012
Jan-56	MKT Minus Aaa and Aa Avg			(0.0347)		0.0026	-0.0373
Feb-56	MKT Minus Aaa and Aa Avg			0.0413		0.0026	0.0387
Mar-56	MKT Minus Aaa and Aa Avg			0.0710		0.0026	0.0684

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A RP	
Apr-56	MKT Minus Aaa and Aa Avg			(0.0004)		0.0027	-0.0031
May-56	MKT Minus Aaa and Aa Avg			(0.0593)		0.0028	-0.0621
Jun-56	MKT Minus Aaa and Aa Avg			0.0409		0.0028	0.0381
Jul-56	MKT Minus Aaa and Aa Avg			0.0530		0.0028	0.0502
Aug-56	MKT Minus Aaa and Aa Avg			(0.0328)		0.0029	-0.0357
Sep-56	MKT Minus Aaa and Aa Avg			(0.0440)		0.0030	-0.0470
Oct-56	MKT Minus Aaa and Aa Avg			0.0066		0.0030	0.0036
Nov-56	MKT Minus Aaa and Aa Avg			(0.0050)		0.0031	-0.0081
Dec-56	MKT Minus Aaa and Aa Avg			0.0370		0.0032	0.0338
Jan-57	MKT Minus Aaa and Aa Avg			(0.0401)		0.0032	-0.0433
Feb-57	MKT Minus Aaa and Aa Avg			(0.0264)		0.0031	-0.0295
Mar-57	MKT Minus Aaa and Aa Avg			0.0215		0.0031	0.0184
Apr-57	MKT Minus Aaa and Aa Avg			0.0388		0.0031	0.0357
May-57	MKT Minus Aaa and Aa Avg			0.0437		0.0032	0.0405
Jun-57	MKT Minus Aaa and Aa Avg			0.0004		0.0033	-0.0029
Jul-57	MKT Minus Aaa and Aa Avg			0.0131		0.0034	0.0097
Aug-57	MKT Minus Aaa and Aa Avg			(0.0505)		0.0035	-0.0540
Sep-57	MKT Minus Aaa and Aa Avg			(0.0602)		0.0035	-0.0637
Oct-57	MKT Minus Aaa and Aa Avg			(0.0302)		0.0035	-0.0337
Nov-57	MKT Minus Aaa and Aa Avg			0.0231		0.0035	0.0196
Dec-57	MKT Minus Aaa and Aa Avg			(0.0395)		0.0033	-0.0428
Jan-58	MKT Minus Aaa and Aa Avg			0.0445		0.0031	0.0414
Feb-58	MKT Minus Aaa and Aa Avg			(0.0141)		0.0031	-0.0172
Mar-58	MKT Minus Aaa and Aa Avg			0.0328		0.0031	0.0297
Apr-58	MKT Minus Aaa and Aa Avg			0.0337		0.0031	0.0306
May-58	MKT Minus Aaa and Aa Avg			0.0212		0.0031	0.0181
Jun-58	MKT Minus Aaa and Aa Avg			0.0279		0.0031	0.0248
Jul-58	MKT Minus Aaa and Aa Avg			0.0449		0.0031	0.0418
Aug-58	MKT Minus Aaa and Aa Avg			0.0176		0.0033	0.0143
Sep-58	MKT Minus Aaa and Aa Avg			0.0501		0.0035	0.0466
Oct-58	MKT Minus Aaa and Aa Avg			0.0270		0.0035	0.0235
Nov-58	MKT Minus Aaa and Aa Avg			0.0284		0.0035	0.0249
Dec-58	MKT Minus Aaa and Aa Avg			0.0535		0.0034	0.0501

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A RP	
Jan-59	MKT Minus Aaa and Aa Avg			0.0053		0.0035	0.0018
Feb-59	MKT Minus Aaa and Aa Avg			0.0049		0.0035	0.0014
Mar-59	MKT Minus Aaa and Aa Avg			0.0020		0.0035	-0.0015
Apr-59	MKT Minus Aaa and Aa Avg			0.0402		0.0036	0.0366
May-59	MKT Minus Aaa and Aa Avg			0.0240		0.0037	0.0203
Jun-59	MKT Minus Aaa and Aa Avg			(0.0022)		0.0038	-0.0060
Jul-59	MKT Minus Aaa and Aa Avg			0.0363		0.0038	0.0325
Aug-59	MKT Minus Aaa and Aa Avg			(0.0102)		0.0038	-0.0140
Sep-59	MKT Minus Aaa and Aa Avg			(0.0443)		0.0038	-0.0481
Oct-59	MKT Minus Aaa and Aa Avg			0.0128		0.0039	0.0089
Nov-59	MKT Minus Aaa and Aa Avg			0.0186		0.0039	0.0147
Dec-59	MKT Minus Aaa and Aa Avg			0.0292		0.0039	0.0253
Jan-60	MKT Minus Aaa and Aa Avg			(0.0700)		0.0039	-0.0739
Feb-60	MKT Minus Aaa and Aa Avg			0.0147		0.0039	0.0108
Mar-60	MKT Minus Aaa and Aa Avg			(0.0123)		0.0038	-0.0161
Apr-60	MKT Minus Aaa and Aa Avg			(0.0161)		0.0038	-0.0199
May-60	MKT Minus Aaa and Aa Avg			0.0326		0.0038	0.0288
Jun-60	MKT Minus Aaa and Aa Avg			0.0211		0.0038	0.0173
Jul-60	MKT Minus Aaa and Aa Avg			(0.0234)		0.0037	-0.0271
Aug-60	MKT Minus Aaa and Aa Avg			0.0317		0.0036	0.0281
Sep-60	MKT Minus Aaa and Aa Avg			(0.0590)		0.0036	-0.0626
Oct-60	MKT Minus Aaa and Aa Avg			(0.0007)		0.0036	-0.0043
Nov-60	MKT Minus Aaa and Aa Avg			0.0465		0.0037	0.0428
Dec-60	MKT Minus Aaa and Aa Avg			0.0479		0.0037	0.0442
Jan-61	MKT Minus Aaa and Aa Avg			0.0645		0.0037	0.0608
Feb-61	MKT Minus Aaa and Aa Avg			0.0319		0.0036	0.0283
Mar-61	MKT Minus Aaa and Aa Avg			0.0270		0.0036	0.0234
Apr-61	MKT Minus Aaa and Aa Avg			0.0051		0.0036	0.0015
May-61	MKT Minus Aaa and Aa Avg			0.0239		0.0036	0.0203
Jun-61	MKT Minus Aaa and Aa Avg			(0.0275)		0.0037	-0.0312
Jul-61	MKT Minus Aaa and Aa Avg			0.0342		0.0037	0.0305
Aug-61	MKT Minus Aaa and Aa Avg			0.0243		0.0038	0.0205
Sep-61	MKT Minus Aaa and Aa Avg			(0.0184)		0.0038	-0.0222

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Oct-61	MKT Minus Aaa and Aa Avg			0.0298		0.0037	0.0261
Nov-61	MKT Minus Aaa and Aa Avg			0.0447		0.0037	0.0410
Dec-61	MKT Minus Aaa and Aa Avg			0.0046		0.0037	0.0009
Jan-62	MKT Minus Aaa and Aa Avg			(0.0366)		0.0037	-0.0403
Feb-62	MKT Minus Aaa and Aa Avg			0.0209		0.0037	0.0172
Mar-62	MKT Minus Aaa and Aa Avg			(0.0046)		0.0037	-0.0083
Apr-62	MKT Minus Aaa and Aa Avg			(0.0607)		0.0037	-0.0644
May-62	MKT Minus Aaa and Aa Avg			(0.0811)		0.0036	-0.0847
Jun-62	MKT Minus Aaa and Aa Avg			(0.0803)		0.0036	-0.0839
Jul-62	MKT Minus Aaa and Aa Avg			0.0652		0.0037	0.0615
Aug-62	MKT Minus Aaa and Aa Avg			0.0208		0.0037	0.0171
Sep-62	MKT Minus Aaa and Aa Avg			(0.0465)		0.0037	-0.0502
Oct-62	MKT Minus Aaa and Aa Avg			0.0064		0.0036	0.0028
Nov-62	MKT Minus Aaa and Aa Avg			0.1086		0.0036	0.1050
Dec-62	MKT Minus Aaa and Aa Avg			0.0153		0.0036	0.0117
Jan-63	MKT Minus Aaa and Aa Avg			0.0506		0.0036	0.0470
Feb-63	MKT Minus Aaa and Aa Avg			(0.0239)		0.0036	-0.0275
Mar-63	MKT Minus Aaa and Aa Avg			0.0370		0.0036	0.0334
Apr-63	MKT Minus Aaa and Aa Avg			0.0500		0.0036	0.0464
May-63	MKT Minus Aaa and Aa Avg			0.0193		0.0036	0.0157
Jun-63	MKT Minus Aaa and Aa Avg			(0.0188)		0.0036	-0.0224
Jul-63	MKT Minus Aaa and Aa Avg			(0.0022)		0.0036	-0.0058
Aug-63	MKT Minus Aaa and Aa Avg			0.0535		0.0036	0.0499
Sep-63	MKT Minus Aaa and Aa Avg			(0.0097)		0.0036	-0.0133
Oct-63	MKT Minus Aaa and Aa Avg			0.0339		0.0036	0.0303
Nov-63	MKT Minus Aaa and Aa Avg			(0.0046)		0.0037	-0.0083
Dec-63	MKT Minus Aaa and Aa Avg			0.0262		0.0037	0.0225
Jan-64	MKT Minus Aaa and Aa Avg			0.0283		0.0037	0.0246
Feb-64	MKT Minus Aaa and Aa Avg			0.0147		0.0037	0.0110
Mar-64	MKT Minus Aaa and Aa Avg			0.0165		0.0037	0.0128
Apr-64	MKT Minus Aaa and Aa Avg			0.0075		0.0037	0.0038
May-64	MKT Minus Aaa and Aa Avg			0.0162		0.0037	0.0125
Jun-64	MKT Minus Aaa and Aa Avg			0.0178		0.0037	0.0141

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A RP	
Jul-64	MKT Minus Aaa and Aa Avg			0.0195		0.0037	0.0158
Aug-64	MKT Minus Aaa and Aa Avg			(0.0118)		0.0037	-0.0155
Sep-64	MKT Minus Aaa and Aa Avg			0.0301		0.0037	0.0264
Oct-64	MKT Minus Aaa and Aa Avg			0.0096		0.0037	0.0059
Nov-64	MKT Minus Aaa and Aa Avg			0.0005		0.0037	-0.0032
Dec-64	MKT Minus Aaa and Aa Avg			0.0056		0.0037	0.0019
Jan-65	MKT Minus Aaa and Aa Avg			0.0345		0.0037	0.0308
Feb-65	MKT Minus Aaa and Aa Avg			0.0031		0.0037	-0.0006
Mar-65	MKT Minus Aaa and Aa Avg			(0.0133)		0.0037	-0.0170
Apr-65	MKT Minus Aaa and Aa Avg			0.0356		0.0037	0.0319
May-65	MKT Minus Aaa and Aa Avg			(0.0030)		0.0037	-0.0067
Jun-65	MKT Minus Aaa and Aa Avg			(0.0473)		0.0037	-0.0510
Jul-65	MKT Minus Aaa and Aa Avg			0.0147		0.0038	0.0109
Aug-65	MKT Minus Aaa and Aa Avg			0.0272		0.0038	0.0234
Sep-65	MKT Minus Aaa and Aa Avg			0.0334		0.0038	0.0296
Oct-65	MKT Minus Aaa and Aa Avg			0.0289		0.0038	0.0251
Nov-65	MKT Minus Aaa and Aa Avg			(0.0031)		0.0039	-0.0070
Dec-65	MKT Minus Aaa and Aa Avg			0.0106		0.0040	0.0067
Jan-66	MKT Minus Aaa and Aa Avg			0.0062		0.0040	0.0022
Feb-66	MKT Minus Aaa and Aa Avg			(0.0131)		0.0040	-0.0171
Mar-66	MKT Minus Aaa and Aa Avg			(0.0205)		0.0042	-0.0247
Apr-66	MKT Minus Aaa and Aa Avg			0.0220		0.0042	0.0178
May-66	MKT Minus Aaa and Aa Avg			(0.0492)		0.0042	-0.0534
Jun-66	MKT Minus Aaa and Aa Avg			(0.0146)		0.0043	-0.0189
Jul-66	MKT Minus Aaa and Aa Avg			(0.0120)		0.0043	-0.0163
Aug-66	MKT Minus Aaa and Aa Avg			(0.0725)		0.0045	-0.0770
Sep-66	MKT Minus Aaa and Aa Avg			(0.0053)		0.0046	-0.0099
Oct-66	MKT Minus Aaa and Aa Avg			0.0494		0.0045	0.0449
Nov-66	MKT Minus Aaa and Aa Avg			0.0095		0.0045	0.0050
Dec-66	MKT Minus Aaa and Aa Avg			0.0002		0.0045	-0.0043
Jan-67	MKT Minus Aaa and Aa Avg			0.0798		0.0044	0.0754
Feb-67	MKT Minus Aaa and Aa Avg			0.0072		0.0043	0.0029
Mar-67	MKT Minus Aaa and Aa Avg			0.0409		0.0043	0.0366

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Apr-67	MKT Minus Aaa and Aa Avg			0.0437		0.0043	0.0394
May-67	MKT Minus Aaa and Aa Avg			(0.0477)		0.0044	-0.0521
Jun-67	MKT Minus Aaa and Aa Avg			0.0190		0.0046	0.0144
Jul-67	MKT Minus Aaa and Aa Avg			0.0468		0.0047	0.0421
Aug-67	MKT Minus Aaa and Aa Avg			(0.0070)		0.0047	-0.0117
Sep-67	MKT Minus Aaa and Aa Avg			0.0342		0.0048	0.0294
Oct-67	MKT Minus Aaa and Aa Avg			(0.0276)		0.0049	-0.0325
Nov-67	MKT Minus Aaa and Aa Avg			0.0065		0.0051	0.0014
Dec-67	MKT Minus Aaa and Aa Avg			0.0278		0.0052	0.0226
Jan-68	MKT Minus Aaa and Aa Avg			(0.0425)		0.0052	-0.0477
Feb-68	MKT Minus Aaa and Aa Avg			(0.0261)		0.0052	-0.0313
Mar-68	MKT Minus Aaa and Aa Avg			0.0110		0.0052	0.0058
Apr-68	MKT Minus Aaa and Aa Avg			0.0834		0.0052	0.0782
May-68	MKT Minus Aaa and Aa Avg			0.0161		0.0053	0.0108
Jun-68	MKT Minus Aaa and Aa Avg			0.0105		0.0053	0.0052
Jul-68	MKT Minus Aaa and Aa Avg			(0.0172)		0.0053	-0.0225
Aug-68	MKT Minus Aaa and Aa Avg			0.0164		0.0051	0.0113
Sep-68	MKT Minus Aaa and Aa Avg			0.0400		0.0051	0.0349
Oct-68	MKT Minus Aaa and Aa Avg			0.0087		0.0052	0.0035
Nov-68	MKT Minus Aaa and Aa Avg			0.0531		0.0053	0.0478
Dec-68	MKT Minus Aaa and Aa Avg			(0.0402)		0.0055	-0.0457
Jan-69	MKT Minus Aaa and Aa Avg			(0.0068)		0.0056	-0.0124
Feb-69	MKT Minus Aaa and Aa Avg			(0.0426)		0.0056	-0.0482
Mar-69	MKT Minus Aaa and Aa Avg			0.0359		0.0058	0.0302
Apr-69	MKT Minus Aaa and Aa Avg			0.0229		0.0058	0.0171
May-69	MKT Minus Aaa and Aa Avg			0.0026		0.0057	-0.0031
Jun-69	MKT Minus Aaa and Aa Avg			(0.0542)		0.0059	-0.0601
Jul-69	MKT Minus Aaa and Aa Avg			(0.0587)		0.0060	-0.0647
Aug-69	MKT Minus Aaa and Aa Avg			0.0454		0.0059	0.0395
Sep-69	MKT Minus Aaa and Aa Avg			(0.0236)		0.0060	-0.0296
Oct-69	MKT Minus Aaa and Aa Avg			0.0459		0.0062	0.0397
Nov-69	MKT Minus Aaa and Aa Avg			(0.0297)		0.0062	-0.0359
Dec-69	MKT Minus Aaa and Aa Avg			(0.0177)		0.0065	-0.0242

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A RP	
Jan-70	MKT Minus Aaa and Aa Avg			(0.0743)		0.0067	-0.0810
Feb-70	MKT Minus Aaa and Aa Avg			0.0586		0.0067	0.0519
Mar-70	MKT Minus Aaa and Aa Avg			0.0030		0.0066	-0.0036
Apr-70	MKT Minus Aaa and Aa Avg			(0.0889)		0.0066	-0.0955
May-70	MKT Minus Aaa and Aa Avg			(0.0547)		0.0068	-0.0615
Jun-70	MKT Minus Aaa and Aa Avg			(0.0482)		0.0071	-0.0553
Jul-70	MKT Minus Aaa and Aa Avg			0.0752		0.0071	0.0681
Aug-70	MKT Minus Aaa and Aa Avg			0.0509		0.0069	0.0440
Sep-70	MKT Minus Aaa and Aa Avg			0.0347		0.0069	0.0278
Oct-70	MKT Minus Aaa and Aa Avg			(0.0097)		0.0069	-0.0166
Nov-70	MKT Minus Aaa and Aa Avg			0.0536		0.0069	0.0467
Dec-70	MKT Minus Aaa and Aa Avg			0.0584		0.0066	0.0518
Jan-71	MKT Minus Aaa and Aa Avg			0.0419		0.0064	0.0355
Feb-71	MKT Minus Aaa and Aa Avg			0.0141		0.0061	0.0080
Mar-71	MKT Minus Aaa and Aa Avg			0.0382		0.0062	0.0320
Apr-71	MKT Minus Aaa and Aa Avg			0.0377		0.0062	0.0315
May-71	MKT Minus Aaa and Aa Avg			(0.0367)		0.0064	-0.0431
Jun-71	MKT Minus Aaa and Aa Avg			0.0021		0.0065	-0.0044
Jul-71	MKT Minus Aaa and Aa Avg			(0.0399)		0.0065	-0.0464
Aug-71	MKT Minus Aaa and Aa Avg			0.0412		0.0065	0.0347
Sep-71	MKT Minus Aaa and Aa Avg			(0.0056)		0.0064	-0.0120
Oct-71	MKT Minus Aaa and Aa Avg			(0.0404)		0.0063	-0.0467
Nov-71	MKT Minus Aaa and Aa Avg			0.0027		0.0062	-0.0035
Dec-71	MKT Minus Aaa and Aa Avg			0.0877		0.0062	0.0815
Jan-72	MKT Minus Aaa and Aa Avg			0.0194		0.0061	0.0133
Feb-72	MKT Minus Aaa and Aa Avg			0.0299		0.0062	0.0237
Mar-72	MKT Minus Aaa and Aa Avg			0.0072		0.0062	0.0010
Apr-72	MKT Minus Aaa and Aa Avg			0.0057		0.0062	-0.0005
May-72	MKT Minus Aaa and Aa Avg			0.0219		0.0062	0.0157
Jun-72	MKT Minus Aaa and Aa Avg			(0.0205)		0.0061	-0.0266
Jul-72	MKT Minus Aaa and Aa Avg			0.0036		0.0061	-0.0025
Aug-72	MKT Minus Aaa and Aa Avg			0.0391		0.0061	0.0330
Sep-72	MKT Minus Aaa and Aa Avg			(0.0036)		0.0061	-0.0097

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Oct-72	MKT Minus Aaa and Aa Avg			0.0107		0.0061	0.0046
Nov-72	MKT Minus Aaa and Aa Avg			0.0505		0.0060	0.0445
Dec-72	MKT Minus Aaa and Aa Avg			0.0131		0.0060	0.0071
Jan-73	MKT Minus Aaa and Aa Avg			(0.0159)		0.0061	-0.0220
Feb-73	MKT Minus Aaa and Aa Avg			(0.0333)		0.0061	-0.0394
Mar-73	MKT Minus Aaa and Aa Avg			(0.0002)		0.0062	-0.0064
Apr-73	MKT Minus Aaa and Aa Avg			(0.0395)		0.0061	-0.0456
May-73	MKT Minus Aaa and Aa Avg			(0.0139)		0.0062	-0.0201
Jun-73	MKT Minus Aaa and Aa Avg			(0.0051)		0.0062	-0.0113
Jul-73	MKT Minus Aaa and Aa Avg			0.0394		0.0063	0.0331
Aug-73	MKT Minus Aaa and Aa Avg			(0.0318)		0.0065	-0.0383
Sep-73	MKT Minus Aaa and Aa Avg			0.0415		0.0065	0.0350
Oct-73	MKT Minus Aaa and Aa Avg			0.0003		0.0064	-0.0061
Nov-73	MKT Minus Aaa and Aa Avg			(0.1082)		0.0065	-0.1147
Dec-73	MKT Minus Aaa and Aa Avg			0.0183		0.0065	0.0118
Jan-74	MKT Minus Aaa and Aa Avg			(0.0085)		0.0066	-0.0151
Feb-74	MKT Minus Aaa and Aa Avg			0.0019		0.0066	-0.0047
Mar-74	MKT Minus Aaa and Aa Avg			(0.0217)		0.0067	-0.0284
Apr-74	MKT Minus Aaa and Aa Avg			(0.0373)		0.0070	-0.0443
May-74	MKT Minus Aaa and Aa Avg			(0.0272)		0.0071	-0.0343
Jun-74	MKT Minus Aaa and Aa Avg			(0.0128)		0.0072	-0.0200
Jul-74	MKT Minus Aaa and Aa Avg			(0.0759)		0.0074	-0.0833
Aug-74	MKT Minus Aaa and Aa Avg			(0.0828)		0.0076	-0.0904
Sep-74	MKT Minus Aaa and Aa Avg			(0.1170)		0.0079	-0.1249
Oct-74	MKT Minus Aaa and Aa Avg			0.1657		0.0079	0.1578
Nov-74	MKT Minus Aaa and Aa Avg			(0.0448)		0.0076	-0.0524
Dec-74	MKT Minus Aaa and Aa Avg			(0.0177)		0.0075	-0.0252
Jan-75	MKT Minus Aaa and Aa Avg			0.1251		0.0075	0.1176
Feb-75	MKT Minus Aaa and Aa Avg			0.0674		0.0073	0.0601
Mar-75	MKT Minus Aaa and Aa Avg			0.0237		0.0073	0.0164
Apr-75	MKT Minus Aaa and Aa Avg			0.0493		0.0076	0.0417
May-75	MKT Minus Aaa and Aa Avg			0.0509		0.0076	0.0433
Jun-75	MKT Minus Aaa and Aa Avg			0.0462		0.0075	0.0387

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A RP	
Jul-75	MKT Minus Aaa and Aa Avg			(0.0659)		0.0075	-0.0734
Aug-75	MKT Minus Aaa and Aa Avg			(0.0144)		0.0076	-0.0220
Sep-75	MKT Minus Aaa and Aa Avg			(0.0328)		0.0076	-0.0404
Oct-75	MKT Minus Aaa and Aa Avg			0.0637		0.0076	0.0561
Nov-75	MKT Minus Aaa and Aa Avg			0.0313		0.0075	0.0238
Dec-75	MKT Minus Aaa and Aa Avg			(0.0096)		0.0075	-0.0171
Jan-76	MKT Minus Aaa and Aa Avg			0.1199		0.0074	0.1125
Feb-76	MKT Minus Aaa and Aa Avg			(0.0058)		0.0073	-0.0131
Mar-76	MKT Minus Aaa and Aa Avg			0.0326		0.0073	0.0253
Apr-76	MKT Minus Aaa and Aa Avg			(0.0099)		0.0072	-0.0171
May-76	MKT Minus Aaa and Aa Avg			(0.0073)		0.0073	-0.0146
Jun-76	MKT Minus Aaa and Aa Avg			0.0427		0.0073	0.0354
Jul-76	MKT Minus Aaa and Aa Avg			(0.0068)		0.0072	-0.0140
Aug-76	MKT Minus Aaa and Aa Avg			0.0014		0.0071	-0.0057
Sep-76	MKT Minus Aaa and Aa Avg			0.0247		0.0071	0.0177
Oct-76	MKT Minus Aaa and Aa Avg			(0.0206)		0.0070	-0.0276
Nov-76	MKT Minus Aaa and Aa Avg			(0.0009)		0.0070	-0.0079
Dec-76	MKT Minus Aaa and Aa Avg			0.0540		0.0068	0.0472
Jan-77	MKT Minus Aaa and Aa Avg			(0.0489)		0.0067	-0.0556
Feb-77	MKT Minus Aaa and Aa Avg			(0.0151)		0.0068	-0.0219
Mar-77	MKT Minus Aaa and Aa Avg			(0.0119)		0.0068	-0.0187
Apr-77	MKT Minus Aaa and Aa Avg			0.0014		0.0068	-0.0054
May-77	MKT Minus Aaa and Aa Avg			(0.0150)		0.0068	-0.0218
Jun-77	MKT Minus Aaa and Aa Avg			0.0475		0.0067	0.0408
Jul-77	MKT Minus Aaa and Aa Avg			(0.0151)		0.0067	-0.0218
Aug-77	MKT Minus Aaa and Aa Avg			(0.0133)		0.0067	-0.0200
Sep-77	MKT Minus Aaa and Aa Avg			-		0.0067	-0.0067
Oct-77	MKT Minus Aaa and Aa Avg			(0.0415)		0.0068	-0.0483
Nov-77	MKT Minus Aaa and Aa Avg			0.0370		0.0068	0.0302
Dec-77	MKT Minus Aaa and Aa Avg			0.0048		0.0069	-0.0021
Jan-78	MKT Minus Aaa and Aa Avg			(0.0596)		0.0071	-0.0667
Feb-78	MKT Minus Aaa and Aa Avg			(0.0161)		0.0071	-0.0232
Mar-78	MKT Minus Aaa and Aa Avg			0.0276		0.0071	0.0205

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A RP	
Apr-78	MKT Minus Aaa and Aa Avg			0.0870		0.0072	0.0798
May-78	MKT Minus Aaa and Aa Avg			0.0136		0.0073	0.0063
Jun-78	MKT Minus Aaa and Aa Avg			(0.0152)		0.0074	-0.0226
Jul-78	MKT Minus Aaa and Aa Avg			0.0560		0.0075	0.0485
Aug-78	MKT Minus Aaa and Aa Avg			0.0340		0.0074	0.0266
Sep-78	MKT Minus Aaa and Aa Avg			(0.0048)		0.0073	-0.0121
Oct-78	MKT Minus Aaa and Aa Avg			(0.0891)		0.0075	-0.0966
Nov-78	MKT Minus Aaa and Aa Avg			0.0260		0.0076	0.0184
Dec-78	MKT Minus Aaa and Aa Avg			0.0172		0.0077	0.0095
Jan-79	MKT Minus Aaa and Aa Avg			0.0421		0.0078	0.0343
Feb-79	MKT Minus Aaa and Aa Avg			(0.0284)		0.0078	-0.0362
Mar-79	MKT Minus Aaa and Aa Avg			0.0575		0.0079	0.0496
Apr-79	MKT Minus Aaa and Aa Avg			0.0036		0.0079	-0.0043
May-79	MKT Minus Aaa and Aa Avg			(0.0168)		0.0081	-0.0249
Jun-79	MKT Minus Aaa and Aa Avg			0.0410		0.0079	0.0331
Jul-79	MKT Minus Aaa and Aa Avg			0.0110		0.0078	0.0032
Aug-79	MKT Minus Aaa and Aa Avg			0.0611		0.0078	0.0533
Sep-79	MKT Minus Aaa and Aa Avg			0.0025		0.0080	-0.0055
Oct-79	MKT Minus Aaa and Aa Avg			(0.0656)		0.0086	-0.0742
Nov-79	MKT Minus Aaa and Aa Avg			0.0514		0.0092	0.0422
Dec-79	MKT Minus Aaa and Aa Avg			0.0192		0.0091	0.0101
Jan-80	MKT Minus Aaa and Aa Avg			0.0610		0.0094	0.0516
Feb-80	MKT Minus Aaa and Aa Avg			0.0031		0.0105	-0.0074
Mar-80	MKT Minus Aaa and Aa Avg			(0.0987)		0.0110	-0.1097
Apr-80	MKT Minus Aaa and Aa Avg			0.0429		0.0105	0.0324
May-80	MKT Minus Aaa and Aa Avg			0.0562		0.0095	0.0467
Jun-80	MKT Minus Aaa and Aa Avg			0.0296		0.0092	0.0204
Jul-80	MKT Minus Aaa and Aa Avg			0.0676		0.0094	0.0582
Aug-80	MKT Minus Aaa and Aa Avg			0.0131		0.0099	0.0032
Sep-80	MKT Minus Aaa and Aa Avg			0.0281		0.0102	0.0179
Oct-80	MKT Minus Aaa and Aa Avg			0.0187		0.0104	0.0083
Nov-80	MKT Minus Aaa and Aa Avg			0.1095		0.0110	0.0985
Dec-80	MKT Minus Aaa and Aa Avg			(0.0315)		0.0112	-0.0427

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A RP	
Jan-81	MKT Minus Aaa and Aa Avg			(0.0438)		0.0110	-0.0548
Feb-81	MKT Minus Aaa and Aa Avg			0.0208		0.0114	0.0095
Mar-81	MKT Minus Aaa and Aa Avg			0.0380		0.0113	0.0267
Apr-81	MKT Minus Aaa and Aa Avg			(0.0213)		0.0118	-0.0331
May-81	MKT Minus Aaa and Aa Avg			0.0062		0.0122	-0.0060
Jun-81	MKT Minus Aaa and Aa Avg			(0.0080)		0.0117	-0.0197
Jul-81	MKT Minus Aaa and Aa Avg			0.0007		0.0122	-0.0115
Aug-81	MKT Minus Aaa and Aa Avg			(0.0554)		0.0126	-0.0680
Sep-81	MKT Minus Aaa and Aa Avg			(0.0502)		0.0131	-0.0633
Oct-81	MKT Minus Aaa and Aa Avg			0.0528		0.0130	0.0398
Nov-81	MKT Minus Aaa and Aa Avg			0.0441		0.0122	0.0319
Dec-81	MKT Minus Aaa and Aa Avg			(0.0265)		0.0122	-0.0387
Jan-82	MKT Minus Aaa and Aa Avg			(0.0163)		0.0129	-0.0292
Feb-82	MKT Minus Aaa and Aa Avg			(0.0512)		0.0129	-0.0641
Mar-82	MKT Minus Aaa and Aa Avg			(0.0060)		0.0124	-0.0184
Apr-82	MKT Minus Aaa and Aa Avg			0.0414		0.0122	0.0292
May-82	MKT Minus Aaa and Aa Avg			(0.0288)		0.0121	-0.0409
Jun-82	MKT Minus Aaa and Aa Avg			(0.0174)		0.0125	-0.0299
Jul-82	MKT Minus Aaa and Aa Avg			(0.0215)		0.0124	-0.0339
Aug-82	MKT Minus Aaa and Aa Avg			0.1267		0.0117	0.1150
Sep-82	MKT Minus Aaa and Aa Avg			0.0110		0.0111	-0.0001
Oct-82	MKT Minus Aaa and Aa Avg			0.1126		0.0105	0.1021
Nov-82	MKT Minus Aaa and Aa Avg			0.0438		0.0101	0.0337
Dec-82	MKT Minus Aaa and Aa Avg			0.0173		0.0101	0.0072
Jan-83	MKT Minus Aaa and Aa Avg			0.0348		0.0101	0.0247
Feb-83	MKT Minus Aaa and Aa Avg			0.0260		0.0102	0.0158
Mar-83	MKT Minus Aaa and Aa Avg			0.0365		0.0100	0.0265
Apr-83	MKT Minus Aaa and Aa Avg			0.0758		0.0098	0.0660
May-83	MKT Minus Aaa and Aa Avg			(0.0052)		0.0098	-0.0150
Jun-83	MKT Minus Aaa and Aa Avg			0.0382		0.0100	0.0282
Jul-83	MKT Minus Aaa and Aa Avg			(0.0313)		0.0102	-0.0415
Aug-83	MKT Minus Aaa and Aa Avg			0.0170		0.0105	0.0065
Sep-83	MKT Minus Aaa and Aa Avg			0.0136		0.0104	0.0032

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Oct-83	MKT Minus Aaa and Aa Avg			(0.0134)		0.0103	-0.0237
Nov-83	MKT Minus Aaa and Aa Avg			0.0233		0.0104	0.0129
Dec-83	MKT Minus Aaa and Aa Avg			(0.0061)		0.0106	-0.0167
Jan-84	MKT Minus Aaa and Aa Avg			(0.0065)		0.0104	-0.0169
Feb-84	MKT Minus Aaa and Aa Avg			(0.0328)		0.0103	-0.0431
Mar-84	MKT Minus Aaa and Aa Avg			0.0171		0.0107	0.0064
Apr-84	MKT Minus Aaa and Aa Avg			0.0069		0.0110	-0.0041
May-84	MKT Minus Aaa and Aa Avg			(0.0534)		0.0114	-0.0648
Jun-84	MKT Minus Aaa and Aa Avg			0.0221		0.0116	0.0105
Jul-84	MKT Minus Aaa and Aa Avg			(0.0143)		0.0115	-0.0258
Aug-84	MKT Minus Aaa and Aa Avg			0.1125		0.0110	0.1015
Sep-84	MKT Minus Aaa and Aa Avg			0.0002		0.0108	-0.0106
Oct-84	MKT Minus Aaa and Aa Avg			0.0026		0.0107	-0.0081
Nov-84	MKT Minus Aaa and Aa Avg			(0.0101)		0.0104	-0.0205
Dec-84	MKT Minus Aaa and Aa Avg			0.0253		0.0103	0.0150
Jan-85	MKT Minus Aaa and Aa Avg			0.0768		0.0102	0.0666
Feb-85	MKT Minus Aaa and Aa Avg			0.0137		0.0103	0.0034
Mar-85	MKT Minus Aaa and Aa Avg			0.0018		0.0106	-0.0088
Apr-85	MKT Minus Aaa and Aa Avg			(0.0032)		0.0104	-0.0136
May-85	MKT Minus Aaa and Aa Avg			0.0615		0.0100	0.0515
Jun-85	MKT Minus Aaa and Aa Avg			0.0159		0.0093	0.0066
Jul-85	MKT Minus Aaa and Aa Avg			(0.0026)		0.0093	-0.0119
Aug-85	MKT Minus Aaa and Aa Avg			(0.0061)		0.0094	-0.0155
Sep-85	MKT Minus Aaa and Aa Avg			(0.0321)		0.0094	-0.0415
Oct-85	MKT Minus Aaa and Aa Avg			0.0447		0.0094	0.0353
Nov-85	MKT Minus Aaa and Aa Avg			0.0716		0.0090	0.0626
Dec-85	MKT Minus Aaa and Aa Avg			0.0467		0.0087	0.0380
Jan-86	MKT Minus Aaa and Aa Avg			0.0044		0.0085	-0.0041
Feb-86	MKT Minus Aaa and Aa Avg			0.0761		0.0083	0.0679
Mar-86	MKT Minus Aaa and Aa Avg			0.0554		0.0077	0.0477
Apr-86	MKT Minus Aaa and Aa Avg			(0.0124)		0.0075	-0.0199
May-86	MKT Minus Aaa and Aa Avg			0.0549		0.0077	0.0472
Jun-86	MKT Minus Aaa and Aa Avg			0.0166		0.0078	0.0088

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Jul-86	MKT Minus Aaa and Aa Avg			(0.0569)		0.0076	-0.0645
Aug-86	MKT Minus Aaa and Aa Avg			0.0748		0.0075	0.0673
Sep-86	MKT Minus Aaa and Aa Avg			(0.0822)		0.0076	-0.0898
Oct-86	MKT Minus Aaa and Aa Avg			0.0556		0.0076	0.0480
Nov-86	MKT Minus Aaa and Aa Avg			0.0256		0.0075	0.0182
Dec-86	MKT Minus Aaa and Aa Avg			(0.0264)		0.0073	-0.0337
Jan-87	MKT Minus Aaa and Aa Avg			0.1343		0.0072	0.1271
Feb-87	MKT Minus Aaa and Aa Avg			0.0413		0.0072	0.0341
Mar-87	MKT Minus Aaa and Aa Avg			0.0272		0.0072	0.0200
Apr-87	MKT Minus Aaa and Aa Avg			(0.0088)		0.0075	-0.0163
May-87	MKT Minus Aaa and Aa Avg			0.0103		0.0079	0.0024
Jun-87	MKT Minus Aaa and Aa Avg			0.0499		0.0079	0.0420
Jul-87	MKT Minus Aaa and Aa Avg			0.0498		0.0079	0.0419
Aug-87	MKT Minus Aaa and Aa Avg			0.0385		0.0081	0.0304
Sep-87	MKT Minus Aaa and Aa Avg			(0.0220)		0.0086	-0.0306
Oct-87	MKT Minus Aaa and Aa Avg			(0.2152)		0.0089	-0.2241
Nov-87	MKT Minus Aaa and Aa Avg			(0.0819)		0.0085	-0.0904
Dec-87	MKT Minus Aaa and Aa Avg			0.0738		0.0085	0.0653
Jan-88	MKT Minus Aaa and Aa Avg			0.0427		0.0083	0.0344
Feb-88	MKT Minus Aaa and Aa Avg			0.0470		0.0079	0.0391
Mar-88	MKT Minus Aaa and Aa Avg			(0.0302)		0.0079	-0.0381
Apr-88	MKT Minus Aaa and Aa Avg			0.0108		0.0081	0.0027
May-88	MKT Minus Aaa and Aa Avg			0.0078		0.0083	-0.0005
Jun-88	MKT Minus Aaa and Aa Avg			0.0464		0.0083	0.0381
Jul-88	MKT Minus Aaa and Aa Avg			(0.0040)		0.0084	-0.0124
Aug-88	MKT Minus Aaa and Aa Avg			(0.0331)		0.0085	-0.0416
Sep-88	MKT Minus Aaa and Aa Avg			0.0424		0.0083	0.0341
Oct-88	MKT Minus Aaa and Aa Avg			0.0273		0.0080	0.0193
Nov-88	MKT Minus Aaa and Aa Avg			(0.0142)		0.0080	-0.0222
Dec-88	MKT Minus Aaa and Aa Avg			0.0181		0.0081	0.0100
Jan-89	MKT Minus Aaa and Aa Avg			0.0723		0.0081	0.0642
Feb-89	MKT Minus Aaa and Aa Avg			(0.0249)		0.0081	-0.0330
Mar-89	MKT Minus Aaa and Aa Avg			0.0236		0.0082	0.0154

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Apr-89	MKT Minus Aaa and Aa Avg			0.0516		0.0082	0.0434
May-89	MKT Minus Aaa and Aa Avg			0.0402		0.0081	0.0322
Jun-89	MKT Minus Aaa and Aa Avg			(0.0054)		0.0077	-0.0131
Jul-89	MKT Minus Aaa and Aa Avg			0.0898		0.0075	0.0823
Aug-89	MKT Minus Aaa and Aa Avg			0.0193		0.0075	0.0118
Sep-89	MKT Minus Aaa and Aa Avg			(0.0039)		0.0076	-0.0115
Oct-89	MKT Minus Aaa and Aa Avg			(0.0233)		0.0075	-0.0308
Nov-89	MKT Minus Aaa and Aa Avg			0.0208		0.0075	0.0133
Dec-89	MKT Minus Aaa and Aa Avg			0.0236		0.0075	0.0161
Jan-90	MKT Minus Aaa and Aa Avg			(0.0671)		0.0076	-0.0747
Feb-90	MKT Minus Aaa and Aa Avg			0.0129		0.0078	0.0051
Mar-90	MKT Minus Aaa and Aa Avg			0.0263		0.0079	0.0184
Apr-90	MKT Minus Aaa and Aa Avg			(0.0247)		0.0080	-0.0327
May-90	MKT Minus Aaa and Aa Avg			0.0975		0.0080	0.0895
Jun-90	MKT Minus Aaa and Aa Avg			(0.0070)		0.0078	-0.0148
Jul-90	MKT Minus Aaa and Aa Avg			(0.0032)		0.0078	-0.0110
Aug-90	MKT Minus Aaa and Aa Avg			(0.0903)		0.0079	-0.0982
Sep-90	MKT Minus Aaa and Aa Avg			(0.0492)		0.0081	-0.0573
Oct-90	MKT Minus Aaa and Aa Avg			(0.0037)		0.0080	-0.0117
Nov-90	MKT Minus Aaa and Aa Avg			0.0644		0.0079	0.0565
Dec-90	MKT Minus Aaa and Aa Avg			0.0274		0.0077	0.0197
Jan-91	MKT Minus Aaa and Aa Avg			0.0442		0.0077	0.0365
Feb-91	MKT Minus Aaa and Aa Avg			0.0716		0.0075	0.0641
Mar-91	MKT Minus Aaa and Aa Avg			0.0238		0.0076	0.0162
Apr-91	MKT Minus Aaa and Aa Avg			0.0028		0.0075	-0.0047
May-91	MKT Minus Aaa and Aa Avg			0.0428		0.0075	0.0353
Jun-91	MKT Minus Aaa and Aa Avg			(0.0457)		0.0076	-0.0533
Jul-91	MKT Minus Aaa and Aa Avg			0.0468		0.0076	0.0392
Aug-91	MKT Minus Aaa and Aa Avg			0.0235		0.0074	0.0161
Sep-91	MKT Minus Aaa and Aa Avg			(0.0164)		0.0073	-0.0237
Oct-91	MKT Minus Aaa and Aa Avg			0.0134		0.0072	0.0062
Nov-91	MKT Minus Aaa and Aa Avg			(0.0404)		0.0072	-0.0476
Dec-91	MKT Minus Aaa and Aa Avg			0.1143		0.0071	0.1073

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Jan-92	MKT Minus Aaa and Aa Avg			(0.0186)		0.0070	-0.0256
Feb-92	MKT Minus Aaa and Aa Avg			0.0128		0.0071	0.0057
Mar-92	MKT Minus Aaa and Aa Avg			(0.0196)		0.0071	-0.0267
Apr-92	MKT Minus Aaa and Aa Avg			0.0291		0.0071	0.0220
May-92	MKT Minus Aaa and Aa Avg			0.0054		0.0070	-0.0016
Jun-92	MKT Minus Aaa and Aa Avg			(0.0145)		0.0070	-0.0215
Jul-92	MKT Minus Aaa and Aa Avg			0.0403		0.0069	0.0335
Aug-92	MKT Minus Aaa and Aa Avg			(0.0202)		0.0067	-0.0269
Sep-92	MKT Minus Aaa and Aa Avg			0.0115		0.0067	0.0048
Oct-92	MKT Minus Aaa and Aa Avg			0.0036		0.0068	-0.0032
Nov-92	MKT Minus Aaa and Aa Avg			0.0337		0.0069	0.0268
Dec-92	MKT Minus Aaa and Aa Avg			0.0131		0.0068	0.0063
Jan-93	MKT Minus Aaa and Aa Avg			0.0073		0.0067	0.0006
Feb-93	MKT Minus Aaa and Aa Avg			0.0135		0.0065	0.0070
Mar-93	MKT Minus Aaa and Aa Avg			0.0215		0.0064	0.0151
Apr-93	MKT Minus Aaa and Aa Avg			(0.0245)		0.0063	-0.0308
May-93	MKT Minus Aaa and Aa Avg			0.0270		0.0063	0.0207
Jun-93	MKT Minus Aaa and Aa Avg			0.0033		0.0062	-0.0029
Jul-93	MKT Minus Aaa and Aa Avg			(0.0047)		0.0061	-0.0108
Aug-93	MKT Minus Aaa and Aa Avg			0.0381		0.0058	0.0323
Sep-93	MKT Minus Aaa and Aa Avg			(0.0074)		0.0056	-0.0130
Oct-93	MKT Minus Aaa and Aa Avg			0.0203		0.0056	0.0147
Nov-93	MKT Minus Aaa and Aa Avg			(0.0094)		0.0059	-0.0153
Dec-93	MKT Minus Aaa and Aa Avg			0.0123		0.0059	0.0064
Jan-94	MKT Minus Aaa and Aa Avg			0.0335		0.0059	0.0277
Feb-94	MKT Minus Aaa and Aa Avg			(0.0270)		0.0060	-0.0330
Mar-94	MKT Minus Aaa and Aa Avg			(0.0435)		0.0060	-0.0495
Apr-94	MKT Minus Aaa and Aa Avg			0.0130		0.0063	0.0067
May-94	MKT Minus Aaa and Aa Avg			0.0163		0.0067	0.0096
Jun-94	MKT Minus Aaa and Aa Avg			(0.0247)		0.0067	-0.0314
Jul-94	MKT Minus Aaa and Aa Avg			0.0331		0.0068	0.0263
Aug-94	MKT Minus Aaa and Aa Avg			0.0407		0.0068	0.0339
Sep-94	MKT Minus Aaa and Aa Avg			(0.0241)		0.0070	-0.0311

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A RP	
Oct-94	MKT Minus Aaa and Aa Avg			0.0229		0.0072	0.0157
Nov-94	MKT Minus Aaa and Aa Avg			(0.0367)		0.0073	-0.0440
Dec-94	MKT Minus Aaa and Aa Avg			0.0146		0.0071	0.0075
Jan-95	MKT Minus Aaa and Aa Avg			0.0260		0.0071	0.0189
Feb-95	MKT Minus Aaa and Aa Avg			0.0388		0.0069	0.0319
Mar-95	MKT Minus Aaa and Aa Avg			0.0296		0.0068	0.0228
Apr-95	MKT Minus Aaa and Aa Avg			0.0291		0.0067	0.0224
May-95	MKT Minus Aaa and Aa Avg			0.0395		0.0064	0.0331
Jun-95	MKT Minus Aaa and Aa Avg			0.0235		0.0061	0.0174
Jul-95	MKT Minus Aaa and Aa Avg			0.0333		0.0062	0.0271
Aug-95	MKT Minus Aaa and Aa Avg			0.0027		0.0064	-0.0037
Sep-95	MKT Minus Aaa and Aa Avg			0.0419		0.0062	0.0357
Oct-95	MKT Minus Aaa and Aa Avg			(0.0035)		0.0060	-0.0095
Nov-95	MKT Minus Aaa and Aa Avg			0.0440		0.0059	0.0381
Dec-95	MKT Minus Aaa and Aa Avg			0.0185		0.0058	0.0127
Jan-96	MKT Minus Aaa and Aa Avg			0.0344		0.0058	0.0287
Feb-96	MKT Minus Aaa and Aa Avg			0.0096		0.0059	0.0037
Mar-96	MKT Minus Aaa and Aa Avg			0.0096		0.0062	0.0034
Apr-96	MKT Minus Aaa and Aa Avg			0.0147		0.0063	0.0084
May-96	MKT Minus Aaa and Aa Avg			0.0258		0.0064	0.0194
Jun-96	MKT Minus Aaa and Aa Avg			0.0041		0.0065	-0.0024
Jul-96	MKT Minus Aaa and Aa Avg			(0.0445)		0.0064	-0.0509
Aug-96	MKT Minus Aaa and Aa Avg			0.0212		0.0063	0.0149
Sep-96	MKT Minus Aaa and Aa Avg			0.0562		0.0065	0.0498
Oct-96	MKT Minus Aaa and Aa Avg			0.0274		0.0062	0.0212
Nov-96	MKT Minus Aaa and Aa Avg			0.0759		0.0060	0.0699
Dec-96	MKT Minus Aaa and Aa Avg			(0.0196)		0.0061	-0.0257
Jan-97	MKT Minus Aaa and Aa Avg			0.0621		0.0063	0.0558
Feb-97	MKT Minus Aaa and Aa Avg			0.0081		0.0062	0.0019
Mar-97	MKT Minus Aaa and Aa Avg			(0.0416)		0.0064	-0.0480
Apr-97	MKT Minus Aaa and Aa Avg			0.0597		0.0065	0.0532
May-97	MKT Minus Aaa and Aa Avg			0.0614		0.0064	0.0550
Jun-97	MKT Minus Aaa and Aa Avg			0.0446		0.0063	0.0383

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Jul-97	MKT Minus Aaa and Aa Avg			0.0794		0.0060	0.0734
Aug-97	MKT Minus Aaa and Aa Avg			(0.0556)		0.0061	-0.0617
Sep-97	MKT Minus Aaa and Aa Avg			0.0548		0.0060	0.0488
Oct-97	MKT Minus Aaa and Aa Avg			(0.0334)		0.0059	-0.0393
Nov-97	MKT Minus Aaa and Aa Avg			0.0463		0.0058	0.0405
Dec-97	MKT Minus Aaa and Aa Avg			0.0172		0.0057	0.0115
Jan-98	MKT Minus Aaa and Aa Avg			0.0111		0.0056	0.0055
Feb-98	MKT Minus Aaa and Aa Avg			0.0721		0.0056	0.0665
Mar-98	MKT Minus Aaa and Aa Avg			0.0512		0.0057	0.0455
Apr-98	MKT Minus Aaa and Aa Avg			0.0101		0.0057	0.0044
May-98	MKT Minus Aaa and Aa Avg			(0.0172)		0.0057	-0.0229
Jun-98	MKT Minus Aaa and Aa Avg			0.0406		0.0055	0.0351
Jul-98	MKT Minus Aaa and Aa Avg			(0.0106)		0.0056	-0.0162
Aug-98	MKT Minus Aaa and Aa Avg			(0.1446)		0.0055	-0.1501
Sep-98	MKT Minus Aaa and Aa Avg			0.0641		0.0055	0.0587
Oct-98	MKT Minus Aaa and Aa Avg			0.0813		0.0054	0.0759
Nov-98	MKT Minus Aaa and Aa Avg			0.0606		0.0055	0.0551
Dec-98	MKT Minus Aaa and Aa Avg			0.0576		0.0054	0.0522
Jan-99	MKT Minus Aaa and Aa Avg			0.0418		0.0054	0.0364
Feb-99	MKT Minus Aaa and Aa Avg			(0.0311)		0.0055	-0.0366
Mar-99	MKT Minus Aaa and Aa Avg			0.0400		0.0057	0.0343
Apr-99	MKT Minus Aaa and Aa Avg			0.0387		0.0057	0.0330
May-99	MKT Minus Aaa and Aa Avg			(0.0236)		0.0059	-0.0295
Jun-99	MKT Minus Aaa and Aa Avg			0.0555		0.0061	0.0494
Jul-99	MKT Minus Aaa and Aa Avg			(0.0312)		0.0061	-0.0373
Aug-99	MKT Minus Aaa and Aa Avg			(0.0050)		0.0063	-0.0113
Sep-99	MKT Minus Aaa and Aa Avg			(0.0274)		0.0063	-0.0337
Oct-99	MKT Minus Aaa and Aa Avg			0.0633		0.0064	0.0569
Nov-99	MKT Minus Aaa and Aa Avg			0.0203		0.0062	0.0141
Dec-99	MKT Minus Aaa and Aa Avg			0.0589		0.0064	0.0525
Jan-00	MKT Minus Aaa and Aa Avg			(0.0502)		0.0066	-0.0568
Feb-00	MKT Minus Aaa and Aa Avg			(0.0189)		0.0065	-0.0254
Mar-00	MKT Minus Aaa and Aa Avg			0.0978		0.0065	0.0913

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Apr-00	MKT Minus Aaa and Aa Avg			(0.0301)		0.0064	-0.0365
May-00	MKT Minus Aaa and Aa Avg			(0.0205)		0.0068	-0.0273
Jun-00	MKT Minus Aaa and Aa Avg			0.0246		0.0065	0.0181
Jul-00	MKT Minus Aaa and Aa Avg			(0.0156)		0.0064	-0.0220
Aug-00	MKT Minus Aaa and Aa Avg			0.0621		0.0064	0.0557
Sep-00	MKT Minus Aaa and Aa Avg			(0.0528)		0.0064	-0.0592
Oct-00	MKT Minus Aaa and Aa Avg			(0.0042)		0.0064	-0.0106
Nov-00	MKT Minus Aaa and Aa Avg			(0.0788)		0.0063	-0.0851
Dec-00	MKT Minus Aaa and Aa Avg			0.0049		0.0061	-0.0012
Jan-01	MKT Minus Aaa and Aa Avg			0.0355		0.0061	0.0294
Feb-01	MKT Minus Aaa and Aa Avg			(0.0912)		0.0060	-0.0972
Mar-01	MKT Minus Aaa and Aa Avg			(0.0634)		0.0059	-0.0693
Apr-01	MKT Minus Aaa and Aa Avg			0.0777		0.0061	0.0716
May-01	MKT Minus Aaa and Aa Avg			0.0067		0.0062	0.0005
Jun-01	MKT Minus Aaa and Aa Avg			(0.0243)		0.0061	-0.0304
Jul-01	MKT Minus Aaa and Aa Avg			(0.0098)		0.0060	-0.0158
Aug-01	MKT Minus Aaa and Aa Avg			(0.0626)		0.0060	-0.0686
Sep-01	MKT Minus Aaa and Aa Avg			(0.0808)		0.0060	-0.0868
Oct-01	MKT Minus Aaa and Aa Avg			0.0191		0.0059	0.0132
Nov-01	MKT Minus Aaa and Aa Avg			0.0767		0.0058	0.0709
Dec-01	MKT Minus Aaa and Aa Avg			0.0088		0.0058	0.0030
Jan-02	MKT Minus Aaa and Aa Avg			(0.0146)		0.0057	-0.0203
Feb-02	MKT Minus Aaa and Aa Avg			(0.0193)		0.0056	-0.0249
Mar-02	MKT Minus Aaa and Aa Avg			0.0376		0.0058	0.0318
Apr-02	MKT Minus Aaa and Aa Avg			(0.0606)		0.0058	-0.0664
May-02	MKT Minus Aaa and Aa Avg			(0.0074)		0.0058	-0.0132
Jun-02	MKT Minus Aaa and Aa Avg			(0.0712)		0.0057	-0.0769
Jul-02	MKT Minus Aaa and Aa Avg			(0.0780)		0.0056	-0.0836
Aug-02	MKT Minus Aaa and Aa Avg			0.0066		0.0055	0.0011
Sep-02	MKT Minus Aaa and Aa Avg			(0.1087)		0.0053	-0.1140
Oct-02	MKT Minus Aaa and Aa Avg			0.0880		0.0054	0.0826
Nov-02	MKT Minus Aaa and Aa Avg			0.0589		0.0054	0.0535
Dec-02	MKT Minus Aaa and Aa Avg			(0.0588)		0.0054	-0.0642

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A RP	
Jan-03	MKT Minus Aaa and Aa Avg			(0.0262)		0.0053	-0.0315
Feb-03	MKT Minus Aaa and Aa Avg			(0.0150)		0.0051	-0.0201
Mar-03	MKT Minus Aaa and Aa Avg			0.0097		0.0051	0.0046
Apr-03	MKT Minus Aaa and Aa Avg			0.0824		0.0050	0.0774
May-03	MKT Minus Aaa and Aa Avg			0.0527		0.0046	0.0481
Jun-03	MKT Minus Aaa and Aa Avg			0.0128		0.0045	0.0083
Jul-03	MKT Minus Aaa and Aa Avg			0.0176		0.0048	0.0128
Aug-03	MKT Minus Aaa and Aa Avg			0.0195		0.0051	0.0144
Sep-03	MKT Minus Aaa and Aa Avg			(0.0106)		0.0049	-0.0155
Oct-03	MKT Minus Aaa and Aa Avg			0.0566		0.0049	0.0517
Nov-03	MKT Minus Aaa and Aa Avg			0.0088		0.0049	0.0039
Dec-03	MKT Minus Aaa and Aa Avg			0.0524		0.0049	0.0475
Jan-04	MKT Minus Aaa and Aa Avg			0.0184		0.0048	0.0136
Feb-04	MKT Minus Aaa and Aa Avg			0.0139		0.0047	0.0092
Mar-04	MKT Minus Aaa and Aa Avg			(0.0151)		0.0046	-0.0197
Apr-04	MKT Minus Aaa and Aa Avg			(0.0157)		0.0049	-0.0206
May-04	MKT Minus Aaa and Aa Avg			0.0137		0.0052	0.0085
Jun-04	MKT Minus Aaa and Aa Avg			0.0194		0.0051	0.0143
Jul-04	MKT Minus Aaa and Aa Avg			(0.0331)		0.0049	-0.0380
Aug-04	MKT Minus Aaa and Aa Avg			0.0040		0.0048	-0.0008
Sep-04	MKT Minus Aaa and Aa Avg			0.0108		0.0047	0.0061
Oct-04	MKT Minus Aaa and Aa Avg			0.0153		0.0047	0.0107
Nov-04	MKT Minus Aaa and Aa Avg			0.0405		0.0047	0.0358
Dec-04	MKT Minus Aaa and Aa Avg			0.0340		0.0047	0.0294
Jan-05	MKT Minus Aaa and Aa Avg			(0.0244)		0.0046	-0.0290
Feb-05	MKT Minus Aaa and Aa Avg			0.0210		0.0044	0.0166
Mar-05	MKT Minus Aaa and Aa Avg			(0.0177)		0.0046	-0.0223
Apr-05	MKT Minus Aaa and Aa Avg			(0.0190)		0.0045	-0.0235
May-05	MKT Minus Aaa and Aa Avg			0.0318		0.0044	0.0275
Jun-05	MKT Minus Aaa and Aa Avg			0.0014		0.0042	-0.0028
Jul-05	MKT Minus Aaa and Aa Avg			0.0372		0.0043	0.0330
Aug-05	MKT Minus Aaa and Aa Avg			(0.0091)		0.0043	-0.0134
Sep-05	MKT Minus Aaa and Aa Avg			0.0081		0.0043	0.0038

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Oct-05	MKT Minus Aaa and Aa Avg			(0.0167)		0.0045	-0.0212
Nov-05	MKT Minus Aaa and Aa Avg			0.0378		0.0046	0.0332
Dec-05	MKT Minus Aaa and Aa Avg			0.0003		0.0045	-0.0042
Jan-06	MKT Minus Aaa and Aa Avg			0.0265		0.0045	0.0220
Feb-06	MKT Minus Aaa and Aa Avg			0.0027		0.0045	-0.0018
Mar-06	MKT Minus Aaa and Aa Avg			0.0124		0.0047	0.0077
Apr-06	MKT Minus Aaa and Aa Avg			0.0134		0.0049	0.0085
May-06	MKT Minus Aaa and Aa Avg			(0.0288)		0.0050	-0.0338
Jun-06	MKT Minus Aaa and Aa Avg			0.0014		0.0050	-0.0036
Jul-06	MKT Minus Aaa and Aa Avg			0.0062		0.0050	0.0012
Aug-06	MKT Minus Aaa and Aa Avg			0.0238		0.0048	0.0190
Sep-06	MKT Minus Aaa and Aa Avg			0.0258		0.0047	0.0211
Oct-06	MKT Minus Aaa and Aa Avg			0.0326		0.0047	0.0279
Nov-06	MKT Minus Aaa and Aa Avg			0.0190		0.0045	0.0145
Dec-06	MKT Minus Aaa and Aa Avg			0.0140		0.0045	0.0095
Jan-07	MKT Minus Aaa and Aa Avg			0.0151		0.0046	0.0105
Feb-07	MKT Minus Aaa and Aa Avg			(0.0196)		0.0046	-0.0242
Mar-07	MKT Minus Aaa and Aa Avg			0.0112		0.0046	0.0066
Apr-07	MKT Minus Aaa and Aa Avg			0.0443		0.0047	0.0396
May-07	MKT Minus Aaa and Aa Avg			0.0349		0.0047	0.0302
Jun-07	MKT Minus Aaa and Aa Avg			(0.0166)		0.0028	-0.0194
Jul-07	MKT Minus Aaa and Aa Avg			(0.0310)		0.0049	-0.0359
Aug-07	MKT Minus Aaa and Aa Avg			0.0150		0.0049	0.0101
Sep-07	MKT Minus Aaa and Aa Avg			0.0375		0.0049	0.0326
Oct-07	MKT Minus Aaa and Aa Avg			0.0159		0.0048	0.0111
Nov-07	MKT Minus Aaa and Aa Avg			(0.0418)		0.0047	-0.0465
Dec-07	MKT Minus Aaa and Aa Avg			(0.0069)		0.0048	-0.0117
Jan-08	MKT Minus Aaa and Aa Avg			(0.0600)		0.0046	-0.0646
Feb-08	MKT Minus Aaa and Aa Avg			(0.0352)		0.0048	-0.0400
Mar-08	MKT Minus Aaa and Aa Avg			(0.0043)		0.0048	-0.0091
Apr-08	MKT Minus Aaa and Aa Avg			0.0487		0.0048	0.0439
May-08	MKT Minus Aaa and Aa Avg			0.0130		0.0048	0.0082
Jun-08	MKT Minus Aaa and Aa Avg			(0.0843)		0.0049	-0.0892

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A RP	
Jul-08	MKT Minus Aaa and Aa Avg			(0.0084)		0.0049	-0.0133
Aug-08	MKT Minus Aaa and Aa Avg			0.0145		0.0049	0.0096
Sep-08	MKT Minus Aaa and Aa Avg			(0.0891)		0.0049	-0.0940
Oct-08	MKT Minus Aaa and Aa Avg			(0.1679)		0.0054	-0.1733
Nov-08	MKT Minus Aaa and Aa Avg			(0.0718)		0.0054	-0.0772
Dec-08	MKT Minus Aaa and Aa Avg			0.0106		0.0045	0.0061
Jan-09	MKT Minus Aaa and Aa Avg			(0.0843)		0.0045	-0.0888
Feb-09	MKT Minus Aaa and Aa Avg			(0.1065)		0.0047	-0.1112
Mar-09	MKT Minus Aaa and Aa Avg			0.0876		0.0048	0.0828
Apr-09	MKT Minus Aaa and Aa Avg			0.0957		0.0048	0.0909
May-09	MKT Minus Aaa and Aa Avg			0.0559		0.0049	0.0510
Jun-09	MKT Minus Aaa and Aa Avg			0.0020		0.0049	-0.0029
Jul-09	MKT Minus Aaa and Aa Avg			0.0756		0.0046	0.0710
Aug-09	MKT Minus Aaa and Aa Avg			0.0361		0.0045	0.0316
Sep-09	MKT Minus Aaa and Aa Avg			0.0373		0.0043	0.0330
Oct-09	MKT Minus Aaa and Aa Avg			(0.0186)		0.0043	-0.0229
Nov-09	MKT Minus Aaa and Aa Avg			0.0600		0.0044	0.0556
Dec-09	MKT Minus Aaa and Aa Avg			0.0193		0.0045	0.0148
Jan-10	MKT Minus Aaa and Aa Avg			(0.0360)		0.0045	-0.0405
Feb-10	MKT Minus Aaa and Aa Avg			0.0310		0.0046	0.0264
Mar-10	MKT Minus Aaa and Aa Avg			0.0603		0.0045	0.0558
Apr-10	MKT Minus Aaa and Aa Avg			0.0158		0.0045	0.0113
May-10	MKT Minus Aaa and Aa Avg			(0.0799)		0.0043	-0.0842
Jun-10	MKT Minus Aaa and Aa Avg			(0.0523)		0.0042	-0.0565
Jul-10	MKT Minus Aaa and Aa Avg			0.0707		0.0040	0.0667
Aug-10	MKT Minus Aaa and Aa Avg			(0.0451)		0.0038	-0.0489
Sep-10	MKT Minus Aaa and Aa Avg			0.0892		0.0039	0.0853
Oct-10	MKT Minus Aaa and Aa Avg			0.0380		0.0040	0.0340
Nov-10	MKT Minus Aaa and Aa Avg			0.0001		0.0041	-0.0040
Dec-10	MKT Minus Aaa and Aa Avg			0.0668		0.0043	0.0625
Jan-11	MKT Minus Aaa and Aa Avg			0.0237		0.0043	0.0194
Feb-11	MKT Minus Aaa and Aa Avg			0.0343		0.0044	0.0299
Mar-11	MKT Minus Aaa and Aa Avg			0.0004		0.0043	-0.0039

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Apr-11	MKT Minus Aaa and Aa Avg			0.0296		0.0044	0.0252
May-11	MKT Minus Aaa and Aa Avg			(0.0113)		0.0042	-0.0155
Jun-11	MKT Minus Aaa and Aa Avg			(0.0167)		0.0042	-0.0209
Jul-11	MKT Minus Aaa and Aa Avg			(0.0203)		0.0042	-0.0245
Aug-11	MKT Minus Aaa and Aa Avg			(0.0543)		0.0037	-0.0580
Sep-11	MKT Minus Aaa and Aa Avg			(0.0703)		0.0035	-0.0738
Oct-11	MKT Minus Aaa and Aa Avg			0.1093		0.0034	0.1059
Nov-11	MKT Minus Aaa and Aa Avg			(0.0022)		0.0033	-0.0055
Dec-11	MKT Minus Aaa and Aa Avg			0.0102		0.0033	0.0069
Jan-12	MKT Minus Aaa and Aa Avg			0.0448		0.0033	0.0415
Feb-12	MKT Minus Aaa and Aa Avg			0.0432		0.0033	0.0399
Mar-12	MKT Minus Aaa and Aa Avg			0.0329		0.0034	0.0295
Apr-12	MKT Minus Aaa and Aa Avg			(0.0063)		0.0034	-0.0097
May-12	MKT Minus Aaa and Aa Avg			(0.0601)		0.0032	-0.0633
Jun-12	MKT Minus Aaa and Aa Avg			0.0412		0.0031	0.0381
Jul-12	MKT Minus Aaa and Aa Avg			0.0139		0.002892	0.0110
Aug-12	MKT Minus Aaa and Aa Avg			0.0225		0.002954	0.0195
Sep-12	MKT Minus Aaa and Aa Avg			0.0258		0.002988	0.0228
Oct-12	MKT Minus Aaa and Aa Avg			(0.0185)		0.002958	-0.0215
Nov-12	MKT Minus Aaa and Aa Avg			0.0058		0.002946	0.0029
Dec-12	MKT Minus Aaa and Aa Avg			0.0091		0.003063	0.0060
Jan-13	MKT Minus Aaa and Aa Avg			0.0518		0.003196	0.0486
Feb-13	MKT Minus Aaa and Aa Avg			0.0136		0.003271	0.0103
Mar-13	MKT Minus Aaa and Aa Avg			0.0375		0.003196	0.0343
Apr-13	MKT Minus Aaa and Aa Avg			0.0193		0.003125	0.0162
May-13	MKT Minus Aaa and Aa Avg			0.0234		0.003263	0.0201
Jun-13	MKT Minus Aaa and Aa Avg			(0.0134)		0.003579	-0.0170
Jul-13	MKT Minus Aaa and Aa Avg			0.0509		0.003667	0.0472
Aug-13	MKT Minus Aaa and Aa Avg			(0.0290)		0.003821	-0.0328
Sep-13	MKT Minus Aaa and Aa Avg			0.0314		0.003888	0.0275
Oct-13	MKT Minus Aaa and Aa Avg			0.0460		0.0038	0.0422
Nov-13	MKT Minus Aaa and Aa Avg			0.0305		0.003875	0.0266
Dec-13	MKT Minus Aaa and Aa Avg			0.0253		0.003875	0.0214

Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	Aaa and A	RP
Jan-14	MKT Minus Aaa and Aa Avg			(0.0346)		0.003758	-0.0384
Feb-14	MKT Minus Aaa and Aa Avg			0.0457		0.003713	0.0420

Unique Index Number	Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP	Trading Date
	Jan-26						0.0031		Jan-26
	Feb-26						0.0028		Feb-26
	Mar-26						0.0032		Mar-26
	Apr-26						0.0030		Apr-26
	May-26						0.0028		May-26
	Jun-26						0.0033		Jun-26
	Jul-26						0.0031		Jul-26
	Aug-26						0.0031		Aug-26
	Sep-26						0.0030		Sep-26
	Oct-26						0.0030		Oct-26
	Nov-26						0.0031		Nov-26
	Dec-26						0.0030		Dec-26
	Jan-27						0.0030		Jan-27
	Feb-27						0.0027		Feb-27
	Mar-27						0.0029		Mar-27
	Apr-27						0.0027		Apr-27
	May-27						0.0028		May-27
	Jun-27						0.0027		Jun-27
	Jul-27						0.0027		Jul-27
	Aug-27						0.0029		Aug-27
	Sep-27						0.0027		Sep-27
	Oct-27						0.0028		Oct-27
	Nov-27						0.0027		Nov-27
	Dec-27						0.0027		Dec-27
	Jan-28						0.0027		Jan-28
	Feb-28						0.0025		Feb-28
	Mar-28						0.0027		Mar-28
	Apr-28						0.0026		Apr-28
	May-28						0.0027		May-28
	Jun-28						0.0027		Jun-28
	Jul-28						0.0027		Jul-28
	Aug-28						0.0029		Aug-28
	Sep-28						0.0027		Sep-28

Oct-28	0.0030	Oct-28
Nov-28	0.0027	Nov-28
Dec-28	0.0029	Dec-28
Jan-29	0.0029	Jan-29
Feb-29	0.0027	Feb-29
Mar-29	0.0028	Mar-29
Apr-29	0.0034	Apr-29
May-29	0.0030	May-29
Jun-29	0.0029	Jun-29
Jul-29	0.0032	Jul-29
Aug-29	0.0030	Aug-29
Sep-29	0.0032	Sep-29
Oct-29	0.0031	Oct-29
Nov-29	0.0026	Nov-29
Dec-29	0.0031	Dec-29
Jan-30	0.0029	Jan-30
Feb-30	0.0026	Feb-30
Mar-30	0.0029	Mar-30
Apr-30	0.0027	Apr-30
May-30	0.0027	May-30
Jun-30	0.0029	Jun-30
Jul-30	0.0028	Jul-30
Aug-30	0.0026	Aug-30
Sep-30	0.0029	Sep-30
Oct-30	0.0027	Oct-30
Nov-30	0.0026	Nov-30
Dec-30	0.0028	Dec-30
Jan-31	0.0028	Jan-31
Feb-31	0.0026	Feb-31
Mar-31	0.0029	Mar-31
Apr-31	0.0027	Apr-31
May-31	0.0026	May-31
Jun-31	0.0028	Jun-31
Jul-31	0.0027	Jul-31
Aug-31	0.0027	Aug-31
Sep-31	0.0027	Sep-31

Oct-31	0.0029	Oct-31
Nov-31	0.0031	Nov-31
Dec-31	0.0032	Dec-31
Jan-32	0.0032	Jan-32
Feb-32	0.0032	Feb-32
Mar-32	0.0031	Mar-32
Apr-32	0.0030	Apr-32
May-32	0.0028	May-32
Jun-32	0.0028	Jun-32
Jul-32	0.0028	Jul-32
Aug-32	0.0028	Aug-32
Sep-32	0.0026	Sep-32
Oct-32	0.0027	Oct-32
Nov-32	0.0026	Nov-32
Dec-32	0.0027	Dec-32
Jan-33	0.0027	Jan-33
Feb-33	0.0023	Feb-33
Mar-33	0.0027	Mar-33
Apr-33	0.0025	Apr-33
May-33	0.0028	May-33
Jun-33	0.0025	Jun-33
Jul-33	0.0026	Jul-33
Aug-33	0.0026	Aug-33
Sep-33	0.0025	Sep-33
Oct-33	0.0026	Oct-33
Nov-33	0.0025	Nov-33
Dec-33	0.0028	Dec-33
Jan-34	0.0029	Jan-34
Feb-34	0.0024	Feb-34
Mar-34	0.0027	Mar-34
Apr-34	0.0025	Apr-34
May-34	0.0025	May-34
Jun-34	0.0024	Jun-34
Jul-34	0.0024	Jul-34
Aug-34	0.0024	Aug-34
Sep-34	0.0023	Sep-34

Oct-34	0.0027	Oct-34
Nov-34	0.0025	Nov-34
Dec-34	0.0025	Dec-34
Jan-35	0.0025	Jan-35
Feb-35	0.0021	Feb-35
Mar-35	0.0022	Mar-35
Apr-35	0.0023	Apr-35
May-35	0.0023	May-35
Jun-35	0.0022	Jun-35
Jul-35	0.0024	Jul-35
Aug-35	0.0023	Aug-35
Sep-35	0.0023	Sep-35
Oct-35	0.0023	Oct-35
Nov-35	0.0024	Nov-35
Dec-35	0.0024	Dec-35
Jan-36	0.0024	Jan-36
Feb-36	0.0023	Feb-36
Mar-36	0.0024	Mar-36
Apr-36	0.0022	Apr-36
May-36	0.0022	May-36
Jun-36	0.0024	Jun-36
Jul-36	0.0023	Jul-36
Aug-36	0.0023	Aug-36
Sep-36	0.0021	Sep-36
Oct-36	0.0023	Oct-36
Nov-36	0.0022	Nov-36
Dec-36	0.0022	Dec-36
Jan-37	0.0021	Jan-37
Feb-37	0.0020	Feb-37
Mar-37	0.0022	Mar-37
Apr-37	0.0023	Apr-37
May-37	0.0022	May-37
Jun-37	0.0025	Jun-37
Jul-37	0.0024	Jul-37
Aug-37	0.0023	Aug-37
Sep-37	0.0023	Sep-37

Oct-37	0.0023	Oct-37
Nov-37	0.0024	Nov-37
Dec-37	0.0023	Dec-37
Jan-38	0.0023	Jan-38
Feb-38	0.0021	Feb-38
Mar-38	0.0023	Mar-38
Apr-38	0.0022	Apr-38
May-38	0.0022	May-38
Jun-38	0.0021	Jun-38
Jul-38	0.0021	Jul-38
Aug-38	0.0022	Aug-38
Sep-38	0.0021	Sep-38
Oct-38	0.0022	Oct-38
Nov-38	0.0021	Nov-38
Dec-38	0.0022	Dec-38
Jan-39	0.0021	Jan-39
Feb-39	0.0019	Feb-39
Mar-39	0.0021	Mar-39
Apr-39	0.0019	Apr-39
May-39	0.0020	May-39
Jun-39	0.0018	Jun-39
Jul-39	0.0019	Jul-39
Aug-39	0.0018	Aug-39
Sep-39	0.0019	Sep-39
Oct-39	0.0023	Oct-39
Nov-39	0.0020	Nov-39
Dec-39	0.0019	Dec-39
Jan-40	0.0020	Jan-40
Feb-40	0.0018	Feb-40
Mar-40	0.0019	Mar-40
Apr-40	0.0018	Apr-40
May-40	0.0019	May-40
Jun-40	0.0019	Jun-40
Jul-40	0.0020	Jul-40
Aug-40	0.0019	Aug-40
Sep-40	0.0018	Sep-40

Oct-40	0.0018	Oct-40
Nov-40	0.0018	Nov-40
Dec-40	0.0017	Dec-40
Jan-41	0.0016	Jan-41
Feb-41	0.0016	Feb-41
Mar-41	0.0018	Mar-41
Apr-41	0.0017	Apr-41
May-41	0.0017	May-41
Jun-41	0.0016	Jun-41
Jul-41	0.0016	Jul-41
Aug-41	0.0016	Aug-41
Sep-41	0.0016	Sep-41
Oct-41	0.0016	Oct-41
Nov-41	0.0014	Nov-41
Dec-41	0.0016	Dec-41
Jan-42	0.0021	Jan-42
Feb-42	0.0019	Feb-42
Mar-42	0.0021	Mar-42
Apr-42	0.0020	Apr-42
May-42	0.0019	May-42
Jun-42	0.0021	Jun-42
Jul-42	0.0021	Jul-42
Aug-42	0.0021	Aug-42
Sep-42	0.0020	Sep-42
Oct-42	0.0021	Oct-42
Nov-42	0.0020	Nov-42
Dec-42	0.0021	Dec-42
Jan-43	0.0020	Jan-43
Feb-43	0.0019	Feb-43
Mar-43	0.0021	Mar-43
Apr-43	0.0020	Apr-43
May-43	0.0019	May-43
Jun-43	0.0021	Jun-43
Jul-43	0.0021	Jul-43
Aug-43	0.0021	Aug-43
Sep-43	0.0020	Sep-43

Oct-43	0.0020	Oct-43
Nov-43	0.0021	Nov-43
Dec-43	0.0021	Dec-43
Jan-44	0.0021	Jan-44
Feb-44	0.0020	Feb-44
Mar-44	0.0021	Mar-44
Apr-44	0.0020	Apr-44
May-44	0.0022	May-44
Jun-44	0.0020	Jun-44
Jul-44	0.0021	Jul-44
Aug-44	0.0021	Aug-44
Sep-44	0.0020	Sep-44
Oct-44	0.0021	Oct-44
Nov-44	0.0020	Nov-44
Dec-44	0.0020	Dec-44
Jan-45	0.0021	Jan-45
Feb-45	0.0018	Feb-45
Mar-45	0.0020	Mar-45
Apr-45	0.0019	Apr-45
May-45	0.0019	May-45
Jun-45	0.0019	Jun-45
Jul-45	0.0018	Jul-45
Aug-45	0.0019	Aug-45
Sep-45	0.0018	Sep-45
Oct-45	0.0019	Oct-45
Nov-45	0.0018	Nov-45
Dec-45	0.0018	Dec-45
Jan-46	0.0017	Jan-46
Feb-46	0.0015	Feb-46
Mar-46	0.0016	Mar-46
Apr-46	0.0017	Apr-46
May-46	0.0018	May-46
Jun-46	0.0016	Jun-46
Jul-46	0.0019	Jul-46
Aug-46	0.0017	Aug-46
Sep-46	0.0018	Sep-46

Oct-46	0.0019	Oct-46
Nov-46	0.0018	Nov-46
Dec-46	0.0019	Dec-46
Jan-47	0.0018	Jan-47
Feb-47	0.0016	Feb-47
Mar-47	0.0018	Mar-47
Apr-47	0.0017	Apr-47
May-47	0.0017	May-47
Jun-47	0.0019	Jun-47
Jul-47	0.0018	Jul-47
Aug-47	0.0017	Aug-47
Sep-47	0.0018	Sep-47
Oct-47	0.0018	Oct-47
Nov-47	0.0017	Nov-47
Dec-47	0.0021	Dec-47
Jan-48	0.0020	Jan-48
Feb-48	0.0019	Feb-48
Mar-48	0.0022	Mar-48
Apr-48	0.0020	Apr-48
May-48	0.0018	May-48
Jun-48	0.0021	Jun-48
Jul-48	0.0019	Jul-48
Aug-48	0.0021	Aug-48
Sep-48	0.0020	Sep-48
Oct-48	0.0019	Oct-48
Nov-48	0.0021	Nov-48
Dec-48	0.0020	Dec-48
Jan-49	0.0020	Jan-49
Feb-49	0.0018	Feb-49
Mar-49	0.0019	Mar-49
Apr-49	0.0018	Apr-49
May-49	0.0020	May-49
Jun-49	0.0019	Jun-49
Jul-49	0.0017	Jul-49
Aug-49	0.0019	Aug-49
Sep-49	0.0017	Sep-49

Oct-49	0.0018	Oct-49
Nov-49	0.0017	Nov-49
Dec-49	0.0017	Dec-49
Jan-50	0.0018	Jan-50
Feb-50	0.0016	Feb-50
Mar-50	0.0018	Mar-50
Apr-50	0.0016	Apr-50
May-50	0.0019	May-50
Jun-50	0.0017	Jun-50
Jul-50	0.0018	Jul-50
Aug-50	0.0018	Aug-50
Sep-50	0.0017	Sep-50
Oct-50	0.0019	Oct-50
Nov-50	0.0018	Nov-50
Dec-50	0.0018	Dec-50
Jan-51	0.0020	Jan-51
Feb-51	0.0017	Feb-51
Mar-51	0.0019	Mar-51
Apr-51	0.0020	Apr-51
May-51	0.0021	May-51
Jun-51	0.0020	Jun-51
Jul-51	0.0023	Jul-51
Aug-51	0.0021	Aug-51
Sep-51	0.0019	Sep-51
Oct-51	0.0023	Oct-51
Nov-51	0.0021	Nov-51
Dec-51	0.0022	Dec-51
Jan-52	0.0023	Jan-52
Feb-52	0.0021	Feb-52
Mar-52	0.0023	Mar-52
Apr-52	0.0022	Apr-52
May-52	0.0020	May-52
Jun-52	0.0022	Jun-52
Jul-52	0.0022	Jul-52
Aug-52	0.0021	Aug-52
Sep-52	0.0023	Sep-52

	Oct-52					0.0023		Oct-52
	Nov-52					0.0021		Nov-52
21	Dec-52	UNION ELECTRIC CO	23.125	-66	0	0.0024		Dec-52
21	Jan-53	UNION ELECTRIC CO	22.875	-0.01081	0	0.0023	-0.0131	Jan-53
21	Feb-53	UNION ELECTRIC CO	23.375	0.021858	0	0.0021	0.0198	Feb-53
21	Mar-53	UNION ELECTRIC CO	23	-0.00321	0.3	0.0025	-0.0057	Mar-53
21	Apr-53	UNION ELECTRIC CO	22.5	-0.02174	0	0.0024	-0.0241	Apr-53
21	May-53	UNION ELECTRIC CO	22.25	-0.01111	0	0.0024	-0.0135	May-53
21	Jun-53	UNION ELECTRIC CO	21.875	-0.00337	0.3	0.0027	-0.0061	Jun-53
21	Jul-53	UNION ELECTRIC CO	22.125	0.011429	0	0.0025	0.0089	Jul-53
21	Aug-53	UNION ELECTRIC CO	21.75	-0.01695	0	0.0025	-0.0194	Aug-53
21	Sep-53	UNION ELECTRIC CO	21.375	-0.00345	0.3	0.0025	-0.0059	Sep-53
21	Oct-53	UNION ELECTRIC CO	22.875	0.070175	0	0.0023	0.0679	Oct-53
21	Nov-53	UNION ELECTRIC CO	23.375	0.034973	0.3	0.0024	0.0326	Nov-53
21	Dec-53	UNION ELECTRIC CO	**-22.25**	-0.04813	0	0.0024	-0.0505	Dec-53
21	Jan-54	UNION ELECTRIC CO	22.75	0.022472	0	0.0023	0.0202	Jan-54
21	Feb-54	UNION ELECTRIC CO	23	0.010989	0	0.0022	0.0088	Feb-54
21	Mar-54	UNION ELECTRIC CO	23.75	0.045652	0.3	0.0025	0.0432	Mar-54
21	Apr-54	UNION ELECTRIC CO	23.75	0	0	0.0022	-0.0022	Apr-54
21	May-54	UNION ELECTRIC CO	24.875	0.047368	0	0.0020	0.0454	May-54
21	Jun-54	UNION ELECTRIC CO	25.625	0.042211	0.3	0.0025	0.0397	Jun-54
21	Jul-54	UNION ELECTRIC CO	27.125	0.058537	0	0.0022	0.0563	Jul-54
21	Aug-54	UNION ELECTRIC CO	25.5	-0.04885	0.3	0.0023	-0.0511	Aug-54
21	Sep-54	UNION ELECTRIC CO	26.5	0.039216	0	0.0022	0.0370	Sep-54
21	Oct-54	UNION ELECTRIC CO	25.75	-0.0283	0	0.0021	-0.0304	Oct-54
21	Nov-54	UNION ELECTRIC CO	27.75	0.08932	0.3	0.0023	0.0870	Nov-54
21	Dec-54	UNION ELECTRIC CO	27.75	0	0	0.0023	-0.0023	Dec-54
21	Jan-55	UNION ELECTRIC CO	27.625	-0.00451	0	0.0022	-0.0067	Jan-55
21	Feb-55	UNION ELECTRIC CO	29.375	0.063348	0	0.0022	0.0611	Feb-55
21	Mar-55	UNION ELECTRIC CO	29.5	0.01617	0.35	0.0024	0.0138	Mar-55
21	Apr-55	UNION ELECTRIC CO	31	0.050847	0	0.0022	0.0486	Apr-55
21	May-55	UNION ELECTRIC CO	29.875	-0.025	0.35	0.0025	-0.0275	May-55
21	Jun-55	UNION ELECTRIC CO	29.5	-0.01255	0	0.0023	-0.0149	Jun-55
21	Jul-55	UNION ELECTRIC CO	29.75	0.008475	0	0.0023	0.0062	Jul-55
21	Aug-55	UNION ELECTRIC CO	30	0.020168	0.35	0.0027	0.0175	Aug-55
21	Sep-55	UNION ELECTRIC CO	28.375	-0.05417	0	0.0024	-0.0566	Sep-55

21	Oct-55	UNION ELECTRIC CO	29.25	0.030837	0	0.0025	0.0283	Oct-55
21	Nov-55	UNION ELECTRIC CO	28.5	-0.01368	0.35	0.0024	-0.0161	Nov-55
21	Dec-55	UNION ELECTRIC CO	29	0.017544	0	0.0024	0.0151	Dec-55
21	Jan-56	UNION ELECTRIC CO	28.875	-0.00431	0	0.0025	-0.0068	Jan-56
21	Feb-56	UNION ELECTRIC CO	28.75	0.007792	0.35	0.0023	0.0055	Feb-56
21	Mar-56	UNION ELECTRIC CO	28.875	0.004348	0	0.0023	0.0020	Mar-56
21	Apr-56	UNION ELECTRIC CO	27.125	-0.06061	0	0.0026	-0.0632	Apr-56
21	May-56	UNION ELECTRIC CO	27.375	0.043252	0.35	0.0026	0.0407	May-56
21	Jun-56	UNION ELECTRIC CO	27.125	-0.00913	0	0.0023	-0.0114	Jun-56
21	Jul-56	UNION ELECTRIC CO	27.75	0.023041	0	0.0026	0.0204	Jul-56
21	Aug-56	UNION ELECTRIC CO	27.375	-0.0009	0.35	0.0026	-0.0035	Aug-56
21	Sep-56	UNION ELECTRIC CO	26.375	-0.03653	0	0.0025	-0.0390	Sep-56
21	Oct-56	UNION ELECTRIC CO	26.625	0.009479	0	0.0029	0.0066	Oct-56
21	Nov-56	UNION ELECTRIC CO	26.5	0.009577	0.38	0.0027	0.0069	Nov-56
21	Dec-56	UNION ELECTRIC CO	26.375	-0.00472	0	0.0028	-0.0075	Dec-56
21	Jan-57	UNION ELECTRIC CO	27.375	0.037915	0	0.0029	0.0350	Jan-57
21	Feb-57	UNION ELECTRIC CO	27.5	0.018447	0.38	0.0025	0.0159	Feb-57
21	Mar-57	UNION ELECTRIC CO	28.875	0.05	0	0.0026	0.0474	Mar-57
21	Apr-57	UNION ELECTRIC CO	29.125	0.008658	0	0.0029	0.0058	Apr-57
21	May-57	UNION ELECTRIC CO	28.75	0.000172	0.38	0.0029	-0.0027	May-57
21	Jun-57	UNION ELECTRIC CO	26.75	-0.06957	0	0.0025	-0.0721	Jun-57
21	Jul-57	UNION ELECTRIC CO	26.875	0.004673	0	0.0033	0.0014	Jul-57
21	Aug-57	UNION ELECTRIC CO	26.625	0.004837	0.38	0.0030	0.0018	Aug-57
21	Sep-57	UNION ELECTRIC CO	26.5	-0.0047	0	0.0031	-0.0078	Sep-57
21	Oct-57	UNION ELECTRIC CO	25.375	-0.04245	0	0.0031	-0.0456	Oct-57
21	Nov-57	UNION ELECTRIC CO	25.625	0.024828	0.38	0.0029	0.0219	Nov-57
21	Dec-57	UNION ELECTRIC CO	27.375	0.068293	0	0.0029	0.0654	Dec-57
21	Jan-58	UNION ELECTRIC CO	29.625	0.082192	0	0.0027	0.0795	Jan-58
21	Feb-58	UNION ELECTRIC CO	28.875	-0.01249	0.38	0.0025	-0.0150	Feb-58
21	Mar-58	UNION ELECTRIC CO	28.625	-0.00866	0	0.0027	-0.0114	Mar-58
21	Apr-58	UNION ELECTRIC CO	29.875	0.043668	0	0.0026	0.0411	Apr-58
21	May-58	UNION ELECTRIC CO	29.875	0.01272	0.38	0.0024	0.0103	May-58
21	Jun-58	UNION ELECTRIC CO	30.875	0.033473	0	0.0027	0.0308	Jun-58
21	Jul-58	UNION ELECTRIC CO	32.5	0.052632	0	0.0027	0.0499	Jul-58
21	Aug-58	UNION ELECTRIC CO	29.5	-0.08062	0.38	0.0027	-0.0833	Aug-58
21	Sep-58	UNION ELECTRIC CO	30.375	0.029661	0	0.0032	0.0265	Sep-58

21	Oct-58	UNION ELECTRIC CO	31.75	0.045267	0	0.0032	0.0421	Oct-58
21	Nov-58	UNION ELECTRIC CO	30.875	-0.01559	0.38	0.0028	-0.0184	Nov-58
21	Dec-58	UNION ELECTRIC CO	32.75	0.060729	0	0.0033	0.0574	Dec-58
21	Jan-59	UNION ELECTRIC CO	33.875	0.034351	0	0.0031	0.0313	Jan-59
21	Feb-59	UNION ELECTRIC CO	34.25	0.022288	0.38	0.0031	0.0192	Feb-59
21	Mar-59	UNION ELECTRIC CO	34.375	0.00365	0	0.0035	0.0002	Mar-59
21	Apr-59	UNION ELECTRIC CO	33.875	-0.01455	0	0.0033	-0.0178	Apr-59
21	May-59	UNION ELECTRIC CO	31.625	-0.0552	0.38	0.0033	-0.0585	May-59
21	Jun-59	UNION ELECTRIC CO	31.75	0.003953	0	0.0036	0.0004	Jun-59
21	Jul-59	UNION ELECTRIC CO	33.375	0.051181	0	0.0035	0.0477	Jul-59
21	Aug-59	UNION ELECTRIC CO	34	0.031011	0.41	0.0035	0.0275	Aug-59
21	Sep-59	UNION ELECTRIC CO	31.5	-0.07039	0	0.0034	-0.0738	Sep-59
21	Oct-59	UNION ELECTRIC CO	32.125	0.019841	0	0.0035	0.0163	Oct-59
21	Nov-59	UNION ELECTRIC CO	32.375	0.020545	0.41	0.0035	0.0170	Nov-59
21	Dec-59	UNION ELECTRIC CO	32.25	-0.00386	0	0.0036	-0.0075	Dec-59
21	Jan-60	UNION ELECTRIC CO	33	0.023256	0	0.0035	0.0198	Jan-60
21	Feb-60	UNION ELECTRIC CO	34	0.042727	0.41	0.0037	0.0390	Feb-60
21	Mar-60	UNION ELECTRIC CO	32.875	-0.03309	0	0.0036	-0.0367	Mar-60
21	Apr-60	UNION ELECTRIC CO	35.5	0.079848	0	0.0032	0.0766	Apr-60
21	May-60	UNION ELECTRIC CO	36.375	0.037324	0.45	0.0037	0.0336	May-60
21	Jun-60	UNION ELECTRIC CO	37.875	0.041237	0	0.0034	0.0378	Jun-60
21	Jul-60	UNION ELECTRIC CO	37.75	-0.0033	0	0.0032	-0.0065	Jul-60
21	Aug-60	UNION ELECTRIC CO	39	0.045033	0.45	0.0034	0.0416	Aug-60
21	Sep-60	UNION ELECTRIC CO	37	-0.05128	0	0.0032	-0.0545	Sep-60
21	Oct-60	UNION ELECTRIC CO	36.75	-0.00676	0	0.0033	-0.0101	Oct-60
21	Nov-60	UNION ELECTRIC CO	38.625	0.063265	0.45	0.0032	0.0601	Nov-60
21	Dec-60	UNION ELECTRIC CO	39.375	0.019417	0	0.0033	0.0161	Dec-60
21	Jan-61	UNION ELECTRIC CO	42	0.066667	0	0.0033	0.0634	Jan-61
21	Feb-61	UNION ELECTRIC CO	44.25	0.064286	0.45	0.0030	0.0613	Feb-61
21	Mar-61	UNION ELECTRIC CO	44	-0.00565	0	0.0031	-0.0088	Mar-61
21	Apr-61	UNION ELECTRIC CO	43.25	-0.01705	0	0.0031	-0.0201	Apr-61
21	May-61	UNION ELECTRIC CO	46.375	0.082659	0.45	0.0034	0.0793	May-61
21	Jun-61	UNION ELECTRIC CO	43.125	-0.07008	0	0.0032	-0.0733	Jun-61
21	Jul-61	UNION ELECTRIC CO	46.5	0.078261	0	0.0033	0.0750	Jul-61
21	Aug-61	UNION ELECTRIC CO	47.5	0.031183	0.45	0.0033	0.0279	Aug-61
21	Sep-61	UNION ELECTRIC CO	50	0.052632	0	0.0032	0.0494	Sep-61

21	Oct-61	UNION ELECTRIC CO		49.75	-0.005	0	0.0034	-0.0084	Oct-61
21	Nov-61	UNION ELECTRIC CO		50.875	0.031658	0.45	0.0032	0.0285	Nov-61
21	Dec-61	UNION ELECTRIC CO		47.125	-0.07371	0	0.0031	-0.0768	Dec-61
21	Jan-62	UNION ELECTRIC CO		46.75	-0.00796	0	0.0037	-0.0117	Jan-62
21	Feb-62	UNION ELECTRIC CO		48.25	0.041711	0.45	0.0032	0.0385	Feb-62
21	Mar-62	UNION ELECTRIC CO		50.375	0.044041	0	0.0033	0.0407	Mar-62
21	Apr-62	UNION ELECTRIC CO		50.25	-0.00248	0	0.0033	-0.0058	Apr-62
21	May-62	UNION ELECTRIC CO		43.5	-0.12537	0.45	0.0032	-0.1286	May-62
21	Jun-62	UNION ELECTRIC CO		42.25	-0.02874	0	0.0030	-0.0317	Jun-62
21	Jul-62	UNION ELECTRIC CO	UEP	45.125	0.068047	0	0.0034	0.0646	Jul-62
21	Aug-62	UNION ELECTRIC CO	UEP	48.625	0.087535	0.45	0.0034	0.0841	Aug-62
21	Sep-62	UNION ELECTRIC CO	UEP	44.625	-0.08226	0	0.0030	-0.0853	Sep-62
21	Oct-62	UNION ELECTRIC CO	UEP	43.75	-0.01961	0	0.0035	-0.0231	Oct-62
21	Nov-62	UNION ELECTRIC CO	UEP	48.5	0.119543	0.48	0.0031	0.1164	Nov-62
21	Dec-62	UNION ELECTRIC CO	UEP	48	-0.01031	0	0.0032	-0.0135	Dec-62
21	Jan-63	UNION ELECTRIC CO	UEP	51.75	0.078125	0	0.0032	0.0749	Jan-63
21	Feb-63	UNION ELECTRIC CO	UEP	53.5	0.043092	0.48	0.0029	0.0402	Feb-63
21	Mar-63	UNION ELECTRIC CO	UEP	53	-0.00935	0	0.0031	-0.0124	Mar-63
21	Apr-63	UNION ELECTRIC CO	UEP	55.5	0.04717	0	0.0034	0.0438	Apr-63
21	May-63	UNION ELECTRIC CO	UEP	27.375	-0.00451	0.5	0.0033	-0.0078	May-63
21	Jun-63	UNION ELECTRIC CO	UEP	26.875	-0.01827	0	0.0030	-0.0213	Jun-63
21	Jul-63	UNION ELECTRIC CO	UEP	27.125	0.009302	0	0.0036	0.0057	Jul-63
21	Aug-63	UNION ELECTRIC CO	UEP	28.875	0.073733	0.25	0.0033	0.0704	Aug-63
21	Sep-63	UNION ELECTRIC CO	UEP	26.75	-0.07359	0	0.0034	-0.0770	Sep-63
21	Oct-63	UNION ELECTRIC CO	UEP	27.625	0.03271	0	0.0034	0.0293	Oct-63
21	Nov-63	UNION ELECTRIC CO	UEP	26.75	-0.02262	0.25	0.0032	-0.0258	Nov-63
21	Dec-63	UNION ELECTRIC CO	UEP	26.5	-0.00935	0	0.0036	-0.0129	Dec-63
21	Jan-64	UNION ELECTRIC CO	UEP	27	0.018868	0	0.0035	0.0154	Jan-64
21	Feb-64	UNION ELECTRIC CO	UEP	27.125	0.013889	0.25	0.0032	0.0107	Feb-64
21	Mar-64	UNION ELECTRIC CO	UEP	27	-0.00461	0	0.0037	-0.0083	Mar-64
21	Apr-64	UNION ELECTRIC CO	UEP	26.5	-0.01852	0	0.0035	-0.0220	Apr-64
21	May-64	UNION ELECTRIC CO	UEP	25.875	-0.01415	0.25	0.0032	-0.0174	May-64
21	Jun-64	UNION ELECTRIC CO	UEP	26.375	0.019324	0	0.0038	0.0155	Jun-64
21	Jul-64	UNION ELECTRIC CO	UEP	26.875	0.018957	0	0.0035	0.0155	Jul-64
21	Aug-64	UNION ELECTRIC CO	UEP	26.25	-0.01395	0.25	0.0035	-0.0175	Aug-64
21	Sep-64	UNION ELECTRIC CO	UEP	27	0.028571	0	0.0034	0.0252	Sep-64

21	Oct-64	UNION ELECTRIC CO	UEP	27.625	0.023148	0	0.0034	0.0197	Oct-64
21	Nov-64	UNION ELECTRIC CO	UEP	28.625	0.046335	0.28	0.0035	0.0428	Nov-64
21	Dec-64	UNION ELECTRIC CO	UEP	29.25	0.021834	0	0.0035	0.0183	Dec-64
21	Jan-65	UNION ELECTRIC CO	UEP	30.25	0.034188	0	0.0033	0.0309	Jan-65
21	Feb-65	UNION ELECTRIC CO	UEP	30.125	0.005124	0.28	0.0032	0.0019	Feb-65
21	Mar-65	UNION ELECTRIC CO	UEP	28.5	-0.05394	0	0.0038	-0.0577	Mar-65
21	Apr-65	UNION ELECTRIC CO	UEP	30.375	0.065789	0	0.0033	0.0625	Apr-65
21	May-65	UNION ELECTRIC CO	UEP	30.625	0.017449	0.28	0.0033	0.0141	May-65
21	Jun-65	UNION ELECTRIC CO	UEP	29.125	-0.04898	0	0.0038	-0.0528	Jun-65
21	Jul-65	UNION ELECTRIC CO	UEP	29	-0.00429	0	0.0034	-0.0077	Jul-65
21	Aug-65	UNION ELECTRIC CO	UEP	28.5	-0.00759	0.28	0.0037	-0.0113	Aug-65
21	Sep-65	UNION ELECTRIC CO	UEP	28.875	0.013158	0	0.0035	0.0097	Sep-65
21	Oct-65	UNION ELECTRIC CO	UEP	28.125	-0.02246	0	0.0034	-0.0259	Oct-65
21	Nov-65	UNION ELECTRIC CO	UEP	28.5	0.023289	0.28	0.0037	0.0196	Nov-65
21	Dec-65	UNION ELECTRIC CO	UEP	28.125	-0.01316	0	0.0037	-0.0169	Dec-65
21	Jan-66	UNION ELECTRIC CO	UEP	26.75	-0.04889	0	0.0038	-0.0527	Jan-66
21	Feb-66	UNION ELECTRIC CO	UEP	25	-0.05495	0.28	0.0034	-0.0584	Feb-66
21	Mar-66	UNION ELECTRIC CO	UEP	25.75	0.03	0	0.0040	0.0260	Mar-66
21	Apr-66	UNION ELECTRIC CO	UEP	25.625	-0.00485	0	0.0036	-0.0085	Apr-66
21	May-66	UNION ELECTRIC CO	UEP	24.25	-0.04273	0.28	0.0041	-0.0468	May-66
21	Jun-66	UNION ELECTRIC CO	UEP	24.875	0.025773	0	0.0039	0.0219	Jun-66
21	Jul-66	UNION ELECTRIC CO	UEP	24.875	0	0	0.0038	-0.0038	Jul-66
21	Aug-66	UNION ELECTRIC CO	UEP	22.375	-0.08925	0.28	0.0043	-0.0935	Aug-66
21	Sep-66	UNION ELECTRIC CO	UEP	23.375	0.044693	0	0.0041	0.0406	Sep-66
21	Oct-66	UNION ELECTRIC CO	UEP	25.375	0.085561	0	0.0040	0.0816	Oct-66
21	Nov-66	UNION ELECTRIC CO	UEP	25.375	0.011823	0.3	0.0038	0.0080	Nov-66
21	Dec-66	UNION ELECTRIC CO	UEP	25.75	0.014778	0	0.0039	0.0109	Dec-66
21	Jan-67	UNION ELECTRIC CO	UEP	26.75	0.038835	0	0.0040	0.0348	Jan-67
21	Feb-67	UNION ELECTRIC CO	UEP	27	0.020561	0.3	0.0034	0.0172	Feb-67
21	Mar-67	UNION ELECTRIC CO	UEP	26.875	-0.00463	0	0.0039	-0.0085	Mar-67
21	Apr-67	UNION ELECTRIC CO	UEP	25	-0.06977	0	0.0035	-0.0733	Apr-67
21	May-67	UNION ELECTRIC CO	UEP	24.625	-0.003	0.3	0.0043	-0.0073	May-67
21	Jun-67	UNION ELECTRIC CO	UEP	24.125	-0.02031	0	0.0039	-0.0242	Jun-67
21	Jul-67	UNION ELECTRIC CO	UEP	24.041667	-0.00345	0	0.0043	-0.0078	Jul-67
21	Aug-67	UNION ELECTRIC CO	UEP	23.958333	0.009012	0.3	0.0042	0.0048	Aug-67
21	Sep-67	UNION ELECTRIC CO	UEP	23.875	0.002073	0	0.0040	-0.0019	Sep-67

21	Oct-67	UNION ELECTRIC CO	UEP	22.875	-0.04189	0	0.0045	-0.0464	Oct-67
21	Nov-67	UNION ELECTRIC CO	UEP	22.25	-0.01421	0.3	0.0045	-0.0187	Nov-67
21	Dec-67	UNION ELECTRIC CO	UEP	22.125	-0.00562	0	0.0044	-0.0100	Dec-67
21	Jan-68	UNION ELECTRIC CO	UEP	22.125	0	0	0.0050	-0.0050	Jan-68
21	Feb-68	UNION ELECTRIC CO	UEP	22.625	0.036158	0.3	0.0042	0.0320	Feb-68
21	Mar-68	UNION ELECTRIC CO	UEP	21.25	-0.06077	0	0.0043	-0.0651	Mar-68
21	Apr-68	UNION ELECTRIC CO	UEP	21.375	0.005882	0	0.0049	0.0010	Apr-68
21	May-68	UNION ELECTRIC CO	UEP	20.5	-0.0269	0.3	0.0046	-0.0315	May-68
21	Jun-68	UNION ELECTRIC CO	UEP	22.125	0.079268	0	0.0042	0.0751	Jun-68
21	Jul-68	UNION ELECTRIC CO	UEP	22.125	0	0	0.0048	-0.0048	Jul-68
21	Aug-68	UNION ELECTRIC CO	UEP	22	0.00791	0.3	0.0042	0.0037	Aug-68
21	Sep-68	UNION ELECTRIC CO	UEP	22.25	0.011364	0	0.0044	0.0070	Sep-68
21	Oct-68	UNION ELECTRIC CO	UEP	21.375	-0.03933	0	0.0045	-0.0438	Oct-68
21	Nov-68	UNION ELECTRIC CO	UEP	23.75	0.125146	0.3	0.0043	0.1208	Nov-68
21	Dec-68	UNION ELECTRIC CO	UEP	22.375	-0.0579	0	0.0049	-0.0628	Dec-68
21	Jan-69	UNION ELECTRIC CO	UEP	22.875	0.022346	0	0.0050	0.0173	Jan-69
21	Feb-69	UNION ELECTRIC CO	UEP	22.25	-0.01421	0.3	0.0046	-0.0188	Feb-69
21	Mar-69	UNION ELECTRIC CO	UEP	21.75	-0.02247	0	0.0047	-0.0272	Mar-69
21	Apr-69	UNION ELECTRIC CO	UEP	21.25	-0.02299	0	0.0055	-0.0285	Apr-69
21	May-69	UNION ELECTRIC CO	UEP	20.75	-0.00941	0.3	0.0047	-0.0141	May-69
21	Jun-69	UNION ELECTRIC CO	UEP	20	-0.03615	0	0.0055	-0.0416	Jun-69
21	Jul-69	UNION ELECTRIC CO	UEP	19.75	-0.0125	0	0.0052	-0.0177	Jul-69
21	Aug-69	UNION ELECTRIC CO	UEP	19	-0.02279	0.3	0.0048	-0.0276	Aug-69
21	Sep-69	UNION ELECTRIC CO	UEP	17.875	-0.05921	0	0.0055	-0.0647	Sep-69
21	Oct-69	UNION ELECTRIC CO	UEP	18.875	0.055944	0	0.0057	0.0502	Oct-69
21	Nov-69	UNION ELECTRIC CO	UEP	18.375	-0.0106	0.3	0.0049	-0.0155	Nov-69
21	Dec-69	UNION ELECTRIC CO	UEP	17.5	-0.04762	0	0.0060	-0.0536	Dec-69
21	Jan-70	UNION ELECTRIC CO	UEP	17.25	-0.01429	0	0.0056	-0.0199	Jan-70
21	Feb-70	UNION ELECTRIC CO	UEP	19	0.101449	0	0.0052	0.0962	Feb-70
21	Mar-70	UNION ELECTRIC CO	UEP	18.75	0.002632	0.3	0.0056	-0.0030	Mar-70
21	Apr-70	UNION ELECTRIC CO	UEP	18	-0.04	0	0.0054	-0.0454	Apr-70
21	May-70	UNION ELECTRIC CO	UEP	17.875	0.010833	0.32	0.0055	0.0053	May-70
21	Jun-70	UNION ELECTRIC CO	UEP	16.75	-0.06294	0	0.0064	-0.0693	Jun-70
21	Jul-70	UNION ELECTRIC CO	UEP	17.75	0.059701	0	0.0059	0.0538	Jul-70
21	Aug-70	UNION ELECTRIC CO	UEP	18.25	0.046197	0.32	0.0057	0.0405	Aug-70
21	Sep-70	UNION ELECTRIC CO	UEP	18.625	0.020548	0	0.0056	0.0149	Sep-70

21	Oct-70	UNION ELECTRIC CO	UEP	18	-0.03356	0	0.0055	-0.0391	Oct-70
21	Nov-70	UNION ELECTRIC CO	UEP	19.375	0.094167	0.32	0.0058	0.0884	Nov-70
21	Dec-70	UNION ELECTRIC CO	UEP	20.875	0.077419	0	0.0053	0.0721	Dec-70
21	Jan-71	UNION ELECTRIC CO	UEP	21.375	0.023952	0	0.0051	0.0189	Jan-71
21	Feb-71	UNION ELECTRIC CO	UEP	21	-0.01754	0	0.0046	-0.0221	Feb-71
21	Mar-71	UNION ELECTRIC CO	UEP	20.625	-0.00262	0.32	0.0056	-0.0082	Mar-71
21	Apr-71	UNION ELECTRIC CO	UEP	20.25	-0.01818	0	0.0048	-0.0230	Apr-71
21	May-71	UNION ELECTRIC CO	UEP	18.125	-0.08914	0.32	0.0047	-0.0938	May-71
21	Jun-71	UNION ELECTRIC CO	UEP	19.875	0.096552	0	0.0056	0.0910	Jun-71
21	Jul-71	UNION ELECTRIC CO	UEP	18.375	-0.07547	0	0.0052	-0.0807	Jul-71
21	Aug-71	UNION ELECTRIC CO	UEP	18.375	0.017415	0.32	0.0055	0.0119	Aug-71
21	Sep-71	UNION ELECTRIC CO	UEP	18.625	0.013605	0	0.0049	0.0087	Sep-71
21	Oct-71	UNION ELECTRIC CO	UEP	18.5	-0.00671	0	0.0047	-0.0114	Oct-71
21	Nov-71	UNION ELECTRIC CO	UEP	18	-0.00973	0.32	0.0051	-0.0148	Nov-71
21	Dec-71	UNION ELECTRIC CO	UEP	18.5	0.027778	0	0.0050	0.0228	Dec-71
21	Jan-72	UNION ELECTRIC CO	UEP	19.125	0.033784	0	0.0050	0.0288	Jan-72
21	Feb-72	UNION ELECTRIC CO	UEP	18.125	-0.03556	0.32	0.0047	-0.0403	Feb-72
21	Mar-72	UNION ELECTRIC CO	UEP	18.375	0.013793	0	0.0049	0.0089	Mar-72
21	Apr-72	UNION ELECTRIC CO	UEP	17.75	-0.03401	0	0.0048	-0.0388	Apr-72
21	May-72	UNION ELECTRIC CO	UEP	17.375	-0.0031	0.32	0.0055	-0.0086	May-72
21	Jun-72	UNION ELECTRIC CO	UEP	17.125	-0.01439	0	0.0049	-0.0193	Jun-72
21	Jul-72	UNION ELECTRIC CO	UEP	17	-0.0073	0	0.0051	-0.0124	Jul-72
21	Aug-72	UNION ELECTRIC CO	UEP	16.875	0.011471	0.32	0.0049	0.0066	Aug-72
21	Sep-72	UNION ELECTRIC CO	UEP	16.75	-0.00741	0	0.0047	-0.0121	Sep-72
21	Oct-72	UNION ELECTRIC CO	UEP	17.875	0.067164	0	0.0052	0.0620	Oct-72
21	Nov-72	UNION ELECTRIC CO	UEP	18.625	0.05986	0.32	0.0048	0.0551	Nov-72
21	Dec-72	UNION ELECTRIC CO	UEP	17.5	-0.0604	0	0.0045	-0.0649	Dec-72
21	Jan-73	UNION ELECTRIC CO	UEP	18.125	0.035714	0	0.0054	0.0303	Jan-73
21	Feb-73	UNION ELECTRIC CO	UEP	17.375	-0.02372	0.32	0.0051	-0.0288	Feb-73
21	Mar-73	UNION ELECTRIC CO	UEP	16.875	-0.02878	0	0.0056	-0.0344	Mar-73
21	Apr-73	UNION ELECTRIC CO	UEP	17	0.007407	0	0.0057	0.0017	Apr-73
21	May-73	UNION ELECTRIC CO	UEP	17	0.018824	0.32	0.0058	0.0130	May-73
21	Jun-73	UNION ELECTRIC CO	UEP	16.5	-0.02941	0	0.0055	-0.0349	Jun-73
21	Jul-73	UNION ELECTRIC CO	UEP	16.25	-0.01515	0	0.0061	-0.0213	Jul-73
21	Aug-73	UNION ELECTRIC CO	UEP	16	0.004308	0.32	0.0062	-0.0019	Aug-73
21	Sep-73	UNION ELECTRIC CO	UEP	16.5	0.03125	0	0.0055	0.0258	Sep-73

21	Oct-73	UNION ELECTRIC CO	UEP	16.125	-0.02273	0	0.0063	-0.0290	Oct-73
21	Nov-73	UNION ELECTRIC CO	UEP	14.75	-0.06543	0.32	0.0056	-0.0710	Nov-73
21	Dec-73	UNION ELECTRIC CO	UEP	14	-0.05085	0	0.0060	-0.0568	Dec-73
21	Jan-74	UNION ELECTRIC CO	UEP	15.125	0.080357	0	0.0061	0.0743	Jan-74
21	Feb-74	UNION ELECTRIC CO	UEP	15.5	0.04595	0.32	0.0055	0.0405	Feb-74
21	Mar-74	UNION ELECTRIC CO	UEP	14.875	-0.04032	0	0.0058	-0.0461	Mar-74
21	Apr-74	UNION ELECTRIC CO	UEP	13.125	-0.11765	0	0.0068	-0.1244	Apr-74
21	May-74	UNION ELECTRIC CO	UEP	11.75	-0.08038	0.32	0.0068	-0.0872	May-74
21	Jun-74	UNION ELECTRIC CO	UEP	12	0.021277	0	0.0061	0.0152	Jun-74
21	Jul-74	UNION ELECTRIC CO	UEP	11.875	-0.01042	0	0.0072	-0.0176	Jul-74
21	Aug-74	UNION ELECTRIC CO	UEP	10.25	-0.1099	0.32	0.0065	-0.1164	Aug-74
21	Sep-74	UNION ELECTRIC CO	UEP	9.875	-0.03659	0	0.0071	-0.0437	Sep-74
21	Oct-74	UNION ELECTRIC CO	UEP	10.25	0.037975	0	0.0070	0.0310	Oct-74
21	Nov-74	UNION ELECTRIC CO	UEP	9.375	-0.05415	0.32	0.0062	-0.0603	Nov-74
21	Dec-74	UNION ELECTRIC CO	UEP	9.5	0.013333	0	0.0067	0.0066	Dec-74
21	Jan-75	UNION ELECTRIC CO	UEP	10.875	0.144737	0	0.0068	0.1379	Jan-75
21	Feb-75	UNION ELECTRIC CO	UEP	10.75	0.017931	0.32	0.0060	0.0119	Feb-75
21	Mar-75	UNION ELECTRIC CO	UEP	10.625	-0.01163	0	0.0066	-0.0182	Mar-75
21	Apr-75	UNION ELECTRIC CO	UEP	11	0.035294	0	0.0067	0.0286	Apr-75
21	May-75	UNION ELECTRIC CO	UEP	12.5	0.136364	0	0.0067	0.1297	May-75
21	Jun-75	UNION ELECTRIC CO	UEP	13.25	0.0856	0.32	0.0070	0.0786	Jun-75
21	Jul-75	UNION ELECTRIC CO	UEP	12.625	-0.04717	0	0.0068	-0.0540	Jul-75
21	Aug-75	UNION ELECTRIC CO	UEP	12.5	0.015446	0.32	0.0065	0.0089	Aug-75
21	Sep-75	UNION ELECTRIC CO	UEP	12	-0.04	0	0.0073	-0.0473	Sep-75
21	Oct-75	UNION ELECTRIC CO	UEP	13.25	0.104167	0	0.0072	0.0970	Oct-75
21	Nov-75	UNION ELECTRIC CO	UEP	13.25	0.024151	0.32	0.0061	0.0181	Nov-75
21	Dec-75	UNION ELECTRIC CO	UEP	13.375	0.009434	0	0.0074	0.0020	Dec-75
21	Jan-76	UNION ELECTRIC CO	UEP	14.25	0.065421	0	0.0065	0.0589	Jan-76
21	Feb-76	UNION ELECTRIC CO	UEP	14.25	0	0	0.0060	-0.0060	Feb-76
21	Mar-76	UNION ELECTRIC CO	UEP	13.75	-0.01263	0.32	0.0071	-0.0197	Mar-76
21	Apr-76	UNION ELECTRIC CO	UEP	14.375	0.045455	0	0.0064	0.0391	Apr-76
21	May-76	UNION ELECTRIC CO	UEP	14.5	0.008696	0	0.0059	0.0028	May-76
21	Jun-76	UNION ELECTRIC CO	UEP	14.375	0.014828	0.34	0.0073	0.0075	Jun-76
21	Jul-76	UNION ELECTRIC CO	UEP	15	0.043478	0	0.0065	0.0370	Jul-76
21	Aug-76	UNION ELECTRIC CO	UEP	15.75	0.05	0	0.0069	0.0431	Aug-76
21	Sep-76	UNION ELECTRIC CO	UEP	15.75	0.021587	0.34	0.0064	0.0152	Sep-76

21	Oct-76	UNION ELECTRIC CO	UEP	15.375	-0.02381	0	0.0061	-0.0299	Oct-76
21	Nov-76	UNION ELECTRIC CO	UEP	15.5	0.00813	0	0.0066	0.0015	Nov-76
21	Dec-76	UNION ELECTRIC CO	UEP	15.75	0.038065	0.34	0.0063	0.0318	Dec-76
21	Jan-77	UNION ELECTRIC CO	UEP	16.125	0.02381	0	0.0059	0.0179	Jan-77
21	Feb-77	UNION ELECTRIC CO	UEP	15.5	-0.03876	0	0.0057	-0.0445	Feb-77
21	Mar-77	UNION ELECTRIC CO	UEP	15.25	0.005806	0.34	0.0065	-0.0007	Mar-77
21	Apr-77	UNION ELECTRIC CO	UEP	15.375	0.008197	0	0.0061	0.0021	Apr-77
21	May-77	UNION ELECTRIC CO	UEP	15.75	0.02439	0	0.0067	0.0177	May-77
21	Jun-77	UNION ELECTRIC CO	UEP	16	0.03746	0.34	0.0062	0.0313	Jun-77
21	Jul-77	UNION ELECTRIC CO	UEP	16.125	0.007812	0	0.0059	0.0019	Jul-77
21	Aug-77	UNION ELECTRIC CO	UEP	15.875	-0.0155	0	0.0067	-0.0222	Aug-77
21	Sep-77	UNION ELECTRIC CO	UEP	15.375	-0.01008	0.34	0.0061	-0.0162	Sep-77
21	Oct-77	UNION ELECTRIC CO	UEP	15.125	-0.01626	0	0.0063	-0.0226	Oct-77
21	Nov-77	UNION ELECTRIC CO	UEP	15.875	0.049587	0	0.0063	0.0433	Nov-77
21	Dec-77	UNION ELECTRIC CO	UEP	15	-0.0337	0.34	0.0062	-0.0399	Dec-77
21	Jan-78	UNION ELECTRIC CO	UEP	14.75	-0.01667	0	0.0069	-0.0236	Jan-78
21	Feb-78	UNION ELECTRIC CO	UEP	15	0.016949	0	0.0060	0.0109	Feb-78
21	Mar-78	UNION ELECTRIC CO	UEP	14.375	-0.019	0.34	0.0069	-0.0259	Mar-78
21	Apr-78	UNION ELECTRIC CO	UEP	14.375	0	0	0.0063	-0.0063	Apr-78
21	May-78	UNION ELECTRIC CO	UEP	14.125	-0.01739	0	0.0075	-0.0249	May-78
21	Jun-78	UNION ELECTRIC CO	UEP	13.875	0.006372	0.34	0.0069	-0.0005	Jun-78
21	Jul-78	UNION ELECTRIC CO	UEP	14.75	0.063063	0	0.0073	0.0558	Jul-78
21	Aug-78	UNION ELECTRIC CO	UEP	15.375	0.042373	0	0.0070	0.0354	Aug-78
21	Sep-78	UNION ELECTRIC CO	UEP	14.75	-0.01724	0.36	0.0065	-0.0237	Sep-78
21	Oct-78	UNION ELECTRIC CO	UEP	14.125	-0.04237	0	0.0073	-0.0497	Oct-78
21	Nov-78	UNION ELECTRIC CO	UEP	14.5	0.026549	0	0.0071	0.0194	Nov-78
21	Dec-78	UNION ELECTRIC CO	UEP	13.375	-0.05276	0.36	0.0068	-0.0596	Dec-78
21	Jan-79	UNION ELECTRIC CO	UEP	14.625	0.093458	0	0.0079	0.0856	Jan-79
21	Feb-79	UNION ELECTRIC CO	UEP	14.25	-0.02564	0	0.0065	-0.0321	Feb-79
21	Mar-79	UNION ELECTRIC CO	UEP	13.75	-0.00983	0.36	0.0074	-0.0172	Mar-79
21	Apr-79	UNION ELECTRIC CO	UEP	13.5	-0.01818	0	0.0076	-0.0258	Apr-79
21	May-79	UNION ELECTRIC CO	UEP	14	0.037037	0	0.0077	0.0293	May-79
21	Jun-79	UNION ELECTRIC CO	UEP	13.75	0.007857	0.36	0.0071	0.0008	Jun-79
21	Jul-79	UNION ELECTRIC CO	UEP	13.875	0.009091	0	0.0076	0.0015	Jul-79
21	Aug-79	UNION ELECTRIC CO	UEP	14.125	0.018018	0	0.0073	0.0107	Aug-79
21	Sep-79	UNION ELECTRIC CO	UEP	13.75	-0.00106	0.36	0.0068	-0.0079	Sep-79

21	Oct-79	UNION ELECTRIC CO	UEP	12	-0.12727	0	0.0082	-0.1355	Oct-79
21	Nov-79	UNION ELECTRIC CO	UEP	12.125	0.040417	0.36	0.0083	0.0321	Nov-79
21	Dec-79	UNION ELECTRIC CO	UEP	12	-0.01031	0	0.0083	-0.0186	Dec-79
21	Jan-80	UNION ELECTRIC CO	UEP	11.5	-0.04167	0	0.0083	-0.0500	Jan-80
21	Feb-80	UNION ELECTRIC CO	UEP	10.75	-0.06522	0	0.0084	-0.0736	Feb-80
21	Mar-80	UNION ELECTRIC CO	UEP	10	-0.03628	0.36	0.0099	-0.0462	Mar-80
21	Apr-80	UNION ELECTRIC CO	UEP	11.5	0.15	0	0.0100	0.1400	Apr-80
21	May-80	UNION ELECTRIC CO	UEP	12.75	0.108696	0	0.0087	0.1000	May-80
21	Jun-80	UNION ELECTRIC CO	UEP	12.25	-0.01098	0.36	0.0086	-0.0196	Jun-80
21	Jul-80	UNION ELECTRIC CO	UEP	12	-0.02041	0	0.0084	-0.0288	Jul-80
21	Aug-80	UNION ELECTRIC CO	UEP	12.25	0.020833	0	0.0081	0.0127	Aug-80
21	Sep-80	UNION ELECTRIC CO	UEP	11.5	-0.0302	0.38	0.0097	-0.0399	Sep-80
21	Oct-80	UNION ELECTRIC CO	UEP	10.75	-0.06522	0	0.0097	-0.0749	Oct-80
21	Nov-80	UNION ELECTRIC CO	UEP	10.625	0.023721	0.38	0.0091	0.0146	Nov-80
21	Dec-80	UNION ELECTRIC CO	UEP	10.875	0.023529	0	0.0108	0.0127	Dec-80
21	Jan-81	UNION ELECTRIC CO	UEP	11	0.011494	0	0.0094	0.0021	Jan-81
21	Feb-81	UNION ELECTRIC CO	UEP	11	0	0	0.0088	-0.0088	Feb-81
21	Mar-81	UNION ELECTRIC CO	UEP	10.875	0.023182	0.38	0.0111	0.0121	Mar-81
21	Apr-81	UNION ELECTRIC CO	UEP	10.5	-0.03448	0	0.0101	-0.0446	Apr-81
21	May-81	UNION ELECTRIC CO	UEP	11.125	0.059524	0	0.0104	0.0491	May-81
21	Jun-81	UNION ELECTRIC CO	UEP	11	0.022921	0.38	0.0109	0.0120	Jun-81
21	Jul-81	UNION ELECTRIC CO	UEP	10.75	-0.02273	0	0.0109	-0.0336	Jul-81
21	Aug-81	UNION ELECTRIC CO	UEP	10.75	0	0	0.0110	-0.0110	Aug-81
21	Sep-81	UNION ELECTRIC CO	UEP	10.25	-0.01116	0.38	0.0114	-0.0226	Sep-81
21	Oct-81	UNION ELECTRIC CO	UEP	10.5	0.02439	0	0.0117	0.0127	Oct-81
21	Nov-81	UNION ELECTRIC CO	UEP	11	0.08381	0.38	0.0113	0.0725	Nov-81
21	Dec-81	UNION ELECTRIC CO	UEP	10.875	-0.01136	0	0.0100	-0.0214	Dec-81
21	Jan-82	UNION ELECTRIC CO	UEP	10.875	0	0	0.0108	-0.0108	Jan-82
21	Feb-82	UNION ELECTRIC CO	UEP	11.5	0.057471	0	0.0103	0.0472	Feb-82
21	Mar-82	UNION ELECTRIC CO	UEP	11	-0.01044	0.38	0.0124	-0.0228	Mar-82
21	Apr-82	UNION ELECTRIC CO	UEP	11.875	0.079545	0	0.0112	0.0683	Apr-82
21	May-82	UNION ELECTRIC CO	UEP	12	0.010526	0	0.0101	0.0004	May-82
21	Jun-82	UNION ELECTRIC CO	UEP	11.5	-0.01	0.38	0.0120	-0.0220	Jun-82
21	Jul-82	UNION ELECTRIC CO	UEP	11.75	0.021739	0	0.0114	0.0103	Jul-82
21	Aug-82	UNION ELECTRIC CO	UEP	13.125	0.117021	0	0.0112	0.1058	Aug-82
21	Sep-82	UNION ELECTRIC CO	UEP	12.75	0.002667	0.41	0.0100	-0.0073	Sep-82

21	Oct-82	UNION ELECTRIC CO	UEP	13.75	0.078431	0	0.0091	0.0693	Oct-82
21	Nov-82	UNION ELECTRIC CO	UEP	13.375	0.002545	0.41	0.0094	-0.0069	Nov-82
21	Dec-82	UNION ELECTRIC CO	UEP	13.75	0.028037	0	0.0093	0.0187	Dec-82
21	Jan-83	UNION ELECTRIC CO	UEP	14.5	0.054545	0	0.0087	0.0458	Jan-83
21	Feb-83	UNION ELECTRIC CO	UEP	15	0.034483	0	0.0081	0.0264	Feb-83
21	Mar-83	UNION ELECTRIC CO	UEP	14	-0.03933	0.41	0.0089	-0.0482	Mar-83
21	Apr-83	UNION ELECTRIC CO	UEP	15.125	0.080357	0	0.0085	0.0719	Apr-83
21	May-83	UNION ELECTRIC CO	UEP	15.875	0.049587	0	0.0091	0.0405	May-83
21	Jun-83	UNION ELECTRIC CO	UEP	14	-0.09228	0.41	0.0090	-0.1013	Jun-83
21	Jul-83	UNION ELECTRIC CO	UEP	14.875	0.0625	0	0.0088	0.0537	Jul-83
21	Aug-83	UNION ELECTRIC CO	UEP	14.625	-0.01681	0	0.0103	-0.0271	Aug-83
21	Sep-83	UNION ELECTRIC CO	UEP	14.625	0.028034	0.41	0.0096	0.0184	Sep-83
21	Oct-83	UNION ELECTRIC CO	UEP	15.625	0.068376	0	0.0095	0.0589	Oct-83
21	Nov-83	UNION ELECTRIC CO	UEP	14.875	-0.048	0	0.0094	-0.0574	Nov-83
21	Dec-83	UNION ELECTRIC CO	UEP	12.875	-0.10555	0.43	0.0094	-0.1149	Dec-83
21	Jan-84	UNION ELECTRIC CO	UEP	13.25	0.029126	0	0.0103	0.0188	Jan-84
21	Feb-84	UNION ELECTRIC CO	UEP	13	-0.01887	0	0.0092	-0.0281	Feb-84
21	Mar-84	UNION ELECTRIC CO	UEP	12.5	-0.00539	0.43	0.0098	-0.0152	Mar-84
21	Apr-84	UNION ELECTRIC CO	UEP	12.125	-0.03	0	0.0104	-0.0404	Apr-84
21	May-84	UNION ELECTRIC CO	UEP	12.625	0.041237	0	0.0103	0.0309	May-84
21	Jun-84	UNION ELECTRIC CO	UEP	12.75	0.04396	0.43	0.0106	0.0334	Jun-84
21	Jul-84	UNION ELECTRIC CO	UEP	13	0.019608	0	0.0116	0.0080	Jul-84
21	Aug-84	UNION ELECTRIC CO	UEP	14	0.076923	0	0.0106	0.0663	Aug-84
21	Sep-84	UNION ELECTRIC CO	UEP	14	0.030714	0.43	0.0094	0.0213	Sep-84
21	Oct-84	UNION ELECTRIC CO	UEP	14.125	0.008929	0	0.0108	-0.0019	Oct-84
21	Nov-84	UNION ELECTRIC CO	UEP	16.125	0.141593	0	0.0091	0.1325	Nov-84
21	Dec-84	UNION ELECTRIC CO	UEP	16.5	0.049922	0.43	0.0098	0.0401	Dec-84
21	Jan-85	UNION ELECTRIC CO	UEP	16.75	0.015152	0	0.0096	0.0056	Jan-85
21	Feb-85	UNION ELECTRIC CO	UEP	16.375	-0.02239	0	0.0082	-0.0306	Feb-85
21	Mar-85	UNION ELECTRIC CO	UEP	17.125	0.072061	0.43	0.0094	0.0627	Mar-85
21	Apr-85	UNION ELECTRIC CO	UEP	17.625	0.029197	0	0.0102	0.0190	Apr-85
21	May-85	UNION ELECTRIC CO	UEP	18.75	0.06383	0	0.0097	0.0541	May-85
21	Jun-85	UNION ELECTRIC CO	UEP	19.25	0.0496	0.43	0.0080	0.0416	Jun-85
21	Jul-85	UNION ELECTRIC CO	UEP	18.375	-0.04546	0	0.0094	-0.0549	Jul-85
21	Aug-85	UNION ELECTRIC CO	UEP	19.375	0.054422	0	0.0085	0.0459	Aug-85
21	Sep-85	UNION ELECTRIC CO	UEP	16.875	-0.10529	0.46	0.0088	-0.1141	Sep-85

21	Oct-85	UNION ELECTRIC CO	UEP	19.625	0.162963	0	0.0089	0.1541	Oct-85
21	Nov-85	UNION ELECTRIC CO	UEP	20.25	0.031847	0	0.0081	0.0237	Nov-85
21	Dec-85	UNION ELECTRIC CO	UEP	21.375	0.078272	0.46	0.0086	0.0697	Dec-85
21	Jan-86	UNION ELECTRIC CO	UEP	22.5	0.052632	0	0.0079	0.0447	Jan-86
21	Feb-86	UNION ELECTRIC CO	UEP	24.75	0.1	0	0.0073	0.0927	Feb-86
21	Mar-86	UNION ELECTRIC CO	UEP	25.25	0.038788	0.46	0.0071	0.0317	Mar-86
21	Apr-86	UNION ELECTRIC CO	UEP	23.375	-0.07426	0	0.0063	-0.0806	Apr-86
21	May-86	UNION ELECTRIC CO	UEP	24.875	0.064171	0	0.0062	0.0580	May-86
21	Jun-86	UNION ELECTRIC CO	UEP	25.25	0.033568	0.46	0.0070	0.0266	Jun-86
21	Jul-86	UNION ELECTRIC CO	UEP	28.375	0.123762	0	0.0066	0.1172	Jul-86
21	Aug-86	UNION ELECTRIC CO	UEP	31.125	0.096916	0	0.0063	0.0906	Aug-86
21	Sep-86	UNION ELECTRIC CO	UEP	28	-0.08562	0.46	0.0065	-0.0921	Sep-86
21	Oct-86	UNION ELECTRIC CO	UEP	29.375	0.049107	0	0.0069	0.0422	Oct-86
21	Nov-86	UNION ELECTRIC CO	UEP	30.75	0.046809	0	0.0059	0.0409	Nov-86
21	Dec-86	UNION ELECTRIC CO	UEP	28.75	-0.04943	0.48	0.0070	-0.0564	Dec-86
21	Jan-87	UNION ELECTRIC CO	UEP	31.375	0.091304	0	0.0064	0.0849	Jan-87
21	Feb-87	UNION ELECTRIC CO	UEP	28.625	-0.08765	0	0.0059	-0.0935	Feb-87
21	Mar-87	UNION ELECTRIC CO	UEP	29.25	0.038603	0.48	0.0066	0.0320	Mar-87
21	Apr-87	UNION ELECTRIC CO	UEP	26.875	-0.0812	0	0.0065	-0.0877	Apr-87
21	May-87	UNION ELECTRIC CO	UEP	24.5	-0.08837	0	0.0066	-0.0950	May-87
21	Jun-87	UNION ELECTRIC CO	UEP	24.5	0.019592	0.48	0.0075	0.0121	Jun-87
21	Jul-87	UNION ELECTRIC CO	UEP	23.375	-0.04592	0	0.0073	-0.0532	Jul-87
21	Aug-87	UNION ELECTRIC CO	UEP	24.875	0.064171	0	0.0075	0.0567	Aug-87
21	Sep-87	UNION ELECTRIC CO	UEP	23.875	-0.02091	0.48	0.0075	-0.0284	Sep-87
21	Oct-87	UNION ELECTRIC CO	UEP	23	-0.03665	0	0.0079	-0.0445	Oct-87
21	Nov-87	UNION ELECTRIC CO	UEP	22.5	-0.02174	0	0.0075	-0.0292	Nov-87
21	Dec-87	UNION ELECTRIC CO	UEP	22.375	0.015778	0.48	0.0078	0.0080	Dec-87
21	Jan-88	UNION ELECTRIC CO	UEP	24.125	0.078212	0	0.0072	0.0710	Jan-88
21	Feb-88	UNION ELECTRIC CO	UEP	24.375	0.010363	0	0.0071	0.0033	Feb-88
21	Mar-88	UNION ELECTRIC CO	UEP	23.125	-0.03159	0.48	0.0072	-0.0388	Mar-88
21	Apr-88	UNION ELECTRIC CO	UEP	22.25	-0.03784	0	0.0070	-0.0448	Apr-88
21	May-88	UNION ELECTRIC CO	UEP	23.75	0.067416	0	0.0078	0.0596	May-88
21	Jun-88	UNION ELECTRIC CO	UEP	23.25	-0.00084	0.48	0.0076	-0.0084	Jun-88
21	Jul-88	UNION ELECTRIC CO	UEP	22.75	-0.02151	0	0.0071	-0.0286	Jul-88
21	Aug-88	UNION ELECTRIC CO	UEP	23.125	0.016484	0	0.0083	0.0082	Aug-88
21	Sep-88	UNION ELECTRIC CO	UEP	23.625	0.042378	0.48	0.0076	0.0348	Sep-88

21	Oct-88	UNION ELECTRIC CO	UEP	24.5	0.037037	0	0.0076	0.0294	Oct-88
21	Nov-88	UNION ELECTRIC CO	UEP	24.625	0.005102	0	0.0070	-0.0019	Nov-88
21	Dec-88	UNION ELECTRIC CO	UEP	24.125	0	0.5	0.0075	-0.0075	Dec-88
21	Jan-89	UNION ELECTRIC CO	UEP	23.875	-0.01036	0	0.0080	-0.0184	Jan-89
21	Feb-89	UNION ELECTRIC CO	UEP	23.5	-0.01571	0	0.0069	-0.0226	Feb-89
21	Mar-89	UNION ELECTRIC CO	UEP	23.875	0.037234	0.5	0.0079	0.0293	Mar-89
21	Apr-89	UNION ELECTRIC CO	UEP	24.125	0.010471	0	0.0070	0.0035	Apr-89
21	May-89	UNION ELECTRIC CO	UEP	25.25	0.046632	0	0.0080	0.0386	May-89
21	Jun-89	UNION ELECTRIC CO	UEP	26.25	0.059406	0.5	0.0070	0.0524	Jun-89
21	Jul-89	UNION ELECTRIC CO	UEP	27.375	0.042857	0	0.0068	0.0361	Jul-89
21	Aug-89	UNION ELECTRIC CO	UEP	26.75	-0.00457	0.5	0.0066	-0.0112	Aug-89
21	Sep-89	UNION ELECTRIC CO	UEP	26.75	0	0	0.0065	-0.0065	Sep-89
21	Oct-89	UNION ELECTRIC CO	UEP	27.25	0.018692	0	0.0072	0.0115	Oct-89
21	Nov-89	UNION ELECTRIC CO	UEP	27.75	0.018349	0	0.0064	0.0119	Nov-89
21	Dec-89	UNION ELECTRIC CO	UEP	28.625	0.05027	0.52	0.0064	0.0439	Dec-89
21	Jan-90	UNION ELECTRIC CO	UEP	26.875	-0.06114	0	0.0073	-0.0684	Jan-90
21	Feb-90	UNION ELECTRIC CO	UEP	27.5	0.023256	0	0.0066	0.0167	Feb-90
21	Mar-90	UNION ELECTRIC CO	UEP	27.125	0.005273	0.52	0.0071	-0.0018	Mar-90
21	Apr-90	UNION ELECTRIC CO	UEP	25.25	-0.06912	0	0.0075	-0.0766	Apr-90
21	May-90	UNION ELECTRIC CO	UEP	25.875	0.045347	0.52	0.0075	0.0378	May-90
21	Jun-90	UNION ELECTRIC CO	UEP	26.375	0.019324	0	0.0068	0.0125	Jun-90
21	Jul-90	UNION ELECTRIC CO	UEP	26.625	0.009479	0	0.0074	0.0021	Jul-90
21	Aug-90	UNION ELECTRIC CO	UEP	25.125	-0.03681	0.52	0.0071	-0.0439	Aug-90
21	Sep-90	UNION ELECTRIC CO	UEP	25.625	0.0199	0	0.0069	0.0130	Sep-90
21	Oct-90	UNION ELECTRIC CO	UEP	28.875	0.126829	0	0.0081	0.1187	Oct-90
21	Nov-90	UNION ELECTRIC CO	UEP	28.625	0.010043	0.54	0.0071	0.0029	Nov-90
21	Dec-90	UNION ELECTRIC CO	UEP	29.75	0.039301	0	0.0072	0.0321	Dec-90
21	Jan-91	UNION ELECTRIC CO	UEP	29.625	-0.0042	0	0.0071	-0.0113	Jan-91
21	Feb-91	UNION ELECTRIC CO	UEP	30.25	0.039325	0.54	0.0064	0.0329	Feb-91
21	Mar-91	UNION ELECTRIC CO	UEP	30.125	-0.00413	0	0.0064	-0.0105	Mar-91
21	Apr-91	UNION ELECTRIC CO	UEP	30.125	0	0	0.0076	-0.0076	Apr-91
21	May-91	UNION ELECTRIC CO	UEP	30	0.013776	0.54	0.0068	0.0070	May-91
21	Jun-91	UNION ELECTRIC CO	UEP	29.75	-0.00833	0	0.0063	-0.0146	Jun-91
21	Jul-91	UNION ELECTRIC CO	UEP	31.25	0.05042	0	0.0076	0.0428	Jul-91
21	Aug-91	UNION ELECTRIC CO	UEP	31.5	0.02528	0.54	0.0068	0.0185	Aug-91
21	Sep-91	UNION ELECTRIC CO	UEP	34.125	0.083333	0	0.0068	0.0765	Sep-91

21	Oct-91	UNION ELECTRIC CO	UEP	34.625	0.014652	0	0.0065	0.0082	Oct-91
21	Nov-91	UNION ELECTRIC CO	UEP	35.625	0.045054	0.56	0.0060	0.0391	Nov-91
21	Dec-91	UNION ELECTRIC CO	UEP	38.625	0.084211	0	0.0068	0.0774	Dec-91
21	Jan-92	UNION ELECTRIC CO	UEP	35.125	-0.09062	0	0.0061	-0.0967	Jan-92
21	Feb-92	UNION ELECTRIC CO	UEP	34	-0.03203	0	0.0059	-0.0379	Feb-92
21	Mar-92	UNION ELECTRIC CO	UEP	33	-0.01294	0.56	0.0067	-0.0196	Mar-92
21	Apr-92	UNION ELECTRIC CO	UEP	33.25	0.007576	0	0.0065	0.0011	Apr-92
21	May-92	UNION ELECTRIC CO	UEP	35.625	0.071429	0	0.0061	0.0653	May-92
21	Jun-92	UNION ELECTRIC CO	UEP	35.875	0.022737	0.56	0.0067	0.0160	Jun-92
21	Jul-92	UNION ELECTRIC CO	UEP	37.625	0.04878	0	0.0063	0.0425	Jul-92
21	Aug-92	UNION ELECTRIC CO	UEP	37.25	-0.00997	0	0.0060	-0.0160	Aug-92
21	Sep-92	UNION ELECTRIC CO	UEP	37.125	0.011678	0.56	0.0058	0.0059	Sep-92
21	Oct-92	UNION ELECTRIC CO	UEP	36.75	-0.0101	0	0.0057	-0.0158	Oct-92
21	Nov-92	UNION ELECTRIC CO	UEP	36.5	-0.0068	0	0.0061	-0.0129	Nov-92
21	Dec-92	UNION ELECTRIC CO	UEP	37.375	0.039863	0.58	0.0063	0.0336	Dec-92
21	Jan-93	UNION ELECTRIC CO	UEP	37.875	0.013378	0	0.0059	0.0075	Jan-93
21	Feb-93	UNION ELECTRIC CO	UEP	40.25	0.062706	0	0.0055	0.0572	Feb-93
21	Mar-93	UNION ELECTRIC CO	UEP	39.125	-0.01354	0.58	0.0063	-0.0198	Mar-93
21	Apr-93	UNION ELECTRIC CO	UEP	39.125	0	0	0.0057	-0.0057	Apr-93
21	May-93	UNION ELECTRIC CO	UEP	40.625	0.038339	0	0.0052	0.0331	May-93
21	Jun-93	UNION ELECTRIC CO	UEP	41.375	0.032738	0.58	0.0062	0.0265	Jun-93
21	Jul-93	UNION ELECTRIC CO	UEP	42.125	0.018127	0	0.0054	0.0127	Jul-93
21	Aug-93	UNION ELECTRIC CO	UEP	44.375	0.053412	0	0.0056	0.0478	Aug-93
21	Sep-93	UNION ELECTRIC CO	UEP	44	0.00462	0.58	0.0050	-0.0004	Sep-93
21	Oct-93	UNION ELECTRIC CO	UEP	41.75	-0.05114	0	0.0049	-0.0560	Oct-93
21	Nov-93	UNION ELECTRIC CO	UEP	38.625	-0.07485	0	0.0053	-0.0802	Nov-93
21	Dec-93	UNION ELECTRIC CO	UEP	39.25	0.031586	0.595	0.0055	0.0261	Dec-93
21	Jan-94	UNION ELECTRIC CO	UEP	38.5	-0.01911	0	0.0055	-0.0246	Jan-94
21	Feb-94	UNION ELECTRIC CO	UEP	37	-0.03896	0	0.0049	-0.0439	Feb-94
21	Mar-94	UNION ELECTRIC CO	UEP	35.125	-0.0346	0.595	0.0058	-0.0404	Mar-94
21	Apr-94	UNION ELECTRIC CO	UEP	35.125	0	0	0.0057	-0.0057	Apr-94
21	May-94	UNION ELECTRIC CO	UEP	33.625	-0.04271	0	0.0063	-0.0490	May-94
21	Jun-94	UNION ELECTRIC CO	UEP	31.625	-0.04178	0.595	0.0061	-0.0479	Jun-94
21	Jul-94	UNION ELECTRIC CO	UEP	34.5	0.090909	0	0.0060	0.0849	Jul-94
21	Aug-94	UNION ELECTRIC CO	UEP	35.75	0.036232	0	0.0066	0.0296	Aug-94
21	Sep-94	UNION ELECTRIC CO	UEP	35	-0.00434	0.595	0.0061	-0.0104	Sep-94

21	Oct-94	UNION ELECTRIC CO	UEP	35.875	0.025	0	0.0066	0.0184	Oct-94
21	Nov-94	UNION ELECTRIC CO	UEP	35.875	0	0	0.0064	-0.0064	Nov-94
21	Dec-94	UNION ELECTRIC CO	UEP	35.375	0.003066	0.61	0.0066	-0.0035	Dec-94
21	Jan-95	UNION ELECTRIC CO	UEP	37.125	0.04947	0	0.0070	0.0425	Jan-95
21	Feb-95	UNION ELECTRIC CO	UEP	37.875	0.020202	0	0.0059	0.0143	Feb-95
21	Mar-95	UNION ELECTRIC CO	UEP	35.375	-0.0499	0.61	0.0064	-0.0563	Mar-95
21	Apr-95	UNION ELECTRIC CO	UEP	35.625	0.007067	0	0.0058	0.0013	Apr-95
21	May-95	UNION ELECTRIC CO	UEP	37.875	0.063158	0	0.0065	0.0567	May-95
21	Jun-95	UNION ELECTRIC CO	UEP	37.25	-0.0004	0.61	0.0054	-0.0058	Jun-95
21	Jul-95	UNION ELECTRIC CO	UEP	35.5	-0.04698	0	0.0056	-0.0526	Jul-95
21	Aug-95	UNION ELECTRIC CO	UEP	35.625	0.003521	0	0.0057	-0.0022	Aug-95
21	Sep-95	UNION ELECTRIC CO	UEP	37.375	0.066246	0.61	0.0052	0.0610	Sep-95
21	Oct-95	UNION ELECTRIC CO	UEP	39	0.043478	0	0.0057	0.0378	Oct-95
21	Nov-95	UNION ELECTRIC CO	UEP	40.125	0.028846	0	0.0051	0.0237	Nov-95
21	Dec-95	UNION ELECTRIC CO	UEP	41.75	0.056075	0.625	0.0049	0.0512	Dec-95
21	Jan-96	UNION ELECTRIC CO	UEP	42.625	0.020958	0	0.0054	0.0156	Jan-96
21	Feb-96	UNION ELECTRIC CO	UEP	42.25	-0.0088	0	0.0048	-0.0136	Feb-96
21	Mar-96	UNION ELECTRIC CO	UEP	41	-0.01479	0.625	0.0052	-0.0200	Mar-96
21	Apr-96	UNION ELECTRIC CO	UEP	38.625	-0.05793	0	0.0059	-0.0638	Apr-96
21	May-96	UNION ELECTRIC CO	UEP	39.375	0.019417	0	0.0058	0.0136	May-96
21	Jun-96	UNION ELECTRIC CO	UEP	40.25	0.038095	0.625	0.0054	0.0327	Jun-96
21	Jul-96	UNION ELECTRIC CO	UEP	37.625	-0.06522	0	0.0062	-0.0714	Jul-96
21	Aug-96	UNION ELECTRIC CO	UEP	37.375	-0.00665	0	0.0057	-0.0123	Aug-96
21	Sep-96	UNION ELECTRIC CO	UEP	37	0.006689	0.625	0.0060	0.0007	Sep-96
21	Oct-96	UNION ELECTRIC CO	UEP	38.625	0.043919	0	0.0058	0.0381	Oct-96
21	Nov-96	UNION ELECTRIC CO	UEP	39.75	0.029126	0	0.0052	0.0239	Nov-96
21	Dec-96	UNION ELECTRIC CO	UEP	38.5	-0.01547	0.635	0.0056	-0.0211	Dec-96
21	Jan-97	UNION ELECTRIC CO	UEP	38	-0.01299	0	0.0056	-0.0186	Jan-97
21	Feb-97	UNION ELECTRIC CO	UEP	38.375	0.009868	0	0.0051	0.0048	Feb-97
21	Mar-97	UNION ELECTRIC CO	UEP	36.875	-0.02254	0.635	0.0059	-0.0284	Mar-97
21	Apr-97	UNION ELECTRIC CO	UEP	35.625	-0.0339	0	0.0059	-0.0398	Apr-97
21	May-97	UNION ELECTRIC CO	UEP	36.625	0.02807	0	0.0058	0.0223	May-97
21	Jun-97	UNION ELECTRIC CO	UEP	37.6875	0.046348	0.635	0.0059	0.0404	Jun-97
21	Jul-97	UNION ELECTRIC CO	UEP	38.5	0.021559	0	0.0058	0.0158	Jul-97
21	Aug-97	UNION ELECTRIC CO	UEP	37.1875	-0.03409	0	0.0049	-0.0390	Aug-97
21	Sep-97	UNION ELECTRIC CO	UEP	38.4375	0.050689	0.635	0.0058	0.0449	Sep-97

21	Oct-97	UNION ELECTRIC CO	UEP	37.6875	-0.01951	0	0.0054	-0.0249	Oct-97
21	Nov-97	UNION ELECTRIC CO	UEP	39.8125	0.073234	0.635	0.0047	0.0685	Nov-97
21	Dec-97	UNION ELECTRIC CO	UEP	43.25	0.086342	0	0.0054	0.0809	Dec-97
21	Jan-98	AMEREN CORP	AEE	36.625	-0.15318	0	0.0048	-0.1580	Jan-98
21	Feb-98	AMEREN CORP	AEE	38.4375	0.049488	0	0.0044	0.0451	Feb-98
21	Mar-98	AMEREN CORP	AEE	42.125	0.112455	0.635	0.0052	0.1073	Mar-98
21	Apr-98	AMEREN CORP	AEE	39.625	-0.05935	0	0.0049	-0.0642	Apr-98
21	May-98	AMEREN CORP	AEE	39.125	-0.01262	0	0.0048	-0.0174	May-98
21	Jun-98	AMEREN CORP	AEE	39.75	0.032204	0.635	0.0052	0.0270	Jun-98
21	Jul-98	AMEREN CORP	AEE	37.8125	-0.04874	0	0.0049	-0.0536	Jul-98
21	Aug-98	AMEREN CORP	AEE	39.5625	0.046281	0	0.0048	0.0415	Aug-98
21	Sep-98	AMEREN CORP	AEE	41.9375	0.076082	0.635	0.0044	0.0717	Sep-98
21	Oct-98	AMEREN CORP	AEE	39.9375	-0.04769	0	0.0042	-0.0519	Oct-98
21	Nov-98	AMEREN CORP	AEE	41.1875	0.031299	0	0.0045	0.0268	Nov-98
21	Dec-98	AMEREN CORP	AEE	42.6875	0.051836	0.635	0.0045	0.0473	Dec-98
21	Jan-99	AMEREN CORP	AEE	39.25	-0.08053	0	0.0042	-0.0847	Jan-99
21	Feb-99	AMEREN CORP	AEE	37.3125	-0.04936	0	0.0040	-0.0534	Feb-99
21	Mar-99	AMEREN CORP	AEE	36.1875	-0.01313	0.635	0.0053	-0.0184	Mar-99
21	Apr-99	AMEREN CORP	AEE	38.6875	0.069085	0	0.0048	0.0643	Apr-99
21	May-99	AMEREN CORP	AEE	40.9375	0.058158	0	0.0045	0.0537	May-99
21	Jun-99	AMEREN CORP	AEE	38.375	-0.04708	0.635	0.0055	-0.0526	Jun-99
21	Jul-99	AMEREN CORP	AEE	39.25	0.022801	0	0.0051	0.0177	Jul-99
21	Aug-99	AMEREN CORP	AEE	40.0625	0.020701	0	0.0054	0.0153	Aug-99
21	Sep-99	AMEREN CORP	AEE	37.8125	-0.04031	0.635	0.0052	-0.0455	Sep-99
21	Oct-99	AMEREN CORP	AEE	37.8125	0	0	0.0050	-0.0050	Oct-99
21	Nov-99	AMEREN CORP	AEE	34.625	-0.0843	0	0.0056	-0.0899	Nov-99
21	Dec-99	AMEREN CORP	AEE	32.75	-0.03581	0.635	0.0055	-0.0413	Dec-99
21	Jan-00	AMEREN CORP	AEE	32.5625	-0.00573	0	0.0057	-0.0114	Jan-00
21	Feb-00	AMEREN CORP	AEE	30	-0.0787	0	0.0051	-0.0838	Feb-00
21	Mar-00	AMEREN CORP	AEE	30.9375	0.052417	0.635	0.0054	0.0470	Mar-00
21	Apr-00	AMEREN CORP	AEE	36.6875	0.185859	0	0.0047	0.1812	Apr-00
21	May-00	AMEREN CORP	AEE	36.6875	0	0	0.0056	-0.0056	May-00
21	Jun-00	AMEREN CORP	AEE	33.75	-0.06276	0.635	0.0052	-0.0680	Jun-00
21	Jul-00	AMEREN CORP	AEE	36.1875	0.072222	0	0.0052	0.0670	Jul-00
21	Aug-00	AMEREN CORP	AEE	40.4375	0.117444	0	0.0050	0.1124	Aug-00
21	Sep-00	AMEREN CORP	AEE	41.875	0.051252	0.635	0.0046	0.0467	Sep-00

21	Oct-00	AMEREN CORP	AEE	39.75	-0.05075	0	0.0053	-0.0560	Oct-00
21	Nov-00	AMEREN CORP	AEE	44.375	0.116352	0	0.0048	0.1116	Nov-00
21	Dec-00	AMEREN CORP	AEE	46.3125	0.057972	0.635	0.0045	0.0535	Dec-00
21	Jan-01	AMEREN CORP	AEE	40.78	-0.11946	0	0.0049	-0.1244	Jan-01
21	Feb-01	AMEREN CORP	AEE	42.17	0.034085	0	0.0042	0.0299	Feb-01
21	Mar-01	AMEREN CORP	AEE	40.95	-0.01387	0.635	0.0045	-0.0184	Mar-01
21	Apr-01	AMEREN CORP	AEE	41.97	0.024908	0	0.0047	0.0202	Apr-01
21	May-01	AMEREN CORP	AEE	44.6	0.062664	0	0.0050	0.0577	May-01
21	Jun-01	AMEREN CORP	AEE	42.7	-0.02836	0.635	0.0047	-0.0331	Jun-01
21	Jul-01	AMEREN CORP	AEE	39.29	-0.07986	0	0.0052	-0.0851	Jul-01
21	Aug-01	AMEREN CORP	AEE	41.25	0.049885	0	0.0046	0.0453	Aug-01
21	Sep-01	AMEREN CORP	AEE	38.4	-0.0537	0.635	0.0041	-0.0578	Sep-01
21	Oct-01	AMEREN CORP	AEE	40.1	0.044271	0	0.0048	0.0395	Oct-01
21	Nov-01	AMEREN CORP	AEE	40.88	0.019451	0	0.0041	0.0154	Nov-01
21	Dec-01	AMEREN CORP	AEE	42.3	0.050269	0.635	0.0046	0.0457	Dec-01
21	Jan-02	AMEREN CORP	AEE	42.87	0.013475	0	0.0048	0.0087	Jan-02
21	Feb-02	AMEREN CORP	AEE	40.74	-0.04969	0	0.0043	-0.0540	Feb-02
21	Mar-02	AMEREN CORP	AEE	42.75	0.064924	0.635	0.0043	0.0606	Mar-02
21	Apr-02	AMEREN CORP	AEE	41.76	-0.02316	0	0.0054	-0.0286	Apr-02
21	May-02	AMEREN CORP	AEE	43.72	0.046935	0	0.0049	0.0420	May-02
21	Jun-02	AMEREN CORP	AEE	43.01	-0.00172	0.635	0.0044	-0.0061	Jun-02
21	Jul-02	AMEREN CORP	AEE	43.7	0.016043	0	0.0051	0.0109	Jul-02
21	Aug-02	AMEREN CORP	AEE	44.05	0.008009	0	0.0044	0.0036	Aug-02
21	Sep-02	AMEREN CORP	AEE	41.65	-0.04007	0.635	0.0042	-0.0443	Sep-02
21	Oct-02	AMEREN CORP	AEE	40.4	-0.03001	0	0.0040	-0.0340	Oct-02
21	Nov-02	AMEREN CORP	AEE	41.35	0.023515	0	0.0040	0.0195	Nov-02
21	Dec-02	AMEREN CORP	AEE	41.57	0.020677	0.635	0.0045	0.0162	Dec-02
21	Jan-03	AMEREN CORP	AEE	39.33	-0.05389	0	0.0041	-0.0580	Jan-03
21	Feb-03	AMEREN CORP	AEE	38.99	-0.00865	0	0.0038	-0.0124	Feb-03
21	Mar-03	AMEREN CORP	AEE	39.05	0.017825	0.635	0.0040	0.0138	Mar-03
21	Apr-03	AMEREN CORP	AEE	40.98	0.049424	0	0.0040	0.0454	Apr-03
21	May-03	AMEREN CORP	AEE	45.5	0.110298	0	0.0039	0.1064	May-03
21	Jun-03	AMEREN CORP	AEE	44.1	-0.01681	0.635	0.0036	-0.0204	Jun-03
21	Jul-03	AMEREN CORP	AEE	41.76	-0.05306	0	0.0038	-0.0569	Jul-03
21	Aug-03	AMEREN CORP	AEE	42.5	0.01772	0	0.0042	0.0135	Aug-03
21	Sep-03	AMEREN CORP	AEE	42.91	0.024588	0.635	0.0046	0.0200	Sep-03

21	Oct-03	AMEREN CORP	AEE	44.65	0.04055	0	0.0041	0.0365	Oct-03
21	Nov-03	AMEREN CORP	AEE	44.13	-0.01165	0	0.0039	-0.0155	Nov-03
21	Dec-03	AMEREN CORP	AEE	46	0.056764	0.635	0.0047	0.0521	Dec-03
21	Jan-04	AMEREN CORP	AEE	48.29	0.049783	0	0.0042	0.0456	Jan-04
21	Feb-04	AMEREN CORP	AEE	47.4	-0.01843	0	0.0038	-0.0222	Feb-04
21	Mar-04	AMEREN CORP	AEE	46.09	-0.01424	0.635	0.0043	-0.0185	Mar-04
21	Apr-04	AMEREN CORP	AEE	43.72	-0.05142	0	0.0039	-0.0553	Apr-04
21	May-04	AMEREN CORP	AEE	44.2	0.010979	0	0.0040	0.0070	May-04
21	Jun-04	AMEREN CORP	AEE	42.96	-0.01369	0.635	0.0048	-0.0185	Jun-04
21	Jul-04	AMEREN CORP	AEE	44.69	0.04027	0	0.0043	0.0360	Jul-04
21	Aug-04	AMEREN CORP	AEE	46.79	0.04699	0	0.0045	0.0425	Aug-04
21	Sep-04	AMEREN CORP	AEE	46.15	-0.00011	0.635	0.0040	-0.0041	Sep-04
21	Oct-04	AMEREN CORP	AEE	48	0.040087	0	0.0038	0.0363	Oct-04
21	Nov-04	AMEREN CORP	AEE	48.42	0.00875	0	0.0041	0.0047	Nov-04
21	Dec-04	AMEREN CORP	AEE	50.14	0.048637	0.635	0.0043	0.0443	Dec-04
21	Jan-05	AMEREN CORP	AEE	50.12	-0.0004	0	0.0041	-0.0045	Jan-05
21	Feb-05	AMEREN CORP	AEE	51.47	0.026935	0	0.0035	0.0234	Feb-05
21	Mar-05	AMEREN CORP	AEE	49.01	-0.03546	0.635	0.0041	-0.0396	Mar-05
21	Apr-05	AMEREN CORP	AEE	51.7	0.054887	0	0.0039	0.0510	Apr-05
21	May-05	AMEREN CORP	AEE	54.58	0.055706	0	0.0040	0.0517	May-05
21	Jun-05	AMEREN CORP	AEE	55.3	0.024826	0.635	0.0036	0.0212	Jun-05
21	Jul-05	AMEREN CORP	AEE	55.62	0.005787	0	0.0034	0.0024	Jul-05
21	Aug-05	AMEREN CORP	AEE	54.93	-0.01241	0	0.0040	-0.0164	Aug-05
21	Sep-05	AMEREN CORP	AEE	53.49	-0.01466	0.635	0.0035	-0.0182	Sep-05
21	Oct-05	AMEREN CORP	AEE	52.6	-0.01664	0	0.0039	-0.0205	Oct-05
21	Nov-05	AMEREN CORP	AEE	52.46	-0.00266	0	0.0039	-0.0066	Nov-05
21	Dec-05	AMEREN CORP	AEE	51.24	-0.01115	0.635	0.0039	-0.0151	Dec-05
21	Jan-06	AMEREN CORP	AEE	50.76	-0.00937	0	0.0040	-0.0134	Jan-06
21	Feb-06	AMEREN CORP	AEE	50.67	-0.00177	0	0.0036	-0.0054	Feb-06
21	Mar-06	AMEREN CORP	AEE	49.82	-0.00424	0.635	0.0039	-0.0081	Mar-06
21	Apr-06	AMEREN CORP	AEE	50.37	0.01104	0	0.0039	0.0071	Apr-06
21	May-06	AMEREN CORP	AEE	49.49	-0.01747	0	0.0048	-0.0223	May-06
21	Jun-06	AMEREN CORP	AEE	50.5	0.033239	0.635	0.0044	0.0288	Jun-06
21	Jul-06	AMEREN CORP	AEE	51.5	0.019802	0	0.0045	0.0153	Jul-06
21	Aug-06	AMEREN CORP	AEE	53.55	0.039806	0	0.0043	0.0355	Aug-06
21	Sep-06	AMEREN CORP	AEE	52.79	-0.00233	0.635	0.0039	-0.0062	Sep-06

21	Oct-06	AMEREN CORP	AEE	54.1	0.024815	0	0.0042	0.0206	Oct-06
21	Nov-06	AMEREN CORP	AEE	54.71	0.011275	0	0.0039	0.0074	Nov-06
21	Dec-06	AMEREN CORP	AEE	53.73	-0.00631	0.635	0.0036	-0.0099	Dec-06
21	Jan-07	AMEREN CORP	AEE	53.11	-0.01154	0	0.0043	-0.0158	Jan-07
21	Feb-07	AMEREN CORP	AEE	52.2	-0.01713	0	0.0038	-0.0209	Feb-07
21	Mar-07	AMEREN CORP	AEE	50.3	-0.02423	0.635	0.0039	-0.0281	Mar-07
21	Apr-07	AMEREN CORP	AEE	52.57	0.045129	0	0.0042	0.0409	Apr-07
21	May-07	AMEREN CORP	AEE	53.07	0.009511	0	0.0041	0.0054	May-07
21	Jun-07	AMEREN CORP	AEE	49.01	-0.06454	0.635	0.0040	-0.0685	Jun-07
21	Jul-07	AMEREN CORP	AEE	47.98	-0.02102	0	0.0046	-0.0256	Jul-07
21	Aug-07	AMEREN CORP	AEE	50.78	0.058358	0	0.0042	0.0542	Aug-07
21	Sep-07	AMEREN CORP	AEE	52.5	0.046377	0.635	0.0037	0.0427	Sep-07
21	Oct-07	AMEREN CORP	AEE	54.06	0.029714	0	0.0043	0.0254	Oct-07
21	Nov-07	AMEREN CORP	AEE	53.85	-0.00389	0	0.0039	-0.0078	Nov-07
21	Dec-07	AMEREN CORP	AEE	54.21	0.018477	0.635	0.0037	0.0148	Dec-07
21	Jan-08	AMEREN CORP	AEE	44.74	-0.17469	0	0.0040	-0.1787	Jan-08
21	Feb-08	AMEREN CORP	AEE	42.7	-0.0456	0	0.0034	-0.0490	Feb-08
21	Mar-08	AMEREN CORP	AEE	44.04	0.046253	0.635	0.0037	0.0426	Mar-08
21	Apr-08	AMEREN CORP	AEE	45.36	0.029973	0	0.0035	0.0265	Apr-08
21	May-08	AMEREN CORP	AEE	45.45	0.001984	0	0.0037	-0.0017	May-08
21	Jun-08	AMEREN CORP	AEE	42.23	-0.05688	0.635	0.0040	-0.0609	Jun-08
21	Jul-08	AMEREN CORP	AEE	41.09	-0.027	0	0.0039	-0.0309	Jul-08
21	Aug-08	AMEREN CORP	AEE	41.86	0.018739	0	0.0036	0.0151	Aug-08
21	Sep-08	AMEREN CORP	AEE	39.03	-0.05244	0.635	0.0039	-0.0563	Sep-08
21	Oct-08	AMEREN CORP	AEE	32.45	-0.16859	0	0.0037	-0.1723	Oct-08
21	Nov-08	AMEREN CORP	AEE	35.58	0.096456	0	0.0036	0.0929	Nov-08
21	Dec-08	AMEREN CORP	AEE	33.26	-0.04736	0.635	0.0033	-0.0507	Dec-08
21	Jan-09	AMEREN CORP	AEE	33.25	-0.0003	0	0.0024	-0.0027	Jan-09
21	Feb-09	AMEREN CORP	AEE	23.78	-0.28481	0	0.0030	-0.2878	Feb-09
21	Mar-09	AMEREN CORP	AEE	23.19	-0.00862	0.385	0.0035	-0.0121	Mar-09
21	Apr-09	AMEREN CORP	AEE	23.02	-0.00733	0	0.0029	-0.0102	Apr-09
21	May-09	AMEREN CORP	AEE	23.26	0.010426	0	0.0033	0.0071	May-09
21	Jun-09	AMEREN CORP	AEE	24.89	0.086629	0.385	0.0038	0.0828	Jun-09
21	Jul-09	AMEREN CORP	AEE	25.43	0.021695	0	0.0036	0.0181	Jul-09
21	Aug-09	AMEREN CORP	AEE	26.97	0.060558	0	0.0036	0.0570	Aug-09
21	Sep-09	AMEREN CORP	AEE	25.28	-0.04839	0.385	0.0034	-0.0518	Sep-09

21	Oct-09	AMEREN CORP	AEE	24.34	-0.03718	0	0.0033	-0.0405	Oct-09
21	Nov-09	AMEREN CORP	AEE	25.99	0.06779	0	0.0035	0.0643	Nov-09
21	Dec-09	AMEREN CORP	AEE	27.95	0.090227	0.385	0.0034	0.0868	Dec-09
21	Jan-10	AMEREN CORP	AEE	25.55	-0.08587	0	0.0036	-0.0895	Jan-10
21	Feb-10	AMEREN CORP	AEE	24.71	-0.03288	0	0.0033	-0.0362	Feb-10
21	Mar-10	AMEREN CORP	AEE	26.08	0.071024	0.385	0.0040	0.0670	Mar-10
21	Apr-10	AMEREN CORP	AEE	25.96	-0.0046	0	0.0038	-0.0084	Apr-10
21	May-10	AMEREN CORP	AEE	24.66	-0.05008	0	0.0034	-0.0535	May-10
21	Jun-10	AMEREN CORP	AEE	23.77	-0.02048	0.385	0.0037	-0.0242	Jun-10
21	Jul-10	AMEREN CORP	AEE	25.37	0.067312	0	0.0031	0.0642	Jul-10
21	Aug-10	AMEREN CORP	AEE	28.07	0.106425	0	0.0032	0.1032	Aug-10
21	Sep-10	AMEREN CORP	AEE	28.4	0.025472	0.385	0.0026	0.0229	Sep-10
21	Oct-10	AMEREN CORP	AEE	28.98	0.020423	0	0.0027	0.0177	Oct-10
21	Nov-10	AMEREN CORP	AEE	28.72	-0.00897	0	0.0032	-0.0122	Nov-10
21	Dec-10	AMEREN CORP	AEE	28.19	-0.00505	0.385	0.0032	-0.0082	Dec-10
21	Jan-11	AMEREN CORP	AEE	28.37	0.006385	0	0.0036	0.0028	Jan-11
21	Feb-11	AMEREN CORP	AEE	27.96	-0.01445	0	0.0037	-0.0181	Feb-11
21	Mar-11	AMEREN CORP	AEE	28.07	0.017704	0.385	0.0036	0.0141	Mar-11
21	Apr-11	AMEREN CORP	AEE	29.31	0.044175	0	0.0036	0.0406	Apr-11
21	May-11	AMEREN CORP	AEE	29.71	0.013647	0	0.0033	0.0103	May-11
21	Jun-11	AMEREN CORP	AEE	28.84	-0.01632	0.385	0.0033	-0.0196	Jun-11
21	Jul-11	AMEREN CORP	AEE	28.82	-0.00069	0	0.0033	-0.0040	Jul-11
21	Aug-11	AMEREN CORP	AEE	30.26	0.049965	0	0.0030	0.0469	Aug-11
21	Sep-11	AMEREN CORP	AEE	29.77	-0.00347	0.385	0.0024	-0.0058	Sep-11
21	Oct-11	AMEREN CORP	AEE	31.88	0.070877	0	0.0024	0.0685	Oct-11
21	Nov-11	AMEREN CORP	AEE	33.81	0.06054	0	0.0023	0.0583	Nov-11
21	Dec-11	AMEREN CORP	AEE	33.13	-0.00828	0.4	0.0025	-0.0108	Dec-11
21	Jan-12	AMEREN CORP	AEE	31.64	-0.04497	0	0.0021	-0.0471	Jan-12
21	Feb-12	AMEREN CORP	AEE	32.07	0.01359	0	0.002	0.0116	Feb-12
21	Mar-12	AMEREN CORP	AEE	32.58	0.028375	0.4	0.0022	0.0262	Mar-12
21	Apr-12	AMEREN CORP	AEE	32.79	0.006446	0	0.0025	0.0039	Apr-12
21	May-12	AMEREN CORP	AEE	32.31	-0.01464	0	0.0023	-0.0169	May-12
21	Jun-12	AMEREN CORP	AEE	33.54	0.050449	0.4	0.0018	0.0486	Jun-12
	Jul-12	AMEREN CORP	AEE	34.21	0.019976	0	0.002	0.0180	Jul-12
	Aug-12	AMEREN CORP	AEE	32.72	-0.04355	0	0.0018	-0.0454	Aug-12
	Sep-12	AMEREN CORP	AEE	32.67	0.010697	0.4	0.0017	0.0090	Sep-12

Oct-12	AMEREN CORP	AEE	32.88	0.006428	0	0.0021	0.0043	Oct-12
Nov-12	AMEREN CORP	AEE	29.97	-0.0885	0	0.0019	-0.0904	Nov-12
Dec-12	AMEREN CORP	AEE	30.72	0.038372	0.4	0.0019	0.0365	Dec-12
Jan-13	AMEREN CORP	AEE	32.44	0.05599	0	0.0022	0.0538	Jan-13
Feb-13	AMEREN CORP	AEE	33.79	0.041615	0	0.0022	0.0394	Feb-13
Mar-13	AMEREN CORP	AEE	35.02	0.048239	0.4	0.0021	0.0461	Mar-13
Apr-13	AMEREN CORP	AEE	36.25	0.035123	0	0.0026	0.0325	Apr-13
May-13	AMEREN CORP	AEE	34.04	-0.06097	0	0.0023	-0.0633	May-13
Jun-13	AMEREN CORP	AEE	34.44	0.023502	0.4	0.0024	0.0211	Jun-13
Jul-13	AMEREN CORP	AEE	35.81	0.039779	0	0.003	0.0368	Jul-13
Aug-13	AMEREN CORP	AEE	33.81	-0.05585	0	0.0028	-0.0587	Aug-13
Sep-13	AMEREN CORP	AEE	34.84	0.042295	0.4	0.0029	0.0394	Sep-13
Oct-13	AMEREN CORP	AEE	36.18	0.038462	0	0.0029	0.0356	Oct-13
Nov-13	AMEREN CORP	AEE	35.85	-0.00912	0	0.0027	-0.0118	Nov-13
Dec-13	AMEREN CORP	AEE	36.16	0.019805	0.4	0.0031	0.0167	Dec-13
Jan-14	AMEREN CORP	AEE	37.84	0.04646	0	0.0032	0.0433	Jan-14
Feb-14	AMEREN CORP	AEE	40.41	0.067918	0	0.0026	0.0653	Feb-14
Mar-14	AMEREN CORP	AEE	41.2	0.029448	0.4	0.0029	0.0265	Mar-14
Apr-14	AMEREN CORP	AEE	41.31	0.00267	0	0.0028	-0.0001	Apr-14
May-14	AMEREN CORP	AEE	39.35	-0.04745	0	0.0028	-0.0502	May-14
Jun-14	AMEREN CORP	AEE	40.88	0.049047	0.4	0.0025	0.0465	Jun-14
Jul-14	AMEREN CORP	AEE	38.45	-0.05944	0	0.0027	-0.0621	Jul-14
Aug-14	AMEREN CORP	AEE	39.99	0.040052	0	0.0026	0.0375	Aug-14
Sep-14	AMEREN CORP	AEE	38.33	-0.03151	0.4	0.0023	-0.0338	Sep-14
Oct-14	AMEREN CORP	AEE	42.34	0.104618	0	0.0025	0.1021	Oct-14
Nov-14	AMEREN CORP	AEE	43.11	0.018186	0	0.0023	0.0159	Nov-14
Dec-14	AMEREN CORP	AEE	46.13	0.079564	0.41	0.0022	0.0774	Dec-14
Jan-15	AMEREN CORP	AEE	45.28	-0.01843	0	0.002	-0.0204	Jan-15
Feb-15	AMEREN CORP	AEE	42.41	-0.06338	0	0.0015	-0.0649	Feb-15
Mar-15	AMEREN CORP	AEE	42.2	0.004716	0.41	0.0021	0.0026	Mar-15
Apr-15	AMEREN CORP	AEE	40.94	-0.02986	0	0.0019	-0.0318	Apr-15
May-15	AMEREN CORP	AEE	40.23	-0.01734	0	0.002	-0.0193	May-15
Jun-15	AMEREN CORP	AEE	37.68	-0.05319	0.41	0.0023	-0.055494	Jun-15
Jul-15	AMEREN CORP	AEE	41.08	0.090234	0	0.0024	0.0878335	Jul-15
Aug-15	AMEREN CORP	AEE	40.29	-0.01923	0	0.0022	-0.021431	Aug-15
Sep-15	AMEREN CORP	AEE	42.27	0.05932	0.41	0.0021	0.0572199	Sep-15

Oct-15	AMEREN CORP	AEE	43.68	0.033357	0	0.0021	0.031257	Oct-15
Nov-15	AMEREN CORP	AEE	43.76	0.001832	0	0.0022	-0.000368	Nov-15
Dec-15	AMEREN CORP	AEE	43.23	-0.0024	0.425	0.0022	-0.004599	Dec-15
Jan-16	AMEREN CORP	AEE	44.92	0.039093	0	0.0021	0.0369932	Jan-16
Feb-16	AMEREN CORP	AEE	46.95	0.045191	0	0.002	0.0431915	Feb-16
Mar-16	AMEREN CORP	AEE	50.1	0.076145	0.425	0.0018	0.0743448	Mar-16
Apr-16	AMEREN CORP	AEE	48	-0.04192	0	0.0017	-0.043616	Apr-16
May-16	AMEREN CORP	AEE	49.55	0.032292	0	0.002	0.0302917	May-16
Jun-16	AMEREN CORP	AEE	53.58	0.089909	0.425	0.0018	0.0881092	Jun-16
Jul-16	AMEREN CORP	AEE	52.44	-0.02128	0	0.0014	-0.022677	Jul-16
Aug-16	AMEREN CORP	AEE	49.42	-0.05759	0	0.0016	-0.05919	Aug-16
Sep-16	AMEREN CORP	AEE	49.18	0.003743	0.425	0.0015	0.0022434	Sep-16
Oct-16	AMEREN CORP	AEE	49.95	0.015657	0	0.0016	0.0140568	Oct-16
Nov-16	AMEREN CORP	AEE	49.12	-0.01662	0	0.0018	-0.018417	Nov-16
Dec-16	AMEREN CORP	AEE	52.46	0.076954	0.44	0.0022	0.0747544	Dec-16
Jan-17	AMEREN CORP	AEE	52.65	0.003622	0	0.0024	0.0012218	Jan-17
Feb-17	AMEREN CORP	AEE	54.69	0.038746	0	0.0021	0.0366464	Feb-17
Mar-17	AMEREN CORP	AEE	54.59	0.006217	0.44	0.0023	0.0039169	Mar-17
Apr-17	AMEREN CORP	AEE	54.69	0.001832	0	0.0021	-0.000268	Apr-17
May-17	AMEREN CORP	AEE	56.75	0.037667	0	0.0024	0.0352668	May-17
Jun-17	AMEREN CORP	AEE	54.67	-0.0289	0.44	0.0021	-0.030999	Jun-17
Jul-17	AMEREN CORP	AEE	56.1	0.026157	0	0.0022	0.0239569	Jul-17
Aug-17	AMEREN CORP	AEE	59.99	0.06934	0	0.0022	0.0671405	Aug-17
Sep-17	AMEREN CORP	AEE	57.84	-0.0285	0.44	0.0019	-0.030405	Sep-17
Oct-17	AMEREN CORP	AEE	61.99	0.07175	0	0.0022	0.0695497	Oct-17
Nov-17	AMEREN CORP	AEE	63.96	0.031779	0	0.0021	0.0296793	Nov-17
Dec-17	AMEREN CORP	AEE	58.99	-0.07055	0.4575	0.002	-0.072552	Dec-17
Jan-18	AMEREN CORP	AEE	56.63	-0.04001	0	0.0024	-0.042407	Jan-18
Feb-18	AMEREN CORP	AEE	54.3	-0.04114	0	0.0022	-0.043344	Feb-18
Mar-18	AMEREN CORP	AEE	56.63	0.051335	0.4575	0.0024	0.0489352	Mar-18
Apr-18	AMEREN CORP	AEE	58.62	0.03514	0	0.0025	0.0326404	Apr-18
May-18	AMEREN CORP	AEE	59.19	0.009724	0	0.0025	0.0072236	May-18
Jun-18	AMEREN CORP	AEE	60.85	0.035775	0.4575	0.0023	0.0334746	Jun-18
Jul-18	AMEREN CORP	AEE	62.06	0.019885	0	0.0025	0.017385	Jul-18
Aug-18	AMEREN CORP	AEE	63.23	0.018853	0	0.0025	0.0163527	Aug-18
Sep-18	AMEREN CORP	AEE	63.22	0.007077	0.4575	0.0022	0.0048773	Sep-18

Oct-18	AMEREN CORP	AEE	64.58	0.021512	0	0.003	0.0185122	Oct-18
Nov-18	AMEREN CORP	AEE	68.62	0.062558	0	0.0028	0.0597581	Nov-18
Dec-18	AMEREN CORP	AEE	65.23	-0.04248	0.475	0.0027	-0.04518	Dec-18
Jan-19	AMEREN CORP	AEE	69.34	0.063008	0	0.0025	0.0605078	Jan-19
Feb-19	AMEREN CORP	AEE	71.24	0.027401	0	0.0022	0.0252012	Feb-19
Mar-19	AMEREN CORP	AEE	73.55	0.039093	0.475	0.0023	0.0367932	Mar-19
Apr-19	AMEREN CORP	AEE	72.77	-0.01061	0	0.0023	-0.012905	Apr-19
May-19	AMEREN CORP	AEE	73.34	0.007833	0	0.0023	0.0055329	May-19
Jun-19	AMEREN CORP	AEE	75.11	0.030611	0.475	0.0018	0.0288109	Jun-19
Jul-19	AMEREN CORP	AEE	75.69	0.007722	0	0.0021	0.005622	Jul-19
Aug-19	AMEREN CORP	AEE	77.15	0.019289	0	0.0019	0.0173892	Aug-19
Sep-19	AMEREN CORP	AEE	80.05	0.043746	0.475	0.0015	0.0422459	Sep-19
Oct-19	AMEREN CORP	AEE	77.7	-0.02936	0	0.0016	-0.030957	Oct-19
Nov-19	AMEREN CORP	AEE	74.33	-0.04337	0	0.0016	-0.044972	Nov-19
Dec-19	AMEREN CORP	AEE	76.8	0.03989	0.495	0.0018	0.0380897	Dec-19
Jan-20	AMEREN CORP	AEE	82.05	0.068359	0	0.002	0.0663594	Jan-20
Feb-20	AMEREN CORP	AEE	79	-0.03717	0	0.0015	-0.038672	Feb-20
Mar-20	AMEREN CORP	AEE	72.83	-0.07184	0.495	0.00123	-0.073065	Mar-20
Apr-20	AMEREN CORP	AEE	72.75	-0.0011	0	0.0009	-0.001998	Apr-20
May-20	AMEREN CORP	AEE	74.73	0.027216	0	0.0009	0.0263165	May-20
Jun-20	AMEREN CORP	AEE	70.36	-0.05185	0.495	0.0009	-0.052753	Jun-20
Jul-20	AMEREN CORP	AEE	80.24	0.140421	0	0.001	0.1394207	Jul-20
Aug-20	AMEREN CORP	AEE	79.11	-0.01408	0	0.0008	-0.014883	Aug-20
Sep-20	AMEREN CORP	AEE	79.08	0.005878	0.495	0	0.0058779	Sep-20
Oct-20	AMEREN CORP	AEE	81.12	0.025797	0	0.0009	0.0248967	Oct-20
Nov-20	AMEREN CORP	AEE	77.78	-0.04117	0	0.0011	-0.042274	Nov-20
Dec-20	AMEREN CORP	AEE	78.06	0.010221	0.515	0.0011	0.0091211	Dec-20
Jan-21	AMEREN CORP	AEE	72.72	-0.06841	0	0.0015167	-0.069926	Jan-21
Feb-21	AMEREN CORP	AEE	70.27	-0.03369	0	0.0017	-0.035391	Feb-21
Mar-21	AMEREN CORP	AEE	81.36	0.165647	0.55	0.00195	0.1636968	Mar-21
Apr-21	AMEREN CORP	AEE	84.84	0.042773	0	0.0019167	0.0408562	Apr-21
May-21	AMEREN CORP	AEE	84.2	-0.00754	0	0.0019333	-0.009477	May-21
Jun-21	AMEREN CORP	AEE	80.04	-0.04287	0.55	0.0018	-0.044674	Jun-21
Jul-21	AMEREN CORP	AEE	83.92	0.048476	0	0.0016167	0.0468591	Jul-21
Aug-21	AMEREN CORP	AEE	87.72	0.045281	0	0.0016	0.0436812	Aug-21

Unique Index Number	Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP	Trading Date
	Jan-26						0.0031		Jan-26
	Feb-26						0.0028		Feb-26
	Mar-26						0.0032		Mar-26
	Apr-26						0.0030		Apr-26
	May-26						0.0028		May-26
	Jun-26						0.0033		Jun-26
	Jul-26						0.0031		Jul-26
	Aug-26						0.0031		Aug-26
	Sep-26						0.0030		Sep-26
	Oct-26						0.0030		Oct-26
	Nov-26						0.0031		Nov-26
	Dec-26						0.0030		Dec-26
	Jan-27						0.0030		Jan-27
	Feb-27						0.0027		Feb-27
	Mar-27						0.0029		Mar-27
	Apr-27						0.0027		Apr-27
	May-27						0.0028		May-27
	Jun-27						0.0027		Jun-27
	Jul-27						0.0027		Jul-27
	Aug-27						0.0029		Aug-27
	Sep-27						0.0027		Sep-27
	Oct-27						0.0028		Oct-27
	Nov-27						0.0027		Nov-27
	Dec-27						0.0027		Dec-27
	Jan-28						0.0027		Jan-28
	Feb-28						0.0025		Feb-28
	Mar-28						0.0027		Mar-28
	Apr-28						0.0026		Apr-28
	May-28						0.0027		May-28
	Jun-28						0.0027		Jun-28
	Jul-28						0.0027		Jul-28
	Aug-28						0.0029		Aug-28
	Sep-28						0.0027		Sep-28
	Oct-28						0.0030		Oct-28
	Nov-28						0.0027		Nov-28

Dec-28	0.0029	Dec-28
Jan-29	0.0029	Jan-29
Feb-29	0.0027	Feb-29
Mar-29	0.0028	Mar-29
Apr-29	0.0034	Apr-29
May-29	0.0030	May-29
Jun-29	0.0029	Jun-29
Jul-29	0.0032	Jul-29
Aug-29	0.0030	Aug-29
Sep-29	0.0032	Sep-29
Oct-29	0.0031	Oct-29
Nov-29	0.0026	Nov-29
Dec-29	0.0031	Dec-29
Jan-30	0.0029	Jan-30
Feb-30	0.0026	Feb-30
Mar-30	0.0029	Mar-30
Apr-30	0.0027	Apr-30
May-30	0.0027	May-30
Jun-30	0.0029	Jun-30
Jul-30	0.0028	Jul-30
Aug-30	0.0026	Aug-30
Sep-30	0.0029	Sep-30
Oct-30	0.0027	Oct-30
Nov-30	0.0026	Nov-30
Dec-30	0.0028	Dec-30
Jan-31	0.0028	Jan-31
Feb-31	0.0026	Feb-31
Mar-31	0.0029	Mar-31
Apr-31	0.0027	Apr-31
May-31	0.0026	May-31
Jun-31	0.0028	Jun-31
Jul-31	0.0027	Jul-31
Aug-31	0.0027	Aug-31
Sep-31	0.0027	Sep-31
Oct-31	0.0029	Oct-31
Nov-31	0.0031	Nov-31
Dec-31	0.0032	Dec-31
Jan-32	0.0032	Jan-32

Feb-32	0.0032	Feb-32
Mar-32	0.0031	Mar-32
Apr-32	0.0030	Apr-32
May-32	0.0028	May-32
Jun-32	0.0028	Jun-32
Jul-32	0.0028	Jul-32
Aug-32	0.0028	Aug-32
Sep-32	0.0026	Sep-32
Oct-32	0.0027	Oct-32
Nov-32	0.0026	Nov-32
Dec-32	0.0027	Dec-32
Jan-33	0.0027	Jan-33
Feb-33	0.0023	Feb-33
Mar-33	0.0027	Mar-33
Apr-33	0.0025	Apr-33
May-33	0.0028	May-33
Jun-33	0.0025	Jun-33
Jul-33	0.0026	Jul-33
Aug-33	0.0026	Aug-33
Sep-33	0.0025	Sep-33
Oct-33	0.0026	Oct-33
Nov-33	0.0025	Nov-33
Dec-33	0.0028	Dec-33
Jan-34	0.0029	Jan-34
Feb-34	0.0024	Feb-34
Mar-34	0.0027	Mar-34
Apr-34	0.0025	Apr-34
May-34	0.0025	May-34
Jun-34	0.0024	Jun-34
Jul-34	0.0024	Jul-34
Aug-34	0.0024	Aug-34
Sep-34	0.0023	Sep-34
Oct-34	0.0027	Oct-34
Nov-34	0.0025	Nov-34
Dec-34	0.0025	Dec-34
Jan-35	0.0025	Jan-35
Feb-35	0.0021	Feb-35
Mar-35	0.0022	Mar-35

Apr-35		0.0023	Apr-35
May-35		0.0023	May-35
Jun-35		0.0022	Jun-35
Jul-35		0.0024	Jul-35
Aug-35		0.0023	Aug-35
Sep-35		0.0023	Sep-35
Oct-35		0.0023	Oct-35
Nov-35		0.0024	Nov-35
Dec-35		0.0024	Dec-35
Jan-36		0.0024	Jan-36
Feb-36		0.0023	Feb-36
Mar-36		0.0024	Mar-36
Apr-36		0.0022	Apr-36
May-36		0.0022	May-36
Jun-36		0.0024	Jun-36
Jul-36		0.0023	Jul-36
Aug-36		0.0023	Aug-36
Sep-36		0.0021	Sep-36
Oct-36		0.0023	Oct-36
Nov-36		0.0022	Nov-36
Dec-36		0.0022	Dec-36
Jan-37		0.0021	Jan-37
Feb-37		0.0020	Feb-37
Mar-37		0.0022	Mar-37
Apr-37		0.0023	Apr-37
May-37		0.0022	May-37
Jun-37		0.0025	Jun-37
Jul-37		0.0024	Jul-37
Aug-37		0.0023	Aug-37
Sep-37		0.0023	Sep-37
Oct-37		0.0023	Oct-37
Nov-37		0.0024	Nov-37
Dec-37		0.0023	Dec-37
Jan-38		0.0023	Jan-38
Feb-38		0.0021	Feb-38
Mar-38		0.0023	Mar-38
Apr-38		0.0022	Apr-38
May-38		0.0022	May-38

Jun-38	0.0021	Jun-38
Jul-38	0.0021	Jul-38
Aug-38	0.0022	Aug-38
Sep-38	0.0021	Sep-38
Oct-38	0.0022	Oct-38
Nov-38	0.0021	Nov-38
Dec-38	0.0022	Dec-38
Jan-39	0.0021	Jan-39
Feb-39	0.0019	Feb-39
Mar-39	0.0021	Mar-39
Apr-39	0.0019	Apr-39
May-39	0.0020	May-39
Jun-39	0.0018	Jun-39
Jul-39	0.0019	Jul-39
Aug-39	0.0018	Aug-39
Sep-39	0.0019	Sep-39
Oct-39	0.0023	Oct-39
Nov-39	0.0020	Nov-39
Dec-39	0.0019	Dec-39
Jan-40	0.0020	Jan-40
Feb-40	0.0018	Feb-40
Mar-40	0.0019	Mar-40
Apr-40	0.0018	Apr-40
May-40	0.0019	May-40
Jun-40	0.0019	Jun-40
Jul-40	0.0020	Jul-40
Aug-40	0.0019	Aug-40
Sep-40	0.0018	Sep-40
Oct-40	0.0018	Oct-40
Nov-40	0.0018	Nov-40
Dec-40	0.0017	Dec-40
Jan-41	0.0016	Jan-41
Feb-41	0.0016	Feb-41
Mar-41	0.0018	Mar-41
Apr-41	0.0017	Apr-41
May-41	0.0017	May-41
Jun-41	0.0016	Jun-41
Jul-41	0.0016	Jul-41

Aug-41	0.0016	Aug-41
Sep-41	0.0016	Sep-41
Oct-41	0.0016	Oct-41
Nov-41	0.0014	Nov-41
Dec-41	0.0016	Dec-41
Jan-42	0.0021	Jan-42
Feb-42	0.0019	Feb-42
Mar-42	0.0021	Mar-42
Apr-42	0.0020	Apr-42
May-42	0.0019	May-42
Jun-42	0.0021	Jun-42
Jul-42	0.0021	Jul-42
Aug-42	0.0021	Aug-42
Sep-42	0.0020	Sep-42
Oct-42	0.0021	Oct-42
Nov-42	0.0020	Nov-42
Dec-42	0.0021	Dec-42
Jan-43	0.0020	Jan-43
Feb-43	0.0019	Feb-43
Mar-43	0.0021	Mar-43
Apr-43	0.0020	Apr-43
May-43	0.0019	May-43
Jun-43	0.0021	Jun-43
Jul-43	0.0021	Jul-43
Aug-43	0.0021	Aug-43
Sep-43	0.0020	Sep-43
Oct-43	0.0020	Oct-43
Nov-43	0.0021	Nov-43
Dec-43	0.0021	Dec-43
Jan-44	0.0021	Jan-44
Feb-44	0.0020	Feb-44
Mar-44	0.0021	Mar-44
Apr-44	0.0020	Apr-44
May-44	0.0022	May-44
Jun-44	0.0020	Jun-44
Jul-44	0.0021	Jul-44
Aug-44	0.0021	Aug-44
Sep-44	0.0020	Sep-44

Oct-44	0.0021	Oct-44
Nov-44	0.0020	Nov-44
Dec-44	0.0020	Dec-44
Jan-45	0.0021	Jan-45
Feb-45	0.0018	Feb-45
Mar-45	0.0020	Mar-45
Apr-45	0.0019	Apr-45
May-45	0.0019	May-45
Jun-45	0.0019	Jun-45
Jul-45	0.0018	Jul-45
Aug-45	0.0019	Aug-45
Sep-45	0.0018	Sep-45
Oct-45	0.0019	Oct-45
Nov-45	0.0018	Nov-45
Dec-45	0.0018	Dec-45
Jan-46	0.0017	Jan-46
Feb-46	0.0015	Feb-46
Mar-46	0.0016	Mar-46
Apr-46	0.0017	Apr-46
May-46	0.0018	May-46
Jun-46	0.0016	Jun-46
Jul-46	0.0019	Jul-46
Aug-46	0.0017	Aug-46
Sep-46	0.0018	Sep-46
Oct-46	0.0019	Oct-46
Nov-46	0.0018	Nov-46
Dec-46	0.0019	Dec-46
Jan-47	0.0018	Jan-47
Feb-47	0.0016	Feb-47
Mar-47	0.0018	Mar-47
Apr-47	0.0017	Apr-47
May-47	0.0017	May-47
Jun-47	0.0019	Jun-47
Jul-47	0.0018	Jul-47
Aug-47	0.0017	Aug-47
Sep-47	0.0018	Sep-47
Oct-47	0.0018	Oct-47
Nov-47	0.0017	Nov-47

Dec-47	0.0021	Dec-47
Jan-48	0.0020	Jan-48
Feb-48	0.0019	Feb-48
Mar-48	0.0022	Mar-48
Apr-48	0.0020	Apr-48
May-48	0.0018	May-48
Jun-48	0.0021	Jun-48
Jul-48	0.0019	Jul-48
Aug-48	0.0021	Aug-48
Sep-48	0.0020	Sep-48
Oct-48	0.0019	Oct-48
Nov-48	0.0021	Nov-48
Dec-48	0.0020	Dec-48
Jan-49	0.0020	Jan-49
Feb-49	0.0018	Feb-49
Mar-49	0.0019	Mar-49
Apr-49	0.0018	Apr-49
May-49	0.0020	May-49
Jun-49	0.0019	Jun-49
Jul-49	0.0017	Jul-49
Aug-49	0.0019	Aug-49
Sep-49	0.0017	Sep-49
Oct-49	0.0018	Oct-49
Nov-49	0.0017	Nov-49
Dec-49	0.0017	Dec-49
Jan-50	0.0018	Jan-50
Feb-50	0.0016	Feb-50
Mar-50	0.0018	Mar-50
Apr-50	0.0016	Apr-50
May-50	0.0019	May-50
Jun-50	0.0017	Jun-50
Jul-50	0.0018	Jul-50
Aug-50	0.0018	Aug-50
Sep-50	0.0017	Sep-50
Oct-50	0.0019	Oct-50
Nov-50	0.0018	Nov-50
Dec-50	0.0018	Dec-50
Jan-51	0.0020	Jan-51

	Feb-51					0.0017		Feb-51
	Mar-51					0.0019		Mar-51
	Apr-51					0.0020		Apr-51
	May-51					0.0021		May-51
	Jun-51					0.0020		Jun-51
	Jul-51					0.0023		Jul-51
	Aug-51					0.0021		Aug-51
	Sep-51					0.0019		Sep-51
	Oct-51					0.0023		Oct-51
	Nov-51					0.0021		Nov-51
	Dec-51					0.0022		Dec-51
	Jan-52					0.0023		Jan-52
	Feb-52					0.0021		Feb-52
	Mar-52					0.0023		Mar-52
	Apr-52					0.0022		Apr-52
	May-52					0.0020		May-52
	Jun-52					0.0022		Jun-52
	Jul-52					0.0022		Jul-52
	Aug-52					0.0021		Aug-52
22	Sep-52	WASHINGTON WATER POWER CO	27	-66	0	0.0023		Sep-52
22	Oct-52	WASHINGTON WATER POWER CO	25.375	-0.06019	0	0.0023	-0.0625	Oct-52
22	Nov-52	WASHINGTON WATER POWER CO	26.125	0.044335	0.375	0.0021	0.0422	Nov-52
22	Dec-52	WASHINGTON WATER POWER CO	27.75	0.062201	0	0.0024	0.0598	Dec-52
22	Jan-53	WASHINGTON WATER POWER CO	27.5	-0.00901	0	0.0023	-0.0113	Jan-53
22	Feb-53	WASHINGTON WATER POWER CO	27.625	0.018182	0.375	0.0021	0.0161	Feb-53
22	Mar-53	WASHINGTON WATER POWER CO	28	0.013575	0	0.0025	0.0111	Mar-53
22	Apr-53	WASHINGTON WATER POWER CO	26.625	-0.04911	0	0.0024	-0.0515	Apr-53
22	May-53	WASHINGTON WATER POWER CO	26	-0.00845	0.4	0.0024	-0.0109	May-53
22	Jun-53	WASHINGTON WATER POWER CO	26.5	0.019231	0	0.0027	0.0165	Jun-53
22	Jul-53	WASHINGTON WATER POWER CO	26.625	0.004717	0	0.0025	0.0022	Jul-53
22	Aug-53	WASHINGTON WATER POWER CO	25.25	-0.03662	0.4	0.0025	-0.0391	Aug-53
22	Sep-53	WASHINGTON WATER POWER CO	25.875	0.024752	0	0.0025	0.0223	Sep-53
22	Oct-53	WASHINGTON WATER POWER CO	26.375	0.019324	0	0.0023	0.0170	Oct-53
22	Nov-53	WASHINGTON WATER POWER CO	26.75	0.029384	0.4	0.0024	0.0270	Nov-53
22	Dec-53	WASHINGTON WATER POWER CO	26	-0.02804	0	0.0024	-0.0304	Dec-53
22	Jan-54	WASHINGTON WATER POWER CO	26.375	0.014423	0	0.0023	0.0121	Jan-54
22	Feb-54	WASHINGTON WATER POWER CO	28.5	0.095735	0.4	0.0022	0.0935	Feb-54
22	Mar-54	WASHINGTON WATER POWER CO	28.75	0.008772	0	0.0025	0.0063	Mar-54

22	Apr-54	WASHINGTON WATER POWER CO	29.75	0.034783	0	0.0022	0.0326	Apr-54
22	May-54	WASHINGTON WATER POWER CO	29.625	0.009244	0.4	0.0020	0.0072	May-54
22	Jun-54	WASHINGTON WATER POWER CO	29.625	0	0	0.0025	-0.0025	Jun-54
22	Jul-54	WASHINGTON WATER POWER CO	32.375	0.092827	0	0.0022	0.0906	Jul-54
22	Aug-54	WASHINGTON WATER POWER CO	33.375	0.043243	0.4	0.0023	0.0409	Aug-54
22	Sep-54	WASHINGTON WATER POWER CO	33.25	-0.00375	0	0.0022	-0.0059	Sep-54
22	Oct-54	WASHINGTON WATER POWER CO	31	-0.06767	0	0.0021	-0.0698	Oct-54
22	Nov-54	WASHINGTON WATER POWER CO	31.75	0.037903	0.425	0.0023	0.0356	Nov-54
22	Dec-54	WASHINGTON WATER POWER CO	32.625	0.027559	0	0.0023	0.0253	Dec-54
22	Jan-55	WASHINGTON WATER POWER CO	35	0.072797	0	0.0022	0.0706	Jan-55
22	Feb-55	WASHINGTON WATER POWER CO	36.375	0.051429	0.425	0.0022	0.0492	Feb-55
22	Mar-55	WASHINGTON WATER POWER CO	36.625	0.006873	0	0.0024	0.0045	Mar-55
22	Apr-55	WASHINGTON WATER POWER CO	37.375	0.020478	0	0.0022	0.0183	Apr-55
22	May-55	WASHINGTON WATER POWER CO	37.625	0.01806	0.425	0.0025	0.0156	May-55
22	Jun-55	WASHINGTON WATER POWER CO	39.375	0.046512	0	0.0023	0.0442	Jun-55
22	Jul-55	WASHINGTON WATER POWER CO	40.625	0.031746	0	0.0023	0.0294	Jul-55
22	Aug-55	WASHINGTON WATER POWER CO	41.5	0.032	0.425	0.0027	0.0293	Aug-55
22	Sep-55	WASHINGTON WATER POWER CO	37.875	-0.08735	0	0.0024	-0.0897	Sep-55
22	Oct-55	WASHINGTON WATER POWER CO	38.125	0.006601	0	0.0025	0.0041	Oct-55
22	Nov-55	WASHINGTON WATER POWER CO	39	0.034754	0.45	0.0024	0.0324	Nov-55
22	Dec-55	WASHINGTON WATER POWER CO	37.5	-0.03846	0	0.0024	-0.0409	Dec-55
22	Jan-56	WASHINGTON WATER POWER CO	37.25	-0.00667	0	0.0025	-0.0092	Jan-56
22	Feb-56	WASHINGTON WATER POWER CO	37.625	0.022148	0.45	0.0023	0.0198	Feb-56
22	Mar-56	WASHINGTON WATER POWER CO	37.375	-0.00665	0	0.0023	-0.0089	Mar-56
22	Apr-56	WASHINGTON WATER POWER CO	37.25	-0.00334	0	0.0026	-0.0059	Apr-56
22	May-56	WASHINGTON WATER POWER CO	36.625	-0.0047	0.45	0.0026	-0.0073	May-56
22	Jun-56	WASHINGTON WATER POWER CO	37.875	0.03413	0	0.0023	0.0318	Jun-56
22	Jul-56	WASHINGTON WATER POWER CO	37.25	-0.0165	0	0.0026	-0.0191	Jul-56
22	Aug-56	WASHINGTON WATER POWER CO	37	0.005369	0.45	0.0026	0.0028	Aug-56
22	Sep-56	WASHINGTON WATER POWER CO	36	-0.02703	0	0.0025	-0.0295	Sep-56
22	Oct-56	WASHINGTON WATER POWER CO	36.625	0.017361	0	0.0029	0.0145	Oct-56
22	Nov-56	WASHINGTON WATER POWER CO	36.125	-0.00082	0.47	0.0027	-0.0035	Nov-56
22	Dec-56	WASHINGTON WATER POWER CO	36	-0.00346	0	0.0028	-0.0063	Dec-56
22	Jan-57	WASHINGTON WATER POWER CO	36.125	0.003472	0	0.0029	0.0006	Jan-57
22	Feb-57	WASHINGTON WATER POWER CO	34.875	-0.02159	0.47	0.0025	-0.0241	Feb-57
22	Mar-57	WASHINGTON WATER POWER CO	36.5	0.046595	0	0.0026	0.0440	Mar-57
22	Apr-57	WASHINGTON WATER POWER CO	35.875	-0.01712	0	0.0029	-0.0200	Apr-57
22	May-57	WASHINGTON WATER POWER CO	35.875	0.013101	0.47	0.0029	0.0102	May-57

22	Jun-57	WASHINGTON WATER POWER CO	34.625	-0.03484	0	0.0025	-0.0373	Jun-57
22	Jul-57	WASHINGTON WATER POWER CO	35.625	0.028881	0	0.0033	0.0256	Jul-57
22	Aug-57	WASHINGTON WATER POWER CO	32.875	-0.064	0.47	0.0030	-0.0670	Aug-57
22	Sep-57	WASHINGTON WATER POWER CO	32.875	0	0	0.0031	-0.0031	Sep-57
22	Oct-57	WASHINGTON WATER POWER CO	32.125	-0.02281	0	0.0031	-0.0259	Oct-57
22	Nov-57	WASHINGTON WATER POWER CO	34	0.072996	0.47	0.0029	0.0701	Nov-57
22	Dec-57	WASHINGTON WATER POWER CO	34.25	0.007353	0	0.0029	0.0045	Dec-57
22	Jan-58	WASHINGTON WATER POWER CO	37.375	0.091241	0	0.0027	0.0885	Jan-58
22	Feb-58	WASHINGTON WATER POWER CO	38.875	0.053512	0.5	0.0025	0.0510	Feb-58
22	Mar-58	WASHINGTON WATER POWER CO	39.125	0.006431	0	0.0027	0.0037	Mar-58
22	Apr-58	WASHINGTON WATER POWER CO	39.5	0.009585	0	0.0026	0.0070	Apr-58
22	May-58	WASHINGTON WATER POWER CO	40.75	0.044304	0.5	0.0024	0.0419	May-58
22	Jun-58	WASHINGTON WATER POWER CO	39.5	-0.03068	0	0.0027	-0.0334	Jun-58
22	Jul-58	WASHINGTON WATER POWER CO	40.375	0.022152	0	0.0027	0.0195	Jul-58
22	Aug-58	WASHINGTON WATER POWER CO	39.125	-0.01858	0.5	0.0027	-0.0213	Aug-58
22	Sep-58	WASHINGTON WATER POWER CO	40	0.022364	0	0.0032	0.0192	Sep-58
22	Oct-58	WASHINGTON WATER POWER CO	41	0.025	0	0.0032	0.0218	Oct-58
22	Nov-58	WASHINGTON WATER POWER CO	42.125	0.039634	0.5	0.0028	0.0368	Nov-58
22	Dec-58	WASHINGTON WATER POWER CO	44.5	0.05638	0	0.0033	0.0531	Dec-58
22	Jan-59	WASHINGTON WATER POWER CO	46	0.033708	0	0.0031	0.0306	Jan-59
22	Feb-59	WASHINGTON WATER POWER CO	45.75	0.005435	0.5	0.0031	0.0023	Feb-59
22	Mar-59	WASHINGTON WATER POWER CO	46.5	0.016393	0	0.0035	0.0129	Mar-59
22	Apr-59	WASHINGTON WATER POWER CO	44.75	-0.03763	0	0.0033	-0.0409	Apr-59
22	May-59	WASHINGTON WATER POWER CO	44.875	0.013966	0.5	0.0033	0.0107	May-59
22	Jun-59	WASHINGTON WATER POWER CO	44.5	-0.00836	0	0.0036	-0.0120	Jun-59
22	Jul-59	WASHINGTON WATER POWER CO	45.25	0.016854	0	0.0035	0.0134	Jul-59
22	Aug-59	WASHINGTON WATER POWER CO	45.375	0.013812	0.5	0.0035	0.0103	Aug-59
22	Sep-59	WASHINGTON WATER POWER CO	45.125	-0.00551	0	0.0034	-0.0089	Sep-59
22	Oct-59	WASHINGTON WATER POWER CO	45.625	0.01108	0	0.0035	0.0076	Oct-59
22	Nov-59	WASHINGTON WATER POWER CO	43.875	-0.0274	0.5	0.0035	-0.0309	Nov-59
22	Dec-59	WASHINGTON WATER POWER CO	42.125	-0.03989	0	0.0036	-0.0435	Dec-59
22	Jan-60	WASHINGTON WATER POWER CO	40.25	-0.04451	0	0.0035	-0.0480	Jan-60
22	Feb-60	WASHINGTON WATER POWER CO	41	0.031056	0.5	0.0037	0.0274	Feb-60
22	Mar-60	WASHINGTON WATER POWER CO	41.375	0.009146	0	0.0036	0.0055	Mar-60
22	Apr-60	WASHINGTON WATER POWER CO	40.75	-0.01511	0	0.0032	-0.0183	Apr-60
22	May-60	WASHINGTON WATER POWER CO	39.625	-0.01534	0.5	0.0037	-0.0190	May-60
22	Jun-60	WASHINGTON WATER POWER CO	40	0.009464	0	0.0034	0.0061	Jun-60
22	Jul-60	WASHINGTON WATER POWER CO	41.125	0.028125	0	0.0032	0.0249	Jul-60

22	Aug-60	WASHINGTON WATER POWER CO		42	0.033435	0.5	0.0034	0.0300	Aug-60
22	Sep-60	WASHINGTON WATER POWER CO		41.75	-0.00595	0	0.0032	-0.0092	Sep-60
22	Oct-60	WASHINGTON WATER POWER CO		41.875	0.002994	0	0.0033	-0.0003	Oct-60
22	Nov-60	WASHINGTON WATER POWER CO		40.5	-0.0209	0.5	0.0032	-0.0241	Nov-60
22	Dec-60	WASHINGTON WATER POWER CO		41.875	0.033951	0	0.0033	0.0307	Dec-60
22	Jan-61	WASHINGTON WATER POWER CO		45.75	0.092537	0	0.0033	0.0892	Jan-61
22	Feb-61	WASHINGTON WATER POWER CO		46.75	0.032787	0.5	0.0030	0.0298	Feb-61
22	Mar-61	WASHINGTON WATER POWER CO		51.375	0.09893	0	0.0031	0.0958	Mar-61
22	Apr-61	WASHINGTON WATER POWER CO		52.75	0.026764	0	0.0031	0.0237	Apr-61
22	May-61	WASHINGTON WATER POWER CO		52	-0.00474	0.5	0.0034	-0.0081	May-61
22	Jun-61	WASHINGTON WATER POWER CO		47.5	-0.08654	0	0.0032	-0.0897	Jun-61
22	Jul-61	WASHINGTON WATER POWER CO		49.625	0.044737	0	0.0033	0.0414	Jul-61
22	Aug-61	WASHINGTON WATER POWER CO		49.125	0	0.5	0.0033	-0.0033	Aug-61
22	Sep-61	WASHINGTON WATER POWER CO		49.25	0.002545	0	0.0032	-0.0007	Sep-61
22	Oct-61	WASHINGTON WATER POWER CO		51.5	0.045685	0	0.0034	0.0423	Oct-61
22	Nov-61	WASHINGTON WATER POWER CO		53.75	0.053398	0.5	0.0032	0.0502	Nov-61
22	Dec-61	WASHINGTON WATER POWER CO		51.125	-0.04884	0	0.0031	-0.0519	Dec-61
22	Jan-62	WASHINGTON WATER POWER CO		49.75	-0.0269	0	0.0037	-0.0306	Jan-62
22	Feb-62	WASHINGTON WATER POWER CO		49.5	0.005025	0.5	0.0032	0.0018	Feb-62
22	Mar-62	WASHINGTON WATER POWER CO		**-50.25**	0.015152	0	0.0033	0.0119	Mar-62
22	Apr-62	WASHINGTON WATER POWER CO		46.75	-0.06965	0	0.0033	-0.0730	Apr-62
22	May-62	WASHINGTON WATER POWER CO		44.25	-0.04278	0.5	0.0032	-0.0460	May-62
22	Jun-62	WASHINGTON WATER POWER CO		43	-0.02825	0	0.0030	-0.0312	Jun-62
22	Jul-62	WASHINGTON WATER POWER CO	WWP	45	0.046512	0	0.0034	0.0431	Jul-62
22	Aug-62	WASHINGTON WATER POWER CO	WWP	45.75	0.027778	0.5	0.0034	0.0244	Aug-62
22	Sep-62	WASHINGTON WATER POWER CO	WWP	44.5	-0.02732	0	0.0030	-0.0303	Sep-62
22	Oct-62	WASHINGTON WATER POWER CO	WWP	43	-0.03371	0	0.0035	-0.0372	Oct-62
22	Nov-62	WASHINGTON WATER POWER CO	WWP	46	0.081395	0.5	0.0031	0.0783	Nov-62
22	Dec-62	WASHINGTON WATER POWER CO	WWP	47.125	0.024457	0	0.0032	0.0213	Dec-62
22	Jan-63	WASHINGTON WATER POWER CO	WWP	50.5	0.071618	0	0.0032	0.0684	Jan-63
22	Feb-63	WASHINGTON WATER POWER CO	WWP	49.5	-0.0099	0.5	0.0029	-0.0128	Feb-63
22	Mar-63	WASHINGTON WATER POWER CO	WWP	49.25	-0.00505	0	0.0031	-0.0082	Mar-63
22	Apr-63	WASHINGTON WATER POWER CO	WWP	48.5	-0.01523	0	0.0034	-0.0186	Apr-63
22	May-63	WASHINGTON WATER POWER CO	WWP	48.875	0.018041	0.5	0.0033	0.0147	May-63
22	Jun-63	WASHINGTON WATER POWER CO	WWP	49	0.002558	0	0.0030	-0.0004	Jun-63
22	Jul-63	WASHINGTON WATER POWER CO	WWP	50	0.020408	0	0.0036	0.0168	Jul-63
22	Aug-63	WASHINGTON WATER POWER CO	WWP	49.875	0.0075	0.5	0.0033	0.0042	Aug-63
22	Sep-63	WASHINGTON WATER POWER CO	WWP	48.5	-0.02757	0	0.0034	-0.0310	Sep-63

22	Oct-63	WASHINGTON WATER POWER CO	WWP	47.5	-0.02062	0	0.0034	-0.0240	Oct-63
22	Nov-63	WASHINGTON WATER POWER CO	WWP	47.625	0.013579	0.52	0.0032	0.0104	Nov-63
22	Dec-63	WASHINGTON WATER POWER CO	WWP	48.5	0.018373	0	0.0036	0.0148	Dec-63
22	Jan-64	WASHINGTON WATER POWER CO	WWP	49.25	0.015464	0	0.0035	0.0120	Jan-64
22	Feb-64	WASHINGTON WATER POWER CO	WWP	48.25	-0.00975	0.52	0.0032	-0.0129	Feb-64
22	Mar-64	WASHINGTON WATER POWER CO	WWP	49.75	0.031088	0	0.0037	0.0274	Mar-64
22	Apr-64	WASHINGTON WATER POWER CO	WWP	49.25	-0.01005	0	0.0035	-0.0136	Apr-64
22	May-64	WASHINGTON WATER POWER CO	WWP	51.625	0.058782	0.52	0.0032	0.0556	May-64
22	Jun-64	WASHINGTON WATER POWER CO	WWP	25.5	-0.01211	0	0.0038	-0.0159	Jun-64
22	Jul-64	WASHINGTON WATER POWER CO	WWP	25.25	-0.0098	0	0.0035	-0.0133	Jul-64
22	Aug-64	WASHINGTON WATER POWER CO	WWP	25.75	0.030495	0.27	0.0035	0.0270	Aug-64
22	Sep-64	WASHINGTON WATER POWER CO	WWP	25.875	0.004854	0	0.0034	0.0015	Sep-64
22	Oct-64	WASHINGTON WATER POWER CO	WWP	25.375	-0.01932	0	0.0034	-0.0227	Oct-64
22	Nov-64	WASHINGTON WATER POWER CO	WWP	25.875	0.030345	0.27	0.0035	0.0268	Nov-64
22	Dec-64	WASHINGTON WATER POWER CO	WWP	26	0.004831	0	0.0035	0.0013	Dec-64
22	Jan-65	WASHINGTON WATER POWER CO	WWP	27.125	0.043269	0	0.0033	0.0400	Jan-65
22	Feb-65	WASHINGTON WATER POWER CO	WWP	26.375	-0.0177	0.27	0.0032	-0.0209	Feb-65
22	Mar-65	WASHINGTON WATER POWER CO	WWP	26.125	-0.00948	0	0.0038	-0.0133	Mar-65
22	Apr-65	WASHINGTON WATER POWER CO	WWP	26.375	0.009569	0	0.0033	0.0063	Apr-65
22	May-65	WASHINGTON WATER POWER CO	WWP	26.875	0.029194	0.27	0.0033	0.0259	May-65
22	Jun-65	WASHINGTON WATER POWER CO	WWP	25.25	-0.06047	0	0.0038	-0.0643	Jun-65
22	Jul-65	WASHINGTON WATER POWER CO	WWP	25.25	0	0	0.0034	-0.0034	Jul-65
22	Aug-65	WASHINGTON WATER POWER CO	WWP	25.625	0.025545	0.27	0.0037	0.0218	Aug-65
22	Sep-65	WASHINGTON WATER POWER CO	WWP	24.625	-0.03902	0	0.0035	-0.0425	Sep-65
22	Oct-65	WASHINGTON WATER POWER CO	WWP	24.375	-0.01015	0	0.0034	-0.0136	Oct-65
22	Nov-65	WASHINGTON WATER POWER CO	WWP	23.75	-0.01456	0.27	0.0037	-0.0183	Nov-65
22	Dec-65	WASHINGTON WATER POWER CO	WWP	24.125	0.015789	0	0.0037	0.0121	Dec-65
22	Jan-66	WASHINGTON WATER POWER CO	WWP	22.875	-0.05181	0	0.0038	-0.0556	Jan-66
22	Feb-66	WASHINGTON WATER POWER CO	WWP	22.875	0.011803	0.27	0.0034	0.0084	Feb-66
22	Mar-66	WASHINGTON WATER POWER CO	WWP	22.5	-0.01639	0	0.0040	-0.0204	Mar-66
22	Apr-66	WASHINGTON WATER POWER CO	WWP	22.625	0.005556	0	0.0036	0.0020	Apr-66
22	May-66	WASHINGTON WATER POWER CO	WWP	22	-0.01569	0.27	0.0041	-0.0198	May-66
22	Jun-66	WASHINGTON WATER POWER CO	WWP	22	0	0	0.0039	-0.0039	Jun-66
22	Jul-66	WASHINGTON WATER POWER CO	WWP	21.625	-0.01705	0	0.0038	-0.0208	Jul-66
22	Aug-66	WASHINGTON WATER POWER CO	WWP	21	-0.01549	0.29	0.0043	-0.0198	Aug-66
22	Sep-66	WASHINGTON WATER POWER CO	WWP	21	0	0	0.0041	-0.0041	Sep-66
22	Oct-66	WASHINGTON WATER POWER CO	WWP	22	0.047619	0	0.0040	0.0436	Oct-66
22	Nov-66	WASHINGTON WATER POWER CO	WWP	21.125	-0.02659	0.29	0.0038	-0.0304	Nov-66

22	Dec-66	WASHINGTON WATER POWER CO	WWP	21.5	0.017751	0	0.0039	0.0139	Dec-66
22	Jan-67	WASHINGTON WATER POWER CO	WWP	24.375	0.133721	0	0.0040	0.1297	Jan-67
22	Feb-67	WASHINGTON WATER POWER CO	WWP	22.625	-0.0599	0.29	0.0034	-0.0633	Feb-67
22	Mar-67	WASHINGTON WATER POWER CO	WWP	22.375	-0.01105	0	0.0039	-0.0150	Mar-67
22	Apr-67	WASHINGTON WATER POWER CO	WWP	22.625	0.011173	0	0.0035	0.0077	Apr-67
22	May-67	WASHINGTON WATER POWER CO	WWP	22.75	0.018343	0.29	0.0043	0.0140	May-67
22	Jun-67	WASHINGTON WATER POWER CO	WWP	22.25	-0.02198	0	0.0039	-0.0259	Jun-67
22	Jul-67	WASHINGTON WATER POWER CO	WWP	23.375	0.050562	0	0.0043	0.0463	Jul-67
22	Aug-67	WASHINGTON WATER POWER CO	WWP	23.25	0.007487	0.3	0.0042	0.0033	Aug-67
22	Sep-67	WASHINGTON WATER POWER CO	WWP	23.25	0	0	0.0040	-0.0040	Sep-67
22	Oct-67	WASHINGTON WATER POWER CO	WWP	22.625	-0.02688	0	0.0045	-0.0314	Oct-67
22	Nov-67	WASHINGTON WATER POWER CO	WWP	21.625	-0.03094	0.3	0.0045	-0.0354	Nov-67
22	Dec-67	WASHINGTON WATER POWER CO	WWP	21.75	0.00578	0	0.0044	0.0014	Dec-67
22	Jan-68	WASHINGTON WATER POWER CO	WWP	22.875	0.051724	0	0.0050	0.0467	Jan-68
22	Feb-68	WASHINGTON WATER POWER CO	WWP	22.25	-0.01421	0.3	0.0042	-0.0184	Feb-68
22	Mar-68	WASHINGTON WATER POWER CO	WWP	22	-0.01124	0	0.0043	-0.0155	Mar-68
22	Apr-68	WASHINGTON WATER POWER CO	WWP	21.875	-0.00568	0	0.0049	-0.0106	Apr-68
22	May-68	WASHINGTON WATER POWER CO	WWP	21.875	0.013714	0.3	0.0046	0.0091	May-68
22	Jun-68	WASHINGTON WATER POWER CO	WWP	22.25	0.017143	0	0.0042	0.0129	Jun-68
22	Jul-68	WASHINGTON WATER POWER CO	WWP	22.5	0.011236	0	0.0048	0.0064	Jul-68
22	Aug-68	WASHINGTON WATER POWER CO	WWP	23	0.035556	0.3	0.0042	0.0314	Aug-68
22	Sep-68	WASHINGTON WATER POWER CO	WWP	22.75	-0.01087	0	0.0044	-0.0153	Sep-68
22	Oct-68	WASHINGTON WATER POWER CO	WWP	23	0.010989	0	0.0045	0.0065	Oct-68
22	Nov-68	WASHINGTON WATER POWER CO	WWP	24.25	0.067826	0.31	0.0043	0.0635	Nov-68
22	Dec-68	WASHINGTON WATER POWER CO	WWP	24.25	0	0	0.0049	-0.0049	Dec-68
22	Jan-69	WASHINGTON WATER POWER CO	WWP	24.875	0.025773	0	0.0050	0.0208	Jan-69
22	Feb-69	WASHINGTON WATER POWER CO	WWP	24	-0.02231	0.32	0.0046	-0.0269	Feb-69
22	Mar-69	WASHINGTON WATER POWER CO	WWP	23.875	-0.00521	0	0.0047	-0.0099	Mar-69
22	Apr-69	WASHINGTON WATER POWER CO	WWP	24.75	0.036649	0	0.0055	0.0311	Apr-69
22	May-69	WASHINGTON WATER POWER CO	WWP	26.625	0.088687	0.32	0.0047	0.0840	May-69
22	Jun-69	WASHINGTON WATER POWER CO	WWP	23.125	-0.13146	0	0.0055	-0.1370	Jun-69
22	Jul-69	WASHINGTON WATER POWER CO	WWP	22.25	-0.03784	0	0.0052	-0.0430	Jul-69
22	Aug-69	WASHINGTON WATER POWER CO	WWP	22.75	0.036854	0.32	0.0048	0.0321	Aug-69
22	Sep-69	WASHINGTON WATER POWER CO	WWP	21.875	-0.03846	0	0.0055	-0.0440	Sep-69
22	Oct-69	WASHINGTON WATER POWER CO	WWP	21.25	-0.02857	0	0.0057	-0.0343	Oct-69
22	Nov-69	WASHINGTON WATER POWER CO	WWP	20.75	-0.00847	0.32	0.0049	-0.0134	Nov-69
22	Dec-69	WASHINGTON WATER POWER CO	WWP	20.25	-0.0241	0	0.0060	-0.0301	Dec-69
22	Jan-70	WASHINGTON WATER POWER CO	WWP	20	-0.01235	0	0.0056	-0.0179	Jan-70

22	Feb-70	WASHINGTON WATER POWER CO	WWP	19.5	-0.009	0.32	0.0052	-0.0142	Feb-70
22	Mar-70	WASHINGTON WATER POWER CO	WWP	20.375	0.044872	0	0.0056	0.0393	Mar-70
22	Apr-70	WASHINGTON WATER POWER CO	WWP	19.5	-0.04295	0	0.0054	-0.0483	Apr-70
22	May-70	WASHINGTON WATER POWER CO	WWP	18.875	-0.01564	0.32	0.0055	-0.0211	May-70
22	Jun-70	WASHINGTON WATER POWER CO	WWP	18	-0.04636	0	0.0064	-0.0528	Jun-70
22	Jul-70	WASHINGTON WATER POWER CO	WWP	18.5	0.027778	0	0.0059	0.0219	Jul-70
22	Aug-70	WASHINGTON WATER POWER CO	WWP	19	0.045405	0.34	0.0057	0.0397	Aug-70
22	Sep-70	WASHINGTON WATER POWER CO	WWP	18.875	-0.00658	0	0.0056	-0.0122	Sep-70
22	Oct-70	WASHINGTON WATER POWER CO	WWP	20.125	0.066225	0	0.0055	0.0607	Oct-70
22	Nov-70	WASHINGTON WATER POWER CO	WWP	20.625	0.041739	0.34	0.0058	0.0359	Nov-70
22	Dec-70	WASHINGTON WATER POWER CO	WWP	21.25	0.030303	0	0.0053	0.0250	Dec-70
22	Jan-71	WASHINGTON WATER POWER CO	WWP	22.5	0.058824	0	0.0051	0.0537	Jan-71
22	Feb-71	WASHINGTON WATER POWER CO	WWP	22.75	0.026222	0.34	0.0046	0.0216	Feb-71
22	Mar-71	WASHINGTON WATER POWER CO	WWP	22.25	-0.02198	0	0.0056	-0.0276	Mar-71
22	Apr-71	WASHINGTON WATER POWER CO	WWP	22.25	0	0	0.0048	-0.0048	Apr-71
22	May-71	WASHINGTON WATER POWER CO	WWP	21.375	-0.02405	0.34	0.0047	-0.0287	May-71
22	Jun-71	WASHINGTON WATER POWER CO	WWP	20.625	-0.03509	0	0.0056	-0.0407	Jun-71
22	Jul-71	WASHINGTON WATER POWER CO	WWP	21.375	0.036364	0	0.0052	0.0312	Jul-71
22	Aug-71	WASHINGTON WATER POWER CO	WWP	20.75	-0.01333	0.34	0.0055	-0.0188	Aug-71
22	Sep-71	WASHINGTON WATER POWER CO	WWP	20.25	-0.0241	0	0.0049	-0.0290	Sep-71
22	Oct-71	WASHINGTON WATER POWER CO	WWP	20.875	0.030864	0	0.0047	0.0262	Oct-71
22	Nov-71	WASHINGTON WATER POWER CO	WWP	20.75	0.010299	0.34	0.0051	0.0052	Nov-71
22	Dec-71	WASHINGTON WATER POWER CO	WWP	21.875	0.054217	0	0.0050	0.0492	Dec-71
22	Jan-72	WASHINGTON WATER POWER CO	WWP	22.25	0.017143	0	0.0050	0.0121	Jan-72
22	Feb-72	WASHINGTON WATER POWER CO	WWP	21.25	-0.02966	0.34	0.0047	-0.0344	Feb-72
22	Mar-72	WASHINGTON WATER POWER CO	WWP	21.625	0.017647	0	0.0049	0.0127	Mar-72
22	Apr-72	WASHINGTON WATER POWER CO	WWP	21.875	0.011561	0	0.0048	0.0068	Apr-72
22	May-72	WASHINGTON WATER POWER CO	WWP	22.5	0.044571	0.35	0.0055	0.0391	May-72
22	Jun-72	WASHINGTON WATER POWER CO	WWP	21.375	-0.05	0	0.0049	-0.0549	Jun-72
22	Jul-72	WASHINGTON WATER POWER CO	WWP	21.5	0.005848	0	0.0051	0.0007	Jul-72
22	Aug-72	WASHINGTON WATER POWER CO	WWP	21.25	0.004651	0.35	0.0049	-0.0002	Aug-72
22	Sep-72	WASHINGTON WATER POWER CO	WWP	21.75	0.023529	0	0.0047	0.0188	Sep-72
22	Oct-72	WASHINGTON WATER POWER CO	WWP	22	0.011494	0	0.0052	0.0063	Oct-72
22	Nov-72	WASHINGTON WATER POWER CO	WWP	23	0.061364	0.35	0.0048	0.0566	Nov-72
22	Dec-72	WASHINGTON WATER POWER CO	WWP	22	-0.04348	0	0.0045	-0.0480	Dec-72
22	Jan-73	WASHINGTON WATER POWER CO	WWP	22	0	0	0.0054	-0.0054	Jan-73
22	Feb-73	WASHINGTON WATER POWER CO	WWP	21	-0.02909	0.36	0.0051	-0.0342	Feb-73
22	Mar-73	WASHINGTON WATER POWER CO	WWP	20.75	-0.01191	0	0.0056	-0.0175	Mar-73

22	Apr-73	WASHINGTON WATER POWER CO	WWP	21.375	0.03012	0	0.0057	0.0244	Apr-73
22	May-73	WASHINGTON WATER POWER CO	WWP	20.625	-0.01825	0.36	0.0058	-0.0240	May-73
22	Jun-73	WASHINGTON WATER POWER CO	WWP	21	0.018182	0	0.0055	0.0127	Jun-73
22	Jul-73	WASHINGTON WATER POWER CO	WWP	20.625	-0.01786	0	0.0061	-0.0240	Jul-73
22	Aug-73	WASHINGTON WATER POWER CO	WWP	19.25	-0.04921	0.36	0.0062	-0.0554	Aug-73
22	Sep-73	WASHINGTON WATER POWER CO	WWP	20.5	0.064935	0	0.0055	0.0594	Sep-73
22	Oct-73	WASHINGTON WATER POWER CO	WWP	19.5	-0.04878	0	0.0063	-0.0551	Oct-73
22	Nov-73	WASHINGTON WATER POWER CO	WWP	18.875	-0.01359	0.36	0.0056	-0.0192	Nov-73
22	Dec-73	WASHINGTON WATER POWER CO	WWP	18.75	-0.00662	0	0.0060	-0.0126	Dec-73
22	Jan-74	WASHINGTON WATER POWER CO	WWP	19.625	0.046667	0	0.0061	0.0406	Jan-74
22	Feb-74	WASHINGTON WATER POWER CO	WWP	20.25	0.050701	0.37	0.0055	0.0452	Feb-74
22	Mar-74	WASHINGTON WATER POWER CO	WWP	20.5	0.012346	0	0.0058	0.0065	Mar-74
22	Apr-74	WASHINGTON WATER POWER CO	WWP	18.625	-0.09146	0	0.0068	-0.0983	Apr-74
22	May-74	WASHINGTON WATER POWER CO	WWP	18.625	0.019866	0.37	0.0068	0.0131	May-74
22	Jun-74	WASHINGTON WATER POWER CO	WWP	17.5	-0.0604	0	0.0061	-0.0665	Jun-74
22	Jul-74	WASHINGTON WATER POWER CO	WWP	17.375	-0.00714	0	0.0072	-0.0143	Jul-74
22	Aug-74	WASHINGTON WATER POWER CO	WWP	17	-0.00029	0.37	0.0065	-0.0068	Aug-74
22	Sep-74	WASHINGTON WATER POWER CO	WWP	16.25	-0.04412	0	0.0071	-0.0512	Sep-74
22	Oct-74	WASHINGTON WATER POWER CO	WWP	17	0.046154	0	0.0070	0.0392	Oct-74
22	Nov-74	WASHINGTON WATER POWER CO	WWP	17.25	0.037059	0.38	0.0062	0.0309	Nov-74
22	Dec-74	WASHINGTON WATER POWER CO	WWP	16.75	-0.02899	0	0.0067	-0.0357	Dec-74
22	Jan-75	WASHINGTON WATER POWER CO	WWP	19.625	0.171642	0	0.0068	0.1648	Jan-75
22	Feb-75	WASHINGTON WATER POWER CO	WWP	17.875	-0.06981	0.38	0.0060	-0.0758	Feb-75
22	Mar-75	WASHINGTON WATER POWER CO	WWP	18.25	0.020979	0	0.0066	0.0144	Mar-75
22	Apr-75	WASHINGTON WATER POWER CO	WWP	17.75	-0.0274	0	0.0067	-0.0341	Apr-75
22	May-75	WASHINGTON WATER POWER CO	WWP	17.75	0.021408	0.38	0.0067	0.0147	May-75
22	Jun-75	WASHINGTON WATER POWER CO	WWP	19.625	0.105634	0	0.0070	0.0986	Jun-75
22	Jul-75	WASHINGTON WATER POWER CO	WWP	18.75	-0.04459	0	0.0068	-0.0514	Jul-75
22	Aug-75	WASHINGTON WATER POWER CO	WWP	18	-0.01973	0.38	0.0065	-0.0262	Aug-75
22	Sep-75	WASHINGTON WATER POWER CO	WWP	18.75	0.041667	0	0.0073	0.0344	Sep-75
22	Oct-75	WASHINGTON WATER POWER CO	WWP	19.625	0.046667	0	0.0072	0.0395	Oct-75
22	Nov-75	WASHINGTON WATER POWER CO	WWP	18.75	-0.02471	0.39	0.0061	-0.0308	Nov-75
22	Dec-75	WASHINGTON WATER POWER CO	WWP	19.875	0.06	0	0.0074	0.0526	Dec-75
22	Jan-76	WASHINGTON WATER POWER CO	WWP	20.375	0.025157	0	0.0065	0.0187	Jan-76
22	Feb-76	WASHINGTON WATER POWER CO	WWP	20.625	0.031411	0.39	0.0060	0.0254	Feb-76
22	Mar-76	WASHINGTON WATER POWER CO	WWP	20.75	0.006061	0	0.0071	-0.0010	Mar-76
22	Apr-76	WASHINGTON WATER POWER CO	WWP	20	-0.03615	0	0.0064	-0.0425	Apr-76
22	May-76	WASHINGTON WATER POWER CO	WWP	20.125	0.02625	0.4	0.0059	0.0204	May-76

22	Jun-76	WASHINGTON WATER POWER CO	WWP	21.375	0.062112	0	0.0073	0.0548	Jun-76
22	Jul-76	WASHINGTON WATER POWER CO	WWP	22.125	0.035088	0	0.0065	0.0286	Jul-76
22	Aug-76	WASHINGTON WATER POWER CO	WWP	22.625	0.041582	0.42	0.0069	0.0347	Aug-76
22	Sep-76	WASHINGTON WATER POWER CO	WWP	22.625	0	0	0.0064	-0.0064	Sep-76
22	Oct-76	WASHINGTON WATER POWER CO	WWP	23.125	0.022099	0	0.0061	0.0160	Oct-76
22	Nov-76	WASHINGTON WATER POWER CO	WWP	23.75	0.046054	0.44	0.0066	0.0395	Nov-76
22	Dec-76	WASHINGTON WATER POWER CO	WWP	25.625	0.078947	0	0.0063	0.0726	Dec-76
22	Jan-77	WASHINGTON WATER POWER CO	WWP	24.625	-0.03902	0	0.0059	-0.0449	Jan-77
22	Feb-77	WASHINGTON WATER POWER CO	WWP	22.75	-0.05827	0.44	0.0057	-0.0640	Feb-77
22	Mar-77	WASHINGTON WATER POWER CO	WWP	22.375	-0.01648	0	0.0065	-0.0230	Mar-77
22	Apr-77	WASHINGTON WATER POWER CO	WWP	22.75	0.01676	0	0.0061	0.0107	Apr-77
22	May-77	WASHINGTON WATER POWER CO	WWP	22.125	-0.00813	0.44	0.0067	-0.0148	May-77
22	Jun-77	WASHINGTON WATER POWER CO	WWP	22.625	0.022599	0	0.0062	0.0164	Jun-77
22	Jul-77	WASHINGTON WATER POWER CO	WWP	23.25	0.027624	0	0.0059	0.0217	Jul-77
22	Aug-77	WASHINGTON WATER POWER CO	WWP	21.875	-0.04022	0.44	0.0067	-0.0469	Aug-77
22	Sep-77	WASHINGTON WATER POWER CO	WWP	22.25	0.017143	0	0.0061	0.0110	Sep-77
22	Oct-77	WASHINGTON WATER POWER CO	WWP	22.5	0.011236	0	0.0063	0.0049	Oct-77
22	Nov-77	WASHINGTON WATER POWER CO	WWP	22.5	0.019556	0.44	0.0063	0.0133	Nov-77
22	Dec-77	WASHINGTON WATER POWER CO	WWP	22	-0.02222	0	0.0062	-0.0284	Dec-77
22	Jan-78	WASHINGTON WATER POWER CO	WWP	22.125	0.005682	0	0.0069	-0.0012	Jan-78
22	Feb-78	WASHINGTON WATER POWER CO	WWP	22.375	0.03209	0.46	0.0060	0.0261	Feb-78
22	Mar-78	WASHINGTON WATER POWER CO	WWP	22	-0.01676	0	0.0069	-0.0237	Mar-78
22	Apr-78	WASHINGTON WATER POWER CO	WWP	21.625	-0.01705	0	0.0063	-0.0233	Apr-78
22	May-78	WASHINGTON WATER POWER CO	WWP	21.75	0.027977	0.48	0.0075	0.0205	May-78
22	Jun-78	WASHINGTON WATER POWER CO	WWP	22.375	0.028736	0	0.0069	0.0218	Jun-78
22	Jul-78	WASHINGTON WATER POWER CO	WWP	22.5	0.005587	0	0.0073	-0.0017	Jul-78
22	Aug-78	WASHINGTON WATER POWER CO	WWP	23.125	0.05	0.5	0.0070	0.0430	Aug-78
22	Sep-78	WASHINGTON WATER POWER CO	WWP	22.75	-0.01622	0	0.0065	-0.0227	Sep-78
22	Oct-78	WASHINGTON WATER POWER CO	WWP	21.25	-0.06593	0	0.0073	-0.0732	Oct-78
22	Nov-78	WASHINGTON WATER POWER CO	WWP	21	0.011765	0.5	0.0071	0.0047	Nov-78
22	Dec-78	WASHINGTON WATER POWER CO	WWP	21.75	0.035714	0	0.0068	0.0289	Dec-78
22	Jan-79	WASHINGTON WATER POWER CO	WWP	23	0.057471	0	0.0079	0.0496	Jan-79
22	Feb-79	WASHINGTON WATER POWER CO	WWP	22.5	0.00087	0.52	0.0065	-0.0056	Feb-79
22	Mar-79	WASHINGTON WATER POWER CO	WWP	22.875	0.016667	0	0.0074	0.0093	Mar-79
22	Apr-79	WASHINGTON WATER POWER CO	WWP	22.75	-0.00546	0	0.0076	-0.0131	Apr-79
22	May-79	WASHINGTON WATER POWER CO	WWP	22.375	0.006374	0.52	0.0077	-0.0013	May-79
22	Jun-79	WASHINGTON WATER POWER CO	WWP	22.875	0.022346	0	0.0071	0.0152	Jun-79
22	Jul-79	WASHINGTON WATER POWER CO	WWP	23.125	0.010929	0	0.0076	0.0033	Jul-79

22	Aug-79	WASHINGTON WATER POWER CO	WWP	22.375	-0.00995	0.52	0.0073	-0.0172	Aug-79
22	Sep-79	WASHINGTON WATER POWER CO	WWP	22.125	-0.01117	0	0.0068	-0.0180	Sep-79
22	Oct-79	WASHINGTON WATER POWER CO	WWP	20.625	-0.0678	0	0.0082	-0.0760	Oct-79
22	Nov-79	WASHINGTON WATER POWER CO	WWP	20.75	0.031273	0.52	0.0083	0.0230	Nov-79
22	Dec-79	WASHINGTON WATER POWER CO	WWP	19.375	-0.06627	0	0.0083	-0.0746	Dec-79
22	Jan-80	WASHINGTON WATER POWER CO	WWP	18.875	-0.02581	0	0.0083	-0.0341	Jan-80
22	Feb-80	WASHINGTON WATER POWER CO	WWP	18.25	-0.0045	0.54	0.0084	-0.0129	Feb-80
22	Mar-80	WASHINGTON WATER POWER CO	WWP	17.5	-0.0411	0	0.0099	-0.0510	Mar-80
22	Apr-80	WASHINGTON WATER POWER CO	WWP	18.625	0.064286	0	0.0100	0.0543	Apr-80
22	May-80	WASHINGTON WATER POWER CO	WWP	18.25	0.008859	0.54	0.0087	0.0002	May-80
22	Jun-80	WASHINGTON WATER POWER CO	WWP	19.375	0.061644	0	0.0086	0.0530	Jun-80
22	Jul-80	WASHINGTON WATER POWER CO	WWP	19.5	0.006452	0	0.0084	-0.0019	Jul-80
22	Aug-80	WASHINGTON WATER POWER CO	WWP	18	-0.04923	0.54	0.0081	-0.0573	Aug-80
22	Sep-80	WASHINGTON WATER POWER CO	WWP	17.5	-0.02778	0	0.0097	-0.0375	Sep-80
22	Oct-80	WASHINGTON WATER POWER CO	WWP	18.375	0.05	0	0.0097	0.0403	Oct-80
22	Nov-80	WASHINGTON WATER POWER CO	WWP	16.375	-0.07946	0.54	0.0091	-0.0886	Nov-80
22	Dec-80	WASHINGTON WATER POWER CO	WWP	16.5	0.007634	0	0.0108	-0.0032	Dec-80
22	Jan-81	WASHINGTON WATER POWER CO	WWP	17.75	0.075758	0	0.0094	0.0664	Jan-81
22	Feb-81	WASHINGTON WATER POWER CO	WWP	16.75	-0.02479	0.56	0.0088	-0.0336	Feb-81
22	Mar-81	WASHINGTON WATER POWER CO	WWP	17	0.014925	0	0.0111	0.0038	Mar-81
22	Apr-81	WASHINGTON WATER POWER CO	WWP	16.75	-0.01471	0	0.0101	-0.0248	Apr-81
22	May-81	WASHINGTON WATER POWER CO	WWP	15.875	-0.01881	0.56	0.0104	-0.0292	May-81
22	Jun-81	WASHINGTON WATER POWER CO	WWP	17.25	0.086614	0	0.0109	0.0757	Jun-81
22	Jul-81	WASHINGTON WATER POWER CO	WWP	17.625	0.021739	0	0.0109	0.0108	Jul-81
22	Aug-81	WASHINGTON WATER POWER CO	WWP	16.625	-0.02383	0.58	0.0110	-0.0348	Aug-81
22	Sep-81	WASHINGTON WATER POWER CO	WWP	16.875	0.015038	0	0.0114	0.0036	Sep-81
22	Oct-81	WASHINGTON WATER POWER CO	WWP	17	0.007407	0	0.0117	-0.0043	Oct-81
22	Nov-81	WASHINGTON WATER POWER CO	WWP	18	0.092941	0.58	0.0113	0.0816	Nov-81
22	Dec-81	WASHINGTON WATER POWER CO	WWP	17.5	-0.02778	0	0.0100	-0.0378	Dec-81
22	Jan-82	WASHINGTON WATER POWER CO	WWP	18	0.028571	0	0.0108	0.0178	Jan-82
22	Feb-82	WASHINGTON WATER POWER CO	WWP	18	0.033333	0.6	0.0103	0.0230	Feb-82
22	Mar-82	WASHINGTON WATER POWER CO	WWP	17	-0.05556	0	0.0124	-0.0680	Mar-82
22	Apr-82	WASHINGTON WATER POWER CO	WWP	18.375	0.080882	0	0.0112	0.0697	Apr-82
22	May-82	WASHINGTON WATER POWER CO	WWP	18.125	0.019048	0.6	0.0101	0.0089	May-82
22	Jun-82	WASHINGTON WATER POWER CO	WWP	17.25	-0.04828	0	0.0120	-0.0603	Jun-82
22	Jul-82	WASHINGTON WATER POWER CO	WWP	17.625	0.021739	0	0.0114	0.0103	Jul-82
22	Aug-82	WASHINGTON WATER POWER CO	WWP	18.875	0.104965	0.6	0.0112	0.0938	Aug-82
22	Sep-82	WASHINGTON WATER POWER CO	WWP	19.5	0.033113	0	0.0100	0.0231	Sep-82

22	Oct-82	WASHINGTON WATER POWER CO	WWP	20	0.025641	0	0.0091	0.0165	Oct-82
22	Nov-82	WASHINGTON WATER POWER CO	WWP	20	0.03	0.6	0.0094	0.0206	Nov-82
22	Dec-82	WASHINGTON WATER POWER CO	WWP	20.75	0.0375	0	0.0093	0.0282	Dec-82
22	Jan-83	WASHINGTON WATER POWER CO	WWP	21.625	0.042169	0	0.0087	0.0335	Jan-83
22	Feb-83	WASHINGTON WATER POWER CO	WWP	21.5	0.02289	0.62	0.0081	0.0148	Feb-83
22	Mar-83	WASHINGTON WATER POWER CO	WWP	21.5	0	0	0.0089	-0.0089	Mar-83
22	Apr-83	WASHINGTON WATER POWER CO	WWP	22	0.023256	0	0.0085	0.0148	Apr-83
22	May-83	WASHINGTON WATER POWER CO	WWP	20.625	-0.03432	0.62	0.0091	-0.0434	May-83
22	Jun-83	WASHINGTON WATER POWER CO	WWP	19.75	-0.04242	0	0.0090	-0.0514	Jun-83
22	Jul-83	WASHINGTON WATER POWER CO	WWP	19.5	-0.01266	0	0.0088	-0.0215	Jul-83
22	Aug-83	WASHINGTON WATER POWER CO	WWP	19.375	0.025385	0.62	0.0103	0.0151	Aug-83
22	Sep-83	WASHINGTON WATER POWER CO	WWP	20.125	0.03871	0	0.0096	0.0291	Sep-83
22	Oct-83	WASHINGTON WATER POWER CO	WWP	21.375	0.062112	0	0.0095	0.0526	Oct-83
22	Nov-83	WASHINGTON WATER POWER CO	WWP	19.375	-0.06456	0.62	0.0094	-0.0740	Nov-83
22	Dec-83	WASHINGTON WATER POWER CO	WWP	19.625	0.012903	0	0.0094	0.0035	Dec-83
22	Jan-84	WASHINGTON WATER POWER CO	WWP	19.875	0.012739	0	0.0103	0.0024	Jan-84
22	Feb-84	WASHINGTON WATER POWER CO	WWP	18.75	-0.02541	0.62	0.0092	-0.0346	Feb-84
22	Mar-84	WASHINGTON WATER POWER CO	WWP	18.125	-0.03333	0	0.0098	-0.0431	Mar-84
22	Apr-84	WASHINGTON WATER POWER CO	WWP	16.625	-0.08276	0	0.0104	-0.0932	Apr-84
22	May-84	WASHINGTON WATER POWER CO	WWP	16.5	0.029774	0.62	0.0103	0.0195	May-84
22	Jun-84	WASHINGTON WATER POWER CO	WWP	16.5	0	0	0.0106	-0.0106	Jun-84
22	Jul-84	WASHINGTON WATER POWER CO	WWP	17.125	0.037879	0	0.0116	0.0263	Jul-84
22	Aug-84	WASHINGTON WATER POWER CO	WWP	17.125	0.036204	0.62	0.0106	0.0256	Aug-84
22	Sep-84	WASHINGTON WATER POWER CO	WWP	18.5	0.080292	0	0.0094	0.0709	Sep-84
22	Oct-84	WASHINGTON WATER POWER CO	WWP	18.375	-0.00676	0	0.0108	-0.0176	Oct-84
22	Nov-84	WASHINGTON WATER POWER CO	WWP	18.25	0.026939	0.62	0.0091	0.0178	Nov-84
22	Dec-84	WASHINGTON WATER POWER CO	WWP	18.5	0.013699	0	0.0098	0.0039	Dec-84
22	Jan-85	WASHINGTON WATER POWER CO	WWP	20.125	0.087838	0	0.0096	0.0782	Jan-85
22	Feb-85	WASHINGTON WATER POWER CO	WWP	19.5	-0.00025	0.62	0.0082	-0.0084	Feb-85
22	Mar-85	WASHINGTON WATER POWER CO	WWP	20.375	0.044872	0	0.0094	0.0355	Mar-85
22	Apr-85	WASHINGTON WATER POWER CO	WWP	20.75	0.018405	0	0.0102	0.0082	Apr-85
22	May-85	WASHINGTON WATER POWER CO	WWP	22.375	0.108193	0.62	0.0097	0.0985	May-85
22	Jun-85	WASHINGTON WATER POWER CO	WWP	23.875	0.067039	0	0.0080	0.0590	Jun-85
22	Jul-85	WASHINGTON WATER POWER CO	WWP	22.875	-0.04189	0	0.0094	-0.0513	Jul-85
22	Aug-85	WASHINGTON WATER POWER CO	WWP	21.75	-0.02208	0.62	0.0085	-0.0306	Aug-85
22	Sep-85	WASHINGTON WATER POWER CO	WWP	21.5	-0.01149	0	0.0088	-0.0203	Sep-85
22	Oct-85	WASHINGTON WATER POWER CO	WWP	22.5	0.046512	0	0.0089	0.0376	Oct-85
22	Nov-85	WASHINGTON WATER POWER CO	WWP	22.875	0.044222	0.62	0.0081	0.0361	Nov-85

22	Dec-85	WASHINGTON WATER POWER CO	WWP	25	0.092896	0	0.0086	0.0843	Dec-85
22	Jan-86	WASHINGTON WATER POWER CO	WWP	25.5	0.02	0	0.0079	0.0121	Jan-86
22	Feb-86	WASHINGTON WATER POWER CO	WWP	27.25	0.092941	0.62	0.0073	0.0856	Feb-86
22	Mar-86	WASHINGTON WATER POWER CO	WWP	28	0.027523	0	0.0071	0.0204	Mar-86
22	Apr-86	WASHINGTON WATER POWER CO	WWP	28.125	0.004464	0	0.0063	-0.0018	Apr-86
22	May-86	WASHINGTON WATER POWER CO	WWP	28.625	0.039822	0.62	0.0062	0.0336	May-86
22	Jun-86	WASHINGTON WATER POWER CO	WWP	30	0.048035	0	0.0070	0.0410	Jun-86
22	Jul-86	WASHINGTON WATER POWER CO	WWP	29.375	-0.02083	0	0.0066	-0.0274	Jul-86
22	Aug-86	WASHINGTON WATER POWER CO	WWP	30.5	0.059404	0.62	0.0063	0.0531	Aug-86
22	Sep-86	WASHINGTON WATER POWER CO	WWP	27.5	-0.09836	0	0.0065	-0.1049	Sep-86
22	Oct-86	WASHINGTON WATER POWER CO	WWP	28.125	0.022727	0	0.0069	0.0158	Oct-86
22	Nov-86	WASHINGTON WATER POWER CO	WWP	27.25	-0.00907	0.62	0.0059	-0.0150	Nov-86
22	Dec-86	WASHINGTON WATER POWER CO	WWP	25.25	-0.07339	0	0.0070	-0.0804	Dec-86
22	Jan-87	WASHINGTON WATER POWER CO	WWP	28.75	0.138614	0	0.0064	0.1322	Jan-87
22	Feb-87	WASHINGTON WATER POWER CO	WWP	29.375	0.043304	0.62	0.0059	0.0374	Feb-87
22	Mar-87	WASHINGTON WATER POWER CO	WWP	29.375	0	0	0.0066	-0.0066	Mar-87
22	Apr-87	WASHINGTON WATER POWER CO	WWP	27	-0.08085	0	0.0065	-0.0874	Apr-87
22	May-87	WASHINGTON WATER POWER CO	WWP	25.5	-0.03259	0.62	0.0066	-0.0392	May-87
22	Jun-87	WASHINGTON WATER POWER CO	WWP	27.25	0.068627	0	0.0075	0.0611	Jun-87
22	Jul-87	WASHINGTON WATER POWER CO	WWP	26.875	-0.01376	0	0.0073	-0.0211	Jul-87
22	Aug-87	WASHINGTON WATER POWER CO	WWP	28	0.06493	0.62	0.0075	0.0574	Aug-87
22	Sep-87	WASHINGTON WATER POWER CO	WWP	26.625	-0.04911	0	0.0075	-0.0566	Sep-87
22	Oct-87	WASHINGTON WATER POWER CO	WWP	24.375	-0.08451	0	0.0079	-0.0924	Oct-87
22	Nov-87	WASHINGTON WATER POWER CO	WWP	23	-0.03097	0.62	0.0075	-0.0385	Nov-87
22	Dec-87	WASHINGTON WATER POWER CO	WWP	23.375	0.016304	0	0.0078	0.0085	Dec-87
22	Jan-88	WASHINGTON WATER POWER CO	WWP	26.5	0.13369	0	0.0072	0.1265	Jan-88
22	Feb-88	WASHINGTON WATER POWER CO	WWP	26.75	0.03283	0.62	0.0071	0.0257	Feb-88
22	Mar-88	WASHINGTON WATER POWER CO	WWP	24.5	-0.08411	0	0.0072	-0.0913	Mar-88
22	Apr-88	WASHINGTON WATER POWER CO	WWP	26	0.061224	0	0.0070	0.0542	Apr-88
22	May-88	WASHINGTON WATER POWER CO	WWP	26.5	0.043077	0.62	0.0078	0.0353	May-88
22	Jun-88	WASHINGTON WATER POWER CO	WWP	27.5	0.037736	0	0.0076	0.0301	Jun-88
22	Jul-88	WASHINGTON WATER POWER CO	WWP	27	-0.01818	0	0.0071	-0.0253	Jul-88
22	Aug-88	WASHINGTON WATER POWER CO	WWP	26.125	-0.00944	0.62	0.0083	-0.0177	Aug-88
22	Sep-88	WASHINGTON WATER POWER CO	WWP	27.25	0.043062	0	0.0076	0.0355	Sep-88
22	Oct-88	WASHINGTON WATER POWER CO	WWP	27.625	0.013761	0	0.0076	0.0062	Oct-88
22	Nov-88	WASHINGTON WATER POWER CO	WWP	26.75	-0.00923	0.62	0.0070	-0.0162	Nov-88
22	Dec-88	WASHINGTON WATER POWER CO	WWP	27.5	0.028037	0	0.0075	0.0205	Dec-88
22	Jan-89	WASHINGTON WATER POWER CO	WWP	27.25	-0.00909	0	0.0080	-0.0171	Jan-89

22	Feb-89	WASHINGTON WATER POWER CO	WWP	26.25	-0.01395	0.62	0.0069	-0.0208	Feb-89
22	Mar-89	WASHINGTON WATER POWER CO	WWP	26.375	0.004762	0	0.0079	-0.0031	Mar-89
22	Apr-89	WASHINGTON WATER POWER CO	WWP	27.375	0.037915	0	0.0070	0.0309	Apr-89
22	May-89	WASHINGTON WATER POWER CO	WWP	28.75	0.072877	0.62	0.0080	0.0649	May-89
22	Jun-89	WASHINGTON WATER POWER CO	WWP	29.5	0.026087	0	0.0070	0.0191	Jun-89
22	Jul-89	WASHINGTON WATER POWER CO	WWP	30.125	0.021186	0	0.0068	0.0144	Jul-89
22	Aug-89	WASHINGTON WATER POWER CO	WWP	29.25	-0.00847	0.62	0.0066	-0.0151	Aug-89
22	Sep-89	WASHINGTON WATER POWER CO	WWP	30.125	0.029915	0	0.0065	0.0234	Sep-89
22	Oct-89	WASHINGTON WATER POWER CO	WWP	29.5	-0.02075	0	0.0072	-0.0279	Oct-89
22	Nov-89	WASHINGTON WATER POWER CO	WWP	29.375	0.01678	0.62	0.0064	0.0104	Nov-89
22	Dec-89	WASHINGTON WATER POWER CO	WWP	30.625	0.042553	0	0.0064	0.0362	Dec-89
22	Jan-90	WASHINGTON WATER POWER CO	WWP	29	-0.05306	0	0.0073	-0.0604	Jan-90
22	Feb-90	WASHINGTON WATER POWER CO	WWP	28.625	0.008448	0.62	0.0066	0.0018	Feb-90
22	Mar-90	WASHINGTON WATER POWER CO	WWP	28.25	-0.0131	0	0.0071	-0.0202	Mar-90
22	Apr-90	WASHINGTON WATER POWER CO	WWP	28.125	-0.00443	0	0.0075	-0.0119	Apr-90
22	May-90	WASHINGTON WATER POWER CO	WWP	28.375	0.030933	0.62	0.0075	0.0234	May-90
22	Jun-90	WASHINGTON WATER POWER CO	WWP	29.875	0.052863	0	0.0068	0.0461	Jun-90
22	Jul-90	WASHINGTON WATER POWER CO	WWP	29.375	-0.01674	0	0.0074	-0.0241	Jul-90
22	Aug-90	WASHINGTON WATER POWER CO	WWP	27.875	-0.02996	0.62	0.0071	-0.0371	Aug-90
22	Sep-90	WASHINGTON WATER POWER CO	WWP	27.125	-0.02691	0	0.0069	-0.0338	Sep-90
22	Oct-90	WASHINGTON WATER POWER CO	WWP	29.5	0.087558	0	0.0081	0.0795	Oct-90
22	Nov-90	WASHINGTON WATER POWER CO	WWP	29.375	0.01678	0.62	0.0071	0.0097	Nov-90
22	Dec-90	WASHINGTON WATER POWER CO	WWP	29.75	0.012766	0	0.0072	0.0056	Dec-90
22	Jan-91	WASHINGTON WATER POWER CO	WWP	29.125	-0.02101	0	0.0071	-0.0281	Jan-91
22	Feb-91	WASHINGTON WATER POWER CO	WWP	29.75	0.042747	0.62	0.0064	0.0363	Feb-91
22	Mar-91	WASHINGTON WATER POWER CO	WWP	29.75	0	0	0.0064	-0.0064	Mar-91
22	Apr-91	WASHINGTON WATER POWER CO	WWP	30.875	0.037815	0	0.0076	0.0302	Apr-91
22	May-91	WASHINGTON WATER POWER CO	WWP	29.875	-0.01231	0.62	0.0068	-0.0191	May-91
22	Jun-91	WASHINGTON WATER POWER CO	WWP	29.75	-0.00418	0	0.0063	-0.0105	Jun-91
22	Jul-91	WASHINGTON WATER POWER CO	WWP	30.5	0.02521	0	0.0076	0.0176	Jul-91
22	Aug-91	WASHINGTON WATER POWER CO	WWP	31.75	0.061311	0.62	0.0068	0.0545	Aug-91
22	Sep-91	WASHINGTON WATER POWER CO	WWP	32.375	0.019685	0	0.0068	0.0129	Sep-91
22	Oct-91	WASHINGTON WATER POWER CO	WWP	31.875	-0.01544	0	0.0065	-0.0219	Oct-91
22	Nov-91	WASHINGTON WATER POWER CO	WWP	32.25	0.031216	0.62	0.0060	0.0252	Nov-91
22	Dec-91	WASHINGTON WATER POWER CO	WWP	33	0.023256	0	0.0068	0.0165	Dec-91
22	Jan-92	WASHINGTON WATER POWER CO	WWP	33	0	0	0.0061	-0.0061	Jan-92
22	Feb-92	WASHINGTON WATER POWER CO	WWP	33	0.018788	0.62	0.0059	0.0129	Feb-92
22	Mar-92	WASHINGTON WATER POWER CO	WWP	32.375	-0.01894	0	0.0067	-0.0256	Mar-92

22	Apr-92	WASHINGTON WATER POWER CO	WWP	33.375	0.030888	0	0.0065	0.0244	Apr-92
22	May-92	WASHINGTON WATER POWER CO	WWP	33.25	0.014831	0.62	0.0061	0.0087	May-92
22	Jun-92	WASHINGTON WATER POWER CO	WWP	33.5	0.007519	0	0.0067	0.0008	Jun-92
22	Jul-92	WASHINGTON WATER POWER CO	WWP	35.5	0.059701	0	0.0063	0.0534	Jul-92
22	Aug-92	WASHINGTON WATER POWER CO	WWP	34.25	-0.01775	0.62	0.0060	-0.0237	Aug-92
22	Sep-92	WASHINGTON WATER POWER CO	WWP	34.625	0.010949	0	0.0058	0.0051	Sep-92
22	Oct-92	WASHINGTON WATER POWER CO	WWP	35	0.01083	0	0.0057	0.0051	Oct-92
22	Nov-92	WASHINGTON WATER POWER CO	WWP	34.25	-0.00371	0.62	0.0061	-0.0098	Nov-92
22	Dec-92	WASHINGTON WATER POWER CO	WWP	35.25	0.029197	0	0.0063	0.0229	Dec-92
22	Jan-93	WASHINGTON WATER POWER CO	WWP	36.625	0.039007	0	0.0059	0.0331	Jan-93
22	Feb-93	WASHINGTON WATER POWER CO	WWP	38.25	0.061297	0.62	0.0055	0.0558	Feb-93
22	Mar-93	WASHINGTON WATER POWER CO	WWP	38.625	0.009804	0	0.0063	0.0035	Mar-93
22	Apr-93	WASHINGTON WATER POWER CO	WWP	38.875	0.006472	0	0.0057	0.0008	Apr-93
22	May-93	WASHINGTON WATER POWER CO	WWP	39.375	0.02881	0.62	0.0052	0.0236	May-93
22	Jun-93	WASHINGTON WATER POWER CO	WWP	39.75	0.009524	0	0.0062	0.0033	Jun-93
22	Jul-93	WASHINGTON WATER POWER CO	WWP	40.5	0.018868	0	0.0054	0.0135	Jul-93
22	Aug-93	WASHINGTON WATER POWER CO	WWP	40.5	0.015309	0.62	0.0056	0.0097	Aug-93
22	Sep-93	WASHINGTON WATER POWER CO	WWP	40.25	-0.00617	0	0.0050	-0.0112	Sep-93
22	Oct-93	WASHINGTON WATER POWER CO	WWP	39.125	-0.02795	0	0.0049	-0.0329	Oct-93
22	Nov-93	WASHINGTON WATER POWER CO	WWP	18.375	-0.04486	0.62	0.0053	-0.0502	Nov-93
22	Dec-93	WASHINGTON WATER POWER CO	WWP	18.75	0.020408	0	0.0055	0.0149	Dec-93
22	Jan-94	WASHINGTON WATER POWER CO	WWP	18.375	-0.02	0	0.0055	-0.0255	Jan-94
22	Feb-94	WASHINGTON WATER POWER CO	WWP	17.25	-0.04435	0.31	0.0049	-0.0493	Feb-94
22	Mar-94	WASHINGTON WATER POWER CO	WWP	17.375	0.007246	0	0.0058	0.0014	Mar-94
22	Apr-94	WASHINGTON WATER POWER CO	WWP	17.75	0.021583	0	0.0057	0.0159	Apr-94
22	May-94	WASHINGTON WATER POWER CO	WWP	15.75	-0.09521	0.31	0.0063	-0.1015	May-94
22	Jun-94	WASHINGTON WATER POWER CO	WWP	14.375	-0.0873	0	0.0061	-0.0934	Jun-94
22	Jul-94	WASHINGTON WATER POWER CO	WWP	15.375	0.069565	0	0.0060	0.0636	Jul-94
22	Aug-94	WASHINGTON WATER POWER CO	WWP	15.25	0.012033	0.31	0.0066	0.0054	Aug-94
22	Sep-94	WASHINGTON WATER POWER CO	WWP	14.5	-0.04918	0	0.0061	-0.0553	Sep-94
22	Oct-94	WASHINGTON WATER POWER CO	WWP	14.625	0.008621	0	0.0066	0.0020	Oct-94
22	Nov-94	WASHINGTON WATER POWER CO	WWP	14.125	-0.01299	0.31	0.0064	-0.0194	Nov-94
22	Dec-94	WASHINGTON WATER POWER CO	WWP	13.75	-0.02655	0	0.0066	-0.0331	Dec-94
22	Jan-95	WASHINGTON WATER POWER CO	WWP	15.25	0.109091	0	0.0070	0.1021	Jan-95
22	Feb-95	WASHINGTON WATER POWER CO	WWP	15	0.003934	0.31	0.0059	-0.0020	Feb-95
22	Mar-95	WASHINGTON WATER POWER CO	WWP	15	0	0	0.0064	-0.0064	Mar-95
22	Apr-95	WASHINGTON WATER POWER CO	WWP	15.375	0.025	0	0.0058	0.0192	Apr-95
22	May-95	WASHINGTON WATER POWER CO	WWP	15.375	0.020163	0.31	0.0065	0.0137	May-95

22	Jun-95	WASHINGTON WATER POWER CO	WWP	16	0.04065	0	0.0054	0.0353	Jun-95
22	Jul-95	WASHINGTON WATER POWER CO	WWP	15.5	-0.03125	0	0.0056	-0.0369	Jul-95
22	Aug-95	WASHINGTON WATER POWER CO	WWP	15.625	0.028065	0.31	0.0057	0.0224	Aug-95
22	Sep-95	WASHINGTON WATER POWER CO	WWP	16.125	0.032	0	0.0052	0.0268	Sep-95
22	Oct-95	WASHINGTON WATER POWER CO	WWP	17.25	0.069767	0	0.0057	0.0641	Oct-95
22	Nov-95	WASHINGTON WATER POWER CO	WWP	17.625	0.03971	0.31	0.0051	0.0346	Nov-95
22	Dec-95	WASHINGTON WATER POWER CO	WWP	17.5	-0.00709	0	0.0049	-0.0120	Dec-95
22	Jan-96	WASHINGTON WATER POWER CO	WWP	18.25	0.042857	0	0.0054	0.0375	Jan-96
22	Feb-96	WASHINGTON WATER POWER CO	WWP	18.5	0.030685	0.31	0.0048	0.0259	Feb-96
22	Mar-96	WASHINGTON WATER POWER CO	WWP	19.125	0.033784	0	0.0052	0.0286	Mar-96
22	Apr-96	WASHINGTON WATER POWER CO	WWP	18.125	-0.05229	0	0.0059	-0.0582	Apr-96
22	May-96	WASHINGTON WATER POWER CO	WWP	18.5	0.037793	0.31	0.0058	0.0320	May-96
22	Jun-96	WASHINGTON WATER POWER CO	WWP	18.625	0.006757	0	0.0054	0.0014	Jun-96
22	Jul-96	WASHINGTON WATER POWER CO	WWP	18.5	-0.00671	0	0.0062	-0.0129	Jul-96
22	Aug-96	WASHINGTON WATER POWER CO	WWP	18.5	0.016757	0.31	0.0057	0.0111	Aug-96
22	Sep-96	WASHINGTON WATER POWER CO	WWP	18.875	0.02027	0	0.0060	0.0143	Sep-96
22	Oct-96	WASHINGTON WATER POWER CO	WWP	19.125	0.013245	0	0.0058	0.0074	Oct-96
22	Nov-96	WASHINGTON WATER POWER CO	WWP	18.875	0.003137	0.31	0.0052	-0.0021	Nov-96
22	Dec-96	WASHINGTON WATER POWER CO	WWP	18.625	-0.01325	0	0.0056	-0.0188	Dec-96
22	Jan-97	WASHINGTON WATER POWER CO	WWP	18.625	0	0	0.0056	-0.0056	Jan-97
22	Feb-97	WASHINGTON WATER POWER CO	WWP	18.375	0.003221	0.31	0.0051	-0.0019	Feb-97
22	Mar-97	WASHINGTON WATER POWER CO	WWP	17.375	-0.05442	0	0.0059	-0.0603	Mar-97
22	Apr-97	WASHINGTON WATER POWER CO	WWP	17.875	0.028777	0	0.0059	0.0229	Apr-97
22	May-97	WASHINGTON WATER POWER CO	WWP	18	0.024336	0.31	0.0058	0.0185	May-97
22	Jun-97	WASHINGTON WATER POWER CO	WWP	19.625	0.090278	0	0.0059	0.0844	Jun-97
22	Jul-97	WASHINGTON WATER POWER CO	WWP	20.5	0.044586	0	0.0058	0.0388	Jul-97
22	Aug-97	WASHINGTON WATER POWER CO	WWP	19.5	-0.03366	0.31	0.0049	-0.0386	Aug-97
22	Sep-97	WASHINGTON WATER POWER CO	WWP	20	0.025641	0	0.0058	0.0198	Sep-97
22	Oct-97	WASHINGTON WATER POWER CO	WWP	19.9375	-0.00313	0	0.0054	-0.0085	Oct-97
22	Nov-97	WASHINGTON WATER POWER CO	WWP	21.375	0.087649	0.31	0.0047	0.0829	Nov-97
22	Dec-97	WASHINGTON WATER POWER CO	WWP	24.3125	0.137427	0	0.0054	0.1320	Dec-97
22	Jan-98	WASHINGTON WATER POWER CO	WWP	21.75	-0.1054	0	0.0048	-0.1102	Jan-98
22	Feb-98	WASHINGTON WATER POWER CO	WWP	22.875	0.065977	0.31	0.0044	0.0616	Feb-98
22	Mar-98	WASHINGTON WATER POWER CO	WWP	24.4375	0.068306	0	0.0052	0.0631	Mar-98
22	Apr-98	WASHINGTON WATER POWER CO	WWP	23	-0.05882	0	0.0049	-0.0637	Apr-98
22	May-98	WASHINGTON WATER POWER CO	WWP	21.625	-0.0463	0.31	0.0048	-0.0511	May-98
22	Jun-98	WASHINGTON WATER POWER CO	WWP	22.4375	0.037572	0	0.0052	0.0324	Jun-98
22	Jul-98	WASHINGTON WATER POWER CO	WWP	20.5	-0.08635	0	0.0049	-0.0913	Jul-98

22	Aug-98	WASHINGTON WATER POWER CO	WWP	16.9375	-0.15866	0.31	0.0048	-0.1635	Aug-98
22	Sep-98	WASHINGTON WATER POWER CO	WWP	19.8125	0.169742	0	0.0044	0.1653	Sep-98
22	Oct-98	WASHINGTON WATER POWER CO	WWP	18.8125	-0.05047	0	0.0042	-0.0547	Oct-98
22	Nov-98	WASHINGTON WATER POWER CO	WWP	18.3125	-0.02658	0	0.0045	-0.0311	Nov-98
22	Dec-98	WASHINGTON WATER POWER CO	WWP	19.25	0.057747	0.12	0.0045	0.0532	Dec-98
22	Jan-99	AVISTA CORP	AVA	18.5	-0.03896	0	0.0042	-0.0432	Jan-99
22	Feb-99	AVISTA CORP	AVA	16.375	-0.10838	0.12	0.0040	-0.1124	Feb-99
22	Mar-99	AVISTA CORP	AVA	16.25	-0.00763	0	0.0053	-0.0129	Mar-99
22	Apr-99	AVISTA CORP	AVA	15	-0.07692	0	0.0048	-0.0817	Apr-99
22	May-99	AVISTA CORP	AVA	18.0625	0.212167	0.12	0.0045	0.2077	May-99
22	Jun-99	AVISTA CORP	AVA	16.25	-0.10035	0	0.0055	-0.1058	Jun-99
22	Jul-99	AVISTA CORP	AVA	16.8125	0.034615	0	0.0051	0.0295	Jul-99
22	Aug-99	AVISTA CORP	AVA	17.25	0.03316	0.12	0.0054	0.0278	Aug-99
22	Sep-99	AVISTA CORP	AVA	17.5625	0.018116	0	0.0052	0.0129	Sep-99
22	Oct-99	AVISTA CORP	AVA	18	0.024911	0	0.0050	0.0199	Oct-99
22	Nov-99	AVISTA CORP	AVA	16.25	-0.09056	0.12	0.0056	-0.0962	Nov-99
22	Dec-99	AVISTA CORP	AVA	15.4375	-0.05	0	0.0055	-0.0555	Dec-99
22	Jan-00	AVISTA CORP	AVA	29.375	0.902834	0	0.0057	0.8971	Jan-00
22	Feb-00	AVISTA CORP	AVA	30.0625	0.027489	0.12	0.0051	0.0224	Feb-00
22	Mar-00	AVISTA CORP	AVA	40.75	0.355509	0	0.0054	0.3501	Mar-00
22	Apr-00	AVISTA CORP	AVA	29.5	-0.27607	0	0.0047	-0.2808	Apr-00
22	May-00	AVISTA CORP	AVA	22.375	-0.23746	0.12	0.0056	-0.2431	May-00
22	Jun-00	AVISTA CORP	AVA	17.4375	-0.22067	0	0.0052	-0.2259	Jun-00
22	Jul-00	AVISTA CORP	AVA	18.75	0.075269	0	0.0052	0.0701	Jul-00
22	Aug-00	AVISTA CORP	AVA	18.4375	-0.01027	0.12	0.0050	-0.0153	Aug-00
22	Sep-00	AVISTA CORP	AVA	22.5	0.220339	0	0.0046	0.2157	Sep-00
22	Oct-00	AVISTA CORP	AVA	22.4375	-0.00278	0	0.0053	-0.0081	Oct-00
22	Nov-00	AVISTA CORP	AVA	20.4375	-0.08379	0.12	0.0048	-0.0886	Nov-00
22	Dec-00	AVISTA CORP	AVA	20.5	0.003058	0	0.0045	-0.0014	Dec-00
22	Jan-01	AVISTA CORP	AVA	17.25	-0.15854	0	0.0049	-0.1634	Jan-01
22	Feb-01	AVISTA CORP	AVA	15.75	-0.08	0.12	0.0042	-0.0842	Feb-01
22	Mar-01	AVISTA CORP	AVA	17.62	0.11873	0	0.0045	0.1142	Mar-01
22	Apr-01	AVISTA CORP	AVA	19.9	0.129398	0	0.0047	0.1247	Apr-01
22	May-01	AVISTA CORP	AVA	22.03	0.113065	0.12	0.0050	0.1081	May-01
22	Jun-01	AVISTA CORP	AVA	19.98	-0.09306	0	0.0047	-0.0978	Jun-01
22	Jul-01	AVISTA CORP	AVA	17.3	-0.13413	0	0.0052	-0.1393	Jul-01
22	Aug-01	AVISTA CORP	AVA	16.27	-0.0526	0.12	0.0046	-0.0572	Aug-01
22	Sep-01	AVISTA CORP	AVA	13.6	-0.16411	0	0.0041	-0.1682	Sep-01

22	Oct-01	AVISTA CORP	AVA	11.99	-0.11838	0	0.0048	-0.1232	Oct-01
22	Nov-01	AVISTA CORP	AVA	12	0.010842	0.12	0.0041	0.0067	Nov-01
22	Dec-01	AVISTA CORP	AVA	13.26	0.105	0	0.0046	0.1004	Dec-01
22	Jan-02	AVISTA CORP	AVA	13.69	0.032428	0	0.0048	0.0276	Jan-02
22	Feb-02	AVISTA CORP	AVA	14.6	0.075237	0.12	0.0043	0.0709	Feb-02
22	Mar-02	AVISTA CORP	AVA	15.53	0.063699	0	0.0043	0.0594	Mar-02
22	Apr-02	AVISTA CORP	AVA	15.99	0.02962	0	0.0054	0.0242	Apr-02
22	May-02	AVISTA CORP	AVA	13.95	-0.12008	0.12	0.0049	-0.1250	May-02
22	Jun-02	AVISTA CORP	AVA	13.8	-0.01075	0	0.0044	-0.0152	Jun-02
22	Jul-02	AVISTA CORP	AVA	12.25	-0.11232	0	0.0051	-0.1174	Jul-02
22	Aug-02	AVISTA CORP	AVA	12.72	0.048163	0.12	0.0044	0.0438	Aug-02
22	Sep-02	AVISTA CORP	AVA	11.2	-0.1195	0	0.0042	-0.1237	Sep-02
22	Oct-02	AVISTA CORP	AVA	10.3	-0.08036	0	0.0040	-0.0844	Oct-02
22	Nov-02	AVISTA CORP	AVA	9.77	-0.03981	0.12	0.0040	-0.0438	Nov-02
22	Dec-02	AVISTA CORP	AVA	11.56	0.183214	0	0.0045	0.1787	Dec-02
22	Jan-03	AVISTA CORP	AVA	10.9	-0.05709	0	0.0041	-0.0612	Jan-03
22	Feb-03	AVISTA CORP	AVA	10.21	-0.05229	0.12	0.0038	-0.0561	Feb-03
22	Mar-03	AVISTA CORP	AVA	10.59	0.037218	0	0.0040	0.0332	Mar-03
22	Apr-03	AVISTA CORP	AVA	11.83	0.117092	0	0.0040	0.1131	Apr-03
22	May-03	AVISTA CORP	AVA	14.05	0.197802	0.12	0.0039	0.1939	May-03
22	Jun-03	AVISTA CORP	AVA	14.15	0.007117	0	0.0036	0.0035	Jun-03
22	Jul-03	AVISTA CORP	AVA	14.75	0.042403	0	0.0038	0.0386	Jul-03
22	Aug-03	AVISTA CORP	AVA	15.57	0.064068	0.125	0.0042	0.0599	Aug-03
22	Sep-03	AVISTA CORP	AVA	15.58	0.000642	0	0.0046	-0.0040	Sep-03
22	Oct-03	AVISTA CORP	AVA	17	0.091142	0	0.0041	0.0870	Oct-03
22	Nov-03	AVISTA CORP	AVA	17.64	0.045	0.125	0.0039	0.0411	Nov-03
22	Dec-03	AVISTA CORP	AVA	18.12	0.027211	0	0.0047	0.0225	Dec-03
22	Jan-04	AVISTA CORP	AVA	17.85	-0.0149	0	0.0042	-0.0191	Jan-04
22	Feb-04	AVISTA CORP	AVA	18.07	0.019328	0.125	0.0038	0.0155	Feb-04
22	Mar-04	AVISTA CORP	AVA	18.92	0.047039	0	0.0043	0.0427	Mar-04
22	Apr-04	AVISTA CORP	AVA	16.9	-0.10677	0	0.0039	-0.1107	Apr-04
22	May-04	AVISTA CORP	AVA	16.96	0.011243	0.13	0.0040	0.0072	May-04
22	Jun-04	AVISTA CORP	AVA	18.42	0.086085	0	0.0048	0.0813	Jun-04
22	Jul-04	AVISTA CORP	AVA	17.45	-0.05266	0	0.0043	-0.0570	Jul-04
22	Aug-04	AVISTA CORP	AVA	17.88	0.032092	0.13	0.0045	0.0276	Aug-04
22	Sep-04	AVISTA CORP	AVA	18.1	0.012304	0	0.0040	0.0083	Sep-04
22	Oct-04	AVISTA CORP	AVA	17.78	-0.01768	0	0.0038	-0.0215	Oct-04
22	Nov-04	AVISTA CORP	AVA	17.8	0.008436	0.13	0.0041	0.0043	Nov-04

22	Dec-04	AVISTA CORP	AVA	17.67	-0.0073	0	0.0043	-0.0116	Dec-04
22	Jan-05	AVISTA CORP	AVA	17.67	0	0	0.0041	-0.0041	Jan-05
22	Feb-05	AVISTA CORP	AVA	18.24	0.039898	0.135	0.0035	0.0364	Feb-05
22	Mar-05	AVISTA CORP	AVA	17.5	-0.04057	0	0.0041	-0.0447	Mar-05
22	Apr-05	AVISTA CORP	AVA	16.79	-0.04057	0	0.0039	-0.0445	Apr-05
22	May-05	AVISTA CORP	AVA	17.63	0.05807	0.135	0.0040	0.0541	May-05
22	Jun-05	AVISTA CORP	AVA	18.59	0.054453	0	0.0036	0.0509	Jun-05
22	Jul-05	AVISTA CORP	AVA	19.04	0.024207	0	0.0034	0.0208	Jul-05
22	Aug-05	AVISTA CORP	AVA	19.44	0.028099	0.135	0.0040	0.0241	Aug-05
22	Sep-05	AVISTA CORP	AVA	19.4	-0.00206	0	0.0035	-0.0056	Sep-05
22	Oct-05	AVISTA CORP	AVA	17.52	-0.09691	0	0.0039	-0.1008	Oct-05
22	Nov-05	AVISTA CORP	AVA	17.65	0.015411	0.14	0.0039	0.0115	Nov-05
22	Dec-05	AVISTA CORP	AVA	17.71	0.003399	0	0.0039	-0.0005	Dec-05
22	Jan-06	AVISTA CORP	AVA	19.11	0.079051	0	0.0040	0.0751	Jan-06
22	Feb-06	AVISTA CORP	AVA	19.6	0.032967	0.14	0.0036	0.0294	Feb-06
22	Mar-06	AVISTA CORP	AVA	20.65	0.053571	0	0.0039	0.0497	Mar-06
22	Apr-06	AVISTA CORP	AVA	21.01	0.017433	0	0.0039	0.0135	Apr-06
22	May-06	AVISTA CORP	AVA	22.25	0.065683	0.14	0.0048	0.0609	May-06
22	Jun-06	AVISTA CORP	AVA	22.83	0.026067	0	0.0044	0.0217	Jun-06
22	Jul-06	AVISTA CORP	AVA	24.98	0.094174	0	0.0045	0.0897	Jul-06
22	Aug-06	AVISTA CORP	AVA	24.24	-0.02382	0.145	0.0043	-0.0281	Aug-06
22	Sep-06	AVISTA CORP	AVA	23.68	-0.0231	0	0.0039	-0.0270	Sep-06
22	Oct-06	AVISTA CORP	AVA	25.74	0.086993	0	0.0042	0.0828	Oct-06
22	Nov-06	AVISTA CORP	AVA	26.93	0.051865	0.145	0.0039	0.0480	Nov-06
22	Dec-06	AVISTA CORP	AVA	25.31	-0.06016	0	0.0036	-0.0638	Dec-06
22	Jan-07	AVISTA CORP	AVA	25.15	-0.00632	0	0.0043	-0.0106	Jan-07
22	Feb-07	AVISTA CORP	AVA	23.37	-0.06501	0.145	0.0038	-0.0688	Feb-07
22	Mar-07	AVISTA CORP	AVA	24.23	0.036799	0	0.0039	0.0329	Mar-07
22	Apr-07	AVISTA CORP	AVA	23.59	-0.02641	0	0.0042	-0.0306	Apr-07
22	May-07	AVISTA CORP	AVA	23.42	-0.00085	0.15	0.0041	-0.0049	May-07
22	Jun-07	AVISTA CORP	AVA	21.55	-0.07985	0	0.0040	-0.0838	Jun-07
22	Jul-07	AVISTA CORP	AVA	19.82	-0.08028	0	0.0046	-0.0849	Jul-07
22	Aug-07	AVISTA CORP	AVA	19.57	-0.00505	0.15	0.0042	-0.0092	Aug-07
22	Sep-07	AVISTA CORP	AVA	20.35	0.039857	0	0.0037	0.0362	Sep-07
22	Oct-07	AVISTA CORP	AVA	22.05	0.083538	0	0.0043	0.0792	Oct-07
22	Nov-07	AVISTA CORP	AVA	21.38	-0.02358	0.15	0.0039	-0.0275	Nov-07
22	Dec-07	AVISTA CORP	AVA	21.54	0.007484	0	0.0037	0.0038	Dec-07
22	Jan-08	AVISTA CORP	AVA	20.15	-0.06453	0	0.0040	-0.0685	Jan-08

22	Feb-08	AVISTA CORP	AVA	18.24	-0.0866	0.165	0.0034	-0.0900	Feb-08
22	Mar-08	AVISTA CORP	AVA	19.56	0.072368	0	0.0037	0.0687	Mar-08
22	Apr-08	AVISTA CORP	AVA	20.53	0.049591	0	0.0035	0.0461	Apr-08
22	May-08	AVISTA CORP	AVA	21.23	0.042133	0.165	0.0037	0.0384	May-08
22	Jun-08	AVISTA CORP	AVA	21.46	0.010834	0	0.0040	0.0068	Jun-08
22	Jul-08	AVISTA CORP	AVA	22.62	0.054054	0	0.0039	0.0502	Jul-08
22	Aug-08	AVISTA CORP	AVA	22.3	-0.00619	0.18	0.0036	-0.0098	Aug-08
22	Sep-08	AVISTA CORP	AVA	21.71	-0.02646	0	0.0039	-0.0304	Sep-08
22	Oct-08	AVISTA CORP	AVA	19.86	-0.08521	0	0.0037	-0.0889	Oct-08
22	Nov-08	AVISTA CORP	AVA	17.67	-0.11027	0	0.0036	-0.1139	Nov-08
22	Dec-08	AVISTA CORP	AVA	19.38	0.106961	0.18	0.0033	0.1037	Dec-08
22	Jan-09	AVISTA CORP	AVA	19.04	-0.01754	0	0.0024	-0.0199	Jan-09
22	Feb-09	AVISTA CORP	AVA	14.31	-0.23897	0.18	0.0030	-0.2420	Feb-09
22	Mar-09	AVISTA CORP	AVA	13.78	-0.03704	0	0.0035	-0.0405	Mar-09
22	Apr-09	AVISTA CORP	AVA	15.05	0.092163	0	0.0029	0.0893	Apr-09
22	May-09	AVISTA CORP	AVA	15.84	0.066445	0.21	0.0033	0.0631	May-09
22	Jun-09	AVISTA CORP	AVA	17.81	0.124369	0	0.0038	0.1206	Jun-09
22	Jul-09	AVISTA CORP	AVA	18.52	0.039865	0	0.0036	0.0363	Jul-09
22	Aug-09	AVISTA CORP	AVA	19.52	0.065335	0.21	0.0036	0.0617	Aug-09
22	Sep-09	AVISTA CORP	AVA	20.22	0.035861	0	0.0034	0.0325	Sep-09
22	Oct-09	AVISTA CORP	AVA	18.96	-0.06232	0	0.0033	-0.0656	Oct-09
22	Nov-09	AVISTA CORP	AVA	20.81	0.097574	0	0.0035	0.0941	Nov-09
22	Dec-09	AVISTA CORP	AVA	21.59	0.047573	0.21	0.0034	0.0442	Dec-09
22	Jan-10	AVISTA CORP	AVA	20.38	-0.05605	0	0.0036	-0.0596	Jan-10
22	Feb-10	AVISTA CORP	AVA	20.36	0.011286	0.25	0.0033	0.0080	Feb-10
22	Mar-10	AVISTA CORP	AVA	20.71	0.01719	0	0.0040	0.0132	Mar-10
22	Apr-10	AVISTA CORP	AVA	21.63	0.044423	0	0.0038	0.0406	Apr-10
22	May-10	AVISTA CORP	AVA	19.3	-0.09616	0.25	0.0034	-0.0996	May-10
22	Jun-10	AVISTA CORP	AVA	19.53	0.011917	0	0.0037	0.0082	Jun-10
22	Jul-10	AVISTA CORP	AVA	20.92	0.071173	0	0.0031	0.0681	Jul-10
22	Aug-10	AVISTA CORP	AVA	20.87	0.00956	0.25	0.0032	0.0064	Aug-10
22	Sep-10	AVISTA CORP	AVA	20.88	0.000479	0	0.0026	-0.0021	Sep-10
22	Oct-10	AVISTA CORP	AVA	21.84	0.045977	0	0.0027	0.0433	Oct-10
22	Nov-10	AVISTA CORP	AVA	21.37	-0.01007	0.25	0.0032	-0.0133	Nov-10
22	Dec-10	AVISTA CORP	AVA	22.52	0.053814	0	0.0032	0.0506	Dec-10
22	Jan-11	AVISTA CORP	AVA	22.65	0.005773	0	0.0035667	0.0022	Jan-11
22	Feb-11	AVISTA CORP	AVA	22.32	-0.00243	0.275	0.0036833	-0.0061	Feb-11
22	Mar-11	AVISTA CORP	AVA	23.13	0.03629	0	0.0035583	0.0327	Mar-11

22	Apr-11	AVISTA CORP	AVA	24.35	0.052745	0	0.0035667	0.0492	Apr-11
22	May-11	AVISTA CORP	AVA	24.93	0.035113	0.275	0.0033417	0.0318	May-11
22	Jun-11	AVISTA CORP	AVA	25.69	0.030485	0	0.0032583	0.0272	Jun-11
22	Jul-11	AVISTA CORP	AVA	25.21	-0.01868	0	0.0032917	-0.0220	Jul-11
22	Aug-11	AVISTA CORP	AVA	25.38	0.017652	0.275	0.0030417	0.0146	Aug-11
22	Sep-11	AVISTA CORP	AVA	23.85	-0.06028	0	0.0023583	-0.0626	Sep-11
22	Oct-11	AVISTA CORP	AVA	25.45	0.067086	0	0.0023917	0.0647	Oct-11
22	Nov-11	AVISTA CORP	AVA	25	-0.00688	0.275	0.0022667	-0.0091	Nov-11
22	Dec-11	AVISTA CORP	AVA	25.75	0.03	0	0.0024833	0.0275	Dec-11
22	Jan-12	AVISTA CORP	AVA	25.34	-0.01592	0	0.0021	-0.0180	Jan-12
22	Feb-12	AVISTA CORP	AVA	24.7	-0.01381	0.29	0.002	-0.0158	Feb-12
22	Mar-12	AVISTA CORP	AVA	25.58	0.035627	0	0.0022	0.0334	Mar-12
22	Apr-12	AVISTA CORP	AVA	26.44	0.03362	0	0.0025	0.0311	Apr-12
22	May-12	AVISTA CORP	AVA	25.41	-0.02799	0.29	0.0023	-0.0303	May-12
22	Jun-12	AVISTA CORP	AVA	26.7	0.050767	0	0.0018	0.0490	Jun-12
	Jul-12	AVISTA CORP	AVA	27.68	0.036704	0	0.002	0.0347	Jul-12
	Aug-12	AVISTA CORP	AVA	25.4	-0.07189	0.29	0.0018	-0.0737	Aug-12
	Sep-12	AVISTA CORP	AVA	25.74	0.013386	0	0.0017	0.0117	Sep-12
	Oct-12	AVISTA CORP	AVA	25.42	-0.01243	0	0.0021	-0.0145	Oct-12
	Nov-12	AVISTA CORP	AVA	23.71	-0.05586	0.29	0.0019	-0.0578	Nov-12
	Dec-12	AVISTA CORP	AVA	24.11	0.016871	0	0.0019	0.0150	Dec-12
	Jan-13	AVISTA CORP	AVA	25.86	0.072584	0	0.0022	0.0704	Jan-13
	Feb-13	AVISTA CORP	AVA	26.19	0.024555	0.305	0.0022	0.0224	Feb-13
	Mar-13	AVISTA CORP	AVA	27.4	0.046201	0	0.0021	0.0441	Mar-13
	Apr-13	AVISTA CORP	AVA	28.05	0.023723	0	0.0026	0.0211	Apr-13
	May-13	AVISTA CORP	AVA	26.71	-0.0369	0.305	0.0023	-0.0392	May-13
	Jun-13	AVISTA CORP	AVA	27.02	0.011606	0	0.0024	0.0092	Jun-13
	Jul-13	AVISTA CORP	AVA	28.78	0.065137	0	0.003	0.0621	Jul-13
	Aug-13	AVISTA CORP	AVA	26.27	-0.07662	0.305	0.0028	-0.0794	Aug-13
	Sep-13	AVISTA CORP	AVA	26.4	0.004949	0	0.0029	0.0020	Sep-13
	Oct-13	AVISTA CORP	AVA	27.79	0.052652	0	0.0029	0.0498	Oct-13
	Nov-13	AVISTA CORP	AVA	27.25	-0.00846	0.305	0.0027	-0.0112	Nov-13
	Dec-13	AVISTA CORP	AVA	28.19	0.034495	0	0.0031	0.0314	Dec-13
	Jan-14	AVISTA CORP	AVA	28.83	0.022703	0	0.0032	0.0195	Jan-14
	Feb-14	AVISTA CORP	AVA	29.6	0.037721	0.3175	0.0026	0.0351	Feb-14
	Mar-14	AVISTA CORP	AVA	30.65	0.035473	0	0.0029	0.0326	Mar-14
	Apr-14	AVISTA CORP	AVA	32.15	0.04894	0	0.0028	0.0461	Apr-14
	May-14	AVISTA CORP	AVA	31.31	-0.01625	0.3175	0.0028	-0.0191	May-14

Jun-14	AVISTA CORP	AVA	33.52	0.070584	0	0.0025	0.0681	Jun-14
Jul-14	AVISTA CORP	AVA	31.03	-0.07428	0	0.0027	-0.0770	Jul-14
Aug-14	AVISTA CORP	AVA	32.46	0.056316	0.3175	0.0026	0.0537	Aug-14
Sep-14	AVISTA CORP	AVA	30.53	-0.05946	0	0.0023	-0.0618	Sep-14
Oct-14	AVISTA CORP	AVA	35.45	0.161153	0	0.0025	0.1587	Oct-14
Nov-14	AVISTA CORP	AVA	34.45	-0.01925	0.3175	0.0023	-0.0216	Nov-14
Dec-14	AVISTA CORP	AVA	35.35	0.026125	0	0.0022	0.0239	Dec-14
Jan-15	AVISTA CORP	AVA	37.13	0.050354	0	0.002	0.0484	Jan-15
Feb-15	AVISTA CORP	AVA	34.1	-0.07272	0.33	0.0015	-0.0742	Feb-15
Mar-15	AVISTA CORP	AVA	34.18	0.002346	0	0.0021	0.0002	Mar-15
Apr-15	AVISTA CORP	AVA	32.62	-0.04564	0	0.0019	-0.0475	Apr-15
May-15	AVISTA CORP	AVA	32	-0.00889	0.33	0.002	-0.0109	May-15
Jun-15	AVISTA CORP	AVA	30.65	-0.04219	0	0.0023	-0.044488	Jun-15
Jul-15	AVISTA CORP	AVA	33.02	0.077325	0	0.0024	0.0749246	Jul-15
Aug-15	AVISTA CORP	AVA	31.39	-0.04936	0	0.0022	-0.051564	Aug-15
Sep-15	AVISTA CORP	AVA	33.25	0.069767	0.33	0.0021	0.0676674	Sep-15
Oct-15	AVISTA CORP	AVA	33.85	0.018045	0	0.0021	0.0159451	Oct-15
Nov-15	AVISTA CORP	AVA	34.61	0.032201	0.33	0.0022	0.0300009	Nov-15
Dec-15	AVISTA CORP	AVA	35.37	0.021959	0	0.0022	0.019759	Dec-15
Jan-16	AVISTA CORP	AVA	37.03	0.046932	0	0.0021	0.0448324	Jan-16
Feb-16	AVISTA CORP	AVA	37.8	0.030043	0.3425	0.002	0.0280432	Feb-16
Mar-16	AVISTA CORP	AVA	40.78	0.078836	0	0.0018	0.077036	Mar-16
Apr-16	AVISTA CORP	AVA	40.07	-0.01741	0	0.0017	-0.01911	Apr-16
May-16	AVISTA CORP	AVA	40.22	0.012291	0.3425	0.002	0.010291	May-16
Jun-16	AVISTA CORP	AVA	44.8	0.113874	0	0.0018	0.1120737	Jun-16
Jul-16	AVISTA CORP	AVA	43.5	-0.02902	0	0.0014	-0.030418	Jul-16
Aug-16	AVISTA CORP	AVA	40.62	-0.05833	0.3425	0.0016	-0.059933	Aug-16
Sep-16	AVISTA CORP	AVA	41.79	0.028804	0	0.0015	0.0273035	Sep-16
Oct-16	AVISTA CORP	AVA	41.4	-0.00933	0	0.0016	-0.010932	Oct-16
Nov-16	AVISTA CORP	AVA	40.47	-0.01419	0.3425	0.0018	-0.015991	Nov-16
Dec-16	AVISTA CORP	AVA	39.99	-0.01186	0	0.0022	-0.014061	Dec-16
Jan-17	AVISTA CORP	AVA	38.64	-0.03376	0	0.0024	-0.036158	Jan-17
Feb-17	AVISTA CORP	AVA	39.87	0.041084	0.3575	0.0021	0.0389844	Feb-17
Mar-17	AVISTA CORP	AVA	39.05	-0.02057	0	0.0023	-0.022867	Mar-17
Apr-17	AVISTA CORP	AVA	40.34	0.033035	0	0.0021	0.0309346	Apr-17
May-17	AVISTA CORP	AVA	42.84	0.070835	0.3575	0.0024	0.0684354	May-17
Jun-17	AVISTA CORP	AVA	42.46	-0.00887	0	0.0021	-0.01097	Jun-17
Jul-17	AVISTA CORP	AVA	52.61	0.239049	0	0.0022	0.2368485	Jul-17

Aug-17	AVISTA CORP	AVA	51.4	-0.0162	0.3575	0.0022	-0.018404	Aug-17
Sep-17	AVISTA CORP	AVA	51.77	0.007198	0	0.0019	0.0052984	Sep-17
Oct-17	AVISTA CORP	AVA	52.24	0.009079	0	0.0022	0.0068786	Oct-17
Nov-17	AVISTA CORP	AVA	51.94	0.001101	0.3575	0.0021	-0.000999	Nov-17
Dec-17	AVISTA CORP	AVA	51.49	-0.00866	0	0.002	-0.010664	Dec-17
Jan-18	AVISTA CORP	AVA	50.36	-0.02195	0	0.0024	-0.024346	Jan-18
Feb-18	AVISTA CORP	AVA	47.83	-0.04284	0.3725	0.0022	-0.045042	Feb-18
Mar-18	AVISTA CORP	AVA	51.25	0.071503	0	0.0024	0.0691032	Mar-18
Apr-18	AVISTA CORP	AVA	51.86	0.011902	0	0.0025	0.0094024	Apr-18
May-18	AVISTA CORP	AVA	52.44	0.018367	0.3725	0.0025	0.0158668	May-18
Jun-18	AVISTA CORP	AVA	52.66	0.004195	0	0.0023	0.0018953	Jun-18
Jul-18	AVISTA CORP	AVA	50.58	-0.0395	0	0.0025	-0.041999	Jul-18
Aug-18	AVISTA CORP	AVA	51.31	0.021797	0.3725	0.0025	0.0192972	Aug-18
Sep-18	AVISTA CORP	AVA	50.56	-0.01462	0	0.0022	-0.016817	Sep-18
Oct-18	AVISTA CORP	AVA	51.42	0.017009	0	0.003	0.0140095	Oct-18
Nov-18	AVISTA CORP	AVA	52.02	0.018913	0.3725	0.0028	0.0161129	Nov-18
Dec-18	AVISTA CORP	AVA	42.48	-0.18339	0	0.0027	-0.186091	Dec-18
Jan-19	AVISTA CORP	AVA	41.85	-0.01483	0	0.0025	-0.017331	Jan-19
Feb-19	AVISTA CORP	AVA	40.41	-0.02515	0.3875	0.0022	-0.027349	Feb-19
Mar-19	AVISTA CORP	AVA	40.62	0.005197	0	0.0023	0.0028967	Mar-19
Apr-19	AVISTA CORP	AVA	43.14	0.062038	0	0.0023	0.0597384	Apr-19
May-19	AVISTA CORP	AVA	41.76	-0.02301	0.3875	0.0023	-0.025306	May-19
Jun-19	AVISTA CORP	AVA	44.6	0.068008	0	0.0018	0.0662077	Jun-19
Jul-19	AVISTA CORP	AVA	46.03	0.032063	0	0.0021	0.0299628	Jul-19
Aug-19	AVISTA CORP	AVA	46.9	0.027319	0.3875	0.0019	0.0254191	Aug-19
Sep-19	AVISTA CORP	AVA	48.44	0.032836	0	0.0015	0.0313358	Sep-19
Oct-19	AVISTA CORP	AVA	48.03	-0.00846	0	0.0016	-0.010064	Oct-19
Nov-19	AVISTA CORP	AVA	47.28	-0.00755	0.3875	0.0016	-0.009147	Nov-19
Dec-19	AVISTA CORP	AVA	48.09	0.017132	0	0.0018	0.015332	Dec-19
Jan-20	AVISTA CORP	AVA	50.85	0.057392	0	0.002	0.0553924	Jan-20
Feb-20	AVISTA CORP	AVA	47.15	-0.0648	0.405	0.0015	-0.066298	Feb-20
Mar-20	AVISTA CORP	AVA	42.49	-0.09883	0	0.00123	-0.100064	Mar-20
Apr-20	AVISTA CORP	AVA	43.04	0.012944	0	0.0009	0.0120442	Apr-20
May-20	AVISTA CORP	AVA	39.17	-0.08051	0.405	0.0009	-0.081407	May-20
Jun-20	AVISTA CORP	AVA	36.39	-0.07097	0	0.0009	-0.071873	Jun-20
Jul-20	AVISTA CORP	AVA	37.13	0.020335	0	0.001	0.0193353	Jul-20
Aug-20	AVISTA CORP	AVA	36.86	0.003636	0.405	0.0008	0.0028359	Aug-20
Sep-20	AVISTA CORP	AVA	34.12	-0.07434	0	0	-0.074335	Sep-20

Oct-20	AVISTA CORP	AVA	33.22	-0.02638	0	0.0009	-0.027277	Oct-20
Nov-20	AVISTA CORP	AVA	37.52	0.12944	0	0.0011	0.1283401	Nov-20
Dec-20	AVISTA CORP	AVA	40.14	0.080624	0.405	0.0011	0.0795237	Dec-20
Jan-21	AVISTA CORP	AVA	37.48	-0.06627	0	0.0015167	-0.067785	Jan-21
Feb-21	AVISTA CORP	AVA	40.21	0.084112	0.4225	0.0017	0.0824115	Feb-21
Mar-21	AVISTA CORP	AVA	47.75	0.187516	0	0.00195	0.1855655	Mar-21
Apr-21	AVISTA CORP	AVA	46.02	-0.03623	0	0.0019167	-0.038147	Apr-21
May-21	AVISTA CORP	AVA	45.33	-0.00581	0.4225	0.0019333	-0.007746	May-21
Jun-21	AVISTA CORP	AVA	42.67	-0.05868	0	0.0018	-0.060481	Jun-21
Jul-21	AVISTA CORP	AVA	42.83	0.00375	0	0.0016167	0.002133	Jul-21
Aug-21	AVISTA CORP	AVA	41.85	-0.01302	0.4225	0.0016	-0.014617	Aug-21

Unique Index Number	Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP	Trading Date
	Jan-26						0.0031		Jan-26
	Feb-26						0.0028		Feb-26
	Mar-26						0.0032		Mar-26
	Apr-26						0.0030		Apr-26
	May-26						0.0028		May-26
	Jun-26						0.0033		Jun-26
	Jul-26						0.0031		Jul-26
	Aug-26						0.0031		Aug-26
	Sep-26						0.0030		Sep-26
	Oct-26						0.0030		Oct-26
	Nov-26						0.0031		Nov-26
	Dec-26						0.0030		Dec-26
	Jan-27						0.0030		Jan-27
	Feb-27						0.0027		Feb-27
	Mar-27						0.0029		Mar-27
	Apr-27						0.0027		Apr-27
	May-27						0.0028		May-27
	Jun-27						0.0027		Jun-27
	Jul-27						0.0027		Jul-27
	Aug-27						0.0029		Aug-27
	Sep-27						0.0027		Sep-27
	Oct-27						0.0028		Oct-27
	Nov-27						0.0027		Nov-27
	Dec-27						0.0027		Dec-27
	Jan-28						0.0027		Jan-28
	Feb-28						0.0025		Feb-28
	Mar-28						0.0027		Mar-28
	Apr-28						0.0026		Apr-28
	May-28						0.0027		May-28
	Jun-28						0.0027		Jun-28
	Jul-28						0.0027		Jul-28
	Aug-28						0.0029		Aug-28
	Sep-28						0.0027		Sep-28
	Oct-28						0.0030		Oct-28

Nov-28	0.0027	Nov-28
Dec-28	0.0029	Dec-28
Jan-29	0.0029	Jan-29
Feb-29	0.0027	Feb-29
Mar-29	0.0028	Mar-29
Apr-29	0.0034	Apr-29
May-29	0.0030	May-29
Jun-29	0.0029	Jun-29
Jul-29	0.0032	Jul-29
Aug-29	0.0030	Aug-29
Sep-29	0.0032	Sep-29
Oct-29	0.0031	Oct-29
Nov-29	0.0026	Nov-29
Dec-29	0.0031	Dec-29
Jan-30	0.0029	Jan-30
Feb-30	0.0026	Feb-30
Mar-30	0.0029	Mar-30
Apr-30	0.0027	Apr-30
May-30	0.0027	May-30
Jun-30	0.0029	Jun-30
Jul-30	0.0028	Jul-30
Aug-30	0.0026	Aug-30
Sep-30	0.0029	Sep-30
Oct-30	0.0027	Oct-30
Nov-30	0.0026	Nov-30
Dec-30	0.0028	Dec-30
Jan-31	0.0028	Jan-31
Feb-31	0.0026	Feb-31
Mar-31	0.0029	Mar-31
Apr-31	0.0027	Apr-31
May-31	0.0026	May-31
Jun-31	0.0028	Jun-31
Jul-31	0.0027	Jul-31
Aug-31	0.0027	Aug-31
Sep-31	0.0027	Sep-31
Oct-31	0.0029	Oct-31
Nov-31	0.0031	Nov-31

Dec-31	0.0032	Dec-31
Jan-32	0.0032	Jan-32
Feb-32	0.0032	Feb-32
Mar-32	0.0031	Mar-32
Apr-32	0.0030	Apr-32
May-32	0.0028	May-32
Jun-32	0.0028	Jun-32
Jul-32	0.0028	Jul-32
Aug-32	0.0028	Aug-32
Sep-32	0.0026	Sep-32
Oct-32	0.0027	Oct-32
Nov-32	0.0026	Nov-32
Dec-32	0.0027	Dec-32
Jan-33	0.0027	Jan-33
Feb-33	0.0023	Feb-33
Mar-33	0.0027	Mar-33
Apr-33	0.0025	Apr-33
May-33	0.0028	May-33
Jun-33	0.0025	Jun-33
Jul-33	0.0026	Jul-33
Aug-33	0.0026	Aug-33
Sep-33	0.0025	Sep-33
Oct-33	0.0026	Oct-33
Nov-33	0.0025	Nov-33
Dec-33	0.0028	Dec-33
Jan-34	0.0029	Jan-34
Feb-34	0.0024	Feb-34
Mar-34	0.0027	Mar-34
Apr-34	0.0025	Apr-34
May-34	0.0025	May-34
Jun-34	0.0024	Jun-34
Jul-34	0.0024	Jul-34
Aug-34	0.0024	Aug-34
Sep-34	0.0023	Sep-34
Oct-34	0.0027	Oct-34
Nov-34	0.0025	Nov-34
Dec-34	0.0025	Dec-34

Jan-35	0.0025	Jan-35
Feb-35	0.0021	Feb-35
Mar-35	0.0022	Mar-35
Apr-35	0.0023	Apr-35
May-35	0.0023	May-35
Jun-35	0.0022	Jun-35
Jul-35	0.0024	Jul-35
Aug-35	0.0023	Aug-35
Sep-35	0.0023	Sep-35
Oct-35	0.0023	Oct-35
Nov-35	0.0024	Nov-35
Dec-35	0.0024	Dec-35
Jan-36	0.0024	Jan-36
Feb-36	0.0023	Feb-36
Mar-36	0.0024	Mar-36
Apr-36	0.0022	Apr-36
May-36	0.0022	May-36
Jun-36	0.0024	Jun-36
Jul-36	0.0023	Jul-36
Aug-36	0.0023	Aug-36
Sep-36	0.0021	Sep-36
Oct-36	0.0023	Oct-36
Nov-36	0.0022	Nov-36
Dec-36	0.0022	Dec-36
Jan-37	0.0021	Jan-37
Feb-37	0.0020	Feb-37
Mar-37	0.0022	Mar-37
Apr-37	0.0023	Apr-37
May-37	0.0022	May-37
Jun-37	0.0025	Jun-37
Jul-37	0.0024	Jul-37
Aug-37	0.0023	Aug-37
Sep-37	0.0023	Sep-37
Oct-37	0.0023	Oct-37
Nov-37	0.0024	Nov-37
Dec-37	0.0023	Dec-37
Jan-38	0.0023	Jan-38

Feb-38	0.0021	Feb-38
Mar-38	0.0023	Mar-38
Apr-38	0.0022	Apr-38
May-38	0.0022	May-38
Jun-38	0.0021	Jun-38
Jul-38	0.0021	Jul-38
Aug-38	0.0022	Aug-38
Sep-38	0.0021	Sep-38
Oct-38	0.0022	Oct-38
Nov-38	0.0021	Nov-38
Dec-38	0.0022	Dec-38
Jan-39	0.0021	Jan-39
Feb-39	0.0019	Feb-39
Mar-39	0.0021	Mar-39
Apr-39	0.0019	Apr-39
May-39	0.0020	May-39
Jun-39	0.0018	Jun-39
Jul-39	0.0019	Jul-39
Aug-39	0.0018	Aug-39
Sep-39	0.0019	Sep-39
Oct-39	0.0023	Oct-39
Nov-39	0.0020	Nov-39
Dec-39	0.0019	Dec-39
Jan-40	0.0020	Jan-40
Feb-40	0.0018	Feb-40
Mar-40	0.0019	Mar-40
Apr-40	0.0018	Apr-40
May-40	0.0019	May-40
Jun-40	0.0019	Jun-40
Jul-40	0.0020	Jul-40
Aug-40	0.0019	Aug-40
Sep-40	0.0018	Sep-40
Oct-40	0.0018	Oct-40
Nov-40	0.0018	Nov-40
Dec-40	0.0017	Dec-40
Jan-41	0.0016	Jan-41
Feb-41	0.0016	Feb-41

Mar-41	0.0018	Mar-41
Apr-41	0.0017	Apr-41
May-41	0.0017	May-41
Jun-41	0.0016	Jun-41
Jul-41	0.0016	Jul-41
Aug-41	0.0016	Aug-41
Sep-41	0.0016	Sep-41
Oct-41	0.0016	Oct-41
Nov-41	0.0014	Nov-41
Dec-41	0.0016	Dec-41
Jan-42	0.0021	Jan-42
Feb-42	0.0019	Feb-42
Mar-42	0.0021	Mar-42
Apr-42	0.0020	Apr-42
May-42	0.0019	May-42
Jun-42	0.0021	Jun-42
Jul-42	0.0021	Jul-42
Aug-42	0.0021	Aug-42
Sep-42	0.0020	Sep-42
Oct-42	0.0021	Oct-42
Nov-42	0.0020	Nov-42
Dec-42	0.0021	Dec-42
Jan-43	0.0020	Jan-43
Feb-43	0.0019	Feb-43
Mar-43	0.0021	Mar-43
Apr-43	0.0020	Apr-43
May-43	0.0019	May-43
Jun-43	0.0021	Jun-43
Jul-43	0.0021	Jul-43
Aug-43	0.0021	Aug-43
Sep-43	0.0020	Sep-43
Oct-43	0.0020	Oct-43
Nov-43	0.0021	Nov-43
Dec-43	0.0021	Dec-43
Jan-44	0.0021	Jan-44
Feb-44	0.0020	Feb-44
Mar-44	0.0021	Mar-44

Apr-44	0.0020	Apr-44
May-44	0.0022	May-44
Jun-44	0.0020	Jun-44
Jul-44	0.0021	Jul-44
Aug-44	0.0021	Aug-44
Sep-44	0.0020	Sep-44
Oct-44	0.0021	Oct-44
Nov-44	0.0020	Nov-44
Dec-44	0.0020	Dec-44
Jan-45	0.0021	Jan-45
Feb-45	0.0018	Feb-45
Mar-45	0.0020	Mar-45
Apr-45	0.0019	Apr-45
May-45	0.0019	May-45
Jun-45	0.0019	Jun-45
Jul-45	0.0018	Jul-45
Aug-45	0.0019	Aug-45
Sep-45	0.0018	Sep-45
Oct-45	0.0019	Oct-45
Nov-45	0.0018	Nov-45
Dec-45	0.0018	Dec-45
Jan-46	0.0017	Jan-46
Feb-46	0.0015	Feb-46
Mar-46	0.0016	Mar-46
Apr-46	0.0017	Apr-46
May-46	0.0018	May-46
Jun-46	0.0016	Jun-46
Jul-46	0.0019	Jul-46
Aug-46	0.0017	Aug-46
Sep-46	0.0018	Sep-46
Oct-46	0.0019	Oct-46
Nov-46	0.0018	Nov-46
Dec-46	0.0019	Dec-46
Jan-47	0.0018	Jan-47
Feb-47	0.0016	Feb-47
Mar-47	0.0018	Mar-47
Apr-47	0.0017	Apr-47

May-47	0.0017	May-47
Jun-47	0.0019	Jun-47
Jul-47	0.0018	Jul-47
Aug-47	0.0017	Aug-47
Sep-47	0.0018	Sep-47
Oct-47	0.0018	Oct-47
Nov-47	0.0017	Nov-47
Dec-47	0.0021	Dec-47
Jan-48	0.0020	Jan-48
Feb-48	0.0019	Feb-48
Mar-48	0.0022	Mar-48
Apr-48	0.0020	Apr-48
May-48	0.0018	May-48
Jun-48	0.0021	Jun-48
Jul-48	0.0019	Jul-48
Aug-48	0.0021	Aug-48
Sep-48	0.0020	Sep-48
Oct-48	0.0019	Oct-48
Nov-48	0.0021	Nov-48
Dec-48	0.0020	Dec-48
Jan-49	0.0020	Jan-49
Feb-49	0.0018	Feb-49
Mar-49	0.0019	Mar-49
Apr-49	0.0018	Apr-49
May-49	0.0020	May-49
Jun-49	0.0019	Jun-49
Jul-49	0.0017	Jul-49
Aug-49	0.0019	Aug-49
Sep-49	0.0017	Sep-49
Oct-49	0.0018	Oct-49
Nov-49	0.0017	Nov-49
Dec-49	0.0017	Dec-49
Jan-50	0.0018	Jan-50
Feb-50	0.0016	Feb-50
Mar-50	0.0018	Mar-50
Apr-50	0.0016	Apr-50
May-50	0.0019	May-50

Jun-50	0.0017	Jun-50
Jul-50	0.0018	Jul-50
Aug-50	0.0018	Aug-50
Sep-50	0.0017	Sep-50
Oct-50	0.0019	Oct-50
Nov-50	0.0018	Nov-50
Dec-50	0.0018	Dec-50
Jan-51	0.0020	Jan-51
Feb-51	0.0017	Feb-51
Mar-51	0.0019	Mar-51
Apr-51	0.0020	Apr-51
May-51	0.0021	May-51
Jun-51	0.0020	Jun-51
Jul-51	0.0023	Jul-51
Aug-51	0.0021	Aug-51
Sep-51	0.0019	Sep-51
Oct-51	0.0023	Oct-51
Nov-51	0.0021	Nov-51
Dec-51	0.0022	Dec-51
Jan-52	0.0023	Jan-52
Feb-52	0.0021	Feb-52
Mar-52	0.0023	Mar-52
Apr-52	0.0022	Apr-52
May-52	0.0020	May-52
Jun-52	0.0022	Jun-52
Jul-52	0.0022	Jul-52
Aug-52	0.0021	Aug-52
Sep-52	0.0023	Sep-52
Oct-52	0.0023	Oct-52
Nov-52	0.0021	Nov-52
Dec-52	0.0024	Dec-52
Jan-53	0.0023	Jan-53
Feb-53	0.0021	Feb-53
Mar-53	0.0025	Mar-53
Apr-53	0.0024	Apr-53
May-53	0.0024	May-53
Jun-53	0.0027	Jun-53

Jul-53	0.0025	Jul-53
Aug-53	0.0025	Aug-53
Sep-53	0.0025	Sep-53
Oct-53	0.0023	Oct-53
Nov-53	0.0024	Nov-53
Dec-53	0.0024	Dec-53
Jan-54	0.0023	Jan-54
Feb-54	0.0022	Feb-54
Mar-54	0.0025	Mar-54
Apr-54	0.0022	Apr-54
May-54	0.0020	May-54
Jun-54	0.0025	Jun-54
Jul-54	0.0022	Jul-54
Aug-54	0.0023	Aug-54
Sep-54	0.0022	Sep-54
Oct-54	0.0021	Oct-54
Nov-54	0.0023	Nov-54
Dec-54	0.0023	Dec-54
Jan-55	0.0022	Jan-55
Feb-55	0.0022	Feb-55
Mar-55	0.0024	Mar-55
Apr-55	0.0022	Apr-55
May-55	0.0025	May-55
Jun-55	0.0023	Jun-55
Jul-55	0.0023	Jul-55
Aug-55	0.0027	Aug-55
Sep-55	0.0024	Sep-55
Oct-55	0.0025	Oct-55
Nov-55	0.0024	Nov-55
Dec-55	0.0024	Dec-55
Jan-56	0.0025	Jan-56
Feb-56	0.0023	Feb-56
Mar-56	0.0023	Mar-56
Apr-56	0.0026	Apr-56
May-56	0.0026	May-56
Jun-56	0.0023	Jun-56
Jul-56	0.0026	Jul-56

Aug-56	0.0026	Aug-56
Sep-56	0.0025	Sep-56
Oct-56	0.0029	Oct-56
Nov-56	0.0027	Nov-56
Dec-56	0.0028	Dec-56
Jan-57	0.0029	Jan-57
Feb-57	0.0025	Feb-57
Mar-57	0.0026	Mar-57
Apr-57	0.0029	Apr-57
May-57	0.0029	May-57
Jun-57	0.0025	Jun-57
Jul-57	0.0033	Jul-57
Aug-57	0.0030	Aug-57
Sep-57	0.0031	Sep-57
Oct-57	0.0031	Oct-57
Nov-57	0.0029	Nov-57
Dec-57	0.0029	Dec-57
Jan-58	0.0027	Jan-58
Feb-58	0.0025	Feb-58
Mar-58	0.0027	Mar-58
Apr-58	0.0026	Apr-58
May-58	0.0024	May-58
Jun-58	0.0027	Jun-58
Jul-58	0.0027	Jul-58
Aug-58	0.0027	Aug-58
Sep-58	0.0032	Sep-58
Oct-58	0.0032	Oct-58
Nov-58	0.0028	Nov-58
Dec-58	0.0033	Dec-58
Jan-59	0.0031	Jan-59
Feb-59	0.0031	Feb-59
Mar-59	0.0035	Mar-59
Apr-59	0.0033	Apr-59
May-59	0.0033	May-59
Jun-59	0.0036	Jun-59
Jul-59	0.0035	Jul-59
Aug-59	0.0035	Aug-59

Sep-59	0.0034	Sep-59
Oct-59	0.0035	Oct-59
Nov-59	0.0035	Nov-59
Dec-59	0.0036	Dec-59
Jan-60	0.0035	Jan-60
Feb-60	0.0037	Feb-60
Mar-60	0.0036	Mar-60
Apr-60	0.0032	Apr-60
May-60	0.0037	May-60
Jun-60	0.0034	Jun-60
Jul-60	0.0032	Jul-60
Aug-60	0.0034	Aug-60
Sep-60	0.0032	Sep-60
Oct-60	0.0033	Oct-60
Nov-60	0.0032	Nov-60
Dec-60	0.0033	Dec-60
Jan-61	0.0033	Jan-61
Feb-61	0.0030	Feb-61
Mar-61	0.0031	Mar-61
Apr-61	0.0031	Apr-61
May-61	0.0034	May-61
Jun-61	0.0032	Jun-61
Jul-61	0.0033	Jul-61
Aug-61	0.0033	Aug-61
Sep-61	0.0032	Sep-61
Oct-61	0.0034	Oct-61
Nov-61	0.0032	Nov-61
Dec-61	0.0031	Dec-61
Jan-62	0.0037	Jan-62
Feb-62	0.0032	Feb-62
Mar-62	0.0033	Mar-62
Apr-62	0.0033	Apr-62
May-62	0.0032	May-62
Jun-62	0.0030	Jun-62
Jul-62	0.0034	Jul-62
Aug-62	0.0034	Aug-62
Sep-62	0.0030	Sep-62

Oct-62	0.0035	Oct-62
Nov-62	0.0031	Nov-62
Dec-62	0.0032	Dec-62
Jan-63	0.0032	Jan-63
Feb-63	0.0029	Feb-63
Mar-63	0.0031	Mar-63
Apr-63	0.0034	Apr-63
May-63	0.0033	May-63
Jun-63	0.0030	Jun-63
Jul-63	0.0036	Jul-63
Aug-63	0.0033	Aug-63
Sep-63	0.0034	Sep-63
Oct-63	0.0034	Oct-63
Nov-63	0.0032	Nov-63
Dec-63	0.0036	Dec-63
Jan-64	0.0035	Jan-64
Feb-64	0.0032	Feb-64
Mar-64	0.0037	Mar-64
Apr-64	0.0035	Apr-64
May-64	0.0032	May-64
Jun-64	0.0038	Jun-64
Jul-64	0.0035	Jul-64
Aug-64	0.0035	Aug-64
Sep-64	0.0034	Sep-64
Oct-64	0.0034	Oct-64
Nov-64	0.0035	Nov-64
Dec-64	0.0035	Dec-64
Jan-65	0.0033	Jan-65
Feb-65	0.0032	Feb-65
Mar-65	0.0038	Mar-65
Apr-65	0.0033	Apr-65
May-65	0.0033	May-65
Jun-65	0.0038	Jun-65
Jul-65	0.0034	Jul-65
Aug-65	0.0037	Aug-65
Sep-65	0.0035	Sep-65
Oct-65	0.0034	Oct-65

Nov-65	0.0037	Nov-65
Dec-65	0.0037	Dec-65
Jan-66	0.0038	Jan-66
Feb-66	0.0034	Feb-66
Mar-66	0.0040	Mar-66
Apr-66	0.0036	Apr-66
May-66	0.0041	May-66
Jun-66	0.0039	Jun-66
Jul-66	0.0038	Jul-66
Aug-66	0.0043	Aug-66
Sep-66	0.0041	Sep-66
Oct-66	0.0040	Oct-66
Nov-66	0.0038	Nov-66
Dec-66	0.0039	Dec-66
Jan-67	0.0040	Jan-67
Feb-67	0.0034	Feb-67
Mar-67	0.0039	Mar-67
Apr-67	0.0035	Apr-67
May-67	0.0043	May-67
Jun-67	0.0039	Jun-67
Jul-67	0.0043	Jul-67
Aug-67	0.0042	Aug-67
Sep-67	0.0040	Sep-67
Oct-67	0.0045	Oct-67
Nov-67	0.0045	Nov-67
Dec-67	0.0044	Dec-67
Jan-68	0.0050	Jan-68
Feb-68	0.0042	Feb-68
Mar-68	0.0043	Mar-68
Apr-68	0.0049	Apr-68
May-68	0.0046	May-68
Jun-68	0.0042	Jun-68
Jul-68	0.0048	Jul-68
Aug-68	0.0042	Aug-68
Sep-68	0.0044	Sep-68
Oct-68	0.0045	Oct-68
Nov-68	0.0043	Nov-68

Dec-68	0.0049	Dec-68
Jan-69	0.0050	Jan-69
Feb-69	0.0046	Feb-69
Mar-69	0.0047	Mar-69
Apr-69	0.0055	Apr-69
May-69	0.0047	May-69
Jun-69	0.0055	Jun-69
Jul-69	0.0052	Jul-69
Aug-69	0.0048	Aug-69
Sep-69	0.0055	Sep-69
Oct-69	0.0057	Oct-69
Nov-69	0.0049	Nov-69
Dec-69	0.0060	Dec-69
Jan-70	0.0056	Jan-70
Feb-70	0.0052	Feb-70
Mar-70	0.0056	Mar-70
Apr-70	0.0054	Apr-70
May-70	0.0055	May-70
Jun-70	0.0064	Jun-70
Jul-70	0.0059	Jul-70
Aug-70	0.0057	Aug-70
Sep-70	0.0056	Sep-70
Oct-70	0.0055	Oct-70
Nov-70	0.0058	Nov-70
Dec-70	0.0053	Dec-70
Jan-71	0.0051	Jan-71
Feb-71	0.0046	Feb-71
Mar-71	0.0056	Mar-71
Apr-71	0.0048	Apr-71
May-71	0.0047	May-71
Jun-71	0.0056	Jun-71
Jul-71	0.0052	Jul-71
Aug-71	0.0055	Aug-71
Sep-71	0.0049	Sep-71
Oct-71	0.0047	Oct-71
Nov-71	0.0051	Nov-71
Dec-71	0.0050	Dec-71

	Jan-72					0.0050		Jan-72
	Feb-72					0.0047		Feb-72
	Mar-72					0.0049		Mar-72
	Apr-72					0.0048		Apr-72
	May-72					0.0055		May-72
	Jun-72					0.0049		Jun-72
	Jul-72					0.0051		Jul-72
	Aug-72					0.0049		Aug-72
	Sep-72					0.0047		Sep-72
	Oct-72					0.0052		Oct-72
	Nov-72					0.0048		Nov-72
23	Dec-72	BLACK HILLS POWER & LIGHT C(	BHPL	**-35.75**	-66	0	0.0045		Dec-72
23	Jan-73	BLACK HILLS POWER & LIGHT C(	BHPL	**-36**	0.006993	0	0.0054	0.0016	Jan-73
23	Feb-73	BLACK HILLS POWER & LIGHT C(	BHPL	**-35**	-0.0125	0.55	0.0051	-0.0176	Feb-73
23	Mar-73	BLACK HILLS POWER & LIGHT C(	BHPL	**-33.25**	-0.05	0	0.0056	-0.0556	Mar-73
23	Apr-73	BLACK HILLS POWER & LIGHT C(	BHPL	**-32.75**	-0.01504	0	0.0057	-0.0207	Apr-73
23	May-73	BLACK HILLS POWER & LIGHT C(	BHPL	**-31.5**	-0.02137	0.55	0.0058	-0.0272	May-73
23	Jun-73	BLACK HILLS POWER & LIGHT C(	BHPL	**-32.25**	0.02381	0	0.0055	0.0183	Jun-73
23	Jul-73	BLACK HILLS POWER & LIGHT C(	BHPL	**-31.75**	-0.0155	0	0.0061	-0.0216	Jul-73
23	Aug-73	BLACK HILLS POWER & LIGHT C(	BHPL	**-30.75**	-0.01417	0.55	0.0062	-0.0204	Aug-73
23	Sep-73	BLACK HILLS POWER & LIGHT C(	BHPL	**-34.5**	0.121951	0	0.0055	0.1165	Sep-73
23	Oct-73	BLACK HILLS POWER & LIGHT C(	BHPL	**-34.75**	0.007246	0	0.0063	0.0009	Oct-73
23	Nov-73	BLACK HILLS POWER & LIGHT C(	BHPL	**-32.25**	-0.05612	0.55	0.0056	-0.0617	Nov-73
23	Dec-73	BLACK HILLS POWER & LIGHT C(	BHPL	**-34.25**	0.062016	0	0.0060	0.0560	Dec-73
23	Jan-74	BLACK HILLS POWER & LIGHT C(	BHPL	**-35.75**	0.043796	0	0.0061	0.0377	Jan-74
23	Feb-74	BLACK HILLS POWER & LIGHT C(	BHPL	**-36**	0.022378	0.55	0.0055	0.0169	Feb-74
23	Mar-74	BLACK HILLS POWER & LIGHT C(	BHPL	**-36**	0	0	0.0058	-0.0058	Mar-74
23	Apr-74	BLACK HILLS POWER & LIGHT C(	BHPL	**-32.25**	-0.10417	0	0.0068	-0.1110	Apr-74
23	May-74	BLACK HILLS POWER & LIGHT C(	BHPL	**-30.75**	-0.02853	0.58	0.0068	-0.0353	May-74
23	Jun-74	BLACK HILLS POWER & LIGHT C(	BHPL	**-30.25**	-0.01626	0	0.0061	-0.0224	Jun-74
23	Jul-74	BLACK HILLS POWER & LIGHT C(	BHPL	**-27.75**	-0.08265	0	0.0072	-0.0898	Jul-74
23	Aug-74	BLACK HILLS POWER & LIGHT C(	BHPL	**-26**	-0.04216	0.58	0.0065	-0.0487	Aug-74
23	Sep-74	BLACK HILLS POWER & LIGHT C(	BHPL	**-23.75**	-0.08654	0	0.0071	-0.0936	Sep-74
23	Oct-74	BLACK HILLS POWER & LIGHT C(	BHPL	**-26.75**	0.126316	0	0.0070	0.1193	Oct-74
23	Nov-74	BLACK HILLS POWER & LIGHT C(	BHPL	**-25.25**	-0.03439	0.58	0.0062	-0.0406	Nov-74
23	Dec-74	BLACK HILLS POWER & LIGHT C(	BHPL	**-25.25**	0	0	0.0067	-0.0067	Dec-74
23	Jan-75	BLACK HILLS POWER & LIGHT C(	BHPL	**-28.25**	0.118812	0	0.0068	0.1120	Jan-75

23	Feb-75	BLACK HILLS POWER & LIGHT C(	BHPL	**-29.25**	0.055929	0.58	0.0060	0.0499	Feb-75
23	Mar-75	BLACK HILLS POWER & LIGHT C(	BHPL	**-28**	-0.04274	0	0.0066	-0.0493	Mar-75
23	Apr-75	BLACK HILLS POWER & LIGHT C(	BHPL	**-29**	0.035714	0	0.0067	0.0290	Apr-75
23	May-75	BLACK HILLS POWER & LIGHT C(	BHPL	**-29.5**	0.038621	0.62	0.0067	0.0319	May-75
23	Jun-75	BLACK HILLS POWER & LIGHT C(	BHPL	**-36.25**	0.228814	0	0.0070	0.2218	Jun-75
23	Jul-75	BLACK HILLS POWER & LIGHT C(	BHPL	**-34.75**	-0.04138	0	0.0068	-0.0482	Jul-75
23	Aug-75	BLACK HILLS POWER & LIGHT C(	BHPL	**-33.75**	-0.01094	0.62	0.0065	-0.0174	Aug-75
23	Sep-75	BLACK HILLS POWER & LIGHT C(	BHPL	**-34.75**	0.02963	0	0.0073	0.0223	Sep-75
23	Oct-75	BLACK HILLS POWER & LIGHT C(	BHPL	**-35.5**	0.021583	0	0.0072	0.0144	Oct-75
23	Nov-75	BLACK HILLS POWER & LIGHT C(	BHPL	**-35.75**	0.024507	0.62	0.0061	0.0184	Nov-75
23	Dec-75	BLACK HILLS POWER & LIGHT C(	BHPL	**-36.5**	0.020979	0	0.0074	0.0136	Dec-75
23	Jan-76	BLACK HILLS POWER & LIGHT C(	BHPL	**-42.25**	0.157534	0	0.0065	0.1510	Jan-76
23	Feb-76	BLACK HILLS POWER & LIGHT C(	BHPL	**-20.125**	-0.03266	0.62	0.0060	-0.0387	Feb-76
23	Mar-76	BLACK HILLS POWER & LIGHT C(	BHPL	**-18**	-0.10004	0	0.0071	-0.1071	Mar-76
23	Apr-76	BLACK HILLS POWER & LIGHT C(	BHPL	**-17.625**	-0.02083	0	0.0064	-0.0272	Apr-76
23	May-76	BLACK HILLS POWER & LIGHT C(	BHPL	**-19**	0.09844	0.36	0.0059	0.0925	May-76
23	Jun-76	BLACK HILLS POWER & LIGHT C(	BHPL	**-18.25**	-0.03947	0	0.0073	-0.0468	Jun-76
23	Jul-76	BLACK HILLS POWER & LIGHT C(	BHPL	**-18.5**	0.013699	0	0.0065	0.0072	Jul-76
23	Aug-76	BLACK HILLS POWER & LIGHT C(	BHPL	**-19.75**	0.087027	0.36	0.0069	0.0801	Aug-76
23	Sep-76	BLACK HILLS POWER & LIGHT C(	BHPL	**-20.625**	0.044304	0	0.0064	0.0379	Sep-76
23	Oct-76	BLACK HILLS POWER & LIGHT C(	BHPL	**-20**	-0.0303	0	0.0061	-0.0364	Oct-76
23	Nov-76	BLACK HILLS POWER & LIGHT C(	BHPL	**-18.5**	-0.057	0.36	0.0066	-0.0636	Nov-76
23	Dec-76	BLACK HILLS POWER & LIGHT C(	BHPL	**-20.625**	0.114865	0	0.0063	0.1086	Dec-76
23	Jan-77	BLACK HILLS POWER & LIGHT C(	BHPL	**-22**	0.066667	0	0.0059	0.0608	Jan-77
23	Feb-77	BLACK HILLS POWER & LIGHT C(	BHPL	**-22.5**	0.039091	0.36	0.0057	0.0334	Feb-77
23	Mar-77	BLACK HILLS POWER & LIGHT C(	BHPL	**-24.375**	0.083333	0	0.0065	0.0768	Mar-77
23	Apr-77	BLACK HILLS POWER & LIGHT C(	BHPL	**-25.75**	0.05641	0	0.0061	0.0503	Apr-77
23	May-77	BLACK HILLS POWER & LIGHT C(	BHPL	**-21.875**	-0.13651	0.36	0.0067	-0.1432	May-77
23	Jun-77	BLACK HILLS POWER & LIGHT C(	BHPL	**-22.25**	0.017143	0	0.0062	0.0109	Jun-77
23	Jul-77	BLACK HILLS POWER & LIGHT C(	BHPL	**-23.75**	0.067416	0	0.0059	0.0615	Jul-77
23	Aug-77	BLACK HILLS POWER & LIGHT C(	BHPL	**-23.75**	0.015158	0.36	0.0067	0.0085	Aug-77
23	Sep-77	BLACK HILLS POWER & LIGHT C(	BHPL	**-22.25**	-0.06316	0	0.0061	-0.0693	Sep-77
23	Oct-77	BLACK HILLS POWER & LIGHT C(	BHPL	**-21.875**	-0.01685	0	0.0063	-0.0232	Oct-77
23	Nov-77	BLACK HILLS POWER & LIGHT C(	BHPL	**-24**	0.097143	0	0.0063	0.0908	Nov-77
23	Dec-77	BLACK HILLS POWER & LIGHT C(	BHPL	**-23.75**	0.009583	0.48	0.0062	0.0034	Dec-77
23	Jan-78	BLACK HILLS POWER & LIGHT C(	BHPL	**-22.75**	-0.04211	0	0.0069	-0.0490	Jan-78
23	Feb-78	BLACK HILLS POWER & LIGHT C(	BHPL	**-21.75**	-0.04396	0	0.0060	-0.0500	Feb-78

23	Mar-78	BLACK HILLS POWER & LIGHT C(	BHPL	**-23.75**	0.108506	0.36	0.0069	0.1016	Mar-78
23	Apr-78	BLACK HILLS POWER & LIGHT C(	BHPL	**-23.75**	0	0	0.0063	-0.0063	Apr-78
23	May-78	BLACK HILLS POWER & LIGHT C(	BHPL	**-27.5**	0.157895	0	0.0075	0.1504	May-78
23	Jun-78	BLACK HILLS POWER & LIGHT C(	BHPL	**-26.125**	-0.03546	0.4	0.0069	-0.0424	Jun-78
23	Jul-78	BLACK HILLS POWER & LIGHT C(	BHPL	**-29.125**	0.114833	0	0.0073	0.1075	Jul-78
23	Aug-78	BLACK HILLS POWER & LIGHT C(	BHPL	**-29**	-0.00429	0	0.0070	-0.0113	Aug-78
23	Sep-78	BLACK HILLS POWER & LIGHT C(	BHPL	**-29.75**	0.040345	0.42	0.0065	0.0338	Sep-78
23	Oct-78	BLACK HILLS POWER & LIGHT C(	BHPL	**-23.625**	-0.20588	0	0.0073	-0.2132	Oct-78
23	Nov-78	BLACK HILLS POWER & LIGHT C(	BHPL	**-25.875**	0.095238	0	0.0071	0.0881	Nov-78
23	Dec-78	BLACK HILLS POWER & LIGHT C(	BHPL	**-25.25**	-0.00792	0.42	0.0068	-0.0147	Dec-78
23	Jan-79	BLACK HILLS POWER & LIGHT C(	BHPL	**-26.5**	0.049505	0	0.0079	0.0416	Jan-79
23	Feb-79	BLACK HILLS POWER & LIGHT C(	BHPL	**-27**	0.018868	0	0.0065	0.0124	Feb-79
23	Mar-79	BLACK HILLS POWER & LIGHT C(	BHPL	**-25.875**	-0.02611	0.42	0.0074	-0.0335	Mar-79
23	Apr-79	BLACK HILLS POWER & LIGHT C(	BHPL	**-25.125**	-0.02899	0	0.0076	-0.0366	Apr-79
23	May-79	BLACK HILLS POWER & LIGHT C(	BHPL	**-24.375**	-0.02985	0	0.0077	-0.0376	May-79
23	Jun-79	BLACK HILLS POWER & LIGHT C(	BHPL	**-24.375**	0.018462	0.45	0.0071	0.0114	Jun-79
23	Jul-79	BLACK HILLS POWER & LIGHT C(	BHPL	**-26.375**	0.082051	0	0.0076	0.0745	Jul-79
23	Aug-79	BLACK HILLS POWER & LIGHT C(	BHPL	**-27.375**	0.049289	0.3	0.0073	0.0420	Aug-79
23	Sep-79	BLACK HILLS POWER & LIGHT C(	BHPL	**-26.375**	-0.03653	0	0.0068	-0.0433	Sep-79
23	Oct-79	BLACK HILLS POWER & LIGHT C(	BHPL	**-23.875**	-0.09479	0	0.0082	-0.1030	Oct-79
23	Nov-79	BLACK HILLS POWER & LIGHT C(	BHPL	**-24.375**	0.039791	0.45	0.0083	0.0315	Nov-79
23	Dec-79	BLACK HILLS POWER & LIGHT C(	BHPL	**-26.625**	0.092308	0	0.0083	0.0840	Dec-79
23	Jan-80	BLACK HILLS POWER & LIGHT C(	BHPL	**-27.125**	0.018779	0	0.0083	0.0105	Jan-80
23	Feb-80	BLACK HILLS POWER & LIGHT C(	BHPL	**-25.625**	-0.03871	0.45	0.0084	-0.0471	Feb-80
23	Mar-80	BLACK HILLS POWER & LIGHT C(	BHPL	**-22.125**	-0.13659	0	0.0099	-0.1465	Mar-80
23	Apr-80	BLACK HILLS POWER & LIGHT C(	BHPL	**-24.625**	0.112994	0	0.0100	0.1030	Apr-80
23	May-80	BLACK HILLS POWER & LIGHT C(	BHPL	**-24.375**	0.009746	0.49	0.0087	0.0010	May-80
23	Jun-80	BLACK HILLS POWER & LIGHT C(	BHPL	**-27.375**	0.123077	0	0.0086	0.1145	Jun-80
23	Jul-80	BLACK HILLS POWER & LIGHT C(	BHP	26.125	-0.04566	0	0.0084	-0.0541	Jul-80
23	Aug-80	BLACK HILLS POWER & LIGHT C(	BHP	25	-0.02431	0.49	0.0081	-0.0324	Aug-80
23	Sep-80	BLACK HILLS POWER & LIGHT C(	BHP	25.25	0.01	0	0.0097	0.0003	Sep-80
23	Oct-80	BLACK HILLS POWER & LIGHT C(	BHP	25.25	0	0	0.0097	-0.0097	Oct-80
23	Nov-80	BLACK HILLS POWER & LIGHT C(	BHP	24.75	-0.0004	0.49	0.0091	-0.0095	Nov-80
23	Dec-80	BLACK HILLS POWER & LIGHT C(	BHP	25.75	0.040404	0	0.0108	0.0296	Dec-80
23	Jan-81	BLACK HILLS POWER & LIGHT C(	BHP	24.375	-0.0534	0	0.0094	-0.0628	Jan-81
23	Feb-81	BLACK HILLS POWER & LIGHT C(	BHP	23.625	-0.01067	0.49	0.0088	-0.0195	Feb-81
23	Mar-81	BLACK HILLS POWER & LIGHT C(	BHP	23.375	-0.01058	0	0.0111	-0.0217	Mar-81

23	Apr-81	BLACK HILLS POWER & LIGHT C(	BHP	**-23.125**	-0.0107	0	0.0101	-0.0208	Apr-81
23	May-81	BLACK HILLS POWER & LIGHT C(	BHP	24	0.061189	0.54	0.0104	0.0508	May-81
23	Jun-81	BLACK HILLS POWER & LIGHT C(	BHP	23.5	-0.02083	0	0.0109	-0.0317	Jun-81
23	Jul-81	BLACK HILLS POWER & LIGHT C(	BHP	23.75	0.010638	0	0.0109	-0.0003	Jul-81
23	Aug-81	BLACK HILLS POWER & LIGHT C(	BHP	22.375	-0.03516	0.54	0.0110	-0.0462	Aug-81
23	Sep-81	BLACK HILLS POWER & LIGHT C(	BHP	21.5	-0.03911	0	0.0114	-0.0505	Sep-81
23	Oct-81	BLACK HILLS POWER & LIGHT C(	BHP	21.375	-0.00581	0	0.0117	-0.0175	Oct-81
23	Nov-81	BLACK HILLS POWER & LIGHT C(	BHP	21.75	0.042807	0.54	0.0113	0.0315	Nov-81
23	Dec-81	BLACK HILLS POWER & LIGHT C(	BHP	23	0.057471	0	0.0100	0.0475	Dec-81
23	Jan-82	BLACK HILLS POWER & LIGHT C(	BHP	23.5	0.021739	0	0.0108	0.0109	Jan-82
23	Feb-82	BLACK HILLS POWER & LIGHT C(	BHP	23.25	0.01234	0.54	0.0103	0.0020	Feb-82
23	Mar-82	BLACK HILLS POWER & LIGHT C(	BHP	22.125	-0.04839	0	0.0124	-0.0608	Mar-82
23	Apr-82	BLACK HILLS POWER & LIGHT C(	BHP	24.5	0.107345	0	0.0112	0.0961	Apr-82
23	May-82	BLACK HILLS POWER & LIGHT C(	BHP	24.75	0.034694	0.6	0.0101	0.0246	May-82
23	Jun-82	BLACK HILLS POWER & LIGHT C(	BHP	25.375	0.025253	0	0.0120	0.0133	Jun-82
23	Jul-82	BLACK HILLS POWER & LIGHT C(	BHP	25.625	0.009852	0	0.0114	-0.0015	Jul-82
23	Aug-82	BLACK HILLS POWER & LIGHT C(	BHP	25.625	0.023415	0.6	0.0112	0.0122	Aug-82
23	Sep-82	BLACK HILLS POWER & LIGHT C(	BHP	26.875	0.04878	0	0.0100	0.0388	Sep-82
23	Oct-82	BLACK HILLS POWER & LIGHT C(	BHP	28	0.04186	0	0.0091	0.0328	Oct-82
23	Nov-82	BLACK HILLS POWER & LIGHT C(	BHP	29.75	0.083929	0.6	0.0094	0.0745	Nov-82
23	Dec-82	BLACK HILLS POWER & LIGHT C(	BHP	32.75	0.10084	0	0.0093	0.0915	Dec-82
23	Jan-83	BLACK HILLS POWER & LIGHT C(	BHP	32.25	-0.01527	0	0.0087	-0.0240	Jan-83
23	Feb-83	BLACK HILLS POWER & LIGHT C(	BHP	35.875	0.131008	0.6	0.0081	0.1229	Feb-83
23	Mar-83	BLACK HILLS POWER & LIGHT C(	BHP	35.125	-0.02091	0	0.0089	-0.0298	Mar-83
23	Apr-83	BLACK HILLS POWER & LIGHT C(	BHP	38.25	0.088968	0	0.0085	0.0805	Apr-83
23	May-83	BLACK HILLS POWER & LIGHT C(	BHP	38	0.011242	0.68	0.0091	0.0021	May-83
23	Jun-83	BLACK HILLS POWER & LIGHT C(	BHP	17.75	-0.06579	0	0.0090	-0.0748	Jun-83
23	Jul-83	BLACK HILLS POWER & LIGHT C(	BHP	20.25	0.140845	0	0.0088	0.1320	Jul-83
23	Aug-83	BLACK HILLS POWER & LIGHT C(	BHP	18.75	-0.05728	0.34	0.0103	-0.0676	Aug-83
23	Sep-83	BLACK HILLS POWER & LIGHT C(	BHP	20.25	0.08	0	0.0096	0.0704	Sep-83
23	Oct-83	BLACK HILLS POWER & LIGHT C(	BHP	20.875	0.030864	0	0.0095	0.0214	Oct-83
23	Nov-83	BLACK HILLS POWER & LIGHT C(	BHP	20.75	0.010299	0.34	0.0094	0.0009	Nov-83
23	Dec-83	BLACK HILLS POWER & LIGHT C(	BHP	22.375	0.078313	0	0.0094	0.0689	Dec-83
23	Jan-84	BLACK HILLS POWER & LIGHT C(	BHP	23	0.027933	0	0.0103	0.0176	Jan-84
23	Feb-84	BLACK HILLS POWER & LIGHT C(	BHP	22.5	-0.00348	0.42	0.0092	-0.0127	Feb-84
23	Mar-84	BLACK HILLS POWER & LIGHT C(	BHP	20.75	-0.07778	0	0.0098	-0.0876	Mar-84
23	Apr-84	BLACK HILLS POWER & LIGHT C(	BHP	22.125	0.066265	0	0.0104	0.0559	Apr-84

23	May-84	BLACK HILLS POWER & LIGHT C(	BHP	21.375	-0.01492	0.42	0.0103	-0.0252	May-84
23	Jun-84	BLACK HILLS POWER & LIGHT C(	BHP	21.5	0.005848	0	0.0106	-0.0048	Jun-84
23	Jul-84	BLACK HILLS POWER & LIGHT C(	BHP	21.875	0.017442	0	0.0116	0.0058	Jul-84
23	Aug-84	BLACK HILLS POWER & LIGHT C(	BHP	22.125	0.030629	0.42	0.0106	0.0200	Aug-84
23	Sep-84	BLACK HILLS POWER & LIGHT C(	BHP	22.875	0.033898	0	0.0094	0.0245	Sep-84
23	Oct-84	BLACK HILLS POWER & LIGHT C(	BHP	24.375	0.065574	0	0.0108	0.0548	Oct-84
23	Nov-84	BLACK HILLS POWER & LIGHT C(	BHP	25.625	0.068513	0.42	0.0091	0.0594	Nov-84
23	Dec-84	BLACK HILLS POWER & LIGHT C(	BHP	27	0.053659	0	0.0098	0.0439	Dec-84
23	Jan-85	BLACK HILLS POWER & LIGHT C(	BHP	27.75	0.027778	0	0.0096	0.0182	Jan-85
23	Feb-85	BLACK HILLS POWER & LIGHT C(	BHP	28.75	0.053333	0.48	0.0082	0.0451	Feb-85
23	Mar-85	BLACK HILLS POWER & LIGHT C(	BHP	29.375	0.021739	0	0.0094	0.0123	Mar-85
23	Apr-85	BLACK HILLS POWER & LIGHT C(	BHP	30.125	0.025532	0	0.0102	0.0153	Apr-85
23	May-85	BLACK HILLS POWER & LIGHT C(	BHP	33.5	0.127967	0.48	0.0097	0.1183	May-85
23	Jun-85	BLACK HILLS POWER & LIGHT C(	BHP	32.75	-0.02239	0	0.0080	-0.0304	Jun-85
23	Jul-85	BLACK HILLS POWER & LIGHT C(	BHP	33	0.007634	0	0.0094	-0.0018	Jul-85
23	Aug-85	BLACK HILLS POWER & LIGHT C(	BHP	34.5	0.06	0.48	0.0085	0.0515	Aug-85
23	Sep-85	BLACK HILLS POWER & LIGHT C(	BHP	34	-0.01449	0	0.0088	-0.0233	Sep-85
23	Oct-85	BLACK HILLS POWER & LIGHT C(	BHP	33.625	-0.01103	0	0.0089	-0.0199	Oct-85
23	Nov-85	BLACK HILLS POWER & LIGHT C(	BHP	35.375	0.06632	0.48	0.0081	0.0582	Nov-85
23	Dec-85	BLACK HILLS POWER & LIGHT C(	BHP	40.75	0.151943	0	0.0086	0.1433	Dec-85
23	Jan-86	BLACK HILLS POWER & LIGHT C(	BHP	43.25	0.06135	0	0.0079	0.0535	Jan-86
23	Feb-86	BLACK HILLS POWER & LIGHT C(	BHP	49.5	0.157688	0.57	0.0073	0.1504	Feb-86
23	Mar-86	BLACK HILLS CORP	BKH	23.375	-0.05556	0	0.0071	-0.0627	Mar-86
23	Apr-86	BLACK HILLS CORP	BKH	24.25	0.037433	0	0.0063	0.0311	Apr-86
23	May-86	BLACK HILLS CORP	BKH	23.125	-0.03464	0.285	0.0062	-0.0408	May-86
23	Jun-86	BLACK HILLS CORP	BKH	23.5	0.016216	0	0.0070	0.0092	Jun-86
23	Jul-86	BLACK HILLS CORP	BKH	26	0.106383	0	0.0066	0.0998	Jul-86
23	Aug-86	BLACK HILLS CORP	BKH	25.875	0.006154	0.285	0.0063	-0.0001	Aug-86
23	Sep-86	BLACK HILLS CORP	BKH	23.625	-0.08696	0	0.0065	-0.0935	Sep-86
23	Oct-86	BLACK HILLS CORP	BKH	24.75	0.047619	0	0.0069	0.0407	Oct-86
23	Nov-86	BLACK HILLS CORP	BKH	22.5	-0.07939	0.285	0.0059	-0.0853	Nov-86
23	Dec-86	BLACK HILLS CORP	BKH	21.75	-0.03333	0	0.0070	-0.0403	Dec-86
23	Jan-87	BLACK HILLS CORP	BKH	23.625	0.086207	0	0.0064	0.0798	Jan-87
23	Feb-87	BLACK HILLS CORP	BKH	22.375	-0.04021	0.3	0.0059	-0.0461	Feb-87
23	Mar-87	BLACK HILLS CORP	BKH	21.875	-0.02235	0	0.0066	-0.0289	Mar-87
23	Apr-87	BLACK HILLS CORP	BKH	20	-0.08571	0	0.0065	-0.0922	Apr-87
23	May-87	BLACK HILLS CORP	BKH	21.5	0.09	0.3	0.0066	0.0834	May-87

23	Jun-87	BLACK HILLS CORP	BKH	23.25	0.081395	0	0.0075	0.0739	Jun-87
23	Jul-87	BLACK HILLS CORP	BKH	23.375	0.005376	0	0.0073	-0.0019	Jul-87
23	Aug-87	BLACK HILLS CORP	BKH	25	0.083209	0.32	0.0075	0.0757	Aug-87
23	Sep-87	BLACK HILLS CORP	BKH	23.875	-0.045	0	0.0075	-0.0525	Sep-87
23	Oct-87	BLACK HILLS CORP	BKH	23	-0.03665	0	0.0079	-0.0445	Oct-87
23	Nov-87	BLACK HILLS CORP	BKH	21.125	-0.06761	0.32	0.0075	-0.0751	Nov-87
23	Dec-87	BLACK HILLS CORP	BKH	23.25	0.100592	0	0.0078	0.0928	Dec-87
23	Jan-88	BLACK HILLS CORP	BKH	24	0.032258	0	0.0072	0.0251	Jan-88
23	Feb-88	BLACK HILLS CORP	BKH	24.75	0.045833	0.35	0.0071	0.0387	Feb-88
23	Mar-88	BLACK HILLS CORP	BKH	26.25	0.060606	0	0.0072	0.0534	Mar-88
23	Apr-88	BLACK HILLS CORP	BKH	25.875	-0.01429	0	0.0070	-0.0213	Apr-88
23	May-88	BLACK HILLS CORP	BKH	25.75	0.008696	0.35	0.0078	0.0009	May-88
23	Jun-88	BLACK HILLS CORP	BKH	27.625	0.072816	0	0.0076	0.0652	Jun-88
23	Jul-88	BLACK HILLS CORP	BKH	27.5	-0.00453	0	0.0071	-0.0116	Jul-88
23	Aug-88	BLACK HILLS CORP	BKH	27	-0.00546	0.35	0.0083	-0.0138	Aug-88
23	Sep-88	BLACK HILLS CORP	BKH	27	0	0	0.0076	-0.0076	Sep-88
23	Oct-88	BLACK HILLS CORP	BKH	27.375	0.013889	0	0.0076	0.0063	Oct-88
23	Nov-88	BLACK HILLS CORP	BKH	25.875	-0.04201	0.35	0.0070	-0.0490	Nov-88
23	Dec-88	BLACK HILLS CORP	BKH	25.25	-0.02416	0	0.0075	-0.0317	Dec-88
23	Jan-89	BLACK HILLS CORP	BKH	26.875	0.064356	0	0.0080	0.0564	Jan-89
23	Feb-89	BLACK HILLS CORP	BKH	26	-0.01842	0.38	0.0069	-0.0253	Feb-89
23	Mar-89	BLACK HILLS CORP	BKH	25.875	-0.00481	0	0.0079	-0.0127	Mar-89
23	Apr-89	BLACK HILLS CORP	BKH	26.25	0.014493	0	0.0070	0.0075	Apr-89
23	May-89	BLACK HILLS CORP	BKH	26	0.004952	0.38	0.0080	-0.0030	May-89
23	Jun-89	BLACK HILLS CORP	BKH	28.5	0.096154	0	0.0070	0.0892	Jun-89
23	Jul-89	BLACK HILLS CORP	BKH	29.25	0.026316	0	0.0068	0.0195	Jul-89
23	Aug-89	BLACK HILLS CORP	BKH	27.875	-0.03402	0.38	0.0066	-0.0406	Aug-89
23	Sep-89	BLACK HILLS CORP	BKH	27.75	-0.00448	0	0.0065	-0.0110	Sep-89
23	Oct-89	BLACK HILLS CORP	BKH	26.625	-0.04054	0	0.0072	-0.0477	Oct-89
23	Nov-89	BLACK HILLS CORP	BKH	27.25	0.037746	0.38	0.0064	0.0313	Nov-89
23	Dec-89	BLACK HILLS CORP	BKH	28.625	0.050459	0	0.0064	0.0441	Dec-89
23	Jan-90	BLACK HILLS CORP	BKH	26.875	-0.06114	0	0.0073	-0.0684	Jan-90
23	Feb-90	BLACK HILLS CORP	BKH	27.375	0.03386	0.41	0.0066	0.0273	Feb-90
23	Mar-90	BLACK HILLS CORP	BKH	28.5	0.041096	0	0.0071	0.0340	Mar-90
23	Apr-90	BLACK HILLS CORP	BKH	27.75	-0.02632	0	0.0075	-0.0338	Apr-90
23	May-90	BLACK HILLS CORP	BKH	27.625	0.01027	0.41	0.0075	0.0028	May-90
23	Jun-90	BLACK HILLS CORP	BKH	28.25	0.022624	0	0.0068	0.0158	Jun-90

23	Jul-90	BLACK HILLS CORP	BKH	29.375	0.039823	0	0.0074	0.0324	Jul-90
23	Aug-90	BLACK HILLS CORP	BKH	27.875	-0.03711	0.41	0.0071	-0.0442	Aug-90
23	Sep-90	BLACK HILLS CORP	BKH	26.125	-0.06278	0	0.0069	-0.0697	Sep-90
23	Oct-90	BLACK HILLS CORP	BKH	25.875	-0.00957	0	0.0081	-0.0177	Oct-90
23	Nov-90	BLACK HILLS CORP	BKH	28.375	0.112464	0.41	0.0071	0.1054	Nov-90
23	Dec-90	BLACK HILLS CORP	BKH	30.375	0.070485	0	0.0072	0.0633	Dec-90
23	Jan-91	BLACK HILLS CORP	BKH	30.875	0.016461	0	0.0071	0.0094	Jan-91
23	Feb-91	BLACK HILLS CORP	BKH	33	0.083077	0.44	0.0064	0.0767	Feb-91
23	Mar-91	BLACK HILLS CORP	BKH	34.875	0.056818	0	0.0064	0.0504	Mar-91
23	Apr-91	BLACK HILLS CORP	BKH	37.625	0.078853	0	0.0076	0.0713	Apr-91
23	May-91	BLACK HILLS CORP	BKH	34.875	-0.0614	0.44	0.0068	-0.0682	May-91
23	Jun-91	BLACK HILLS CORP	BKH	33.875	-0.02867	0	0.0063	-0.0350	Jun-91
23	Jul-91	BLACK HILLS CORP	BKH	36	0.062731	0	0.0076	0.0551	Jul-91
23	Aug-91	BLACK HILLS CORP	BKH	38.875	0.092083	0.44	0.0068	0.0853	Aug-91
23	Sep-91	BLACK HILLS CORP	BKH	38	-0.02251	0	0.0068	-0.0293	Sep-91
23	Oct-91	BLACK HILLS CORP	BKH	35.25	-0.07237	0	0.0065	-0.0789	Oct-91
23	Nov-91	BLACK HILLS CORP	BKH	38.75	0.111773	0.44	0.0060	0.1058	Nov-91
23	Dec-91	BLACK HILLS CORP	BKH	41.375	0.067742	0	0.0068	0.0609	Dec-91
23	Jan-92	BLACK HILLS CORP	BKH	39.375	-0.04834	0	0.0061	-0.0544	Jan-92
23	Feb-92	BLACK HILLS CORP	BKH	42.125	0.081651	0.465	0.0059	0.0758	Feb-92
23	Mar-92	BLACK HILLS CORP	BKH	27	-0.03858	0	0.0067	-0.0453	Mar-92
23	Apr-92	BLACK HILLS CORP	BKH	30	0.111111	0	0.0065	0.1046	Apr-92
23	May-92	BLACK HILLS CORP	BKH	30.875	0.0395	0.31	0.0061	0.0334	May-92
23	Jun-92	BLACK HILLS CORP	BKH	29	-0.06073	0	0.0067	-0.0674	Jun-92
23	Jul-92	BLACK HILLS CORP	BKH	28.625	-0.01293	0	0.0063	-0.0192	Jul-92
23	Aug-92	BLACK HILLS CORP	BKH	28.125	-0.00664	0.31	0.0060	-0.0126	Aug-92
23	Sep-92	BLACK HILLS CORP	BKH	28.75	0.022222	0	0.0058	0.0164	Sep-92
23	Oct-92	BLACK HILLS CORP	BKH	26.875	-0.06522	0	0.0057	-0.0709	Oct-92
23	Nov-92	BLACK HILLS CORP	BKH	24.875	-0.06288	0.31	0.0061	-0.0690	Nov-92
23	Dec-92	BLACK HILLS CORP	BKH	27.5	0.105528	0	0.0063	0.0992	Dec-92
23	Jan-93	BLACK HILLS CORP	BKH	26.875	-0.02273	0	0.0059	-0.0286	Jan-93
23	Feb-93	BLACK HILLS CORP	BKH	26	-0.02065	0.32	0.0055	-0.0262	Feb-93
23	Mar-93	BLACK HILLS CORP	BKH	25.75	-0.00962	0	0.0063	-0.0159	Mar-93
23	Apr-93	BLACK HILLS CORP	BKH	25	-0.02913	0	0.0057	-0.0348	Apr-93
23	May-93	BLACK HILLS CORP	BKH	25.625	0.0378	0.32	0.0052	0.0326	May-93
23	Jun-93	BLACK HILLS CORP	BKH	25.25	-0.01463	0	0.0062	-0.0208	Jun-93
23	Jul-93	BLACK HILLS CORP	BKH	25.25	0	0	0.0054	-0.0054	Jul-93

23	Aug-93	BLACK HILLS CORP	BKH	26.375	0.057228	0.32	0.0056	0.0516	Aug-93
23	Sep-93	BLACK HILLS CORP	BKH	26	-0.01422	0	0.0050	-0.0192	Sep-93
23	Oct-93	BLACK HILLS CORP	BKH	24.375	-0.0625	0	0.0049	-0.0674	Oct-93
23	Nov-93	BLACK HILLS CORP	BKH	22.875	-0.04841	0.32	0.0053	-0.0537	Nov-93
23	Dec-93	BLACK HILLS CORP	BKH	22.75	-0.00546	0	0.0055	-0.0110	Dec-93
23	Jan-94	BLACK HILLS CORP	BKH	22.5	-0.01099	0	0.0055	-0.0165	Jan-94
23	Feb-94	BLACK HILLS CORP	BKH	21.5	-0.02978	0.33	0.0049	-0.0347	Feb-94
23	Mar-94	BLACK HILLS CORP	BKH	21.125	-0.01744	0	0.0058	-0.0232	Mar-94
23	Apr-94	BLACK HILLS CORP	BKH	22	0.04142	0	0.0057	0.0357	Apr-94
23	May-94	BLACK HILLS CORP	BKH	20.875	-0.03614	0.33	0.0063	-0.0424	May-94
23	Jun-94	BLACK HILLS CORP	BKH	18.375	-0.11976	0	0.0061	-0.1259	Jun-94
23	Jul-94	BLACK HILLS CORP	BKH	20.125	0.095238	0	0.0060	0.0892	Jul-94
23	Aug-94	BLACK HILLS CORP	BKH	20.75	0.047453	0.33	0.0066	0.0409	Aug-94
23	Sep-94	BLACK HILLS CORP	BKH	19.875	-0.04217	0	0.0061	-0.0483	Sep-94
23	Oct-94	BLACK HILLS CORP	BKH	20.5	0.031447	0	0.0066	0.0248	Oct-94
23	Nov-94	BLACK HILLS CORP	BKH	19.625	-0.02659	0.33	0.0064	-0.0330	Nov-94
23	Dec-94	BLACK HILLS CORP	BKH	21.375	0.089172	0	0.0066	0.0826	Dec-94
23	Jan-95	BLACK HILLS CORP	BKH	22	0.02924	0	0.0070	0.0222	Jan-95
23	Feb-95	BLACK HILLS CORP	BKH	23.5	0.083409	0.335	0.0059	0.0775	Feb-95
23	Mar-95	BLACK HILLS CORP	BKH	22.5	-0.04255	0	0.0064	-0.0490	Mar-95
23	Apr-95	BLACK HILLS CORP	BKH	22	-0.02222	0	0.0058	-0.0280	Apr-95
23	May-95	BLACK HILLS CORP	BKH	21.625	-0.00182	0.335	0.0065	-0.0083	May-95
23	Jun-95	BLACK HILLS CORP	BKH	21	-0.0289	0	0.0054	-0.0343	Jun-95
23	Jul-95	BLACK HILLS CORP	BKH	24	0.142857	0	0.0056	0.1373	Jul-95
23	Aug-95	BLACK HILLS CORP	BKH	24.25	0.024375	0.335	0.0057	0.0187	Aug-95
23	Sep-95	BLACK HILLS CORP	BKH	24.5	0.010309	0	0.0052	0.0051	Sep-95
23	Oct-95	BLACK HILLS CORP	BKH	25.125	0.02551	0	0.0057	0.0198	Oct-95
23	Nov-95	BLACK HILLS CORP	BKH	24.75	-0.00159	0.335	0.0051	-0.0067	Nov-95
23	Dec-95	BLACK HILLS CORP	BKH	24.75	0	0	0.0049	-0.0049	Dec-95
23	Jan-96	BLACK HILLS CORP	BKH	25.5	0.030303	0	0.0054	0.0249	Jan-96
23	Feb-96	BLACK HILLS CORP	BKH	25.75	0.023333	0.345	0.0048	0.0185	Feb-96
23	Mar-96	BLACK HILLS CORP	BKH	24.25	-0.05825	0	0.0052	-0.0635	Mar-96
23	Apr-96	BLACK HILLS CORP	BKH	25	0.030928	0	0.0059	0.0250	Apr-96
23	May-96	BLACK HILLS CORP	BKH	24.125	-0.0212	0.345	0.0058	-0.0270	May-96
23	Jun-96	BLACK HILLS CORP	BKH	24.875	0.031088	0	0.0054	0.0257	Jun-96
23	Jul-96	BLACK HILLS CORP	BKH	23	-0.07538	0	0.0062	-0.0816	Jul-96
23	Aug-96	BLACK HILLS CORP	BKH	25	0.101957	0.345	0.0057	0.0963	Aug-96

23	Sep-96	BLACK HILLS CORP	BKH	25.875	0.035	0	0.0060	0.0290	Sep-96
23	Oct-96	BLACK HILLS CORP	BKH	25.5	-0.01449	0	0.0058	-0.0203	Oct-96
23	Nov-96	BLACK HILLS CORP	BKH	25.75	0.023333	0.345	0.0052	0.0181	Nov-96
23	Dec-96	BLACK HILLS CORP	BKH	28.125	0.092233	0	0.0056	0.0866	Dec-96
23	Jan-97	BLACK HILLS CORP	BKH	27.75	-0.01333	0	0.0056	-0.0189	Jan-97
23	Feb-97	BLACK HILLS CORP	BKH	27.75	0.012793	0.355	0.0051	0.0077	Feb-97
23	Mar-97	BLACK HILLS CORP	BKH	26.25	-0.05405	0	0.0059	-0.0600	Mar-97
23	Apr-97	BLACK HILLS CORP	BKH	28.125	0.071429	0	0.0059	0.0655	Apr-97
23	May-97	BLACK HILLS CORP	BKH	28.75	0.034844	0.355	0.0058	0.0290	May-97
23	Jun-97	BLACK HILLS CORP	BKH	28.5	-0.0087	0	0.0059	-0.0146	Jun-97
23	Jul-97	BLACK HILLS CORP	BKH	28.8125	0.010965	0	0.0058	0.0052	Jul-97
23	Aug-97	BLACK HILLS CORP	BKH	27.875	-0.02022	0.355	0.0049	-0.0251	Aug-97
23	Sep-97	BLACK HILLS CORP	BKH	29.3125	0.05157	0	0.0058	0.0458	Sep-97
23	Oct-97	BLACK HILLS CORP	BKH	30.125	0.027719	0	0.0054	0.0223	Oct-97
23	Nov-97	BLACK HILLS CORP	BKH	31.8125	0.067801	0.355	0.0047	0.0631	Nov-97
23	Dec-97	BLACK HILLS CORP	BKH	35.25	0.108055	0	0.0054	0.1027	Dec-97
23	Jan-98	BLACK HILLS CORP	BKH	32.875	-0.06738	0	0.0048	-0.0722	Jan-98
23	Feb-98	BLACK HILLS CORP	BKH	32.75	0.007605	0.375	0.0044	0.0032	Feb-98
23	Mar-98	BLACK HILLS CORP	BKH	23.1875	0.062023	0	0.0052	0.0568	Mar-98
23	Apr-98	BLACK HILLS CORP	BKH	20.9375	-0.09704	0	0.0049	-0.1019	Apr-98
23	May-98	BLACK HILLS CORP	BKH	21.9375	0.059701	0.25	0.0048	0.0549	May-98
23	Jun-98	BLACK HILLS CORP	BKH	23	0.048433	0	0.0052	0.0432	Jun-98
23	Jul-98	BLACK HILLS CORP	BKH	24	0.043478	0	0.0049	0.0386	Jul-98
23	Aug-98	BLACK HILLS CORP	BKH	23.25	-0.02083	0.25	0.0048	-0.0256	Aug-98
23	Sep-98	BLACK HILLS CORP	BKH	26.875	0.155914	0	0.0044	0.1515	Sep-98
23	Oct-98	BLACK HILLS CORP	BKH	25.625	-0.04651	0	0.0042	-0.0507	Oct-98
23	Nov-98	BLACK HILLS CORP	BKH	24.75	-0.02439	0.25	0.0045	-0.0289	Nov-98
23	Dec-98	BLACK HILLS CORP	BKH	26.375	0.065657	0	0.0045	0.0612	Dec-98
23	Jan-99	BLACK HILLS CORP	BKH	24.8125	-0.05924	0	0.0042	-0.0634	Jan-99
23	Feb-99	BLACK HILLS CORP	BKH	22.5	-0.08272	0.26	0.0040	-0.0867	Feb-99
23	Mar-99	BLACK HILLS CORP	BKH	21.3125	-0.05278	0	0.0053	-0.0581	Mar-99
23	Apr-99	BLACK HILLS CORP	BKH	22.625	0.061584	0	0.0048	0.0568	Apr-99
23	May-99	BLACK HILLS CORP	BKH	23	0.028066	0.26	0.0045	0.0236	May-99
23	Jun-99	BLACK HILLS CORP	BKH	23.125	0.005435	0	0.0055	-0.0001	Jun-99
23	Jul-99	BLACK HILLS CORP	BKH	25.125	0.086486	0	0.0051	0.0814	Jul-99
23	Aug-99	BLACK HILLS CORP	BKH	24.75	-0.00458	0.26	0.0054	-0.0100	Aug-99
23	Sep-99	BLACK HILLS CORP	BKH	23.3125	-0.05808	0	0.0052	-0.0633	Sep-99

23	Oct-99	BLACK HILLS CORP	BKH	22.5	-0.03485	0	0.0050	-0.0399	Oct-99
23	Nov-99	BLACK HILLS CORP	BKH	21.875	-0.01622	0.26	0.0056	-0.0218	Nov-99
23	Dec-99	BLACK HILLS CORP	BKH	22.1875	0.014286	0	0.0055	0.0088	Dec-99
23	Jan-00	BLACK HILLS CORP	BKH	23.9375	0.078873	0	0.0057	0.0732	Jan-00
23	Feb-00	BLACK HILLS CORP	BKH	22	-0.06966	0.27	0.0051	-0.0748	Feb-00
23	Mar-00	BLACK HILLS CORP	BKH	22.0625	0.002841	0	0.0054	-0.0026	Mar-00
23	Apr-00	BLACK HILLS CORP	BKH	22.9375	0.03966	0	0.0047	0.0350	Apr-00
23	May-00	BLACK HILLS CORP	BKH	23.9375	0.055368	0.27	0.0056	0.0498	May-00
23	Jun-00	BLACK HILLS CORP	BKH	22.5625	-0.05744	0	0.0052	-0.0626	Jun-00
23	Jul-00	BLACK HILLS CORP	BKH	23.1875	0.027701	0	0.0052	0.0225	Jul-00
23	Aug-00	BLACK HILLS CORP	BKH	25.5	0.111375	0.27	0.0050	0.1064	Aug-00
23	Sep-00	BLACK HILLS CORP	BKH	28.0625	0.10049	0	0.0046	0.0959	Sep-00
23	Oct-00	BLACK HILLS CORP	BKH	31.25	0.113586	0	0.0053	0.1083	Oct-00
23	Nov-00	BLACK HILLS CORP	BKH	34.125	0.10064	0.27	0.0048	0.0958	Nov-00
23	Dec-00	BLACK HILLS CORP	BKH	44.75	0.311355	0	0.0045	0.3069	Dec-00
23	Jan-01	BLACK HILLS CORP	BKH	38.21	-0.14615	0	0.0049	-0.1510	Jan-01
23	Feb-01	BLACK HILLS CORP	BKH	39.37	0.037686	0.28	0.0042	0.0335	Feb-01
23	Mar-01	BLACK HILLS CORP	BKH	45.71	0.161036	0	0.0045	0.1565	Mar-01
23	Apr-01	BLACK HILLS CORP	BKH	51.37	0.123824	0	0.0047	0.1191	Apr-01
23	May-01	BLACK HILLS CORP	BKH	54.9	0.074168	0.28	0.0050	0.0692	May-01
23	Jun-01	BLACK HILLS CORP	BKH	40.23	-0.26721	0	0.0047	-0.2719	Jun-01
23	Jul-01	BLACK HILLS CORP	BKH	40.98	0.018643	0	0.0052	0.0134	Jul-01
23	Aug-01	BLACK HILLS CORP	BKH	31.75	-0.2184	0.28	0.0046	-0.2230	Aug-01
23	Sep-01	BLACK HILLS CORP	BKH	30.52	-0.03874	0	0.0041	-0.0428	Sep-01
23	Oct-01	BLACK HILLS CORP	BKH	27.46	-0.10026	0	0.0048	-0.1051	Oct-01
23	Nov-01	BLACK HILLS CORP	BKH	30.75	0.130007	0.28	0.0041	0.1259	Nov-01
23	Dec-01	BLACK HILLS CORP	BKH	33.84	0.100488	0	0.0046	0.0959	Dec-01
23	Jan-02	BLACK HILLS CORP	BKH	28.86	-0.14716	0	0.0048	-0.1520	Jan-02
23	Feb-02	BLACK HILLS CORP	BKH	27.68	-0.03084	0.29	0.0043	-0.0351	Feb-02
23	Mar-02	BLACK HILLS CORP	BKH	33.48	0.209538	0	0.0043	0.2052	Mar-02
23	Apr-02	BLACK HILLS CORP	BKH	34.86	0.041219	0	0.0054	0.0358	Apr-02
23	May-02	BLACK HILLS CORP	BKH	35.41	0.024096	0.29	0.0049	0.0192	May-02
23	Jun-02	BLACK HILLS CORP	BKH	34.61	-0.02259	0	0.0044	-0.0270	Jun-02
23	Jul-02	BLACK HILLS CORP	BKH	25.47	-0.26409	0	0.0051	-0.2692	Jul-02
23	Aug-02	BLACK HILLS CORP	BKH	27.25	0.081272	0.29	0.0044	0.0769	Aug-02
23	Sep-02	BLACK HILLS CORP	BKH	26.19	-0.0389	0	0.0042	-0.0431	Sep-02
23	Oct-02	BLACK HILLS CORP	BKH	26.35	0.006109	0	0.0040	0.0021	Oct-02

23	Nov-02	BLACK HILLS CORP	BKH	25.83	-0.00873	0.29	0.0040	-0.0127	Nov-02
23	Dec-02	BLACK HILLS CORP	BKH	26.52	0.026713	0	0.0045	0.0222	Dec-02
23	Jan-03	BLACK HILLS CORP	BKH	24.22	-0.08673	0	0.0041	-0.0908	Jan-03
23	Feb-03	BLACK HILLS CORP	BKH	23.63	-0.01197	0.3	0.0038	-0.0158	Feb-03
23	Mar-03	BLACK HILLS CORP	BKH	27.49	0.163352	0	0.0040	0.1594	Mar-03
23	Apr-03	BLACK HILLS CORP	BKH	28.48	0.036013	0	0.0040	0.0320	Apr-03
23	May-03	BLACK HILLS CORP	BKH	30.05	0.06566	0.3	0.0039	0.0618	May-03
23	Jun-03	BLACK HILLS CORP	BKH	30.7	0.021631	0	0.0036	0.0180	Jun-03
23	Jul-03	BLACK HILLS CORP	BKH	30.69	-0.00033	0	0.0038	-0.0041	Jul-03
23	Aug-03	BLACK HILLS CORP	BKH	32.41	0.065819	0.3	0.0042	0.0616	Aug-03
23	Sep-03	BLACK HILLS CORP	BKH	30.86	-0.04783	0	0.0046	-0.0524	Sep-03
23	Oct-03	BLACK HILLS CORP	BKH	32.17	0.04245	0	0.0041	0.0384	Oct-03
23	Nov-03	BLACK HILLS CORP	BKH	32.26	0.012123	0.3	0.0039	0.0082	Nov-03
23	Dec-03	BLACK HILLS CORP	BKH	29.83	-0.07533	0	0.0047	-0.0800	Dec-03
23	Jan-04	BLACK HILLS CORP	BKH	29.8	-0.00101	0	0.0042	-0.0052	Jan-04
23	Feb-04	BLACK HILLS CORP	BKH	30.6	0.037248	0.31	0.0038	0.0334	Feb-04
23	Mar-04	BLACK HILLS CORP	BKH	31.87	0.041503	0	0.0043	0.0372	Mar-04
23	Apr-04	BLACK HILLS CORP	BKH	30.59	-0.04016	0	0.0039	-0.0441	Apr-04
23	May-04	BLACK HILLS CORP	BKH	29.3	-0.03204	0.31	0.0040	-0.0360	May-04
23	Jun-04	BLACK HILLS CORP	BKH	31.5	0.075085	0	0.0048	0.0703	Jun-04
23	Jul-04	BLACK HILLS CORP	BKH	27.62	-0.12318	0	0.0043	-0.1275	Jul-04
23	Aug-04	BLACK HILLS CORP	BKH	27.85	0.019551	0.31	0.0045	0.0151	Aug-04
23	Sep-04	BLACK HILLS CORP	BKH	27.78	-0.00251	0	0.0040	-0.0065	Sep-04
23	Oct-04	BLACK HILLS CORP	BKH	29.46	0.060475	0	0.0038	0.0567	Oct-04
23	Nov-04	BLACK HILLS CORP	BKH	30.71	0.052953	0.31	0.0041	0.0489	Nov-04
23	Dec-04	BLACK HILLS CORP	BKH	30.68	-0.00098	0	0.0043	-0.0053	Dec-04
23	Jan-05	BLACK HILLS CORP	BKH	29.79	-0.02901	0	0.0041	-0.0331	Jan-05
23	Feb-05	BLACK HILLS CORP	BKH	31.7	0.074857	0.32	0.0035	0.0714	Feb-05
23	Mar-05	BLACK HILLS CORP	BKH	33.07	0.043218	0	0.0041	0.0391	Mar-05
23	Apr-05	BLACK HILLS CORP	BKH	34.28	0.036589	0	0.0039	0.0327	Apr-05
23	May-05	BLACK HILLS CORP	BKH	36.62	0.077596	0.32	0.0040	0.0736	May-05
23	Jun-05	BLACK HILLS CORP	BKH	36.85	0.006281	0	0.0036	0.0027	Jun-05
23	Jul-05	BLACK HILLS CORP	BKH	39.88	0.082225	0	0.0034	0.0788	Jul-05
23	Aug-05	BLACK HILLS CORP	BKH	41.65	0.052407	0.32	0.0040	0.0484	Aug-05
23	Sep-05	BLACK HILLS CORP	BKH	43.37	0.041296	0	0.0035	0.0378	Sep-05
23	Oct-05	BLACK HILLS CORP	BKH	41.57	-0.0415	0	0.0039	-0.0454	Oct-05
23	Nov-05	BLACK HILLS CORP	BKH	36.55	-0.11306	0.32	0.0039	-0.1170	Nov-05

23	Dec-05	BLACK HILLS CORP	BKH	34.61	-0.05308	0	0.0039	-0.0570	Dec-05
23	Jan-06	BLACK HILLS CORP	BKH	35.6	0.028604	0	0.0040	0.0246	Jan-06
23	Feb-06	BLACK HILLS CORP	BKH	34.57	-0.01966	0.33	0.0036	-0.0233	Feb-06
23	Mar-06	BLACK HILLS CORP	BKH	34	-0.01649	0	0.0039	-0.0204	Mar-06
23	Apr-06	BLACK HILLS CORP	BKH	36.4	0.070588	0	0.0039	0.0667	Apr-06
23	May-06	BLACK HILLS CORP	BKH	33.83	-0.06154	0.33	0.0048	-0.0663	May-06
23	Jun-06	BLACK HILLS CORP	BKH	34.33	0.01478	0	0.0044	0.0104	Jun-06
23	Jul-06	BLACK HILLS CORP	BKH	35.83	0.043694	0	0.0045	0.0392	Jul-06
23	Aug-06	BLACK HILLS CORP	BKH	34.81	-0.01926	0.33	0.0043	-0.0236	Aug-06
23	Sep-06	BLACK HILLS CORP	BKH	33.61	-0.03447	0	0.0039	-0.0384	Sep-06
23	Oct-06	BLACK HILLS CORP	BKH	34.51	0.026778	0	0.0042	0.0226	Oct-06
23	Nov-06	BLACK HILLS CORP	BKH	35.71	0.044335	0.33	0.0039	0.0404	Nov-06
23	Dec-06	BLACK HILLS CORP	BKH	36.94	0.034444	0	0.0036	0.0308	Dec-06
23	Jan-07	BLACK HILLS CORP	BKH	37.07	0.003519	0	0.0043	-0.0008	Jan-07
23	Feb-07	BLACK HILLS CORP	BKH	35.98	-0.02023	0.34	0.0038	-0.0240	Feb-07
23	Mar-07	BLACK HILLS CORP	BKH	36.77	0.021957	0	0.0039	0.0181	Mar-07
23	Apr-07	BLACK HILLS CORP	BKH	39.81	0.082676	0	0.0042	0.0785	Apr-07
23	May-07	BLACK HILLS CORP	BKH	40.99	0.038181	0.34	0.0041	0.0341	May-07
23	Jun-07	BLACK HILLS CORP	BKH	39.75	-0.03025	0	0.0040	-0.0343	Jun-07
23	Jul-07	BLACK HILLS CORP	BKH	37.3	-0.06164	0	0.0046	-0.0662	Jul-07
23	Aug-07	BLACK HILLS CORP	BKH	41.19	0.113405	0.34	0.0042	0.1092	Aug-07
23	Sep-07	BLACK HILLS CORP	BKH	41.02	-0.00413	0	0.0037	-0.0078	Sep-07
23	Oct-07	BLACK HILLS CORP	BKH	44.42	0.082886	0	0.0043	0.0786	Oct-07
23	Nov-07	BLACK HILLS CORP	BKH	41.66	-0.05426	0.35	0.0039	-0.0582	Nov-07
23	Dec-07	BLACK HILLS CORP	BKH	44.1	0.058569	0	0.0037	0.0549	Dec-07
23	Jan-08	BLACK HILLS CORP	BKH	38.74	-0.12154	0	0.0040	-0.1255	Jan-08
23	Feb-08	BLACK HILLS CORP	BKH	35.76	-0.06789	0.35	0.0034	-0.0713	Feb-08
23	Mar-08	BLACK HILLS CORP	BKH	35.78	0.000559	0	0.0037	-0.0031	Mar-08
23	Apr-08	BLACK HILLS CORP	BKH	39.01	0.090274	0	0.0035	0.0868	Apr-08
23	May-08	BLACK HILLS CORP	BKH	35.24	-0.08767	0.35	0.0037	-0.0914	May-08
23	Jun-08	BLACK HILLS CORP	BKH	32.06	-0.09024	0	0.0040	-0.0942	Jun-08
23	Jul-08	BLACK HILLS CORP	BKH	32.27	0.00655	0	0.0039	0.0027	Jul-08
23	Aug-08	BLACK HILLS CORP	BKH	33.81	0.058568	0.35	0.0036	0.0550	Aug-08
23	Sep-08	BLACK HILLS CORP	BKH	31.07	-0.08104	0	0.0039	-0.0849	Sep-08
23	Oct-08	BLACK HILLS CORP	BKH	25.25	-0.18732	0	0.0037	-0.1910	Oct-08
23	Nov-08	BLACK HILLS CORP	BKH	25.81	0.03604	0.35	0.0036	0.0324	Nov-08
23	Dec-08	BLACK HILLS CORP	BKH	26.96	0.044556	0	0.0033	0.0413	Dec-08

23	Jan-09	BLACK HILLS CORP	BKH	26.5	-0.01706	0	0.0024	-0.0195	Jan-09
23	Feb-09	BLACK HILLS CORP	BKH	17.81	-0.31453	0.355	0.0030	-0.3175	Feb-09
23	Mar-09	BLACK HILLS CORP	BKH	17.89	0.004492	0	0.0035	0.0010	Mar-09
23	Apr-09	BLACK HILLS CORP	BKH	19.88	0.111235	0	0.0029	0.1083	Apr-09
23	May-09	BLACK HILLS CORP	BKH	21.4	0.094316	0.355	0.0033	0.0910	May-09
23	Jun-09	BLACK HILLS CORP	BKH	22.99	0.074299	0	0.0038	0.0705	Jun-09
23	Jul-09	BLACK HILLS CORP	BKH	26.01	0.131361	0	0.0036	0.1278	Jul-09
23	Aug-09	BLACK HILLS CORP	BKH	25.58	-0.00288	0.355	0.0036	-0.0065	Aug-09
23	Sep-09	BLACK HILLS CORP	BKH	25.17	-0.01603	0	0.0034	-0.0194	Sep-09
23	Oct-09	BLACK HILLS CORP	BKH	24.37	-0.03178	0	0.0033	-0.0351	Oct-09
23	Nov-09	BLACK HILLS CORP	BKH	23.57	-0.01826	0.355	0.0035	-0.0218	Nov-09
23	Dec-09	BLACK HILLS CORP	BKH	26.63	0.129826	0	0.0034	0.1264	Dec-09
23	Jan-10	BLACK HILLS CORP	BKH	25.98	-0.02441	0	0.0036	-0.0280	Jan-10
23	Feb-10	BLACK HILLS CORP	BKH	27.87	0.086605	0.36	0.0033	0.0833	Feb-10
23	Mar-10	BLACK HILLS CORP	BKH	30.35	0.088985	0	0.0040	0.0850	Mar-10
23	Apr-10	BLACK HILLS CORP	BKH	32.89	0.08369	0	0.0038	0.0799	Apr-10
23	May-10	BLACK HILLS CORP	BKH	28.69	-0.11675	0.36	0.0034	-0.1202	May-10
23	Jun-10	BLACK HILLS CORP	BKH	28.47	-0.00767	0	0.0037	-0.0114	Jun-10
23	Jul-10	BLACK HILLS CORP	BKH	31.92	0.12118	0	0.0031	0.1181	Jul-10
23	Aug-10	BLACK HILLS CORP	BKH	30.43	-0.0354	0.36	0.0032	-0.0386	Aug-10
23	Sep-10	BLACK HILLS CORP	BKH	31.2	0.025304	0	0.0026	0.0227	Sep-10
23	Oct-10	BLACK HILLS CORP	BKH	31.84	0.020513	0	0.0027	0.0178	Oct-10
23	Nov-10	BLACK HILLS CORP	BKH	30.35	-0.03549	0.36	0.0032	-0.0387	Nov-10
23	Dec-10	BLACK HILLS CORP	BKH	30	-0.01153	0	0.0032	-0.0147	Dec-10
23	Jan-11	BLACK HILLS CORP	BKH	31.01	0.033667	0	0.0036	0.0301	Jan-11
23	Feb-11	BLACK HILLS CORP	BKH	30.82	0.005643	0.365	0.0037	0.0020	Feb-11
23	Mar-11	BLACK HILLS CORP	BKH	33.44	0.08501	0	0.0036	0.0815	Mar-11
23	Apr-11	BLACK HILLS CORP	BKH	34.75	0.039175	0	0.0036	0.0356	Apr-11
23	May-11	BLACK HILLS CORP	BKH	31.02	-0.09684	0.365	0.0033	-0.1002	May-11
23	Jun-11	BLACK HILLS CORP	BKH	30.09	-0.02998	0	0.0033	-0.0332	Jun-11
23	Jul-11	BLACK HILLS CORP	BKH	29.88	-0.00698	0	0.0033	-0.0103	Jul-11
23	Aug-11	BLACK HILLS CORP	BKH	30.6	0.036312	0.365	0.0030	0.0333	Aug-11
23	Sep-11	BLACK HILLS CORP	BKH	30.64	0.001307	0	0.0024	-0.0011	Sep-11
23	Oct-11	BLACK HILLS CORP	BKH	33.71	0.100196	0	0.0024	0.0978	Oct-11
23	Nov-11	BLACK HILLS CORP	BKH	32.75	-0.01765	0.365	0.0023	-0.0199	Nov-11
23	Dec-11	BLACK HILLS CORP	BKH	33.58	0.025344	0	0.0025	0.0229	Dec-11
23	Jan-12	BLACK HILLS CORP	BKH	33.76	0.00536	0	0.0021	0.0033	Jan-12

23	Feb-12	BLACK HILLS CORP	BKH	32.84	-0.01629	0.37	0.002	-0.0183	Feb-12
23	Mar-12	BLACK HILLS CORP	BKH	33.53	0.021011	0	0.0022	0.0188	Mar-12
23	Apr-12	BLACK HILLS CORP	BKH	33.01	-0.01551	0	0.0025	-0.0180	Apr-12
23	May-12	BLACK HILLS CORP	BKH	32.18	-0.01394	0.37	0.0023	-0.0162	May-12
23	Jun-12	BLACK HILLS CORP	BKH	32.17	-0.00031	0	0.0018	-0.0021	Jun-12
	Jul-12	BLACK HILLS CORP	BKH	31.85	-0.00995	0	0.002	-0.0119	Jul-12
	Aug-12	BLACK HILLS CORP	BKH	34.2	0.0854	0.37	0.0018	0.0836	Aug-12
	Sep-12	BLACK HILLS CORP	BKH	35.57	0.040058	0	0.0017	0.0384	Sep-12
	Oct-12	BLACK HILLS CORP	BKH	35.77	0.005623	0	0.0021	0.0035	Oct-12
	Nov-12	BLACK HILLS CORP	BKH	35.69	0.008107	0.37	0.0019	0.0062	Nov-12
	Dec-12	BLACK HILLS CORP	BKH	36.34	0.018212	0	0.0019	0.0163	Dec-12
	Jan-13	BLACK HILLS CORP	BKH	40.35	0.110347	0	0.0022	0.1081	Jan-13
	Feb-13	BLACK HILLS CORP	BKH	41.59	0.040149	0.38	0.0022	0.0379	Feb-13
	Mar-13	BLACK HILLS CORP	BKH	44.04	0.058908	0	0.0021	0.0568	Mar-13
	Apr-13	BLACK HILLS CORP	BKH	46.89	0.064714	0	0.0026	0.0621	Apr-13
	May-13	BLACK HILLS CORP	BKH	47.47	0.020473	0.38	0.0023	0.0182	May-13
	Jun-13	BLACK HILLS CORP	BKH	48.75	0.026964	0	0.0024	0.0246	Jun-13
	Jul-13	BLACK HILLS CORP	BKH	53.05	0.088205	0	0.003	0.0852	Jul-13
	Aug-13	BLACK HILLS CORP	BKH	48.02	-0.08765	0.38	0.0028	-0.0905	Aug-13
	Sep-13	BLACK HILLS CORP	BKH	49.86	0.038317	0	0.0029	0.0354	Sep-13
	Oct-13	BLACK HILLS CORP	BKH	50.72	0.017248	0	0.0029	0.0143	Oct-13
	Nov-13	BLACK HILLS CORP	BKH	50.27	-0.00138	0.38	0.0027	-0.0041	Nov-13
	Dec-13	BLACK HILLS CORP	BKH	52.51	0.044559	0	0.0031	0.0415	Dec-13
	Jan-14	BLACK HILLS CORP	BKH	54.83	0.044182	0	0.0032	0.0410	Jan-14
	Feb-14	BLACK HILLS CORP	BKH	56.71	0.041401	0.39	0.0026	0.0388	Feb-14
	Mar-14	BLACK HILLS CORP	BKH	57.65	0.016576	0	0.0029	0.0137	Mar-14
	Apr-14	BLACK HILLS CORP	BKH	57.75	0.001735	0	0.0028	-0.0011	Apr-14
	May-14	BLACK HILLS CORP	BKH	57.67	0.005368	0.39	0.0028	0.0026	May-14
	Jun-14	BLACK HILLS CORP	BKH	61.39	0.064505	0	0.0025	0.0620	Jun-14
	Jul-14	BLACK HILLS CORP	BKH	52.71	-0.14139	0	0.0027	-0.1441	Jul-14
	Aug-14	BLACK HILLS CORP	BKH	53.73	0.02675	0.39	0.0026	0.0242	Aug-14
	Sep-14	BLACK HILLS CORP	BKH	47.88	-0.10888	0	0.0023	-0.1112	Sep-14
	Oct-14	BLACK HILLS CORP	BKH	54.73	0.143066	0	0.0025	0.1406	Oct-14
	Nov-14	BLACK HILLS CORP	BKH	54.01	-0.00603	0.39	0.0023	-0.0083	Nov-14
	Dec-14	BLACK HILLS CORP	BKH	53.04	-0.01796	0	0.0022	-0.0202	Dec-14
	Jan-15	BLACK HILLS CORP	BKH	50.16	-0.0543	0	0.002	-0.0563	Jan-15
	Feb-15	BLACK HILLS CORP	BKH	50.83	0.021431	0.405	0.0015	0.0199	Feb-15

Mar-15	BLACK HILLS CORP	BKH	50.44	-0.00767	0	0.0021	-0.0098	Mar-15
Apr-15	BLACK HILLS CORP	BKH	49.29	-0.0228	0	0.0019	-0.0247	Apr-15
May-15	BLACK HILLS CORP	BKH	47.78	-0.02242	0.405	0.002	-0.0244	May-15
Jun-15	BLACK HILLS CORP	BKH	43.65	-0.08644	0	0.0023	-0.0887	Jun-15
Jul-15	BLACK HILLS CORP	BKH	41.66	-0.04559	0	0.0024	-0.04799	Jul-15
Aug-15	BLACK HILLS CORP	BKH	39.78	-0.03541	0.405	0.0022	-0.037606	Aug-15
Sep-15	BLACK HILLS CORP	BKH	41.34	0.039216	0	0.0021	0.0371157	Sep-15
Oct-15	BLACK HILLS CORP	BKH	45.78	0.107402	0	0.0021	0.105302	Oct-15
Nov-15	BLACK HILLS CORP	BKH	42.92	-0.05363	0.405	0.0022	-0.055826	Nov-15
Dec-15	BLACK HILLS CORP	BKH	46.43	0.08178	0	0.0022	0.0795801	Dec-15
Jan-16	BLACK HILLS CORP	BKH	49.28	0.061383	0	0.0021	0.0592827	Jan-16
Feb-16	BLACK HILLS CORP	BKH	56.01	0.145089	0.42	0.002	0.1430893	Feb-16
Mar-16	BLACK HILLS CORP	BKH	60.13	0.073558	0	0.0018	0.0717583	Mar-16
Apr-16	BLACK HILLS CORP	BKH	60.59	0.00765	0	0.0017	0.0059501	Apr-16
May-16	BLACK HILLS CORP	BKH	60.54	0.006107	0.42	0.002	0.0041066	May-16
Jun-16	BLACK HILLS CORP	BKH	63.04	0.041295	0	0.0018	0.039495	Jun-16
Jul-16	BLACK HILLS CORP	BKH	63.05	0.000159	0	0.0014	-0.001241	Jul-16
Aug-16	BLACK HILLS CORP	BKH	58.51	-0.06534	0.42	0.0016	-0.066945	Aug-16
Sep-16	BLACK HILLS CORP	BKH	61.22	0.046317	0	0.0015	0.0448169	Sep-16
Oct-16	BLACK HILLS CORP	BKH	61.85	0.010291	0	0.0016	0.0086908	Oct-16
Nov-16	BLACK HILLS CORP	BKH	58.75	-0.04333	0.42	0.0018	-0.045131	Nov-16
Dec-16	BLACK HILLS CORP	BKH	61.34	0.044085	0	0.0022	0.0418851	Dec-16
Jan-17	BLACK HILLS CORP	BKH	62.55	0.019726	0	0.0024	0.0173261	Jan-17
Feb-17	BLACK HILLS CORP	BKH	64.88	0.044365	0.445	0.0021	0.0422645	Feb-17
Mar-17	BLACK HILLS CORP	BKH	66.47	0.024507	0	0.0023	0.0222068	Mar-17
Apr-17	BLACK HILLS CORP	BKH	68.02	0.023319	0	0.0021	0.0212188	Apr-17
May-17	BLACK HILLS CORP	BKH	69.54	0.028889	0.445	0.0024	0.0264886	May-17
Jun-17	BLACK HILLS CORP	BKH	67.47	-0.02977	0	0.0021	-0.031867	Jun-17
Jul-17	BLACK HILLS CORP	BKH	69.66	0.032459	0	0.0022	0.0302589	Jul-17
Aug-17	BLACK HILLS CORP	BKH	70.38	0.016724	0.445	0.0022	0.0145241	Aug-17
Sep-17	BLACK HILLS CORP	BKH	68.87	-0.02145	0	0.0019	-0.023355	Sep-17
Oct-17	BLACK HILLS CORP	BKH	65.26	-0.05242	0	0.0022	-0.054618	Oct-17
Nov-17	BLACK HILLS CORP	BKH	58.51	-0.09615	0.475	0.0021	-0.098254	Nov-17
Dec-17	BLACK HILLS CORP	BKH	60.11	0.027346	0	0.002	0.0253458	Dec-17
Jan-18	BLACK HILLS CORP	BKH	55.55	-0.07586	0	0.0024	-0.078261	Jan-18
Feb-18	BLACK HILLS CORP	BKH	50.79	-0.07714	0.475	0.0022	-0.079338	Feb-18
Mar-18	BLACK HILLS CORP	BKH	54.3	0.069108	0	0.0024	0.0667081	Mar-18

Apr-18	BLACK HILLS CORP	BKH	56.68	0.043831	0	0.0025	0.0413306	Apr-18
May-18	BLACK HILLS CORP	BKH	58.16	0.034492	0.475	0.0025	0.0319919	May-18
Jun-18	BLACK HILLS CORP	BKH	61.21	0.052442	0	0.0023	0.0501415	Jun-18
Jul-18	BLACK HILLS CORP	BKH	59.97	-0.02026	0	0.0025	-0.022758	Jul-18
Aug-18	BLACK HILLS CORP	BKH	58.85	-0.01076	0.475	0.0025	-0.013255	Aug-18
Sep-18	BLACK HILLS CORP	BKH	58.09	-0.01291	0	0.0022	-0.015114	Sep-18
Oct-18	BLACK HILLS CORP	BKH	59.5	0.024273	0	0.003	0.0212727	Oct-18
Nov-18	BLACK HILLS CORP	BKH	66.21	0.121261	0.505	0.0028	0.1184605	Nov-18
Dec-18	BLACK HILLS CORP	BKH	62.78	-0.0518	0	0.0027	-0.054505	Dec-18
Jan-19	BLACK HILLS CORP	BKH	67.89	0.081395	0	0.0025	0.0788953	Jan-19
Feb-19	BLACK HILLS CORP	BKH	70.98	0.052953	0.505	0.0022	0.0507533	Feb-19
Mar-19	BLACK HILLS CORP	BKH	74.07	0.043533	0	0.0023	0.0412334	Mar-19
Apr-19	BLACK HILLS CORP	BKH	72.76	-0.01769	0	0.0023	-0.019986	Apr-19
May-19	BLACK HILLS CORP	BKH	76.2	0.054219	0.505	0.0023	0.0519194	May-19
Jun-19	BLACK HILLS CORP	BKH	78.17	0.025853	0	0.0018	0.024053	Jun-19
Jul-19	BLACK HILLS CORP	BKH	79.15	0.012537	0	0.0021	0.0104368	Jul-19
Aug-19	BLACK HILLS CORP	BKH	76.71	-0.02445	0.505	0.0019	-0.026347	Aug-19
Sep-19	BLACK HILLS CORP	BKH	76.73	0.000261	0	0.0015	-0.001239	Sep-19
Oct-19	BLACK HILLS CORP	BKH	78.83	0.027369	0	0.0016	0.0257687	Oct-19
Nov-19	BLACK HILLS CORP	BKH	76.57	-0.02188	0.535	0.0016	-0.023483	Nov-19
Dec-19	BLACK HILLS CORP	BKH	78.54	0.025728	0	0.0018	0.0239281	Dec-19
Jan-20	BLACK HILLS CORP	BKH	83.03	0.057168	0	0.002	0.0551683	Jan-20
Feb-20	BLACK HILLS CORP	BKH	72.2	-0.12399	0.535	0.0015	-0.125491	Feb-20
Mar-20	BLACK HILLS CORP	BKH	64.03	-0.11316	0	0.00123	-0.114388	Mar-20
Apr-20	BLACK HILLS CORP	BKH	61.94	-0.03264	0	0.0009	-0.033541	Apr-20
May-20	BLACK HILLS CORP	BKH	61.71	0.004924	0.535	0.0009	0.0040241	May-20
Jun-20	BLACK HILLS CORP	BKH	56.66	-0.08183	0	0.0009	-0.082734	Jun-20
Jul-20	BLACK HILLS CORP	BKH	57.86	0.021179	0	0.001	0.020179	Jul-20
Aug-20	BLACK HILLS CORP	BKH	56.08	-0.02152	0.535	0.0008	-0.022317	Aug-20
Sep-20	BLACK HILLS CORP	BKH	53.49	-0.04618	0	0	-0.046184	Sep-20
Oct-20	BLACK HILLS CORP	BKH	56.66	0.059263	0	0.0009	0.0583634	Oct-20
Nov-20	BLACK HILLS CORP	BKH	60.83	0.083569	0.565	0.0011	0.0824687	Nov-20
Dec-20	BLACK HILLS CORP	BKH	61.45	0.010192	0	0.0011	0.0090923	Dec-20
Jan-21	BLACK HILLS CORP	BKH	59.12	-0.03792	0	0.0015167	-0.039434	Jan-21
Feb-21	BLACK HILLS CORP	BKH	59.16	0.010233	0.565	0.0017	0.0085334	Feb-21
Mar-21	BLACK HILLS CORP	BKH	66.77	0.128634	0	0.00195	0.1266842	Mar-21
Apr-21	BLACK HILLS CORP	BKH	68.98	0.033099	0	0.0019167	0.031182	Apr-21

May-21	BLACK HILLS CORP	BKH	65.79	-0.03805	0.565	0.0019333	-0.039988	May-21
Jun-21	BLACK HILLS CORP	BKH	65.63	-0.00243	0	0.0018	-0.004232	Jun-21
Jul-21	BLACK HILLS CORP	BKH	67.65	0.030779	0	0.0016167	0.0291619	Jul-21
Aug-21	BLACK HILLS CORP	BKH	70.33	0.047967	0.565	0.0016	0.0463675	Aug-21

Unique Index Number	Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP	Trading Date
	Jan-26						0.0031		Jan-26
	Feb-26						0.0028		Feb-26
	Mar-26						0.0032		Mar-26
	Apr-26						0.0030		Apr-26
	May-26						0.0028		May-26
	Jun-26						0.0033		Jun-26
	Jul-26						0.0031		Jul-26
	Aug-26						0.0031		Aug-26
	Sep-26						0.0030		Sep-26
	Oct-26						0.0030		Oct-26
	Nov-26						0.0031		Nov-26
	Dec-26						0.0030		Dec-26
	Jan-27						0.0030		Jan-27
	Feb-27						0.0027		Feb-27
	Mar-27						0.0029		Mar-27
	Apr-27						0.0027		Apr-27
	May-27						0.0028		May-27
	Jun-27						0.0027		Jun-27
	Jul-27						0.0027		Jul-27
	Aug-27						0.0029		Aug-27
	Sep-27						0.0027		Sep-27
	Oct-27						0.0028		Oct-27
	Nov-27						0.0027		Nov-27
	Dec-27						0.0027		Dec-27
	Jan-28						0.0027		Jan-28
	Feb-28						0.0025		Feb-28
	Mar-28						0.0027		Mar-28
	Apr-28						0.0026		Apr-28
	May-28						0.0027		May-28
	Jun-28						0.0027		Jun-28
	Jul-28						0.0027		Jul-28
	Aug-28						0.0029		Aug-28
	Sep-28						0.0027		Sep-28

Oct-28	0.0030	Oct-28
Nov-28	0.0027	Nov-28
Dec-28	0.0029	Dec-28
Jan-29	0.0029	Jan-29
Feb-29	0.0027	Feb-29
Mar-29	0.0028	Mar-29
Apr-29	0.0034	Apr-29
May-29	0.0030	May-29
Jun-29	0.0029	Jun-29
Jul-29	0.0032	Jul-29
Aug-29	0.0030	Aug-29
Sep-29	0.0032	Sep-29
Oct-29	0.0031	Oct-29
Nov-29	0.0026	Nov-29
Dec-29	0.0031	Dec-29
Jan-30	0.0029	Jan-30
Feb-30	0.0026	Feb-30
Mar-30	0.0029	Mar-30
Apr-30	0.0027	Apr-30
May-30	0.0027	May-30
Jun-30	0.0029	Jun-30
Jul-30	0.0028	Jul-30
Aug-30	0.0026	Aug-30
Sep-30	0.0029	Sep-30
Oct-30	0.0027	Oct-30
Nov-30	0.0026	Nov-30
Dec-30	0.0028	Dec-30
Jan-31	0.0028	Jan-31
Feb-31	0.0026	Feb-31
Mar-31	0.0029	Mar-31
Apr-31	0.0027	Apr-31
May-31	0.0026	May-31
Jun-31	0.0028	Jun-31
Jul-31	0.0027	Jul-31
Aug-31	0.0027	Aug-31
Sep-31	0.0027	Sep-31

Oct-31	0.0029	Oct-31
Nov-31	0.0031	Nov-31
Dec-31	0.0032	Dec-31
Jan-32	0.0032	Jan-32
Feb-32	0.0032	Feb-32
Mar-32	0.0031	Mar-32
Apr-32	0.0030	Apr-32
May-32	0.0028	May-32
Jun-32	0.0028	Jun-32
Jul-32	0.0028	Jul-32
Aug-32	0.0028	Aug-32
Sep-32	0.0026	Sep-32
Oct-32	0.0027	Oct-32
Nov-32	0.0026	Nov-32
Dec-32	0.0027	Dec-32
Jan-33	0.0027	Jan-33
Feb-33	0.0023	Feb-33
Mar-33	0.0027	Mar-33
Apr-33	0.0025	Apr-33
May-33	0.0028	May-33
Jun-33	0.0025	Jun-33
Jul-33	0.0026	Jul-33
Aug-33	0.0026	Aug-33
Sep-33	0.0025	Sep-33
Oct-33	0.0026	Oct-33
Nov-33	0.0025	Nov-33
Dec-33	0.0028	Dec-33
Jan-34	0.0029	Jan-34
Feb-34	0.0024	Feb-34
Mar-34	0.0027	Mar-34
Apr-34	0.0025	Apr-34
May-34	0.0025	May-34
Jun-34	0.0024	Jun-34
Jul-34	0.0024	Jul-34
Aug-34	0.0024	Aug-34
Sep-34	0.0023	Sep-34

Oct-34	0.0027	Oct-34
Nov-34	0.0025	Nov-34
Dec-34	0.0025	Dec-34
Jan-35	0.0025	Jan-35
Feb-35	0.0021	Feb-35
Mar-35	0.0022	Mar-35
Apr-35	0.0023	Apr-35
May-35	0.0023	May-35
Jun-35	0.0022	Jun-35
Jul-35	0.0024	Jul-35
Aug-35	0.0023	Aug-35
Sep-35	0.0023	Sep-35
Oct-35	0.0023	Oct-35
Nov-35	0.0024	Nov-35
Dec-35	0.0024	Dec-35
Jan-36	0.0024	Jan-36
Feb-36	0.0023	Feb-36
Mar-36	0.0024	Mar-36
Apr-36	0.0022	Apr-36
May-36	0.0022	May-36
Jun-36	0.0024	Jun-36
Jul-36	0.0023	Jul-36
Aug-36	0.0023	Aug-36
Sep-36	0.0021	Sep-36
Oct-36	0.0023	Oct-36
Nov-36	0.0022	Nov-36
Dec-36	0.0022	Dec-36
Jan-37	0.0021	Jan-37
Feb-37	0.0020	Feb-37
Mar-37	0.0022	Mar-37
Apr-37	0.0023	Apr-37
May-37	0.0022	May-37
Jun-37	0.0025	Jun-37
Jul-37	0.0024	Jul-37
Aug-37	0.0023	Aug-37
Sep-37	0.0023	Sep-37

Oct-37	0.0023	Oct-37
Nov-37	0.0024	Nov-37
Dec-37	0.0023	Dec-37
Jan-38	0.0023	Jan-38
Feb-38	0.0021	Feb-38
Mar-38	0.0023	Mar-38
Apr-38	0.0022	Apr-38
May-38	0.0022	May-38
Jun-38	0.0021	Jun-38
Jul-38	0.0021	Jul-38
Aug-38	0.0022	Aug-38
Sep-38	0.0021	Sep-38
Oct-38	0.0022	Oct-38
Nov-38	0.0021	Nov-38
Dec-38	0.0022	Dec-38
Jan-39	0.0021	Jan-39
Feb-39	0.0019	Feb-39
Mar-39	0.0021	Mar-39
Apr-39	0.0019	Apr-39
May-39	0.0020	May-39
Jun-39	0.0018	Jun-39
Jul-39	0.0019	Jul-39
Aug-39	0.0018	Aug-39
Sep-39	0.0019	Sep-39
Oct-39	0.0023	Oct-39
Nov-39	0.0020	Nov-39
Dec-39	0.0019	Dec-39
Jan-40	0.0020	Jan-40
Feb-40	0.0018	Feb-40
Mar-40	0.0019	Mar-40
Apr-40	0.0018	Apr-40
May-40	0.0019	May-40
Jun-40	0.0019	Jun-40
Jul-40	0.0020	Jul-40
Aug-40	0.0019	Aug-40
Sep-40	0.0018	Sep-40

Oct-40	0.0018	Oct-40
Nov-40	0.0018	Nov-40
Dec-40	0.0017	Dec-40
Jan-41	0.0016	Jan-41
Feb-41	0.0016	Feb-41
Mar-41	0.0018	Mar-41
Apr-41	0.0017	Apr-41
May-41	0.0017	May-41
Jun-41	0.0016	Jun-41
Jul-41	0.0016	Jul-41
Aug-41	0.0016	Aug-41
Sep-41	0.0016	Sep-41
Oct-41	0.0016	Oct-41
Nov-41	0.0014	Nov-41
Dec-41	0.0016	Dec-41
Jan-42	0.0021	Jan-42
Feb-42	0.0019	Feb-42
Mar-42	0.0021	Mar-42
Apr-42	0.0020	Apr-42
May-42	0.0019	May-42
Jun-42	0.0021	Jun-42
Jul-42	0.0021	Jul-42
Aug-42	0.0021	Aug-42
Sep-42	0.0020	Sep-42
Oct-42	0.0021	Oct-42
Nov-42	0.0020	Nov-42
Dec-42	0.0021	Dec-42
Jan-43	0.0020	Jan-43
Feb-43	0.0019	Feb-43
Mar-43	0.0021	Mar-43
Apr-43	0.0020	Apr-43
May-43	0.0019	May-43
Jun-43	0.0021	Jun-43
Jul-43	0.0021	Jul-43
Aug-43	0.0021	Aug-43
Sep-43	0.0020	Sep-43

Oct-43	0.0020	Oct-43
Nov-43	0.0021	Nov-43
Dec-43	0.0021	Dec-43
Jan-44	0.0021	Jan-44
Feb-44	0.0020	Feb-44
Mar-44	0.0021	Mar-44
Apr-44	0.0020	Apr-44
May-44	0.0022	May-44
Jun-44	0.0020	Jun-44
Jul-44	0.0021	Jul-44
Aug-44	0.0021	Aug-44
Sep-44	0.0020	Sep-44
Oct-44	0.0021	Oct-44
Nov-44	0.0020	Nov-44
Dec-44	0.0020	Dec-44
Jan-45	0.0021	Jan-45
Feb-45	0.0018	Feb-45
Mar-45	0.0020	Mar-45
Apr-45	0.0019	Apr-45
May-45	0.0019	May-45
Jun-45	0.0019	Jun-45
Jul-45	0.0018	Jul-45
Aug-45	0.0019	Aug-45
Sep-45	0.0018	Sep-45
Oct-45	0.0019	Oct-45
Nov-45	0.0018	Nov-45
Dec-45	0.0018	Dec-45
Jan-46	0.0017	Jan-46
Feb-46	0.0015	Feb-46
Mar-46	0.0016	Mar-46
Apr-46	0.0017	Apr-46
May-46	0.0018	May-46
Jun-46	0.0016	Jun-46
Jul-46	0.0019	Jul-46
Aug-46	0.0017	Aug-46
Sep-46	0.0018	Sep-46

	Oct-46					0.0019		Oct-46
	Nov-46					0.0018		Nov-46
	Dec-46					0.0019		Dec-46
	Jan-47					0.0018		Jan-47
27	Feb-47	CONSUMERS PWR CO	37.25	-66	0.5	0.0016		Feb-47
27	Mar-47	CONSUMERS PWR CO	36.375	-0.02349	0	0.0018	-0.0253	Mar-47
27	Apr-47	CONSUMERS PWR CO	36	-0.01031	0	0.0017	-0.0120	Apr-47
27	May-47	CONSUMERS PWR CO	**-35.3125**	-0.00521	0.5	0.0017	-0.0069	May-47
27	Jun-47	CONSUMERS PWR CO	**-36.25**	0.026549	0	0.0019	0.0246	Jun-47
27	Jul-47	CONSUMERS PWR CO	36.5	0.006897	0	0.0018	0.0051	Jul-47
27	Aug-47	CONSUMERS PWR CO	37.5	0.041096	0.5	0.0017	0.0394	Aug-47
27	Sep-47	CONSUMERS PWR CO	35.875	-0.04333	0	0.0018	-0.0451	Sep-47
27	Oct-47	CONSUMERS PWR CO	35.5	-0.01045	0	0.0018	-0.0123	Oct-47
27	Nov-47	CONSUMERS PWR CO	32.625	-0.0669	0.5	0.0017	-0.0686	Nov-47
27	Dec-47	CONSUMERS PWR CO	32.5	-0.00383	0	0.0021	-0.0059	Dec-47
27	Jan-48	CONSUMERS PWR CO	**-34.5625**	0.063462	0	0.0020	0.0615	Jan-48
27	Feb-48	CONSUMERS PWR CO	**-32.75**	-0.03798	0.5	0.0019	-0.0399	Feb-48
27	Mar-48	CONSUMERS PWR CO	34.25	0.045802	0	0.0022	0.0436	Mar-48
27	Apr-48	CONSUMERS PWR CO	34	-0.0073	0	0.0020	-0.0093	Apr-48
27	May-48	CONSUMERS PWR CO	34	0.014706	0.5	0.0018	0.0129	May-48
27	Jun-48	CONSUMERS PWR CO	35.5	0.044118	0	0.0021	0.0420	Jun-48
27	Jul-48	CONSUMERS PWR CO	34	-0.04225	0	0.0019	-0.0442	Jul-48
27	Aug-48	CONSUMERS PWR CO	33.5	0	0.5	0.0021	-0.0021	Aug-48
27	Sep-48	CONSUMERS PWR CO	32.75	-0.02239	0	0.0020	-0.0244	Sep-48
27	Oct-48	CONSUMERS PWR CO	33.375	0.019084	0	0.0019	0.0172	Oct-48
27	Nov-48	CONSUMERS PWR CO	31.25	-0.04802	0.5	0.0021	-0.0501	Nov-48
27	Dec-48	CONSUMERS PWR CO	31	-0.008	0	0.0020	-0.0100	Dec-48
27	Jan-49	CONSUMERS PWR CO	33	0.064516	0	0.0020	0.0625	Jan-49
27	Feb-49	CONSUMERS PWR CO	33.625	0.034091	0.5	0.0018	0.0323	Feb-49
27	Mar-49	CONSUMERS PWR CO	33.875	0.007435	0	0.0019	0.0055	Mar-49
27	Apr-49	CONSUMERS PWR CO	35.5	0.04797	0	0.0018	0.0462	Apr-49
27	May-49	CONSUMERS PWR CO	33.625	-0.03873	0.5	0.0020	-0.0407	May-49
27	Jun-49	CONSUMERS PWR CO	33	-0.01859	0	0.0019	-0.0205	Jun-49
27	Jul-49	CONSUMERS PWR CO	32.375	-0.01894	0	0.0017	-0.0206	Jul-49
27	Aug-49	CONSUMERS PWR CO	31.75	-0.00386	0.5	0.0019	-0.0058	Aug-49
27	Sep-49	CONSUMERS PWR CO	31.375	-0.01181	0	0.0017	-0.0135	Sep-49

27	Oct-49	CONSUMERS PWR CO	32.5	0.035857	0	0.0018	0.0341	Oct-49
27	Nov-49	CONSUMERS PWR CO	33.25	0.038462	0.5	0.0017	0.0368	Nov-49
27	Dec-49	CONSUMERS PWR CO	34.75	0.045113	0	0.0017	0.0434	Dec-49
27	Jan-50	CONSUMERS PWR CO	34	-0.00607	0.5	0.0018	-0.0079	Jan-50
27	Feb-50	CONSUMERS PWR CO	35.125	0.033088	0	0.0016	0.0315	Feb-50
27	Mar-50	CONSUMERS PWR CO	35.375	0.007117	0	0.0018	0.0053	Mar-50
27	Apr-50	CONSUMERS PWR CO	34.75	-0.01767	0	0.0016	-0.0193	Apr-50
27	May-50	CONSUMERS PWR CO	35.375	0.032374	0.5	0.0019	0.0305	May-50
27	Jun-50	CONSUMERS PWR CO	31.375	-0.11307	0	0.0017	-0.1148	Jun-50
27	Jul-50	CONSUMERS PWR CO	30.375	-0.01594	0.5	0.0018	-0.0177	Jul-50
27	Aug-50	CONSUMERS PWR CO	31	0.020576	0	0.0018	0.0188	Aug-50
27	Sep-50	CONSUMERS PWR CO	30.75	-0.00807	0	0.0017	-0.0098	Sep-50
27	Oct-50	CONSUMERS PWR CO	29.875	-0.00461	0.50384	0.0019	-0.0065	Oct-50
27	Nov-50	CONSUMERS PWR CO	29.25	-0.02092	0	0.0018	-0.0227	Nov-50
27	Dec-50	CONSUMERS PWR CO	31	0.059829	0	0.0018	0.0580	Dec-50
27	Jan-51	CONSUMERS PWR CO	33	0.064516	0	0.0020	0.0625	Jan-51
27	Feb-51	CONSUMERS PWR CO	34.125	0.049242	0.5	0.0017	0.0475	Feb-51
27	Mar-51	CONSUMERS PWR CO	34	-0.00366	0	0.0019	-0.0056	Mar-51
27	Apr-51	CONSUMERS PWR CO	33.625	-0.01103	0	0.0020	-0.0130	Apr-51
27	May-51	CONSUMERS PWR CO	33.25	0.003717	0.5	0.0021	0.0016	May-51
27	Jun-51	CONSUMERS PWR CO	32.75	-0.01504	0	0.0020	-0.0170	Jun-51
27	Jul-51	CONSUMERS PWR CO	33.125	0.01145	0	0.0023	0.0092	Jul-51
27	Aug-51	CONSUMERS PWR CO	33.25	0.018868	0.5	0.0021	0.0168	Aug-51
27	Sep-51	CONSUMERS PWR CO	33.75	0.015038	0	0.0019	0.0131	Sep-51
27	Oct-51	CONSUMERS PWR CO	32.5	-0.03305	0	0.0023	-0.0354	Oct-51
27	Nov-51	CONSUMERS PWR CO	32.875	0.026923	0.5	0.0021	0.0248	Nov-51
27	Dec-51	CONSUMERS PWR CO	34.5	0.04943	0	0.0022	0.0472	Dec-51
27	Jan-52	CONSUMERS PWR CO	35.375	0.039855	0.5	0.0023	0.0376	Jan-52
27	Feb-52	CONSUMERS PWR CO	35.625	0.007067	0	0.0021	0.0050	Feb-52
27	Mar-52	CONSUMERS PWR CO	35.375	-0.00702	0	0.0023	-0.0093	Mar-52
27	Apr-52	CONSUMERS PWR CO	35.75	0.010601	0	0.0022	0.0084	Apr-52
27	May-52	CONSUMERS PWR CO	35.75	0.013986	0.5	0.0020	0.0120	May-52
27	Jun-52	CONSUMERS PWR CO	35.5	-0.00699	0	0.0022	-0.0092	Jun-52
27	Jul-52	CONSUMERS PWR CO	36.25	0.035211	0.5	0.0022	0.0330	Jul-52
27	Aug-52	CONSUMERS PWR CO	37	0.02069	0	0.0021	0.0186	Aug-52
27	Sep-52	CONSUMERS PWR CO	36.75	-0.00676	0	0.0023	-0.0091	Sep-52

27	Oct-52	CONSUMERS PWR CO	36.375	0.003401	0.5	0.0023	0.0011	Oct-52
27	Nov-52	CONSUMERS PWR CO	36.5	0.003436	0	0.0021	0.0013	Nov-52
27	Dec-52	CONSUMERS PWR CO	38	0.041096	0	0.0024	0.0387	Dec-52
27	Jan-53	CONSUMERS PWR CO	37.375	-0.01034	0	0.0023	-0.0126	Jan-53
27	Feb-53	CONSUMERS PWR CO	36.5	-0.01003	0.5	0.0021	-0.0121	Feb-53
27	Mar-53	CONSUMERS PWR CO	37.125	0.017123	0	0.0025	0.0146	Mar-53
27	Apr-53	CONSUMERS PWR CO	37	0.011448	0.55	0.0024	0.0090	Apr-53
27	May-53	CONSUMERS PWR CO	37	0	0	0.0024	-0.0024	May-53
27	Jun-53	CONSUMERS PWR CO	37	0	0	0.0027	-0.0027	Jun-53
27	Jul-53	CONSUMERS PWR CO	38.375	0.052027	0.55	0.0025	0.0495	Jul-53
27	Aug-53	CONSUMERS PWR CO	38.25	-0.00326	0	0.0025	-0.0058	Aug-53
27	Sep-53	CONSUMERS PWR CO	38.375	0.003268	0	0.0025	0.0008	Sep-53
27	Oct-53	CONSUMERS PWR CO	40.25	0.04886	0	0.0023	0.0466	Oct-53
27	Nov-53	CONSUMERS PWR CO	39.75	0.001242	0.55	0.0024	-0.0012	Nov-53
27	Dec-53	CONSUMERS PWR CO	39.875	0.003145	0	0.0024	0.0007	Dec-53
27	Jan-54	CONSUMERS PWR CO	39.125	0.00046	0.55303	0.0023	-0.0018	Jan-54
27	Feb-54	CONSUMERS PWR CO	40.75	0.041534	0	0.0022	0.0393	Feb-54
27	Mar-54	CONSUMERS PWR CO	42	0.030675	0	0.0025	0.0282	Mar-54
27	Apr-54	CONSUMERS PWR CO	43.75	0.054762	0.55	0.0022	0.0526	Apr-54
27	May-54	CONSUMERS PWR CO	43.375	-0.00857	0	0.0020	-0.0106	May-54
27	Jun-54	CONSUMERS PWR CO	44.25	0.020173	0	0.0025	0.0177	Jun-54
27	Jul-54	CONSUMERS PWR CO	47.5	0.085876	0.55	0.0022	0.0837	Jul-54
27	Aug-54	CONSUMERS PWR CO	46.25	-0.02632	0	0.0023	-0.0286	Aug-54
27	Sep-54	CONSUMERS PWR CO	46.5	0.005405	0	0.0022	0.0032	Sep-54
27	Oct-54	CONSUMERS PWR CO	44.125	-0.03925	0.55	0.0021	-0.0413	Oct-54
27	Nov-54	CONSUMERS PWR CO	46.25	0.048159	0	0.0023	0.0459	Nov-54
27	Dec-54	CONSUMERS PWR CO	47.125	0.018919	0	0.0023	0.0166	Dec-54
27	Jan-55	CONSUMERS PWR CO	48.625	0.043501	0.55	0.0022	0.0413	Jan-55
27	Feb-55	CONSUMERS PWR CO	49.875	0.025707	0	0.0022	0.0235	Feb-55
27	Mar-55	CONSUMERS PWR CO	48.125	-0.03509	0	0.0024	-0.0375	Mar-55
27	Apr-55	CONSUMERS PWR CO	47.5	-0.00156	0.55	0.0022	-0.0038	Apr-55
27	May-55	CONSUMERS PWR CO	46.5	-0.02105	0	0.0025	-0.0236	May-55
27	Jun-55	CONSUMERS PWR CO	47.375	0.018817	0	0.0023	0.0165	Jun-55
27	Jul-55	CONSUMERS PWR CO	49.75	0.066536	0.55	0.0023	0.0642	Jul-55
27	Aug-55	CONSUMERS PWR CO	49.875	0.002513	0	0.0027	-0.0002	Aug-55
27	Sep-55	CONSUMERS PWR CO	48.625	-0.02506	0	0.0024	-0.0275	Sep-55

27	Oct-55	CONSUMERS PWR CO	50.375	0.047301	0.55	0.0025	0.0448	Oct-55
27	Nov-55	CONSUMERS PWR CO	49	0.02134	0	0.0024	0.0189	Nov-55
27	Dec-55	CONSUMERS PWR CO	49	0	0	0.0024	-0.0024	Dec-55
27	Jan-56	CONSUMERS PWR CO	49	0.011224	0.55	0.0025	0.0087	Jan-56
27	Feb-56	CONSUMERS PWR CO	50.25	0.02551	0	0.0023	0.0232	Feb-56
27	Mar-56	CONSUMERS PWR CO	50	-0.00498	0	0.0023	-0.0073	Mar-56
27	Apr-56	CONSUMERS PWR CO	48.5	-0.019	0.55	0.0026	-0.0216	Apr-56
27	May-56	CONSUMERS PWR CO	48.875	0.007732	0	0.0026	0.0051	May-56
27	Jun-56	CONSUMERS PWR CO	47.375	-0.03069	0	0.0023	-0.0330	Jun-56
27	Jul-56	CONSUMERS PWR CO	49.625	0.059103	0.55	0.0026	0.0565	Jul-56
27	Aug-56	CONSUMERS PWR CO	49.25	-0.00756	0	0.0026	-0.0102	Aug-56
27	Sep-56	CONSUMERS PWR CO	48.25	-0.02031	0	0.0025	-0.0228	Sep-56
27	Oct-56	CONSUMERS PWR CO	48.25	0.011399	0.55	0.0029	0.0085	Oct-56
27	Nov-56	CONSUMERS PWR CO	46.5	-0.03627	0	0.0027	-0.0390	Nov-56
27	Dec-56	CONSUMERS PWR CO	46	-0.01075	0	0.0028	-0.0136	Dec-56
27	Jan-57	CONSUMERS PWR CO	46.875	0.032065	0.6	0.0029	0.0292	Jan-57
27	Feb-57	CONSUMERS PWR CO	46.625	-0.00533	0	0.0025	-0.0078	Feb-57
27	Mar-57	CONSUMERS PWR CO	46	-0.00938	0	0.0026	-0.0120	Mar-57
27	Apr-57	CONSUMERS PWR CO	47.25	0.027174	0	0.0029	0.0243	Apr-57
27	May-57	CONSUMERS PWR CO	47.75	0.02328	0.6	0.0029	0.0204	May-57
27	Jun-57	CONSUMERS PWR CO	45.25	-0.05236	0	0.0025	-0.0549	Jun-57
27	Jul-57	CONSUMERS PWR CO	44.875	0.004972	0.6	0.0033	0.0017	Jul-57
27	Aug-57	CONSUMERS PWR CO	44.75	-0.00279	0	0.0030	-0.0058	Aug-57
27	Sep-57	CONSUMERS PWR CO	44.75	0	0	0.0031	-0.0031	Sep-57
27	Oct-57	CONSUMERS PWR CO	44.375	0.008836	0.6	0.0031	0.0057	Oct-57
27	Nov-57	CONSUMERS PWR CO	46	0.03662	0	0.0029	0.0337	Nov-57
27	Dec-57	CONSUMERS PWR CO	48.5	0.054348	0	0.0029	0.0514	Dec-57
27	Jan-58	CONSUMERS PWR CO	48.625	0.014948	0.6	0.0027	0.0122	Jan-58
27	Feb-58	CONSUMERS PWR CO	49	0.007712	0	0.0025	0.0052	Feb-58
27	Mar-58	CONSUMERS PWR CO	49.5	0.010204	0	0.0027	0.0075	Mar-58
27	Apr-58	CONSUMERS PWR CO	51.875	0.060101	0.6	0.0026	0.0575	Apr-58
27	May-58	CONSUMERS PWR CO	52.875	0.019277	0	0.0024	0.0169	May-58
27	Jun-58	CONSUMERS PWR CO	52.625	-0.00473	0	0.0027	-0.0074	Jun-58
27	Jul-58	CONSUMERS PWR CO	51	-0.01948	0.6	0.0027	-0.0222	Jul-58
27	Aug-58	CONSUMERS PWR CO	52	0.019608	0	0.0027	0.0169	Aug-58
27	Sep-58	CONSUMERS PWR CO	54.625	0.050481	0	0.0032	0.0473	Sep-58

27	Oct-58	CONSUMERS PWR CO	55	0.017849	0.6	0.0032	0.0146	Oct-58
27	Nov-58	CONSUMERS PWR CO	55	0	0	0.0028	-0.0028	Nov-58
27	Dec-58	CONSUMERS PWR CO	55.875	0.015909	0	0.0033	0.0126	Dec-58
27	Jan-59	CONSUMERS PWR CO	58	0.04877	0.6	0.0031	0.0457	Jan-59
27	Feb-59	CONSUMERS PWR CO	60.875	0.049569	0	0.0031	0.0465	Feb-59
27	Mar-59	CONSUMERS PWR CO	56.25	-0.07598	0	0.0035	-0.0795	Mar-59
27	Apr-59	CONSUMERS PWR CO	53.875	-0.03156	0.6	0.0033	-0.0349	Apr-59
27	May-59	CONSUMERS PWR CO	53.75	-0.00232	0	0.0033	-0.0056	May-59
27	Jun-59	CONSUMERS PWR CO	54.375	0.011628	0	0.0036	0.0080	Jun-59
27	Jul-59	CONSUMERS PWR CO	56.75	0.054713	0.6	0.0035	0.0512	Jul-59
27	Aug-59	CONSUMERS PWR CO	56.375	-0.00661	0	0.0035	-0.0101	Aug-59
27	Sep-59	CONSUMERS PWR CO	55.75	-0.01109	0	0.0034	-0.0145	Sep-59
27	Oct-59	CONSUMERS PWR CO	54.875	-0.00404	0.65	0.0035	-0.0075	Oct-59
27	Nov-59	CONSUMERS PWR CO	56.375	0.027335	0	0.0035	0.0238	Nov-59
27	Dec-59	CONSUMERS PWR CO	53.875	-0.04435	0	0.0036	-0.0479	Dec-59
27	Jan-60	CONSUMERS PWR CO	55.125	0.035267	0.65	0.0035	0.0318	Jan-60
27	Feb-60	CONSUMERS PWR CO	55.875	0.013605	0	0.0037	0.0099	Feb-60
27	Mar-60	CONSUMERS PWR CO	54.75	-0.02013	0	0.0036	-0.0237	Mar-60
27	Apr-60	CONSUMERS PWR CO	55.625	0.027854	0.65	0.0032	0.0247	Apr-60
27	May-60	CONSUMERS PWR CO	58.25	0.047191	0	0.0037	0.0435	May-60
27	Jun-60	CONSUMERS PWR CO	60.25	0.034335	0	0.0034	0.0309	Jun-60
27	Jul-60	CONSUMERS PWR CO	58.5	-0.01232	0.65	0.0032	-0.0155	Jul-60
27	Aug-60	CONSUMERS PWR CO	60.5	0.034188	0	0.0034	0.0308	Aug-60
27	Sep-60	CONSUMERS PWR CO	58.375	-0.03512	0	0.0032	-0.0383	Sep-60
27	Oct-60	CONSUMERS PWR CO	57.5	-0.00385	0.65	0.0033	-0.0072	Oct-60
27	Nov-60	CONSUMERS PWR CO	59.5	0.034783	0	0.0032	0.0316	Nov-60
27	Dec-60	CONSUMERS PWR CO	62	0.042017	0	0.0033	0.0387	Dec-60
27	Jan-61	CONSUMERS PWR CO	63.5	0.034677	0.65	0.0033	0.0314	Jan-61
27	Feb-61	CONSUMERS PWR CO	65.375	0.029528	0	0.0030	0.0265	Feb-61
27	Mar-61	CONSUMERS PWR CO	67	0.024857	0	0.0031	0.0218	Mar-61
27	Apr-61	CONSUMERS PWR CO	68.75	0.035821	0.65	0.0031	0.0327	Apr-61
27	May-61	CONSUMERS PWR CO	71.5	0.04	0	0.0034	0.0366	May-61
27	Jun-61	CONSUMERS PWR CO	68.875	-0.03671	0	0.0032	-0.0399	Jun-61
27	Jul-61	CONSUMERS PWR CO	73.125	0.071143	0.65	0.0033	0.0678	Jul-61
27	Aug-61	CONSUMERS PWR CO	70.5	-0.0359	0	0.0033	-0.0392	Aug-61
27	Sep-61	CONSUMERS PWR CO	74.875	0.062057	0	0.0032	0.0589	Sep-61

27	Oct-61	CONSUMERS PWR CO		80	0.077129	0.65	0.0034	0.0737	Oct-61
27	Nov-61	CONSUMERS PWR CO		84	0.05	0	0.0032	0.0468	Nov-61
27	Dec-61	CONSUMERS PWR CO		83.125	-0.01042	0	0.0031	-0.0135	Dec-61
27	Jan-62	CONSUMERS PWR CO		77.625	-0.05774	0.7	0.0037	-0.0614	Jan-62
27	Feb-62	CONSUMERS PWR CO		79.625	0.025765	0	0.0032	0.0226	Feb-62
27	Mar-62	CONSUMERS PWR CO		83.375	0.047096	0	0.0033	0.0438	Mar-62
27	Apr-62	CONSUMERS PWR CO		42.125	0.018891	0.7	0.0033	0.0156	Apr-62
27	May-62	CONSUMERS PWR CO		35.75	-0.15134	0	0.0032	-0.1545	May-62
27	Jun-62	CONSUMERS PWR CO		36.125	0.01049	0	0.0030	0.0075	Jun-62
27	Jul-62	CONSUMERS POWER CO	CMS	37.5	0.047751	0.35	0.0034	0.0444	Jul-62
27	Aug-62	CONSUMERS POWER CO	CMS	39	0.04	0	0.0034	0.0366	Aug-62
27	Sep-62	CONSUMERS POWER CO	CMS	37.25	-0.04487	0	0.0030	-0.0479	Sep-62
27	Oct-62	CONSUMERS POWER CO	CMS	37.75	0.022819	0.35	0.0035	0.0193	Oct-62
27	Nov-62	CONSUMERS POWER CO	CMS	41	0.086093	0	0.0031	0.0830	Nov-62
27	Dec-62	CONSUMERS POWER CO	CMS	42.375	0.033537	0	0.0032	0.0303	Dec-62
27	Jan-63	CONSUMERS POWER CO	CMS	43	0.023009	0.35	0.0032	0.0198	Jan-63
27	Feb-63	CONSUMERS POWER CO	CMS	41	-0.04651	0	0.0029	-0.0494	Feb-63
27	Mar-63	CONSUMERS POWER CO	CMS	44	0.073171	0	0.0031	0.0701	Mar-63
27	Apr-63	CONSUMERS POWER CO	CMS	44	0.008523	0.375	0.0034	0.0051	Apr-63
27	May-63	CONSUMERS POWER CO	CMS	45	0.022727	0	0.0033	0.0194	May-63
27	Jun-63	CONSUMERS POWER CO	CMS	46	0.022222	0	0.0030	0.0192	Jun-63
27	Jul-63	CONSUMERS POWER CO	CMS	46	0.008152	0.375	0.0036	0.0046	Jul-63
27	Aug-63	CONSUMERS POWER CO	CMS	49.625	0.078804	0	0.0033	0.0755	Aug-63
27	Sep-63	CONSUMERS POWER CO	CMS	45.875	-0.07557	0	0.0034	-0.0790	Sep-63
27	Oct-63	CONSUMERS POWER CO	CMS	45	-0.0109	0.375	0.0034	-0.0143	Oct-63
27	Nov-63	CONSUMERS POWER CO	CMS	44.75	-0.00556	0	0.0032	-0.0088	Nov-63
27	Dec-63	CONSUMERS POWER CO	CMS	45.375	0.013966	0	0.0036	0.0104	Dec-63
27	Jan-64	CONSUMERS POWER CO	CMS	46.375	0.030303	0.375	0.0035	0.0268	Jan-64
27	Feb-64	CONSUMERS POWER CO	CMS	46.5	0.002695	0	0.0032	-0.0005	Feb-64
27	Mar-64	CONSUMERS POWER CO	CMS	46.625	0.002688	0	0.0037	-0.0010	Mar-64
27	Apr-64	CONSUMERS POWER CO	CMS	44.25	-0.0429	0.375	0.0035	-0.0464	Apr-64
27	May-64	CONSUMERS POWER CO	CMS	46.125	0.042373	0	0.0032	0.0392	May-64
27	Jun-64	CONSUMERS POWER CO	CMS	49.375	0.070461	0	0.0038	0.0667	Jun-64
27	Jul-64	CONSUMERS POWER CO	CMS	50.875	0.038987	0.425	0.0035	0.0355	Jul-64
27	Aug-64	CONSUMERS POWER CO	CMS	51.5	0.012285	0	0.0035	0.0088	Aug-64
27	Sep-64	CONSUMERS POWER CO	CMS	55.25	0.072816	0	0.0034	0.0694	Sep-64

27	Oct-64	CONSUMERS POWER CO	CMS	52.875	-0.03529	0.425	0.0034	-0.0387	Oct-64
27	Nov-64	CONSUMERS POWER CO	CMS	54.5	0.030733	0	0.0035	0.0272	Nov-64
27	Dec-64	CONSUMERS POWER CO	CMS	54.125	-0.00688	0	0.0035	-0.0104	Dec-64
27	Jan-65	CONSUMERS POWER CO	CMS	58	0.079446	0.425	0.0033	0.0761	Jan-65
27	Feb-65	CONSUMERS POWER CO	CMS	57.75	-0.00431	0	0.0032	-0.0075	Feb-65
27	Mar-65	CONSUMERS POWER CO	CMS	55.75	-0.03463	0	0.0038	-0.0384	Mar-65
27	Apr-65	CONSUMERS POWER CO	CMS	56.75	0.026009	0.45	0.0033	0.0227	Apr-65
27	May-65	CONSUMERS POWER CO	CMS	59	0.039648	0	0.0033	0.0363	May-65
27	Jun-65	CONSUMERS POWER CO	CMS	56.375	-0.04449	0	0.0038	-0.0483	Jun-65
27	Jul-65	CONSUMERS POWER CO	CMS	57.75	0.032373	0.45	0.0034	0.0290	Jul-65
27	Aug-65	CONSUMERS POWER CO	CMS	56.25	-0.02597	0	0.0037	-0.0297	Aug-65
27	Sep-65	CONSUMERS POWER CO	CMS	57.75	0.026667	0	0.0035	0.0232	Sep-65
27	Oct-65	CONSUMERS POWER CO	CMS	57.625	0.005628	0.45	0.0034	0.0022	Oct-65
27	Nov-65	CONSUMERS POWER CO	CMS	56	-0.0282	0	0.0037	-0.0319	Nov-65
27	Dec-65	CONSUMERS POWER CO	CMS	56.25	0.004464	0	0.0037	0.0008	Dec-65
27	Jan-66	CONSUMERS POWER CO	CMS	53.125	-0.04711	0.475	0.0038	-0.0509	Jan-66
27	Feb-66	CONSUMERS POWER CO	CMS	51.25	-0.03529	0	0.0034	-0.0387	Feb-66
27	Mar-66	CONSUMERS POWER CO	CMS	48.5	-0.05366	0	0.0040	-0.0577	Mar-66
27	Apr-66	CONSUMERS POWER CO	CMS	48	-0.00052	0.475	0.0036	-0.0041	Apr-66
27	May-66	CONSUMERS POWER CO	CMS	49.25	0.026042	0	0.0041	0.0219	May-66
27	Jun-66	CONSUMERS POWER CO	CMS	48.5	-0.01523	0	0.0039	-0.0191	Jun-66
27	Jul-66	CONSUMERS POWER CO	CMS	48.125	0.002062	0.475	0.0038	-0.0017	Jul-66
27	Aug-66	CONSUMERS POWER CO	CMS	42.125	-0.12468	0	0.0043	-0.1290	Aug-66
27	Sep-66	CONSUMERS POWER CO	CMS	46.25	0.097923	0	0.0041	0.0938	Sep-66
27	Oct-66	CONSUMERS POWER CO	CMS	47.5	0.037297	0.475	0.0040	0.0333	Oct-66
27	Nov-66	CONSUMERS POWER CO	CMS	48.5	0.021053	0	0.0038	0.0173	Nov-66
27	Dec-66	CONSUMERS POWER CO	CMS	50.625	0.043814	0	0.0039	0.0399	Dec-66
27	Jan-67	CONSUMERS POWER CO	CMS	49.25	-0.01778	0.475	0.0040	-0.0218	Jan-67
27	Feb-67	CONSUMERS POWER CO	CMS	44.875	0.002284	0	0.0034	-0.0011	Feb-67
27	Mar-67	CONSUMERS POWER CO	CMS	46.75	0.041783	0	0.0039	0.0379	Mar-67
27	Apr-67	CONSUMERS POWER CO	CMS	48.25	0.042246	0.475	0.0035	0.0387	Apr-67
27	May-67	CONSUMERS POWER CO	CMS	44.625	-0.07513	0	0.0043	-0.0794	May-67
27	Jun-67	CONSUMERS POWER CO	CMS	44.625	0	0	0.0039	-0.0039	Jun-67
27	Jul-67	CONSUMERS POWER CO	CMS	43	-0.02577	0.475	0.0043	-0.0301	Jul-67
27	Aug-67	CONSUMERS POWER CO	CMS	42.375	-0.01454	0	0.0042	-0.0187	Aug-67
27	Sep-67	CONSUMERS POWER CO	CMS	41.875	-0.0118	0	0.0040	-0.0158	Sep-67

27	Oct-67	CONSUMERS POWER CO	CMS	40.125	-0.03045	0.475	0.0045	-0.0349	Oct-67
27	Nov-67	CONSUMERS POWER CO	CMS	40.625	0.012461	0	0.0045	0.0080	Nov-67
27	Dec-67	CONSUMERS POWER CO	CMS	43.125	0.061538	0	0.0044	0.0571	Dec-67
27	Jan-68	CONSUMERS POWER CO	CMS	40	-0.06145	0.475	0.0050	-0.0664	Jan-68
27	Feb-68	CONSUMERS POWER CO	CMS	39.125	-0.02188	0	0.0042	-0.0261	Feb-68
27	Mar-68	CONSUMERS POWER CO	CMS	37.875	-0.03195	0	0.0043	-0.0362	Mar-68
27	Apr-68	CONSUMERS POWER CO	CMS	37.375	-0.00066	0.475	0.0049	-0.0056	Apr-68
27	May-68	CONSUMERS POWER CO	CMS	36.875	-0.01338	0	0.0046	-0.0180	May-68
27	Jun-68	CONSUMERS POWER CO	CMS	40.625	0.101695	0	0.0042	0.0975	Jun-68
27	Jul-68	CONSUMERS POWER CO	CMS	41.625	0.036308	0.475	0.0048	0.0315	Jul-68
27	Aug-68	CONSUMERS POWER CO	CMS	42.125	0.012012	0	0.0042	0.0078	Aug-68
27	Sep-68	CONSUMERS POWER CO	CMS	42	-0.00297	0	0.0044	-0.0074	Sep-68
27	Oct-68	CONSUMERS POWER CO	CMS	42.125	0.014286	0.475	0.0045	0.0098	Oct-68
27	Nov-68	CONSUMERS POWER CO	CMS	44.5	0.05638	0	0.0043	0.0521	Nov-68
27	Dec-68	CONSUMERS POWER CO	CMS	45.125	0.014045	0	0.0049	0.0091	Dec-68
27	Jan-69	CONSUMERS POWER CO	CMS	44	-0.0144	0.475	0.0050	-0.0194	Jan-69
27	Feb-69	CONSUMERS POWER CO	CMS	41.375	-0.05966	0	0.0046	-0.0643	Feb-69
27	Mar-69	CONSUMERS POWER CO	CMS	41.5	0.003021	0	0.0047	-0.0017	Mar-69
27	Apr-69	CONSUMERS POWER CO	CMS	41.625	0.014458	0.475	0.0055	0.0090	Apr-69
27	May-69	CONSUMERS POWER CO	CMS	41.75	0.003003	0	0.0047	-0.0017	May-69
27	Jun-69	CONSUMERS POWER CO	CMS	37.875	-0.09281	0	0.0055	-0.0983	Jun-69
27	Jul-69	CONSUMERS POWER CO	CMS	33.75	-0.09637	0.475	0.0052	-0.1016	Jul-69
27	Aug-69	CONSUMERS POWER CO	CMS	32.625	-0.03333	0	0.0048	-0.0381	Aug-69
27	Sep-69	CONSUMERS POWER CO	CMS	33.5	0.02682	0	0.0055	0.0213	Sep-69
27	Oct-69	CONSUMERS POWER CO	CMS	35.75	0.081343	0.475	0.0057	0.0756	Oct-69
27	Nov-69	CONSUMERS POWER CO	CMS	32.875	-0.08042	0	0.0049	-0.0853	Nov-69
27	Dec-69	CONSUMERS POWER CO	CMS	33.5	0.019011	0	0.0060	0.0130	Dec-69
27	Jan-70	CONSUMERS POWER CO	CMS	31.5	-0.04478	0.5	0.0056	-0.0504	Jan-70
27	Feb-70	CONSUMERS POWER CO	CMS	35.125	0.115079	0	0.0052	0.1099	Feb-70
27	Mar-70	CONSUMERS POWER CO	CMS	37.75	0.074733	0	0.0056	0.0691	Mar-70
27	Apr-70	CONSUMERS POWER CO	CMS	33.375	-0.10265	0.5	0.0054	-0.1080	Apr-70
27	May-70	CONSUMERS POWER CO	CMS	32.375	-0.02996	0	0.0055	-0.0355	May-70
27	Jun-70	CONSUMERS POWER CO	CMS	28	-0.13319	0	0.0064	-0.1396	Jun-70
27	Jul-70	CONSUMERS POWER CO	CMS	30.75	0.116071	0.5	0.0059	0.1102	Jul-70
27	Aug-70	CONSUMERS POWER CO	CMS	31.875	0.036585	0	0.0057	0.0309	Aug-70
27	Sep-70	CONSUMERS POWER CO	CMS	32.25	0.011765	0	0.0056	0.0062	Sep-70

27	Oct-70	CONSUMERS POWER CO	CMS	30.25	-0.04651	0.5	0.0055	-0.0520	Oct-70
27	Nov-70	CONSUMERS POWER CO	CMS	33	0.090909	0	0.0058	0.0851	Nov-70
27	Dec-70	CONSUMERS POWER CO	CMS	35.375	0.07197	0	0.0053	0.0667	Dec-70
27	Jan-71	CONSUMERS POWER CO	CMS	35.625	0.021201	0.5	0.0051	0.0161	Jan-71
27	Feb-71	CONSUMERS POWER CO	CMS	32.625	-0.08421	0	0.0046	-0.0888	Feb-71
27	Mar-71	CONSUMERS POWER CO	CMS	35	0.072797	0	0.0056	0.0672	Mar-71
27	Apr-71	CONSUMERS POWER CO	CMS	32	-0.07143	0.5	0.0048	-0.0762	Apr-71
27	May-71	CONSUMERS POWER CO	CMS	30.5	-0.04688	0	0.0047	-0.0516	May-71
27	Jun-71	CONSUMERS POWER CO	CMS	31	0.016393	0	0.0056	0.0108	Jun-71
27	Jul-71	CONSUMERS POWER CO	CMS	30.5	0	0.5	0.0052	-0.0052	Jul-71
27	Aug-71	CONSUMERS POWER CO	CMS	29.75	-0.02459	0	0.0055	-0.0301	Aug-71
27	Sep-71	CONSUMERS POWER CO	CMS	29.625	-0.0042	0	0.0049	-0.0091	Sep-71
27	Oct-71	CONSUMERS POWER CO	CMS	30.125	0.033755	0.5	0.0047	0.0291	Oct-71
27	Nov-71	CONSUMERS POWER CO	CMS	28.75	-0.04564	0	0.0051	-0.0507	Nov-71
27	Dec-71	CONSUMERS POWER CO	CMS	31.5	0.095652	0	0.0050	0.0907	Dec-71
27	Jan-72	CONSUMERS POWER CO	CMS	31.375	0.011905	0.5	0.0050	0.0069	Jan-72
27	Feb-72	CONSUMERS POWER CO	CMS	30	-0.04383	0	0.0047	-0.0485	Feb-72
27	Mar-72	CONSUMERS POWER CO	CMS	30.125	0.004167	0	0.0049	-0.0007	Mar-72
27	Apr-72	CONSUMERS POWER CO	CMS	28.125	-0.04979	0.5	0.0048	-0.0546	Apr-72
27	May-72	CONSUMERS POWER CO	CMS	28.5	0.013333	0	0.0055	0.0078	May-72
27	Jun-72	CONSUMERS POWER CO	CMS	28.125	-0.01316	0	0.0049	-0.0181	Jun-72
27	Jul-72	CONSUMERS POWER CO	CMS	27.875	0.008889	0.5	0.0051	0.0038	Jul-72
27	Aug-72	CONSUMERS POWER CO	CMS	27.75	-0.00448	0	0.0049	-0.0094	Aug-72
27	Sep-72	CONSUMERS POWER CO	CMS	27.875	0.004505	0	0.0047	-0.0002	Sep-72
27	Oct-72	CONSUMERS POWER CO	CMS	28	0.022422	0.5	0.0052	0.0172	Oct-72
27	Nov-72	CONSUMERS POWER CO	CMS	30.875	0.102679	0	0.0048	0.0979	Nov-72
27	Dec-72	CONSUMERS POWER CO	CMS	29	-0.06073	0	0.0045	-0.0652	Dec-72
27	Jan-73	CONSUMERS POWER CO	CMS	28.875	0.012931	0.5	0.0054	0.0075	Jan-73
27	Feb-73	CONSUMERS POWER CO	CMS	28.625	-0.00866	0	0.0051	-0.0138	Feb-73
27	Mar-73	CONSUMERS POWER CO	CMS	28.5	-0.00437	0	0.0056	-0.0100	Mar-73
27	Apr-73	CONSUMERS POWER CO	CMS	27.625	-0.01316	0.5	0.0057	-0.0189	Apr-73
27	May-73	CONSUMERS POWER CO	CMS	26.875	-0.02715	0	0.0058	-0.0329	May-73
27	Jun-73	CONSUMERS POWER CO	CMS	27	0.004651	0	0.0055	-0.0008	Jun-73
27	Jul-73	CONSUMERS POWER CO	CMS	25.75	-0.02778	0.5	0.0061	-0.0339	Jul-73
27	Aug-73	CONSUMERS POWER CO	CMS	26.25	0.019417	0	0.0062	0.0132	Aug-73
27	Sep-73	CONSUMERS POWER CO	CMS	27	0.028571	0	0.0055	0.0231	Sep-73

27	Oct-73	CONSUMERS POWER CO	CMS	25.125	-0.05093	0.5	0.0063	-0.0572	Oct-73
27	Nov-73	CONSUMERS POWER CO	CMS	22.25	-0.11443	0	0.0056	-0.1200	Nov-73
27	Dec-73	CONSUMERS POWER CO	CMS	22.75	0.022472	0	0.0060	0.0165	Dec-73
27	Jan-74	CONSUMERS POWER CO	CMS	23.75	0.065934	0.5	0.0061	0.0598	Jan-74
27	Feb-74	CONSUMERS POWER CO	CMS	24.375	0.026316	0	0.0055	0.0208	Feb-74
27	Mar-74	CONSUMERS POWER CO	CMS	22.75	-0.06667	0	0.0058	-0.0725	Mar-74
27	Apr-74	CONSUMERS POWER CO	CMS	18.625	-0.15934	0.5	0.0068	-0.1661	Apr-74
27	May-74	CONSUMERS POWER CO	CMS	16.625	-0.10738	0	0.0068	-0.1142	May-74
27	Jun-74	CONSUMERS POWER CO	CMS	12.5	-0.24812	0	0.0061	-0.2542	Jun-74
27	Jul-74	CONSUMERS POWER CO	CMS	11.25	-0.06	0.5	0.0072	-0.0672	Jul-74
27	Aug-74	CONSUMERS POWER CO	CMS	11	-0.02222	0	0.0065	-0.0287	Aug-74
27	Sep-74	CONSUMERS POWER CO	CMS	11.125	0.011364	0	0.0071	0.0043	Sep-74
27	Oct-74	CONSUMERS POWER CO	CMS	10.125	-0.04494	0.5	0.0070	-0.0519	Oct-74
27	Nov-74	CONSUMERS POWER CO	CMS	9.75	-0.03704	0	0.0062	-0.0432	Nov-74
27	Dec-74	CONSUMERS POWER CO	CMS	9.875	0.012821	0	0.0067	0.0061	Dec-74
27	Jan-75	CONSUMERS POWER CO	CMS	14	0.468354	0.5	0.0068	0.4616	Jan-75
27	Feb-75	CONSUMERS POWER CO	CMS	14.75	0.053571	0	0.0060	0.0476	Feb-75
27	Mar-75	CONSUMERS POWER CO	CMS	15	0.016949	0	0.0066	0.0103	Mar-75
27	Apr-75	CONSUMERS POWER CO	CMS	13.625	-0.05833	0.5	0.0067	-0.0650	Apr-75
27	May-75	CONSUMERS POWER CO	CMS	15.625	0.146789	0	0.0067	0.1401	May-75
27	Jun-75	CONSUMERS POWER CO	CMS	18	0.152	0	0.0070	0.1450	Jun-75
27	Jul-75	CONSUMERS POWER CO	CMS	17.625	0.006944	0.5	0.0068	0.0001	Jul-75
27	Aug-75	CONSUMERS POWER CO	CMS	17	-0.03546	0	0.0065	-0.0420	Aug-75
27	Sep-75	CONSUMERS POWER CO	CMS	17	0	0	0.0073	-0.0073	Sep-75
27	Oct-75	CONSUMERS POWER CO	CMS	17.75	0.073529	0.5	0.0072	0.0663	Oct-75
27	Nov-75	CONSUMERS POWER CO	CMS	18.625	0.049296	0	0.0061	0.0432	Nov-75
27	Dec-75	CONSUMERS POWER CO	CMS	19	0.020134	0	0.0074	0.0127	Dec-75
27	Jan-76	CONSUMERS POWER CO	CMS	21.125	0.138158	0.5	0.0065	0.1317	Jan-76
27	Feb-76	CONSUMERS POWER CO	CMS	20.375	-0.0355	0	0.0060	-0.0415	Feb-76
27	Mar-76	CONSUMERS POWER CO	CMS	20.25	-0.00614	0	0.0071	-0.0132	Mar-76
27	Apr-76	CONSUMERS POWER CO	CMS	20.25	0.024691	0.5	0.0064	0.0183	Apr-76
27	May-76	CONSUMERS POWER CO	CMS	20.125	-0.00617	0	0.0059	-0.0121	May-76
27	Jun-76	CONSUMERS POWER CO	CMS	20.25	0.006211	0	0.0073	-0.0011	Jun-76
27	Jul-76	CONSUMERS POWER CO	CMS	20.75	0.049383	0.5	0.0065	0.0429	Jul-76
27	Aug-76	CONSUMERS POWER CO	CMS	21.375	0.03012	0	0.0069	0.0232	Aug-76
27	Sep-76	CONSUMERS POWER CO	CMS	21.875	0.023392	0	0.0064	0.0170	Sep-76

27	Oct-76	CONSUMERS POWER CO	CMS	21.5	0.005714	0.5	0.0061	-0.0004	Oct-76
27	Nov-76	CONSUMERS POWER CO	CMS	21.625	0.005814	0	0.0066	-0.0008	Nov-76
27	Dec-76	CONSUMERS POWER CO	CMS	22.625	0.046243	0	0.0063	0.0399	Dec-76
27	Jan-77	CONSUMERS POWER CO	CMS	22.75	0.027624	0.5	0.0059	0.0217	Jan-77
27	Feb-77	CONSUMERS POWER CO	CMS	21.125	-0.07143	0	0.0057	-0.0771	Feb-77
27	Mar-77	CONSUMERS POWER CO	CMS	21.75	0.029586	0	0.0065	0.0231	Mar-77
27	Apr-77	CONSUMERS POWER CO	CMS	22.875	0.076092	0.53	0.0061	0.0700	Apr-77
27	May-77	CONSUMERS POWER CO	CMS	23.125	0.010929	0	0.0067	0.0042	May-77
27	Jun-77	CONSUMERS POWER CO	CMS	24.5	0.059459	0	0.0062	0.0533	Jun-77
27	Jul-77	CONSUMERS POWER CO	CMS	24	0.001224	0.53	0.0059	-0.0047	Jul-77
27	Aug-77	CONSUMERS POWER CO	CMS	24	0	0	0.0067	-0.0067	Aug-77
27	Sep-77	CONSUMERS POWER CO	CMS	24.375	0.015625	0	0.0061	0.0095	Sep-77
27	Oct-77	CONSUMERS POWER CO	CMS	23.25	-0.02441	0.53	0.0063	-0.0307	Oct-77
27	Nov-77	CONSUMERS POWER CO	CMS	23.875	0.026882	0	0.0063	0.0206	Nov-77
27	Dec-77	CONSUMERS POWER CO	CMS	24.125	0.010471	0	0.0062	0.0043	Dec-77
27	Jan-78	CONSUMERS POWER CO	CMS	23.25	-0.0143	0.53	0.0069	-0.0212	Jan-78
27	Feb-78	CONSUMERS POWER CO	CMS	22.5	-0.03226	0	0.0060	-0.0383	Feb-78
27	Mar-78	CONSUMERS POWER CO	CMS	24	0.066667	0	0.0069	0.0598	Mar-78
27	Apr-78	CONSUMERS POWER CO	CMS	22	-0.06125	0.53	0.0063	-0.0676	Apr-78
27	May-78	CONSUMERS POWER CO	CMS	21.75	-0.01136	0	0.0075	-0.0189	May-78
27	Jun-78	CONSUMERS POWER CO	CMS	22.875	0.051724	0	0.0069	0.0448	Jun-78
27	Jul-78	CONSUMERS POWER CO	CMS	23.25	0.040874	0.56	0.0073	0.0336	Jul-78
27	Aug-78	CONSUMERS POWER CO	CMS	24	0.032258	0	0.0070	0.0253	Aug-78
27	Sep-78	CONSUMERS POWER CO	CMS	24	0	0	0.0065	-0.0065	Sep-78
27	Oct-78	CONSUMERS POWER CO	CMS	21.5	-0.08083	0.56	0.0073	-0.0881	Oct-78
27	Nov-78	CONSUMERS POWER CO	CMS	22.5	0.046512	0	0.0071	0.0394	Nov-78
27	Dec-78	CONSUMERS POWER CO	CMS	22.375	-0.00556	0	0.0068	-0.0124	Dec-78
27	Jan-79	CONSUMERS POWER CO	CMS	23.375	0.069721	0.56	0.0079	0.0618	Jan-79
27	Feb-79	CONSUMERS POWER CO	CMS	22.5	-0.03743	0	0.0065	-0.0439	Feb-79
27	Mar-79	CONSUMERS POWER CO	CMS	22.875	0.016667	0	0.0074	0.0093	Mar-79
27	Apr-79	CONSUMERS POWER CO	CMS	20	-0.1012	0.56	0.0076	-0.1088	Apr-79
27	May-79	CONSUMERS POWER CO	CMS	21.125	0.05625	0	0.0077	0.0486	May-79
27	Jun-79	CONSUMERS POWER CO	CMS	22.5	0.065089	0	0.0071	0.0580	Jun-79
27	Jul-79	CONSUMERS POWER CO	CMS	21.875	-0.00156	0.59	0.0076	-0.0092	Jul-79
27	Aug-79	CONSUMERS POWER CO	CMS	22	0.005714	0	0.0073	-0.0016	Aug-79
27	Sep-79	CONSUMERS POWER CO	CMS	21.75	-0.01136	0	0.0068	-0.0182	Sep-79

27	Oct-79	CONSUMERS POWER CO	CMS	19.375	-0.08207	0.59	0.0082	-0.0903	Oct-79
27	Nov-79	CONSUMERS POWER CO	CMS	20.25	0.045161	0	0.0083	0.0369	Nov-79
27	Dec-79	CONSUMERS POWER CO	CMS	18.875	-0.0679	0	0.0083	-0.0762	Dec-79
27	Jan-80	CONSUMERS POWER CO	CMS	18	-0.0151	0.59	0.0083	-0.0234	Jan-80
27	Feb-80	CONSUMERS POWER CO	CMS	17.125	-0.04861	0	0.0084	-0.0570	Feb-80
27	Mar-80	CONSUMERS POWER CO	CMS	16.625	-0.0292	0	0.0099	-0.0391	Mar-80
27	Apr-80	CONSUMERS POWER CO	CMS	18.75	0.163308	0.59	0.0100	0.1533	Apr-80
27	May-80	CONSUMERS POWER CO	CMS	19.625	0.046667	0	0.0087	0.0380	May-80
27	Jun-80	CONSUMERS POWER CO	CMS	20.875	0.063694	0	0.0086	0.0551	Jun-80
27	Jul-80	CONSUMERS POWER CO	CMS	19.125	-0.05557	0.59	0.0084	-0.0640	Jul-80
27	Aug-80	CONSUMERS POWER CO	CMS	18.125	-0.05229	0	0.0081	-0.0604	Aug-80
27	Sep-80	CONSUMERS POWER CO	CMS	18.125	0	0	0.0097	-0.0097	Sep-80
27	Oct-80	CONSUMERS POWER CO	CMS	16.875	-0.03641	0.59	0.0097	-0.0461	Oct-80
27	Nov-80	CONSUMERS POWER CO	CMS	16.375	-0.02963	0	0.0091	-0.0387	Nov-80
27	Dec-80	CONSUMERS POWER CO	CMS	16.625	0.015267	0	0.0108	0.0045	Dec-80
27	Jan-81	CONSUMERS POWER CO	CMS	16.875	0.050526	0.59	0.0094	0.0411	Jan-81
27	Feb-81	CONSUMERS POWER CO	CMS	16.75	-0.00741	0	0.0088	-0.0162	Feb-81
27	Mar-81	CONSUMERS POWER CO	CMS	17.125	0.022388	0	0.0111	0.0113	Mar-81
27	Apr-81	CONSUMERS POWER CO	CMS	17.25	0.041752	0.59	0.0101	0.0317	Apr-81
27	May-81	CONSUMERS POWER CO	CMS	18	0.043478	0	0.0104	0.0331	May-81
27	Jun-81	CONSUMERS POWER CO	CMS	18.5	0.027778	0	0.0109	0.0169	Jun-81
27	Jul-81	CONSUMERS POWER CO	CMS	17.5	-0.02216	0.59	0.0109	-0.0331	Jul-81
27	Aug-81	CONSUMERS POWER CO	CMS	17.125	-0.02143	0	0.0110	-0.0324	Aug-81
27	Sep-81	CONSUMERS POWER CO	CMS	16.75	-0.0219	0	0.0114	-0.0333	Sep-81
27	Oct-81	CONSUMERS POWER CO	CMS	16.5	0.020299	0.59	0.0117	0.0086	Oct-81
27	Nov-81	CONSUMERS POWER CO	CMS	17.5	0.060606	0	0.0113	0.0493	Nov-81
27	Dec-81	CONSUMERS POWER CO	CMS	17.125	-0.02143	0	0.0100	-0.0314	Dec-81
27	Jan-82	CONSUMERS POWER CO	CMS	16.75	0.013723	0.61	0.0108	0.0029	Jan-82
27	Feb-82	CONSUMERS POWER CO	CMS	17.5	0.044776	0	0.0103	0.0345	Feb-82
27	Mar-82	CONSUMERS POWER CO	CMS	17.5	0	0	0.0124	-0.0124	Mar-82
27	Apr-82	CONSUMERS POWER CO	CMS	17.375	0.027714	0.61	0.0112	0.0165	Apr-82
27	May-82	CONSUMERS POWER CO	CMS	17.625	0.014388	0	0.0101	0.0043	May-82
27	Jun-82	CONSUMERS POWER CO	CMS	16.875	-0.04255	0	0.0120	-0.0546	Jun-82
27	Jul-82	CONSUMERS POWER CO	CMS	16.375	0.006519	0.61	0.0114	-0.0049	Jul-82
27	Aug-82	CONSUMERS POWER CO	CMS	18	0.099237	0	0.0112	0.0880	Aug-82
27	Sep-82	CONSUMERS POWER CO	CMS	18.375	0.020833	0	0.0100	0.0108	Sep-82

27	Oct-82	CONSUMERS POWER CO	CMS	18.75	0.053605	0.61	0.0091	0.0445	Oct-82
27	Nov-82	CONSUMERS POWER CO	CMS	19	0.013333	0	0.0094	0.0039	Nov-82
27	Dec-82	CONSUMERS POWER CO	CMS	19.625	0.032895	0	0.0093	0.0236	Dec-82
27	Jan-83	CONSUMERS POWER CO	CMS	20.125	0.056561	0.61	0.0087	0.0479	Jan-83
27	Feb-83	CONSUMERS POWER CO	CMS	20.75	0.031056	0	0.0081	0.0230	Feb-83
27	Mar-83	CONSUMERS POWER CO	CMS	21.25	0.024096	0	0.0089	0.0152	Mar-83
27	Apr-83	CONSUMERS POWER CO	CMS	20.625	-0.00071	0.61	0.0085	-0.0092	Apr-83
27	May-83	CONSUMERS POWER CO	CMS	20.75	0.006061	0	0.0091	-0.0030	May-83
27	Jun-83	CONSUMERS POWER CO	CMS	19.875	-0.04217	0	0.0090	-0.0512	Jun-83
27	Jul-83	CONSUMERS POWER CO	CMS	18.375	-0.04478	0.61	0.0088	-0.0536	Jul-83
27	Aug-83	CONSUMERS POWER CO	CMS	18.5	0.006803	0	0.0103	-0.0035	Aug-83
27	Sep-83	CONSUMERS POWER CO	CMS	19.75	0.067568	0	0.0096	0.0580	Sep-83
27	Oct-83	CONSUMERS POWER CO	CMS	19.125	0.000253	0.63	0.0095	-0.0092	Oct-83
27	Nov-83	CONSUMERS POWER CO	CMS	15.625	-0.18301	0	0.0094	-0.1924	Nov-83
27	Dec-83	CONSUMERS POWER CO	CMS	14.125	-0.096	0	0.0094	-0.1054	Dec-83
27	Jan-84	CONSUMERS POWER CO	CMS	12.625	-0.06159	0.63	0.0103	-0.0719	Jan-84
27	Feb-84	CONSUMERS POWER CO	CMS	12.25	-0.0297	0	0.0092	-0.0389	Feb-84
27	Mar-84	CONSUMERS POWER CO	CMS	9.75	-0.20408	0	0.0098	-0.2139	Mar-84
27	Apr-84	CONSUMERS POWER CO	CMS	7.375	-0.20769	0.35	0.0104	-0.2181	Apr-84
27	May-84	CONSUMERS POWER CO	CMS	8	0.084746	0	0.0103	0.0744	May-84
27	Jun-84	CONSUMERS POWER CO	CMS	6	-0.25	0	0.0106	-0.2606	Jun-84
27	Jul-84	CONSUMERS POWER CO	CMS	4.625	-0.22917	0	0.0116	-0.2408	Jul-84
27	Aug-84	CONSUMERS POWER CO	CMS	5.25	0.156757	0.1	0.0106	0.1462	Aug-84
27	Sep-84	CONSUMERS POWER CO	CMS	4.75	-0.09524	0	0.0094	-0.1046	Sep-84
27	Oct-84	CONSUMERS POWER CO	CMS	4.5	-0.05263	0	0.0108	-0.0634	Oct-84
27	Nov-84	CONSUMERS POWER CO	CMS	4.875	0.083333	0	0.0091	0.0742	Nov-84
27	Dec-84	CONSUMERS POWER CO	CMS	4.625	-0.05128	0	0.0098	-0.0611	Dec-84
27	Jan-85	CONSUMERS POWER CO	CMS	6.375	0.378378	0	0.0096	0.3688	Jan-85
27	Feb-85	CONSUMERS POWER CO	CMS	6	-0.05882	0	0.0082	-0.0670	Feb-85
27	Mar-85	CONSUMERS POWER CO	CMS	6.875	0.145833	0	0.0094	0.1364	Mar-85
27	Apr-85	CONSUMERS POWER CO	CMS	6.625	-0.03636	0	0.0102	-0.0466	Apr-85
27	May-85	CONSUMERS POWER CO	CMS	7	0.056604	0	0.0097	0.0469	May-85
27	Jun-85	CONSUMERS POWER CO	CMS	8.125	0.160714	0	0.0080	0.1527	Jun-85
27	Jul-85	CONSUMERS POWER CO	CMS	7.75	-0.04615	0	0.0094	-0.0556	Jul-85
27	Aug-85	CONSUMERS POWER CO	CMS	7.5	-0.03226	0	0.0085	-0.0408	Aug-85
27	Sep-85	CONSUMERS POWER CO	CMS	6.875	-0.08333	0	0.0088	-0.0921	Sep-85

27	Oct-85	CONSUMERS POWER CO	CMS	7.25	0.054545	0	0.0089	0.0456	Oct-85
27	Nov-85	CONSUMERS POWER CO	CMS	8.125	0.12069	0	0.0081	0.1126	Nov-85
27	Dec-85	CONSUMERS POWER CO	CMS	7.5	-0.07692	0	0.0086	-0.0855	Dec-85
27	Jan-86	CONSUMERS POWER CO	CMS	10.5	0.4	0	0.0079	0.3921	Jan-86
27	Feb-86	CONSUMERS POWER CO	CMS	12.125	0.154762	0	0.0073	0.1475	Feb-86
27	Mar-86	CONSUMERS POWER CO	CMS	13.875	0.14433	0	0.0071	0.1372	Mar-86
27	Apr-86	CONSUMERS POWER CO	CMS	12.625	-0.09009	0	0.0063	-0.0964	Apr-86
27	May-86	CONSUMERS POWER CO	CMS	12.25	-0.0297	0	0.0062	-0.0359	May-86
27	Jun-86	CONSUMERS POWER CO	CMS	11.875	-0.03061	0	0.0070	-0.0376	Jun-86
27	Jul-86	CONSUMERS POWER CO	CMS	11.875	0	0	0.0066	-0.0066	Jul-86
27	Aug-86	CONSUMERS POWER CO	CMS	12.5	0.052632	0	0.0063	0.0463	Aug-86
27	Sep-86	CONSUMERS POWER CO	CMS	13	0.04	0	0.0065	0.0335	Sep-86
27	Oct-86	CONSUMERS POWER CO	CMS	15.125	0.163462	0	0.0069	0.1566	Oct-86
27	Nov-86	CONSUMERS POWER CO	CMS	16	0.057851	0	0.0059	0.0520	Nov-86
27	Dec-86	CONSUMERS POWER CO	CMS	15.625	-0.02344	0	0.0070	-0.0304	Dec-86
27	Jan-87	CONSUMERS POWER CO	CMS	17.375	0.112	0	0.0064	0.1056	Jan-87
27	Feb-87	CONSUMERS POWER CO	CMS	17.875	0.028777	0	0.0059	0.0229	Feb-87
27	Mar-87	CONSUMERS POWER CO	CMS	18.5	0.034965	0	0.0066	0.0284	Mar-87
27	Apr-87	CONSUMERS POWER CO	CMS	18.875	0.02027	0	0.0065	0.0138	Apr-87
27	May-87	C M S ENERGY CORP	CMS	18.75	-0.00662	0	0.0066	-0.0132	May-87
27	Jun-87	C M S ENERGY CORP	CMS	18.5	-0.01333	0	0.0075	-0.0208	Jun-87
27	Jul-87	C M S ENERGY CORP	CMS	16.75	-0.0946	0	0.0073	-0.1019	Jul-87
27	Aug-87	C M S ENERGY CORP	CMS	17.375	0.037313	0	0.0075	0.0298	Aug-87
27	Sep-87	C M S ENERGY CORP	CMS	15.875	-0.08633	0	0.0075	-0.0938	Sep-87
27	Oct-87	C M S ENERGY CORP	CMS	14.125	-0.11024	0	0.0079	-0.1181	Oct-87
27	Nov-87	C M S ENERGY CORP	CMS	13.125	-0.0708	0	0.0075	-0.0783	Nov-87
27	Dec-87	C M S ENERGY CORP	CMS	13.5	0.028571	0	0.0078	0.0208	Dec-87
27	Jan-88	C M S ENERGY CORP	CMS	14.875	0.101852	0	0.0072	0.0947	Jan-88
27	Feb-88	C M S ENERGY CORP	CMS	16.75	0.12605	0	0.0071	0.1190	Feb-88
27	Mar-88	C M S ENERGY CORP	CMS	16.75	0	0	0.0072	-0.0072	Mar-88
27	Apr-88	C M S ENERGY CORP	CMS	18.125	0.08209	0	0.0070	0.0751	Apr-88
27	May-88	C M S ENERGY CORP	CMS	18.5	0.02069	0	0.0078	0.0129	May-88
27	Jun-88	C M S ENERGY CORP	CMS	21.75	0.175676	0	0.0076	0.1681	Jun-88
27	Jul-88	C M S ENERGY CORP	CMS	20.5	-0.05747	0	0.0071	-0.0646	Jul-88
27	Aug-88	C M S ENERGY CORP	CMS	21.25	0.036585	0	0.0083	0.0283	Aug-88
27	Sep-88	C M S ENERGY CORP	CMS	22.875	0.076471	0	0.0076	0.0689	Sep-88

27	Oct-88	C M S ENERGY CORP	CMS	25.125	0.098361	0	0.0076	0.0908	Oct-88
27	Nov-88	C M S ENERGY CORP	CMS	24	-0.04478	0	0.0070	-0.0518	Nov-88
27	Dec-88	C M S ENERGY CORP	CMS	24.375	0.015625	0	0.0075	0.0081	Dec-88
27	Jan-89	C M S ENERGY CORP	CMS	24	-0.01539	0	0.0080	-0.0234	Jan-89
27	Feb-89	C M S ENERGY CORP	CMS	23.75	-0.01042	0	0.0069	-0.0173	Feb-89
27	Mar-89	C M S ENERGY CORP	CMS	25	0.052632	0	0.0079	0.0447	Mar-89
27	Apr-89	C M S ENERGY CORP	CMS	28.25	0.13	0	0.0070	0.1230	Apr-89
27	May-89	C M S ENERGY CORP	CMS	29	0.026549	0	0.0080	0.0185	May-89
27	Jun-89	C M S ENERGY CORP	CMS	31	0.068966	0	0.0070	0.0620	Jun-89
27	Jul-89	C M S ENERGY CORP	CMS	35	0.129032	0	0.0068	0.1222	Jul-89
27	Aug-89	C M S ENERGY CORP	CMS	34	-0.02857	0	0.0066	-0.0352	Aug-89
27	Sep-89	C M S ENERGY CORP	CMS	35.125	0.033088	0	0.0065	0.0266	Sep-89
27	Oct-89	C M S ENERGY CORP	CMS	34.125	-0.02847	0	0.0072	-0.0357	Oct-89
27	Nov-89	C M S ENERGY CORP	CMS	34.375	0.010256	0.1	0.0064	0.0039	Nov-89
27	Dec-89	C M S ENERGY CORP	CMS	38	0.105455	0	0.0064	0.0991	Dec-89
27	Jan-90	C M S ENERGY CORP	CMS	33.75	-0.10921	0.1	0.0073	-0.1165	Jan-90
27	Feb-90	C M S ENERGY CORP	CMS	33.125	-0.01852	0	0.0066	-0.0251	Feb-90
27	Mar-90	C M S ENERGY CORP	CMS	32.375	-0.02264	0	0.0071	-0.0297	Mar-90
27	Apr-90	C M S ENERGY CORP	CMS	29.375	-0.09266	0	0.0075	-0.1002	Apr-90
27	May-90	C M S ENERGY CORP	CMS	29.25	-0.00085	0.1	0.0075	-0.0084	May-90
27	Jun-90	C M S ENERGY CORP	CMS	31.875	0.089744	0	0.0068	0.0829	Jun-90
27	Jul-90	C M S ENERGY CORP	CMS	31.5	-0.00863	0.1	0.0074	-0.0160	Jul-90
27	Aug-90	C M S ENERGY CORP	CMS	29.25	-0.07143	0	0.0071	-0.0785	Aug-90
27	Sep-90	C M S ENERGY CORP	CMS	28.5	-0.02564	0	0.0069	-0.0325	Sep-90
27	Oct-90	C M S ENERGY CORP	CMS	26.25	-0.07474	0.12	0.0081	-0.0828	Oct-90
27	Nov-90	C M S ENERGY CORP	CMS	26.875	0.02381	0	0.0071	0.0167	Nov-90
27	Dec-90	C M S ENERGY CORP	CMS	27.875	0.037209	0	0.0072	0.0300	Dec-90
27	Jan-91	C M S ENERGY CORP	CMS	29.25	0.053632	0.12	0.0071	0.0465	Jan-91
27	Feb-91	C M S ENERGY CORP	CMS	31	0.059829	0	0.0064	0.0534	Feb-91
27	Mar-91	C M S ENERGY CORP	CMS	30	-0.03226	0	0.0064	-0.0387	Mar-91
27	Apr-91	C M S ENERGY CORP	CMS	27.75	-0.071	0.12	0.0076	-0.0786	Apr-91
27	May-91	C M S ENERGY CORP	CMS	26.5	-0.04505	0	0.0068	-0.0518	May-91
27	Jun-91	C M S ENERGY CORP	CMS	25.375	-0.04245	0	0.0063	-0.0488	Jun-91
27	Jul-91	C M S ENERGY CORP	CMS	21.75	-0.13813	0.12	0.0076	-0.1457	Jul-91
27	Aug-91	C M S ENERGY CORP	CMS	20.875	-0.04023	0	0.0068	-0.0470	Aug-91
27	Sep-91	C M S ENERGY CORP	CMS	19	-0.08982	0	0.0068	-0.0966	Sep-91

27	Oct-91	C M S ENERGY CORP	CMS	17.625	-0.06605	0.12	0.0065	-0.0726	Oct-91
27	Nov-91	C M S ENERGY CORP	CMS	18	0.021277	0	0.0060	0.0153	Nov-91
27	Dec-91	C M S ENERGY CORP	CMS	18.375	0.020833	0	0.0068	0.0140	Dec-91
27	Jan-92	C M S ENERGY CORP	CMS	19.5	0.067755	0.12	0.0061	0.0617	Jan-92
27	Feb-92	C M S ENERGY CORP	CMS	19	-0.02564	0	0.0059	-0.0315	Feb-92
27	Mar-92	C M S ENERGY CORP	CMS	21.125	0.111842	0	0.0067	0.1051	Mar-92
27	Apr-92	C M S ENERGY CORP	CMS	15	-0.28426	0.12	0.0065	-0.2908	Apr-92
27	May-92	C M S ENERGY CORP	CMS	15.875	0.058333	0	0.0061	0.0522	May-92
27	Jun-92	C M S ENERGY CORP	CMS	15.875	0	0	0.0067	-0.0067	Jun-92
27	Jul-92	C M S ENERGY CORP	CMS	16.5	0.046929	0.12	0.0063	0.0406	Jul-92
27	Aug-92	C M S ENERGY CORP	CMS	16	-0.0303	0	0.0060	-0.0363	Aug-92
27	Sep-92	C M S ENERGY CORP	CMS	17.375	0.085938	0	0.0058	0.0801	Sep-92
27	Oct-92	C M S ENERGY CORP	CMS	17.375	0.006906	0.12	0.0057	0.0012	Oct-92
27	Nov-92	C M S ENERGY CORP	CMS	18.125	0.043165	0	0.0061	0.0371	Nov-92
27	Dec-92	C M S ENERGY CORP	CMS	18.375	0.013793	0	0.0063	0.0075	Dec-92
27	Jan-93	C M S ENERGY CORP	CMS	19.5	0.061224	0	0.0059	0.0553	Jan-93
27	Feb-93	C M S ENERGY CORP	CMS	20.5	0.057436	0.12	0.0055	0.0519	Feb-93
27	Mar-93	C M S ENERGY CORP	CMS	19.75	-0.03659	0	0.0063	-0.0429	Mar-93
27	Apr-93	C M S ENERGY CORP	CMS	22.125	0.120253	0	0.0057	0.1146	Apr-93
27	May-93	C M S ENERGY CORP	CMS	23.625	0.07322	0.12	0.0052	0.0680	May-93
27	Jun-93	C M S ENERGY CORP	CMS	24.875	0.05291	0	0.0062	0.0467	Jun-93
27	Jul-93	C M S ENERGY CORP	CMS	26.375	0.060302	0	0.0054	0.0549	Jul-93
27	Aug-93	C M S ENERGY CORP	CMS	27.125	0.035261	0.18	0.0056	0.0297	Aug-93
27	Sep-93	C M S ENERGY CORP	CMS	26.5	-0.02304	0	0.0050	-0.0280	Sep-93
27	Oct-93	C M S ENERGY CORP	CMS	26.375	0.002075	0.18	0.0049	-0.0028	Oct-93
27	Nov-93	C M S ENERGY CORP	CMS	25.25	-0.04265	0	0.0053	-0.0480	Nov-93
27	Dec-93	C M S ENERGY CORP	CMS	25.125	-0.00495	0	0.0055	-0.0105	Dec-93
27	Jan-94	C M S ENERGY CORP	CMS	24.25	-0.03483	0	0.0055	-0.0403	Jan-94
27	Feb-94	C M S ENERGY CORP	CMS	22.75	-0.05443	0.18	0.0049	-0.0593	Feb-94
27	Mar-94	C M S ENERGY CORP	CMS	22.5	-0.01099	0	0.0058	-0.0168	Mar-94
27	Apr-94	C M S ENERGY CORP	CMS	22.25	-0.01111	0	0.0057	-0.0168	Apr-94
27	May-94	C M S ENERGY CORP	CMS	22.625	0.024944	0.18	0.0063	0.0186	May-94
27	Jun-94	C M S ENERGY CORP	CMS	20.875	-0.07735	0	0.0061	-0.0834	Jun-94
27	Jul-94	C M S ENERGY CORP	CMS	22.375	0.071856	0	0.0060	0.0659	Jul-94
27	Aug-94	C M S ENERGY CORP	CMS	22.5	0.014972	0.21	0.0066	0.0084	Aug-94
27	Sep-94	C M S ENERGY CORP	CMS	21.75	-0.03333	0	0.0061	-0.0394	Sep-94

27	Oct-94	C M S ENERGY CORP	CMS	23	0.057471	0	0.0066	0.0509	Oct-94
27	Nov-94	C M S ENERGY CORP	CMS	22.25	-0.02348	0.21	0.0064	-0.0299	Nov-94
27	Dec-94	C M S ENERGY CORP	CMS	22.875	0.02809	0	0.0066	0.0215	Dec-94
27	Jan-95	C M S ENERGY CORP	CMS	23.5	0.027322	0	0.0070	0.0203	Jan-95
27	Feb-95	C M S ENERGY CORP	CMS	24	0.030213	0.21	0.0059	0.0243	Feb-95
27	Mar-95	C M S ENERGY CORP	CMS	23.375	-0.02604	0	0.0064	-0.0324	Mar-95
27	Apr-95	C M S ENERGY CORP	CMS	23.25	-0.00535	0	0.0058	-0.0111	Apr-95
27	May-95	C M S ENERGY CORP	CMS	24.125	0.046667	0.21	0.0065	0.0402	May-95
27	Jun-95	C M S ENERGY CORP	CMS	24.5	0.015544	0	0.0054	0.0101	Jun-95
27	Jul-95	C M S ENERGY CORP	CMS	25	0.020408	0	0.0056	0.0148	Jul-95
27	Aug-95	C M S ENERGY CORP	CMS	24.625	-0.0054	0.24	0.0057	-0.0111	Aug-95
27	Sep-95	C M S ENERGY CORP	CMS	26.25	0.06599	0	0.0052	0.0608	Sep-95
27	Oct-95	C M S ENERGY CORP	CMS	27.625	0.052381	0	0.0057	0.0467	Oct-95
27	Nov-95	C M S ENERGY CORP	CMS	27.25	-0.00489	0.24	0.0051	-0.0100	Nov-95
27	Dec-95	C M S ENERGY CORP	CMS	29.875	0.09633	0	0.0049	0.0914	Dec-95
27	Jan-96	C M S ENERGY CORP	CMS	31.125	0.041841	0	0.0054	0.0364	Jan-96
27	Feb-96	C M S ENERGY CORP	CMS	30.375	-0.01639	0.24	0.0048	-0.0212	Feb-96
27	Mar-96	C M S ENERGY CORP	CMS	29.5	-0.02881	0	0.0052	-0.0340	Mar-96
27	Apr-96	C M S ENERGY CORP	CMS	29.125	-0.01271	0	0.0059	-0.0186	Apr-96
27	May-96	C M S ENERGY CORP	CMS	28.75	-0.00464	0.24	0.0058	-0.0104	May-96
27	Jun-96	C M S ENERGY CORP	CMS	30.875	0.073913	0	0.0054	0.0685	Jun-96
27	Jul-96	C M S ENERGY CORP	CMS	30.375	-0.01619	0	0.0062	-0.0224	Jul-96
27	Aug-96	C M S ENERGY CORP	CMS	29.875	-0.00757	0.27	0.0057	-0.0133	Aug-96
27	Sep-96	C M S ENERGY CORP	CMS	30.125	0.008368	0	0.0060	0.0024	Sep-96
27	Oct-96	C M S ENERGY CORP	CMS	31.625	0.049793	0	0.0058	0.0440	Oct-96
27	Nov-96	C M S ENERGY CORP	CMS	32.5	0.036206	0.27	0.0052	0.0310	Nov-96
27	Dec-96	C M S ENERGY CORP	CMS	33.625	0.034615	0	0.0056	0.0290	Dec-96
27	Jan-97	C M S ENERGY CORP	CMS	33.5	0.004312	0.27	0.0056	-0.0013	Jan-97
27	Feb-97	C M S ENERGY CORP	CMS	32.75	-0.02239	0	0.0051	-0.0275	Feb-97
27	Mar-97	C M S ENERGY CORP	CMS	32.875	0.003817	0	0.0059	-0.0021	Mar-97
27	Apr-97	C M S ENERGY CORP	CMS	31.75	-0.03422	0	0.0059	-0.0401	Apr-97
27	May-97	C M S ENERGY CORP	CMS	33.625	0.067559	0.27	0.0058	0.0618	May-97
27	Jun-97	C M S ENERGY CORP	CMS	35.25	0.048327	0	0.0059	0.0424	Jun-97
27	Jul-97	C M S ENERGY CORP	CMS	37	0.058156	0.3	0.0058	0.0524	Jul-97
27	Aug-97	C M S ENERGY CORP	CMS	35.9375	-0.02872	0	0.0049	-0.0336	Aug-97
27	Sep-97	C M S ENERGY CORP	CMS	37	0.029565	0	0.0058	0.0238	Sep-97

27	Oct-97	C M S ENERGY CORP	CMS	36.5	-0.00541	0.3	0.0054	-0.0108	Oct-97
27	Nov-97	C M S ENERGY CORP	CMS	39.375	0.078767	0	0.0047	0.0741	Nov-97
27	Dec-97	C M S ENERGY CORP	CMS	44.0625	0.119048	0	0.0054	0.1136	Dec-97
27	Jan-98	C M S ENERGY CORP	CMS	42.5625	-0.02723	0.3	0.0048	-0.0320	Jan-98
27	Feb-98	C M S ENERGY CORP	CMS	44.25	0.039648	0	0.0044	0.0352	Feb-98
27	Mar-98	C M S ENERGY CORP	CMS	46.9375	0.060734	0	0.0052	0.0555	Mar-98
27	Apr-98	C M S ENERGY CORP	CMS	43.6875	-0.06285	0.3	0.0049	-0.0678	Apr-98
27	May-98	C M S ENERGY CORP	CMS	43.5625	-0.00286	0	0.0048	-0.0077	May-98
27	Jun-98	C M S ENERGY CORP	CMS	44	0.010043	0	0.0052	0.0048	Jun-98
27	Jul-98	C M S ENERGY CORP	CMS	42.1875	-0.04119	0	0.0049	-0.0461	Jul-98
27	Aug-98	C M S ENERGY CORP	CMS	42.3125	0.010785	0.33	0.0048	0.0060	Aug-98
27	Sep-98	C M S ENERGY CORP	CMS	43.5625	0.029542	0	0.0044	0.0251	Sep-98
27	Oct-98	C M S ENERGY CORP	CMS	44.0625	0.019053	0.33	0.0042	0.0149	Oct-98
27	Nov-98	C M S ENERGY CORP	CMS	48.75	0.106383	0	0.0045	0.1019	Nov-98
27	Dec-98	C M S ENERGY CORP	CMS	48.4375	-0.00641	0	0.0045	-0.0109	Dec-98
27	Jan-99	C M S ENERGY CORP	CMS	42.8125	-0.10932	0.33	0.0042	-0.1135	Jan-99
27	Feb-99	C M S ENERGY CORP	CMS	41.375	-0.03358	0	0.0040	-0.0376	Feb-99
27	Mar-99	C M S ENERGY CORP	CMS	40.25	-0.02719	0	0.0053	-0.0325	Mar-99
27	Apr-99	C M S ENERGY CORP	CMS	43.8125	0.096708	0.33	0.0048	0.0919	Apr-99
27	May-99	C M S ENERGY CORP	CMS	46.5	0.061341	0	0.0045	0.0568	May-99
27	Jun-99	C M S ENERGY CORP	CMS	41.875	-0.09946	0	0.0055	-0.1050	Jun-99
27	Jul-99	C M S ENERGY CORP	CMS	37.375	-0.09875	0.365	0.0051	-0.1038	Jul-99
27	Aug-99	C M S ENERGY CORP	CMS	39.5625	0.058528	0	0.0054	0.0531	Aug-99
27	Sep-99	C M S ENERGY CORP	CMS	33.9375	-0.14218	0	0.0052	-0.1474	Sep-99
27	Oct-99	C M S ENERGY CORP	CMS	36.875	0.086556	0	0.0050	0.0816	Oct-99
27	Nov-99	C M S ENERGY CORP	CMS	33.25	-0.08841	0.365	0.0056	-0.0940	Nov-99
27	Dec-99	C M S ENERGY CORP	CMS	31.1875	-0.06203	0	0.0055	-0.0675	Dec-99
27	Jan-00	C M S ENERGY CORP	CMS	30	-0.03808	0	0.0057	-0.0438	Jan-00
27	Feb-00	C M S ENERGY CORP	CMS	16.75	-0.4295	0.365	0.0051	-0.4346	Feb-00
27	Mar-00	C M S ENERGY CORP	CMS	18.125	0.08209	0	0.0054	0.0767	Mar-00
27	Apr-00	C M S ENERGY CORP	CMS	19	0.068414	0.365	0.0047	0.0637	Apr-00
27	May-00	C M S ENERGY CORP	CMS	22.75	0.197368	0	0.0056	0.1918	May-00
27	Jun-00	C M S ENERGY CORP	CMS	22.125	-0.02747	0	0.0052	-0.0327	Jun-00
27	Jul-00	C M S ENERGY CORP	CMS	25.5625	0.155367	0	0.0052	0.1502	Jul-00
27	Aug-00	C M S ENERGY CORP	CMS	26.125	0.036284	0.365	0.0050	0.0313	Aug-00
27	Sep-00	C M S ENERGY CORP	CMS	26.9375	0.0311	0	0.0046	0.0265	Sep-00

27	Oct-00	C M S ENERGY CORP	CMS	27	0.01587	0.365	0.0053	0.0106	Oct-00
27	Nov-00	C M S ENERGY CORP	CMS	27.8125	0.030093	0	0.0048	0.0253	Nov-00
27	Dec-00	C M S ENERGY CORP	CMS	31.6875	0.139326	0	0.0045	0.1348	Dec-00
27	Jan-01	C M S ENERGY CORP	CMS	29.5	-0.06903	0	0.0049	-0.0739	Jan-01
27	Feb-01	C M S ENERGY CORP	CMS	29.55	0.014068	0.365	0.0042	0.0099	Feb-01
27	Mar-01	C M S ENERGY CORP	CMS	29.59	0.001354	0	0.0045	-0.0031	Mar-01
27	Apr-01	C M S ENERGY CORP	CMS	31.3	0.05779	0	0.0047	0.0531	Apr-01
27	May-01	C M S ENERGY CORP	CMS	29.67	-0.04042	0.365	0.0050	-0.0454	May-01
27	Jun-01	C M S ENERGY CORP	CMS	27.85	-0.06134	0	0.0047	-0.0660	Jun-01
27	Jul-01	C M S ENERGY CORP	CMS	26.67	-0.04237	0	0.0052	-0.0476	Jul-01
27	Aug-01	C M S ENERGY CORP	CMS	23.46	-0.10667	0.365	0.0046	-0.1113	Aug-01
27	Sep-01	C M S ENERGY CORP	CMS	20	-0.14749	0	0.0041	-0.1516	Sep-01
27	Oct-01	C M S ENERGY CORP	CMS	21.51	0.0755	0	0.0048	0.0707	Oct-01
27	Nov-01	C M S ENERGY CORP	CMS	23.03	0.087634	0.365	0.0041	0.0835	Nov-01
27	Dec-01	C M S ENERGY CORP	CMS	24.03	0.043422	0	0.0046	0.0388	Dec-01
27	Jan-02	C M S ENERGY CORP	CMS	22.83	-0.04994	0	0.0048	-0.0547	Jan-02
27	Feb-02	C M S ENERGY CORP	CMS	21.8	-0.02913	0.365	0.0043	-0.0334	Feb-02
27	Mar-02	C M S ENERGY CORP	CMS	22.63	0.038073	0	0.0043	0.0338	Mar-02
27	Apr-02	C M S ENERGY CORP	CMS	19.36	-0.1445	0	0.0054	-0.1499	Apr-02
27	May-02	C M S ENERGY CORP	CMS	18.06	-0.0483	0.365	0.0049	-0.0532	May-02
27	Jun-02	C M S ENERGY CORP	CMS	10.98	-0.39203	0	0.0044	-0.3964	Jun-02
27	Jul-02	C M S ENERGY CORP	CMS	8.12	-0.26047	0	0.0051	-0.2656	Jul-02
27	Aug-02	C M S ENERGY CORP	CMS	10.56	0.32266	0.18	0.0044	0.3183	Aug-02
27	Sep-02	C M S ENERGY CORP	CMS	8.06	-0.23674	0	0.0042	-0.2409	Sep-02
27	Oct-02	C M S ENERGY CORP	CMS	7.83	-0.02854	0	0.0040	-0.0325	Oct-02
27	Nov-02	C M S ENERGY CORP	CMS	9.95	0.293742	0.18	0.0040	0.2897	Nov-02
27	Dec-02	C M S ENERGY CORP	CMS	9.44	-0.05126	0	0.0045	-0.0558	Dec-02
27	Jan-03	C M S ENERGY CORP	CMS	5.67	-0.39936	0	0.0041	-0.4035	Jan-03
27	Feb-03	C M S ENERGY CORP	CMS	4.5	-0.20635	0	0.0038	-0.2101	Feb-03
27	Mar-03	C M S ENERGY CORP	CMS	4.41	-0.02	0	0.0040	-0.0240	Mar-03
27	Apr-03	C M S ENERGY CORP	CMS	6.23	0.412698	0	0.0040	0.4087	Apr-03
27	May-03	C M S ENERGY CORP	CMS	7.92	0.271268	0	0.0039	0.2674	May-03
27	Jun-03	C M S ENERGY CORP	CMS	8.1	0.022727	0	0.0036	0.0191	Jun-03
27	Jul-03	C M S ENERGY CORP	CMS	6.5	-0.19753	0	0.0038	-0.2013	Jul-03
27	Aug-03	C M S ENERGY CORP	CMS	6.67	0.026154	0	0.0042	0.0220	Aug-03
27	Sep-03	C M S ENERGY CORP	CMS	7.37	0.104947	0	0.0046	0.1003	Sep-03

27	Oct-03	C M S ENERGY CORP	CMS	8.12	0.101764	0	0.0041	0.0977	Oct-03
27	Nov-03	C M S ENERGY CORP	CMS	7.89	-0.02833	0	0.0039	-0.0322	Nov-03
27	Dec-03	C M S ENERGY CORP	CMS	8.52	0.079848	0	0.0047	0.0751	Dec-03
27	Jan-04	C M S ENERGY CORP	CMS	8.78	0.030516	0	0.0042	0.0263	Jan-04
27	Feb-04	C M S ENERGY CORP	CMS	9.2	0.047836	0	0.0038	0.0440	Feb-04
27	Mar-04	C M S ENERGY CORP	CMS	8.95	-0.02717	0	0.0043	-0.0315	Mar-04
27	Apr-04	C M S ENERGY CORP	CMS	8.31	-0.07151	0	0.0039	-0.0754	Apr-04
27	May-04	C M S ENERGY CORP	CMS	8.62	0.037304	0	0.0040	0.0333	May-04
27	Jun-04	C M S ENERGY CORP	CMS	9.13	0.059165	0	0.0048	0.0544	Jun-04
27	Jul-04	C M S ENERGY CORP	CMS	9.03	-0.01095	0	0.0043	-0.0153	Jul-04
27	Aug-04	C M S ENERGY CORP	CMS	9.6	0.063123	0	0.0045	0.0586	Aug-04
27	Sep-04	C M S ENERGY CORP	CMS	9.52	-0.00833	0	0.0040	-0.0123	Sep-04
27	Oct-04	C M S ENERGY CORP	CMS	9.36	-0.01681	0	0.0038	-0.0206	Oct-04
27	Nov-04	C M S ENERGY CORP	CMS	10.2	0.089744	0	0.0041	0.0856	Nov-04
27	Dec-04	C M S ENERGY CORP	CMS	10.45	0.02451	0	0.0043	0.0202	Dec-04
27	Jan-05	C M S ENERGY CORP	CMS	10.53	0.007655	0	0.0041	0.0036	Jan-05
27	Feb-05	C M S ENERGY CORP	CMS	12.14	0.152897	0	0.0035	0.1494	Feb-05
27	Mar-05	C M S ENERGY CORP	CMS	13.04	0.074135	0	0.0041	0.0700	Mar-05
27	Apr-05	C M S ENERGY CORP	CMS	12.92	-0.0092	0	0.0039	-0.0131	Apr-05
27	May-05	C M S ENERGY CORP	CMS	13.23	0.023994	0	0.0040	0.0200	May-05
27	Jun-05	C M S ENERGY CORP	CMS	15.06	0.138322	0	0.0036	0.1347	Jun-05
27	Jul-05	C M S ENERGY CORP	CMS	15.84	0.051793	0	0.0034	0.0484	Jul-05
27	Aug-05	C M S ENERGY CORP	CMS	16.1	0.016414	0	0.0040	0.0124	Aug-05
27	Sep-05	C M S ENERGY CORP	CMS	16.45	0.021739	0	0.0035	0.0182	Sep-05
27	Oct-05	C M S ENERGY CORP	CMS	14.91	-0.09362	0	0.0039	-0.0975	Oct-05
27	Nov-05	C M S ENERGY CORP	CMS	13.98	-0.06237	0	0.0039	-0.0663	Nov-05
27	Dec-05	C M S ENERGY CORP	CMS	14.51	0.037911	0	0.0039	0.0340	Dec-05
27	Jan-06	C M S ENERGY CORP	CMS	14.47	-0.00276	0	0.0040	-0.0068	Jan-06
27	Feb-06	C M S ENERGY CORP	CMS	14.08	-0.02695	0	0.0036	-0.0306	Feb-06
27	Mar-06	C M S ENERGY CORP	CMS	12.95	-0.08026	0	0.0039	-0.0842	Mar-06
27	Apr-06	C M S ENERGY CORP	CMS	13.32	0.028571	0	0.0039	0.0247	Apr-06
27	May-06	C M S ENERGY CORP	CMS	12.84	-0.03604	0	0.0048	-0.0408	May-06
27	Jun-06	C M S ENERGY CORP	CMS	12.94	0.007788	0	0.0044	0.0034	Jun-06
27	Jul-06	C M S ENERGY CORP	CMS	14.01	0.082689	0	0.0045	0.0782	Jul-06
27	Aug-06	C M S ENERGY CORP	CMS	14.64	0.044968	0	0.0043	0.0407	Aug-06
27	Sep-06	C M S ENERGY CORP	CMS	14.44	-0.01366	0	0.0039	-0.0176	Sep-06

27	Oct-06	C M S ENERGY CORP	CMS	14.89	0.031163	0	0.0042	0.0270	Oct-06
27	Nov-06	C M S ENERGY CORP	CMS	16.21	0.08865	0	0.0039	0.0848	Nov-06
27	Dec-06	C M S ENERGY CORP	CMS	16.7	0.030228	0	0.0036	0.0266	Dec-06
27	Jan-07	C M S ENERGY CORP	CMS	16.69	-0.0006	0	0.0043	-0.0049	Jan-07
27	Feb-07	C M S ENERGY CORP	CMS	17.45	0.048532	0.05	0.0038	0.0447	Feb-07
27	Mar-07	C M S ENERGY CORP	CMS	17.8	0.020057	0	0.0039	0.0162	Mar-07
27	Apr-07	C M S ENERGY CORP	CMS	18.52	0.04045	0	0.0042	0.0363	Apr-07
27	May-07	C M S ENERGY CORP	CMS	18.25	-0.01188	0.05	0.0041	-0.0160	May-07
27	Jun-07	C M S ENERGY CORP	CMS	17.2	-0.05753	0	0.0040	-0.0615	Jun-07
27	Jul-07	C M S ENERGY CORP	CMS	16.16	-0.06047	0	0.0046	-0.0651	Jul-07
27	Aug-07	C M S ENERGY CORP	CMS	16.32	0.012995	0.05	0.0042	0.0088	Aug-07
27	Sep-07	C M S ENERGY CORP	CMS	16.82	0.030637	0	0.0037	0.0269	Sep-07
27	Oct-07	C M S ENERGY CORP	CMS	16.97	0.008918	0	0.0043	0.0046	Oct-07
27	Nov-07	C M S ENERGY CORP	CMS	17.43	0.030053	0.05	0.0039	0.0262	Nov-07
27	Dec-07	C M S ENERGY CORP	CMS	17.38	-0.00287	0	0.0037	-0.0066	Dec-07
27	Jan-08	C M S ENERGY CORP	CMS	15.67	-0.09839	0	0.0040	-0.1024	Jan-08
27	Feb-08	C M S ENERGY CORP	CMS	14.39	-0.07594	0.09	0.0034	-0.0793	Feb-08
27	Mar-08	C M S ENERGY CORP	CMS	13.54	-0.05907	0	0.0037	-0.0628	Mar-08
27	Apr-08	C M S ENERGY CORP	CMS	14.58	0.076809	0	0.0035	0.0733	Apr-08
27	May-08	C M S ENERGY CORP	CMS	15.59	0.075446	0.09	0.0037	0.0717	May-08
27	Jun-08	C M S ENERGY CORP	CMS	14.9	-0.04426	0	0.0040	-0.0483	Jun-08
27	Jul-08	C M S ENERGY CORP	CMS	13.5	-0.09396	0	0.0039	-0.0979	Jul-08
27	Aug-08	C M S ENERGY CORP	CMS	13.57	0.011852	0.09	0.0036	0.0083	Aug-08
27	Sep-08	C M S ENERGY CORP	CMS	12.47	-0.08106	0	0.0039	-0.0850	Sep-08
27	Oct-08	C M S ENERGY CORP	CMS	10.25	-0.17803	0	0.0037	-0.1817	Oct-08
27	Nov-08	C M S ENERGY CORP	CMS	10.16	0	0.09	0.0036	-0.0036	Nov-08
27	Dec-08	C M S ENERGY CORP	CMS	10.11	-0.00492	0	0.0033	-0.0082	Dec-08
27	Jan-09	C M S ENERGY CORP	CMS	11.75	0.162216	0	0.0024	0.1598	Jan-09
27	Feb-09	C M S ENERGY CORP	CMS	11.06	-0.04809	0.125	0.0030	-0.0511	Feb-09
27	Mar-09	C M S ENERGY CORP	CMS	11.84	0.070524	0	0.0035	0.0670	Mar-09
27	Apr-09	C M S ENERGY CORP	CMS	12.02	0.015203	0	0.0029	0.0123	Apr-09
27	May-09	C M S ENERGY CORP	CMS	11.34	-0.04617	0.125	0.0033	-0.0495	May-09
27	Jun-09	C M S ENERGY CORP	CMS	12.08	0.065256	0	0.0038	0.0615	Jun-09
27	Jul-09	C M S ENERGY CORP	CMS	12.94	0.071192	0	0.0036	0.0676	Jul-09
27	Aug-09	C M S ENERGY CORP	CMS	13.41	0.045981	0.125	0.0036	0.0424	Aug-09
27	Sep-09	C M S ENERGY CORP	CMS	13.4	-0.00075	0	0.0034	-0.0041	Sep-09

27	Oct-09	C M S ENERGY CORP	CMS	13.3	-0.00746	0	0.0033	-0.0108	Oct-09
27	Nov-09	C M S ENERGY CORP	CMS	14.24	0.080075	0.125	0.0035	0.0766	Nov-09
27	Dec-09	C M S ENERGY CORP	CMS	15.66	0.099719	0	0.0034	0.0963	Dec-09
27	Jan-10	C M S ENERGY CORP	CMS	15.17	-0.03129	0	0.0036	-0.0349	Jan-10
27	Feb-10	C M S ENERGY CORP	CMS	15.27	0.01648	0.15	0.0033	0.0132	Feb-10
27	Mar-10	C M S ENERGY CORP	CMS	15.46	0.012443	0	0.0040	0.0084	Mar-10
27	Apr-10	C M S ENERGY CORP	CMS	16.26	0.051746	0	0.0038	0.0479	Apr-10
27	May-10	C M S ENERGY CORP	CMS	14.68	-0.08795	0.15	0.0034	-0.0913	May-10
27	Jun-10	C M S ENERGY CORP	CMS	14.65	-0.00204	0	0.0037	-0.0057	Jun-10
27	Jul-10	C M S ENERGY CORP	CMS	15.92	0.086689	0	0.0031	0.0836	Jul-10
27	Aug-10	C M S ENERGY CORP	CMS	17.5	0.108668	0.15	0.0032	0.1055	Aug-10
27	Sep-10	C M S ENERGY CORP	CMS	18.02	0.029714	0	0.0026	0.0271	Sep-10
27	Oct-10	C M S ENERGY CORP	CMS	18.38	0.019978	0	0.0027	0.0173	Oct-10
27	Nov-10	C M S ENERGY CORP	CMS	17.97	-0.01088	0.21	0.0032	-0.0141	Nov-10
27	Dec-10	C M S ENERGY CORP	CMS	18.6	0.035058	0	0.0032	0.0319	Dec-10
27	Jan-11	C M S ENERGY CORP	CMS	19.5	0.048387	0	0.003567	0.0448	Jan-11
27	Feb-11	C M S ENERGY CORP	CMS	19.26	-0.00154	0.21	0.003683	-0.0052	Feb-11
27	Mar-11	C M S ENERGY CORP	CMS	19.64	0.01973	0	0.003558	0.0162	Mar-11
27	Apr-11	C M S ENERGY CORP	CMS	19.8	0.008147	0	0.003567	0.0046	Apr-11
27	May-11	C M S ENERGY CORP	CMS	19.94	0.017677	0.21	0.003342	0.0143	May-11
27	Jun-11	C M S ENERGY CORP	CMS	19.69	-0.01254	0	0.003258	-0.0158	Jun-11
27	Jul-11	C M S ENERGY CORP	CMS	19.14	-0.02793	0	0.003292	-0.0312	Jul-11
27	Aug-11	C M S ENERGY CORP	CMS	19.7	0.04023	0.21	0.003042	0.0372	Aug-11
27	Sep-11	C M S ENERGY CORP	CMS	19.79	0.004569	0	0.002358	0.0022	Sep-11
27	Oct-11	C M S ENERGY CORP	CMS	20.82	0.052046	0	0.002392	0.0497	Oct-11
27	Nov-11	C M S ENERGY CORP	CMS	20.92	0.01489	0.21	0.002267	0.0126	Nov-11
27	Dec-11	C M S ENERGY CORP	CMS	22.08	0.055449	0	0.002483	0.0530	Dec-11
27	Jan-12	C M S ENERGY CORP	CMS	21.83	-0.01132	0	0.0021	-0.0134	Jan-12
27	Feb-12	C M S ENERGY CORP	CMS	21.41	-0.00825	0.24	0.002	-0.0102	Feb-12
27	Mar-12	C M S ENERGY CORP	CMS	22	0.027557	0	0.0022	0.0254	Mar-12
27	Apr-12	C M S ENERGY CORP	CMS	22.99	0.045	0	0.0025	0.0425	Apr-12
27	May-12	C M S ENERGY CORP	CMS	23.3	0.023923	0.24	0.0023	0.0216	May-12
27	Jun-12	C M S ENERGY CORP	CMS	23.5	0.008584	0	0.0018	0.0068	Jun-12
	Jul-12	C M S ENERGY CORP	CMS	24.66	0.049362	0	0.002	0.0474	Jul-12
	Aug-12	C M S ENERGY CORP	CMS	23.07	-0.05474	0.24	0.0018	-0.0565	Aug-12
	Sep-12	C M S ENERGY CORP	CMS	23.55	0.020806	0	0.0017	0.0191	Sep-12

Oct-12	C M S ENERGY CORP	CMS	24.32	0.042887	0.24	0.0021	0.0408	Oct-12
Nov-12	C M S ENERGY CORP	CMS	24.43	0.004523	0	0.0019	0.0026	Nov-12
Dec-12	C M S ENERGY CORP	CMS	24.38	-0.00205	0	0.0019	-0.0039	Dec-12
Jan-13	C M S ENERGY CORP	CMS	25.7	0.054143	0	0.0022	0.0519	Jan-13
Feb-13	C M S ENERGY CORP	CMS	26.61	0.045331	0.255	0.0022	0.0431	Feb-13
Mar-13	C M S ENERGY CORP	CMS	27.94	0.049981	0	0.0021	0.0479	Mar-13
Apr-13	C M S ENERGY CORP	CMS	29.94	0.071582	0	0.0026	0.0690	Apr-13
May-13	C M S ENERGY CORP	CMS	26.95	-0.09135	0.255	0.0023	-0.0936	May-13
Jun-13	C M S ENERGY CORP	CMS	27.17	0.008163	0	0.0024	0.0058	Jun-13
Jul-13	C M S ENERGY CORP	CMS	27.99	0.039566	0.255	0.003	0.0366	Jul-13
Aug-13	C M S ENERGY CORP	CMS	26.53	-0.05216	0	0.0028	-0.0550	Aug-13
Sep-13	C M S ENERGY CORP	CMS	26.32	-0.00792	0	0.0029	-0.0108	Sep-13
Oct-13	C M S ENERGY CORP	CMS	27.46	0.053002	0.255	0.0029	0.0501	Oct-13
Nov-13	C M S ENERGY CORP	CMS	26.54	-0.0335	0	0.0027	-0.0362	Nov-13
Dec-13	C M S ENERGY CORP	CMS	26.77	0.008666	0	0.0031	0.0056	Dec-13
Jan-14	C M S ENERGY CORP	CMS	27.79	0.038102	0	0.0032	0.0349	Jan-14
Feb-14	C M S ENERGY CORP	CMS	28.43	0.032746	0.27	0.0026	0.0301	Feb-14
Mar-14	C M S ENERGY CORP	CMS	29.28	0.029898	0	0.0029	0.0270	Mar-14
Apr-14	C M S ENERGY CORP	CMS	30.31	0.044399	0.27	0.0028	0.0416	Apr-14
May-14	C M S ENERGY CORP	CMS	29.75	-0.01848	0	0.0028	-0.0213	May-14
Jun-14	C M S ENERGY CORP	CMS	31.15	0.047059	0	0.0025	0.0446	Jun-14
Jul-14	C M S ENERGY CORP	CMS	28.93	-0.0626	0.27	0.0027	-0.0653	Jul-14
Aug-14	C M S ENERGY CORP	CMS	30.54	0.055652	0	0.0026	0.0531	Aug-14
Sep-14	C M S ENERGY CORP	CMS	29.66	-0.02881	0	0.0023	-0.0311	Sep-14
Oct-14	C M S ENERGY CORP	CMS	32.67	0.101483	0	0.0025	0.0990	Oct-14
Nov-14	C M S ENERGY CORP	CMS	33.1	0.021426	0.27	0.0023	0.0191	Nov-14
Dec-14	C M S ENERGY CORP	CMS	34.75	0.049849	0	0.0022	0.0476	Dec-14
Jan-15	C M S ENERGY CORP	CMS	37.73	0.085755	0	0.002	0.0838	Jan-15
Feb-15	C M S ENERGY CORP	CMS	35.13	-0.06122	0.29	0.0015	-0.0627	Feb-15
Mar-15	C M S ENERGY CORP	CMS	34.91	-0.00626	0	0.0021	-0.0084	Mar-15
Apr-15	C M S ENERGY CORP	CMS	33.93	-0.02807	0	0.0019	-0.0300	Apr-15
May-15	C M S ENERGY CORP	CMS	34.14	0.014736	0.29	0.002	0.0127	May-15
Jun-15	C M S ENERGY CORP	CMS	31.84	-0.06737	0	0.0023	-0.06967	Jun-15
Jul-15	C M S ENERGY CORP	CMS	34.26	0.076005	0	0.0024	0.073605	Jul-15
Aug-15	C M S ENERGY CORP	CMS	32.78	-0.03473	0.29	0.0022	-0.036934	Aug-15
Sep-15	C M S ENERGY CORP	CMS	35.32	0.077486	0	0.0021	0.075386	Sep-15

Oct-15	C M S ENERGY CORP	CMS	36.07	0.021234	0	0.0021	0.019134	Oct-15
Nov-15	C M S ENERGY CORP	CMS	35.02	-0.02107	0.29	0.0022	-0.02327	Nov-15
Dec-15	C M S ENERGY CORP	CMS	36.08	0.030268	0	0.0022	0.028068	Dec-15
Jan-16	C M S ENERGY CORP	CMS	38.88	0.077605	0	0.0021	0.075505	Jan-16
Feb-16	C M S ENERGY CORP	CMS	39.56	0.025463	0.31	0.002	0.023463	Feb-16
Mar-16	C M S ENERGY CORP	CMS	42.44	0.072801	0	0.0018	0.071001	Mar-16
Apr-16	C M S ENERGY CORP	CMS	40.68	-0.04147	0	0.0017	-0.04317	Apr-16
May-16	C M S ENERGY CORP	CMS	41.82	0.035644	0.31	0.002	0.033644	May-16
Jun-16	C M S ENERGY CORP	CMS	45.86	0.096604	0	0.0018	0.094804	Jun-16
Jul-16	C M S ENERGY CORP	CMS	45.18	-0.01483	0	0.0014	-0.016228	Jul-16
Aug-16	C M S ENERGY CORP	CMS	41.97	-0.06419	0.31	0.0016	-0.065788	Aug-16
Sep-16	C M S ENERGY CORP	CMS	42.01	0.000953	0	0.0015	-0.000547	Sep-16
Oct-16	C M S ENERGY CORP	CMS	42.15	0.003333	0	0.0016	0.001733	Oct-16
Nov-16	C M S ENERGY CORP	CMS	40.22	-0.03843	0.31	0.0018	-0.040234	Nov-16
Dec-16	C M S ENERGY CORP	CMS	41.62	0.034809	0	0.0022	0.032609	Dec-16
Jan-17	C M S ENERGY CORP	CMS	42.6	0.023546	0	0.0024	0.021146	Jan-17
Feb-17	C M S ENERGY CORP	CMS	44.52	0.052876	0.3325	0.0021	0.050776	Feb-17
Mar-17	C M S ENERGY CORP	CMS	44.74	0.004942	0	0.0023	0.002642	Mar-17
Apr-17	C M S ENERGY CORP	CMS	45.4	0.014752	0	0.0021	0.012652	Apr-17
May-17	C M S ENERGY CORP	CMS	47.41	0.051597	0.3325	0.0024	0.049197	May-17
Jun-17	C M S ENERGY CORP	CMS	46.25	-0.02447	0	0.0021	-0.026567	Jun-17
Jul-17	C M S ENERGY CORP	CMS	46.24	-0.00022	0	0.0022	-0.002416	Jul-17
Aug-17	C M S ENERGY CORP	CMS	48.54	0.056931	0.3325	0.0022	0.054731	Aug-17
Sep-17	C M S ENERGY CORP	CMS	46.32	-0.04574	0	0.0019	-0.047635	Sep-17
Oct-17	C M S ENERGY CORP	CMS	48.37	0.044257	0	0.0022	0.042057	Oct-17
Nov-17	C M S ENERGY CORP	CMS	49.9	0.038505	0.3325	0.0021	0.036405	Nov-17
Dec-17	C M S ENERGY CORP	CMS	47.3	-0.0521	0	0.002	-0.054104	Dec-17
Jan-18	C M S ENERGY CORP	CMS	44.75	-0.05391	0	0.0024	-0.056311	Jan-18
Feb-18	C M S ENERGY CORP	CMS	42.45	-0.04341	0.3575	0.0022	-0.045608	Feb-18
Mar-18	C M S ENERGY CORP	CMS	45.29	0.066902	0	0.0024	0.064502	Mar-18
Apr-18	C M S ENERGY CORP	CMS	47.19	0.041952	0	0.0025	0.039452	Apr-18
May-18	C M S ENERGY CORP	CMS	46.13	-0.01489	0.3575	0.0025	-0.017387	May-18
Jun-18	C M S ENERGY CORP	CMS	47.28	0.02493	0	0.0023	0.02263	Jun-18
Jul-18	C M S ENERGY CORP	CMS	48.34	0.02242	0	0.0025	0.01992	Jul-18
Aug-18	C M S ENERGY CORP	CMS	49.24	0.026014	0.3575	0.0025	0.023514	Aug-18
Sep-18	C M S ENERGY CORP	CMS	49	-0.00487	0	0.0022	-0.007074	Sep-18

Oct-18	C M S ENERGY CORP	CMS	49.52	0.010612	0	0.003	0.007612	Oct-18
Nov-18	C M S ENERGY CORP	CMS	52.09	0.059118	0.3575	0.0028	0.056318	Nov-18
Dec-18	C M S ENERGY CORP	CMS	49.65	-0.04684	0	0.0027	-0.049542	Dec-18
Jan-19	C M S ENERGY CORP	CMS	52.14	0.057855	0.3825	0.0025	0.055355	Jan-19
Feb-19	C M S ENERGY CORP	CMS	54.4	0.043345	0	0.0022	0.041145	Feb-19
Mar-19	C M S ENERGY CORP	CMS	55.54	0.020956	0	0.0023	0.018656	Mar-19
Apr-19	C M S ENERGY CORP	CMS	55.55	0.00018	0	0.0023	-0.00212	Apr-19
May-19	C M S ENERGY CORP	CMS	56.11	0.016967	0.3825	0.0023	0.014667	May-19
Jun-19	C M S ENERGY CORP	CMS	57.91	0.03208	0	0.0018	0.03028	Jun-19
Jul-19	C M S ENERGY CORP	CMS	58.22	0.005353	0	0.0021	0.003253	Jul-19
Aug-19	C M S ENERGY CORP	CMS	63.05	0.089531	0.3825	0.0019	0.087631	Aug-19
Sep-19	C M S ENERGY CORP	CMS	63.95	0.014274	0	0.0015	0.012774	Sep-19
Oct-19	C M S ENERGY CORP	CMS	63.92	0.005512	0.3825	0.0016	0.003912	Oct-19
Nov-19	C M S ENERGY CORP	CMS	61.3	-0.04099	0	0.0016	-0.042589	Nov-19
Dec-19	C M S ENERGY CORP	CMS	62.84	0.025122	0	0.0018	0.023322	Dec-19
Jan-20	C M S ENERGY CORP	CMS	68.51	0.090229	0	0.002	0.088229	Jan-20
Feb-20	C M S ENERGY CORP	CMS	60.42	-0.11214	0.4075	0.0015	-0.113637	Feb-20
Mar-20	C M S ENERGY CORP	CMS	58.75	-0.02764	0	0.00123	-0.02887	Mar-20
Apr-20	C M S ENERGY CORP	CMS	57.09	-0.02826	0	0.0009	-0.029155	Apr-20
May-20	C M S ENERGY CORP	CMS	58.58	0.033237	0.4075	0.0009	0.032337	May-20
Jun-20	C M S ENERGY CORP	CMS	58.42	-0.00273	0	0.0009	-0.003631	Jun-20
Jul-20	C M S ENERGY CORP	CMS	64.18	0.098596	0	0.001	0.097596	Jul-20
Aug-20	C M S ENERGY CORP	CMS	60.49	-0.05115	0.4075	0.0008	-0.051945	Aug-20
Sep-20	C M S ENERGY CORP	CMS	61.41	0.015209	0	0	0.015209	Sep-20
Oct-20	C M S ENERGY CORP	CMS	63.33	0.031265	0	0.0009	0.030365	Oct-20
Nov-20	C M S ENERGY CORP	CMS	61.54	-0.02183	0.4075	0.0011	-0.02293	Nov-20
Dec-20	C M S ENERGY CORP	CMS	61.01	-0.00861	0	0.0011	-0.009712	Dec-20
Jan-21	C M S ENERGY CORP	CMS	56.88	-0.06769	0	0.001517	-0.06921	Jan-21
Feb-21	C M S ENERGY CORP	CMS	54.11	-0.04105	0.435	0.0017	-0.042751	Feb-21
Mar-21	C M S ENERGY CORP	CMS	61.22	0.131399	0	0.00195	0.129449	Mar-21
Apr-21	C M S ENERGY CORP	CMS	64.39	0.05178	0	0.001917	0.049864	Apr-21
May-21	C M S ENERGY CORP	CMS	62.74	-0.01887	0.435	0.001933	-0.020803	May-21
Jun-21	C M S ENERGY CORP	CMS	59.08	-0.05834	0	0.0018	-0.060136	Jun-21
Jul-21	C M S ENERGY CORP	CMS	61.79	0.04587	0	0.001617	0.044253	Jul-21
Aug-21	C M S ENERGY CORP	CMS	64.13	0.04491	0.435	0.0016	0.04331	Aug-21

Unique Index Number	Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP	Trading Date
	Jan-26						0.0031		Jan-26
	Feb-26						0.0028		Feb-26
	Mar-26						0.0032		Mar-26
	Apr-26						0.0030		Apr-26
	May-26						0.0028		May-26
	Jun-26						0.0033		Jun-26
	Jul-26						0.0031		Jul-26
	Aug-26						0.0031		Aug-26
	Sep-26						0.0030		Sep-26
	Oct-26						0.0030		Oct-26
	Nov-26						0.0031		Nov-26
	Dec-26						0.0030		Dec-26
	Jan-27						0.0030		Jan-27
	Feb-27						0.0027		Feb-27
	Mar-27						0.0029		Mar-27
	Apr-27						0.0027		Apr-27
	May-27						0.0028		May-27
	Jun-27						0.0027		Jun-27
	Jul-27						0.0027		Jul-27
	Aug-27						0.0029		Aug-27
	Sep-27						0.0027		Sep-27
	Oct-27						0.0028		Oct-27
	Nov-27						0.0027		Nov-27
	Dec-27						0.0027		Dec-27
	Jan-28						0.0027		Jan-28
	Feb-28						0.0025		Feb-28
	Mar-28						0.0027		Mar-28
	Apr-28						0.0026		Apr-28
	May-28						0.0027		May-28
	Jun-28						0.0027		Jun-28
	Jul-28						0.0027		Jul-28
	Aug-28						0.0029		Aug-28
	Sep-28						0.0027		Sep-28

Oct-28	0.0030	Oct-28
Nov-28	0.0027	Nov-28
Dec-28	0.0029	Dec-28
Jan-29	0.0029	Jan-29
Feb-29	0.0027	Feb-29
Mar-29	0.0028	Mar-29
Apr-29	0.0034	Apr-29
May-29	0.0030	May-29
Jun-29	0.0029	Jun-29
Jul-29	0.0032	Jul-29
Aug-29	0.0030	Aug-29
Sep-29	0.0032	Sep-29
Oct-29	0.0031	Oct-29
Nov-29	0.0026	Nov-29
Dec-29	0.0031	Dec-29
Jan-30	0.0029	Jan-30
Feb-30	0.0026	Feb-30
Mar-30	0.0029	Mar-30
Apr-30	0.0027	Apr-30
May-30	0.0027	May-30
Jun-30	0.0029	Jun-30
Jul-30	0.0028	Jul-30
Aug-30	0.0026	Aug-30
Sep-30	0.0029	Sep-30
Oct-30	0.0027	Oct-30
Nov-30	0.0026	Nov-30
Dec-30	0.0028	Dec-30
Jan-31	0.0028	Jan-31
Feb-31	0.0026	Feb-31
Mar-31	0.0029	Mar-31
Apr-31	0.0027	Apr-31
May-31	0.0026	May-31
Jun-31	0.0028	Jun-31
Jul-31	0.0027	Jul-31
Aug-31	0.0027	Aug-31
Sep-31	0.0027	Sep-31

Oct-31	0.0029	Oct-31
Nov-31	0.0031	Nov-31
Dec-31	0.0032	Dec-31
Jan-32	0.0032	Jan-32
Feb-32	0.0032	Feb-32
Mar-32	0.0031	Mar-32
Apr-32	0.0030	Apr-32
May-32	0.0028	May-32
Jun-32	0.0028	Jun-32
Jul-32	0.0028	Jul-32
Aug-32	0.0028	Aug-32
Sep-32	0.0026	Sep-32
Oct-32	0.0027	Oct-32
Nov-32	0.0026	Nov-32
Dec-32	0.0027	Dec-32
Jan-33	0.0027	Jan-33
Feb-33	0.0023	Feb-33
Mar-33	0.0027	Mar-33
Apr-33	0.0025	Apr-33
May-33	0.0028	May-33
Jun-33	0.0025	Jun-33
Jul-33	0.0026	Jul-33
Aug-33	0.0026	Aug-33
Sep-33	0.0025	Sep-33
Oct-33	0.0026	Oct-33
Nov-33	0.0025	Nov-33
Dec-33	0.0028	Dec-33
Jan-34	0.0029	Jan-34
Feb-34	0.0024	Feb-34
Mar-34	0.0027	Mar-34
Apr-34	0.0025	Apr-34
May-34	0.0025	May-34
Jun-34	0.0024	Jun-34
Jul-34	0.0024	Jul-34
Aug-34	0.0024	Aug-34
Sep-34	0.0023	Sep-34

Oct-34	0.0027	Oct-34
Nov-34	0.0025	Nov-34
Dec-34	0.0025	Dec-34
Jan-35	0.0025	Jan-35
Feb-35	0.0021	Feb-35
Mar-35	0.0022	Mar-35
Apr-35	0.0023	Apr-35
May-35	0.0023	May-35
Jun-35	0.0022	Jun-35
Jul-35	0.0024	Jul-35
Aug-35	0.0023	Aug-35
Sep-35	0.0023	Sep-35
Oct-35	0.0023	Oct-35
Nov-35	0.0024	Nov-35
Dec-35	0.0024	Dec-35
Jan-36	0.0024	Jan-36
Feb-36	0.0023	Feb-36
Mar-36	0.0024	Mar-36
Apr-36	0.0022	Apr-36
May-36	0.0022	May-36
Jun-36	0.0024	Jun-36
Jul-36	0.0023	Jul-36
Aug-36	0.0023	Aug-36
Sep-36	0.0021	Sep-36
Oct-36	0.0023	Oct-36
Nov-36	0.0022	Nov-36
Dec-36	0.0022	Dec-36
Jan-37	0.0021	Jan-37
Feb-37	0.0020	Feb-37
Mar-37	0.0022	Mar-37
Apr-37	0.0023	Apr-37
May-37	0.0022	May-37
Jun-37	0.0025	Jun-37
Jul-37	0.0024	Jul-37
Aug-37	0.0023	Aug-37
Sep-37	0.0023	Sep-37

Oct-37	0.0023	Oct-37
Nov-37	0.0024	Nov-37
Dec-37	0.0023	Dec-37
Jan-38	0.0023	Jan-38
Feb-38	0.0021	Feb-38
Mar-38	0.0023	Mar-38
Apr-38	0.0022	Apr-38
May-38	0.0022	May-38
Jun-38	0.0021	Jun-38
Jul-38	0.0021	Jul-38
Aug-38	0.0022	Aug-38
Sep-38	0.0021	Sep-38
Oct-38	0.0022	Oct-38
Nov-38	0.0021	Nov-38
Dec-38	0.0022	Dec-38
Jan-39	0.0021	Jan-39
Feb-39	0.0019	Feb-39
Mar-39	0.0021	Mar-39
Apr-39	0.0019	Apr-39
May-39	0.0020	May-39
Jun-39	0.0018	Jun-39
Jul-39	0.0019	Jul-39
Aug-39	0.0018	Aug-39
Sep-39	0.0019	Sep-39
Oct-39	0.0023	Oct-39
Nov-39	0.0020	Nov-39
Dec-39	0.0019	Dec-39
Jan-40	0.0020	Jan-40
Feb-40	0.0018	Feb-40
Mar-40	0.0019	Mar-40
Apr-40	0.0018	Apr-40
May-40	0.0019	May-40
Jun-40	0.0019	Jun-40
Jul-40	0.0020	Jul-40
Aug-40	0.0019	Aug-40
Sep-40	0.0018	Sep-40

Oct-40	0.0018	Oct-40
Nov-40	0.0018	Nov-40
Dec-40	0.0017	Dec-40
Jan-41	0.0016	Jan-41
Feb-41	0.0016	Feb-41
Mar-41	0.0018	Mar-41
Apr-41	0.0017	Apr-41
May-41	0.0017	May-41
Jun-41	0.0016	Jun-41
Jul-41	0.0016	Jul-41
Aug-41	0.0016	Aug-41
Sep-41	0.0016	Sep-41
Oct-41	0.0016	Oct-41
Nov-41	0.0014	Nov-41
Dec-41	0.0016	Dec-41
Jan-42	0.0021	Jan-42
Feb-42	0.0019	Feb-42
Mar-42	0.0021	Mar-42
Apr-42	0.0020	Apr-42
May-42	0.0019	May-42
Jun-42	0.0021	Jun-42
Jul-42	0.0021	Jul-42
Aug-42	0.0021	Aug-42
Sep-42	0.0020	Sep-42
Oct-42	0.0021	Oct-42
Nov-42	0.0020	Nov-42
Dec-42	0.0021	Dec-42
Jan-43	0.0020	Jan-43
Feb-43	0.0019	Feb-43
Mar-43	0.0021	Mar-43
Apr-43	0.0020	Apr-43
May-43	0.0019	May-43
Jun-43	0.0021	Jun-43
Jul-43	0.0021	Jul-43
Aug-43	0.0021	Aug-43
Sep-43	0.0020	Sep-43

Oct-43	0.0020	Oct-43
Nov-43	0.0021	Nov-43
Dec-43	0.0021	Dec-43
Jan-44	0.0021	Jan-44
Feb-44	0.0020	Feb-44
Mar-44	0.0021	Mar-44
Apr-44	0.0020	Apr-44
May-44	0.0022	May-44
Jun-44	0.0020	Jun-44
Jul-44	0.0021	Jul-44
Aug-44	0.0021	Aug-44
Sep-44	0.0020	Sep-44
Oct-44	0.0021	Oct-44
Nov-44	0.0020	Nov-44
Dec-44	0.0020	Dec-44
Jan-45	0.0021	Jan-45
Feb-45	0.0018	Feb-45
Mar-45	0.0020	Mar-45
Apr-45	0.0019	Apr-45
May-45	0.0019	May-45
Jun-45	0.0019	Jun-45
Jul-45	0.0018	Jul-45
Aug-45	0.0019	Aug-45
Sep-45	0.0018	Sep-45
Oct-45	0.0019	Oct-45
Nov-45	0.0018	Nov-45
Dec-45	0.0018	Dec-45
Jan-46	0.0017	Jan-46
Feb-46	0.0015	Feb-46
Mar-46	0.0016	Mar-46
Apr-46	0.0017	Apr-46
May-46	0.0018	May-46
Jun-46	0.0016	Jun-46
Jul-46	0.0019	Jul-46
Aug-46	0.0017	Aug-46
Sep-46	0.0018	Sep-46

Oct-46	0.0019	Oct-46
Nov-46	0.0018	Nov-46
Dec-46	0.0019	Dec-46
Jan-47	0.0018	Jan-47
Feb-47	0.0016	Feb-47
Mar-47	0.0018	Mar-47
Apr-47	0.0017	Apr-47
May-47	0.0017	May-47
Jun-47	0.0019	Jun-47
Jul-47	0.0018	Jul-47
Aug-47	0.0017	Aug-47
Sep-47	0.0018	Sep-47
Oct-47	0.0018	Oct-47
Nov-47	0.0017	Nov-47
Dec-47	0.0021	Dec-47
Jan-48	0.0020	Jan-48
Feb-48	0.0019	Feb-48
Mar-48	0.0022	Mar-48
Apr-48	0.0020	Apr-48
May-48	0.0018	May-48
Jun-48	0.0021	Jun-48
Jul-48	0.0019	Jul-48
Aug-48	0.0021	Aug-48
Sep-48	0.0020	Sep-48
Oct-48	0.0019	Oct-48
Nov-48	0.0021	Nov-48
Dec-48	0.0020	Dec-48
Jan-49	0.0020	Jan-49
Feb-49	0.0018	Feb-49
Mar-49	0.0019	Mar-49
Apr-49	0.0018	Apr-49
May-49	0.0020	May-49
Jun-49	0.0019	Jun-49
Jul-49	0.0017	Jul-49
Aug-49	0.0019	Aug-49
Sep-49	0.0017	Sep-49

Oct-49	0.0018	Oct-49
Nov-49	0.0017	Nov-49
Dec-49	0.0017	Dec-49
Jan-50	0.0018	Jan-50
Feb-50	0.0016	Feb-50
Mar-50	0.0018	Mar-50
Apr-50	0.0016	Apr-50
May-50	0.0019	May-50
Jun-50	0.0017	Jun-50
Jul-50	0.0018	Jul-50
Aug-50	0.0018	Aug-50
Sep-50	0.0017	Sep-50
Oct-50	0.0019	Oct-50
Nov-50	0.0018	Nov-50
Dec-50	0.0018	Dec-50
Jan-51	0.0020	Jan-51
Feb-51	0.0017	Feb-51
Mar-51	0.0019	Mar-51
Apr-51	0.0020	Apr-51
May-51	0.0021	May-51
Jun-51	0.0020	Jun-51
Jul-51	0.0023	Jul-51
Aug-51	0.0021	Aug-51
Sep-51	0.0019	Sep-51
Oct-51	0.0023	Oct-51
Nov-51	0.0021	Nov-51
Dec-51	0.0022	Dec-51
Jan-52	0.0023	Jan-52
Feb-52	0.0021	Feb-52
Mar-52	0.0023	Mar-52
Apr-52	0.0022	Apr-52
May-52	0.0020	May-52
Jun-52	0.0022	Jun-52
Jul-52	0.0022	Jul-52
Aug-52	0.0021	Aug-52
Sep-52	0.0023	Sep-52

Oct-52	0.0023	Oct-52
Nov-52	0.0021	Nov-52
Dec-52	0.0024	Dec-52
Jan-53	0.0023	Jan-53
Feb-53	0.0021	Feb-53
Mar-53	0.0025	Mar-53
Apr-53	0.0024	Apr-53
May-53	0.0024	May-53
Jun-53	0.0027	Jun-53
Jul-53	0.0025	Jul-53
Aug-53	0.0025	Aug-53
Sep-53	0.0025	Sep-53
Oct-53	0.0023	Oct-53
Nov-53	0.0024	Nov-53
Dec-53	0.0024	Dec-53
Jan-54	0.0023	Jan-54
Feb-54	0.0022	Feb-54
Mar-54	0.0025	Mar-54
Apr-54	0.0022	Apr-54
May-54	0.0020	May-54
Jun-54	0.0025	Jun-54
Jul-54	0.0022	Jul-54
Aug-54	0.0023	Aug-54
Sep-54	0.0022	Sep-54
Oct-54	0.0021	Oct-54
Nov-54	0.0023	Nov-54
Dec-54	0.0023	Dec-54
Jan-55	0.0022	Jan-55
Feb-55	0.0022	Feb-55
Mar-55	0.0024	Mar-55
Apr-55	0.0022	Apr-55
May-55	0.0025	May-55
Jun-55	0.0023	Jun-55
Jul-55	0.0023	Jul-55
Aug-55	0.0027	Aug-55
Sep-55	0.0024	Sep-55

Oct-55	0.0025	Oct-55
Nov-55	0.0024	Nov-55
Dec-55	0.0024	Dec-55
Jan-56	0.0025	Jan-56
Feb-56	0.0023	Feb-56
Mar-56	0.0023	Mar-56
Apr-56	0.0026	Apr-56
May-56	0.0026	May-56
Jun-56	0.0023	Jun-56
Jul-56	0.0026	Jul-56
Aug-56	0.0026	Aug-56
Sep-56	0.0025	Sep-56
Oct-56	0.0029	Oct-56
Nov-56	0.0027	Nov-56
Dec-56	0.0028	Dec-56
Jan-57	0.0029	Jan-57
Feb-57	0.0025	Feb-57
Mar-57	0.0026	Mar-57
Apr-57	0.0029	Apr-57
May-57	0.0029	May-57
Jun-57	0.0025	Jun-57
Jul-57	0.0033	Jul-57
Aug-57	0.0030	Aug-57
Sep-57	0.0031	Sep-57
Oct-57	0.0031	Oct-57
Nov-57	0.0029	Nov-57
Dec-57	0.0029	Dec-57
Jan-58	0.0027	Jan-58
Feb-58	0.0025	Feb-58
Mar-58	0.0027	Mar-58
Apr-58	0.0026	Apr-58
May-58	0.0024	May-58
Jun-58	0.0027	Jun-58
Jul-58	0.0027	Jul-58
Aug-58	0.0027	Aug-58
Sep-58	0.0032	Sep-58

	Oct-58					0.0032		Oct-58
	Nov-58					0.0028		Nov-58
	Dec-58					0.0033		Dec-58
	Jan-59					0.0031		Jan-59
	Feb-59					0.0031		Feb-59
	Mar-59					0.0035		Mar-59
	Apr-59					0.0033		Apr-59
	May-59					0.0033		May-59
	Jun-59					0.0036		Jun-59
	Jul-59					0.0035		Jul-59
	Aug-59					0.0035		Aug-59
	Sep-59					0.0034		Sep-59
	Oct-59					0.0035		Oct-59
	Nov-59					0.0035		Nov-59
	Dec-59					0.0036		Dec-59
	Jan-60					0.0035		Jan-60
	Feb-60					0.0037		Feb-60
	Mar-60					0.0036		Mar-60
	Apr-60					0.0032		Apr-60
	May-60					0.0037		May-60
	Jun-60					0.0034		Jun-60
	Jul-60					0.0032		Jul-60
	Aug-60					0.0034		Aug-60
	Sep-60					0.0032		Sep-60
	Oct-60					0.0033		Oct-60
	Nov-60					0.0032		Nov-60
	Dec-60					0.0033		Dec-60
	Jan-61					0.0033		Jan-61
	Feb-61					0.0030		Feb-61
	Mar-61					0.0031		Mar-61
	Apr-61					0.0031		Apr-61
	May-61					0.0034		May-61
	Jun-61					0.0032		Jun-61
32	Jul-61	DUKE POWER CO	53	-66	0	0.0033		Jul-61
32	Aug-61	DUKE POWER CO	54.375	0.033491	0.4	0.0033	0.0302	Aug-61
32	Sep-61	DUKE POWER CO	57.875	0.064368	0	0.0032	0.0612	Sep-61

32	Oct-61	DUKE POWER CO		**-61.3125**	0.059395	0	0.0034	0.0560	Oct-61
32	Nov-61	DUKE POWER CO		59.5	-0.02304	0.4	0.0032	-0.0262	Nov-61
32	Dec-61	DUKE POWER CO		58.625	-0.01471	0	0.0031	-0.0178	Dec-61
32	Jan-62	DUKE POWER CO		54.375	-0.0725	0	0.0037	-0.0762	Jan-62
32	Feb-62	DUKE POWER CO		58	0.074023	0.4	0.0032	0.0708	Feb-62
32	Mar-62	DUKE POWER CO		60	0.034483	0	0.0033	0.0312	Mar-62
32	Apr-62	DUKE POWER CO		58.5	-0.025	0	0.0033	-0.0283	Apr-62
32	May-62	DUKE POWER CO		52.875	-0.08932	0.4	0.0032	-0.0925	May-62
32	Jun-62	DUKE POWER CO		47	-0.11111	0	0.0030	-0.1141	Jun-62
32	Jul-62	DUKE POWER CO	DUK	50.625	0.077128	0	0.0034	0.0737	Jul-62
32	Aug-62	DUKE POWER CO	DUK	54.5	0.085432	0.45	0.0034	0.0820	Aug-62
32	Sep-62	DUKE POWER CO	DUK	50.25	-0.07798	0	0.0030	-0.0810	Sep-62
32	Oct-62	DUKE POWER CO	DUK	53.5	0.064677	0	0.0035	0.0612	Oct-62
32	Nov-62	DUKE POWER CO	DUK	58.25	0.097196	0.45	0.0031	0.0941	Nov-62
32	Dec-62	DUKE POWER CO	DUK	56.25	-0.03434	0	0.0032	-0.0375	Dec-62
32	Jan-63	DUKE POWER CO	DUK	57.875	0.028889	0	0.0032	0.0257	Jan-63
32	Feb-63	DUKE POWER CO	DUK	**-57.25**	-0.00302	0.45	0.0029	-0.0059	Feb-63
32	Mar-63	DUKE POWER CO	DUK	56.25	-0.01747	0	0.0031	-0.0206	Mar-63
32	Apr-63	DUKE POWER CO	DUK	59.375	0.055556	0	0.0034	0.0522	Apr-63
32	May-63	DUKE POWER CO	DUK	61	0.034947	0.45	0.0033	0.0316	May-63
32	Jun-63	DUKE POWER CO	DUK	60.75	-0.0041	0	0.0030	-0.0071	Jun-63
32	Jul-63	DUKE POWER CO	DUK	**-61.875**	0.018519	0	0.0036	0.0149	Jul-63
32	Aug-63	DUKE POWER CO	DUK	65.5	0.065859	0.45	0.0033	0.0626	Aug-63
32	Sep-63	DUKE POWER CO	DUK	62.5	-0.0458	0	0.0034	-0.0492	Sep-63
32	Oct-63	DUKE POWER CO	DUK	66	0.056	0	0.0034	0.0526	Oct-63
32	Nov-63	DUKE POWER CO	DUK	64	-0.02349	0.45	0.0032	-0.0267	Nov-63
32	Dec-63	DUKE POWER CO	DUK	63.25	-0.01172	0	0.0036	-0.0153	Dec-63
32	Jan-64	DUKE POWER CO	DUK	65	0.027668	0	0.0035	0.0242	Jan-64
32	Feb-64	DUKE POWER CO	DUK	66.5	0.03	0.45	0.0032	0.0268	Feb-64
32	Mar-64	DUKE POWER CO	DUK	64.75	-0.02632	0	0.0037	-0.0300	Mar-64
32	Apr-64	DUKE POWER CO	DUK	65.75	0.015444	0	0.0035	0.0119	Apr-64
32	May-64	DUKE POWER CO	DUK	64.375	-0.01407	0.45	0.0032	-0.0173	May-64
32	Jun-64	DUKE POWER CO	DUK	64.625	0.003883	0	0.0038	0.0001	Jun-64
32	Jul-64	DUKE POWER CO	DUK	70.875	0.096712	0	0.0035	0.0932	Jul-64
32	Aug-64	DUKE POWER CO	DUK	71.75	0.0194	0.5	0.0035	0.0159	Aug-64
32	Sep-64	DUKE POWER CO	DUK	72.75	0.013937	0	0.0034	0.0105	Sep-64

32	Oct-64	DUKE POWER CO	DUK	36	-0.01031	0	0.0034	-0.0137	Oct-64
32	Nov-64	DUKE POWER CO	DUK	36.125	0.010417	0.25	0.0035	0.0069	Nov-64
32	Dec-64	DUKE POWER CO	DUK	36.5	0.010381	0	0.0035	0.0069	Dec-64
32	Jan-65	DUKE POWER CO	DUK	37	0.013699	0	0.0033	0.0104	Jan-65
32	Feb-65	DUKE POWER CO	DUK	37.625	0.023649	0.25	0.0032	0.0204	Feb-65
32	Mar-65	DUKE POWER CO	DUK	37.375	-0.00665	0	0.0038	-0.0104	Mar-65
32	Apr-65	DUKE POWER CO	DUK	39	0.043478	0	0.0033	0.0402	Apr-65
32	May-65	DUKE POWER CO	DUK	39.125	0.009615	0.25	0.0033	0.0063	May-65
32	Jun-65	DUKE POWER CO	DUK	37.625	-0.03834	0	0.0038	-0.0421	Jun-65
32	Jul-65	DUKE POWER CO	DUK	37.875	0.006645	0	0.0034	0.0032	Jul-65
32	Aug-65	DUKE POWER CO	DUK	39.25	0.042904	0.25	0.0037	0.0392	Aug-65
32	Sep-65	DUKE POWER CO	DUK	41.875	0.066879	0	0.0035	0.0634	Sep-65
32	Oct-65	DUKE POWER CO	DUK	42.125	0.00597	0	0.0034	0.0026	Oct-65
32	Nov-65	DUKE POWER CO	DUK	42.875	0.023739	0.25	0.0037	0.0200	Nov-65
32	Dec-65	DUKE POWER CO	DUK	42.875	0	0	0.0037	-0.0037	Dec-65
32	Jan-66	DUKE POWER CO	DUK	39	-0.09038	0	0.0038	-0.0942	Jan-66
32	Feb-66	DUKE POWER CO	DUK	37	-0.04487	0.25	0.0034	-0.0483	Feb-66
32	Mar-66	DUKE POWER CO	DUK	**-37.125**	0.003378	0	0.0040	-0.0006	Mar-66
32	Apr-66	DUKE POWER CO	DUK	40.375	0.087542	0	0.0036	0.0839	Apr-66
32	May-66	DUKE POWER CO	DUK	41	0.021672	0.25	0.0041	0.0176	May-66
32	Jun-66	DUKE POWER CO	DUK	37.875	-0.07622	0	0.0039	-0.0801	Jun-66
32	Jul-66	DUKE POWER CO	DUK	39	0.029703	0	0.0038	0.0259	Jul-66
32	Aug-66	DUKE POWER CO	DUK	37.875	-0.02115	0.3	0.0043	-0.0255	Aug-66
32	Sep-66	DUKE POWER CO	DUK	37.75	-0.0033	0	0.0041	-0.0074	Sep-66
32	Oct-66	DUKE POWER CO	DUK	41	0.086093	0	0.0040	0.0821	Oct-66
32	Nov-66	DUKE POWER CO	DUK	40	-0.01707	0.3	0.0038	-0.0209	Nov-66
32	Dec-66	DUKE POWER CO	DUK	40.875	0.021875	0	0.0039	0.0180	Dec-66
32	Jan-67	DUKE POWER CO	DUK	42.5	0.039755	0	0.0040	0.0358	Jan-67
32	Feb-67	DUKE POWER CO	DUK	40	-0.05177	0.3	0.0034	-0.0552	Feb-67
32	Mar-67	DUKE POWER CO	DUK	40.125	0.003125	0	0.0039	-0.0008	Mar-67
32	Apr-67	DUKE POWER CO	DUK	40.25	0.003115	0	0.0035	-0.0004	Apr-67
32	May-67	DUKE POWER CO	DUK	37.875	-0.05155	0.3	0.0043	-0.0559	May-67
32	Jun-67	DUKE POWER CO	DUK	36.5	-0.0363	0	0.0039	-0.0402	Jun-67
32	Jul-67	DUKE POWER CO	DUK	36.875	0.010274	0	0.0043	0.0060	Jul-67
32	Aug-67	DUKE POWER CO	DUK	36.5	-0.00203	0.3	0.0042	-0.0062	Aug-67
32	Sep-67	DUKE POWER CO	DUK	34	-0.06849	0	0.0040	-0.0725	Sep-67

32	Oct-67	DUKE POWER CO	DUK	31.5	-0.07353	0	0.0045	-0.0780	Oct-67
32	Nov-67	DUKE POWER CO	DUK	34.875	0.116667	0.3	0.0045	0.1122	Nov-67
32	Dec-67	DUKE POWER CO	DUK	37	0.060932	0	0.0044	0.0565	Dec-67
32	Jan-68	DUKE POWER CO	DUK	37.25	0.006757	0	0.0050	0.0018	Jan-68
32	Feb-68	DUKE POWER CO	DUK	36.875	-0.00201	0.3	0.0042	-0.0062	Feb-68
32	Mar-68	DUKE POWER CO	DUK	33.5	-0.09153	0	0.0043	-0.0958	Mar-68
32	Apr-68	DUKE POWER CO	DUK	36.5	0.089552	0	0.0049	0.0847	Apr-68
32	May-68	DUKE POWER CO	DUK	35.375	-0.0226	0.3	0.0046	-0.0272	May-68
32	Jun-68	DUKE POWER CO	DUK	38.625	0.091873	0	0.0042	0.0877	Jun-68
32	Jul-68	DUKE POWER CO	DUK	37.875	-0.01942	0	0.0048	-0.0242	Jul-68
32	Aug-68	DUKE POWER CO	DUK	36.125	-0.03696	0.35	0.0042	-0.0412	Aug-68
32	Sep-68	DUKE POWER CO	DUK	37.125	0.027682	0	0.0044	0.0233	Sep-68
32	Oct-68	DUKE POWER CO	DUK	37.5	0.010101	0	0.0045	0.0056	Oct-68
32	Nov-68	DUKE POWER CO	DUK	43	0.156	0.35	0.0043	0.1517	Nov-68
32	Dec-68	DUKE POWER CO	DUK	38.25	-0.11047	0	0.0049	-0.1154	Dec-68
32	Jan-69	DUKE POWER CO	DUK	40.625	0.062092	0	0.0050	0.0571	Jan-69
32	Feb-69	DUKE POWER CO	DUK	39	-0.03139	0.35	0.0046	-0.0360	Feb-69
32	Mar-69	DUKE POWER CO	DUK	37	-0.05128	0	0.0047	-0.0560	Mar-69
32	Apr-69	DUKE POWER CO	DUK	38.5	0.040541	0	0.0055	0.0350	Apr-69
32	May-69	DUKE POWER CO	DUK	36.875	-0.03312	0.35	0.0047	-0.0378	May-69
32	Jun-69	DUKE POWER CO	DUK	33.5	-0.09153	0	0.0055	-0.0970	Jun-69
32	Jul-69	DUKE POWER CO	DUK	32.625	-0.02612	0	0.0052	-0.0313	Jul-69
32	Aug-69	DUKE POWER CO	DUK	32	-0.00843	0.35	0.0048	-0.0132	Aug-69
32	Sep-69	DUKE POWER CO	DUK	29.375	-0.08203	0	0.0055	-0.0875	Sep-69
32	Oct-69	DUKE POWER CO	DUK	31.625	0.076596	0	0.0057	0.0709	Oct-69
32	Nov-69	DUKE POWER CO	DUK	32	0.022925	0.35	0.0049	0.0180	Nov-69
32	Dec-69	DUKE POWER CO	DUK	29.5	-0.07813	0	0.0060	-0.0841	Dec-69
32	Jan-70	DUKE POWER CO	DUK	26.25	-0.11017	0	0.0056	-0.1158	Jan-70
32	Feb-70	DUKE POWER CO	DUK	26	0.00381	0.35	0.0052	-0.0014	Feb-70
32	Mar-70	DUKE POWER CO	DUK	26.625	0.024038	0	0.0056	0.0184	Mar-70
32	Apr-70	DUKE POWER CO	DUK	24.125	-0.0939	0	0.0054	-0.0993	Apr-70
32	May-70	DUKE POWER CO	DUK	23.125	-0.02694	0.35	0.0055	-0.0324	May-70
32	Jun-70	DUKE POWER CO	DUK	20.5	-0.11351	0	0.0064	-0.1199	Jun-70
32	Jul-70	DUKE POWER CO	DUK	22.5	0.097561	0	0.0059	0.0917	Jul-70
32	Aug-70	DUKE POWER CO	DUK	21.75	-0.01778	0.35	0.0057	-0.0235	Aug-70
32	Sep-70	DUKE POWER CO	DUK	21.625	-0.00575	0	0.0056	-0.0113	Sep-70

32	Oct-70	DUKE POWER CO	DUK	21.75	0.00578	0	0.0055	0.0003	Oct-70
32	Nov-70	DUKE POWER CO	DUK	23.25	0.085057	0.35	0.0058	0.0793	Nov-70
32	Dec-70	DUKE POWER CO	DUK	24.75	0.064516	0	0.0053	0.0592	Dec-70
32	Jan-71	DUKE POWER CO	DUK	25.5	0.030303	0	0.0051	0.0252	Jan-71
32	Feb-71	DUKE POWER CO	DUK	25	-0.00588	0.35	0.0046	-0.0105	Feb-71
32	Mar-71	DUKE POWER CO	DUK	24.25	-0.03	0	0.0056	-0.0356	Mar-71
32	Apr-71	DUKE POWER CO	DUK	24.125	-0.00516	0	0.0048	-0.0100	Apr-71
32	May-71	DUKE POWER CO	DUK	23.5	-0.0114	0.35	0.0047	-0.0161	May-71
32	Jun-71	DUKE POWER CO	DUK	22.875	-0.0266	0	0.0056	-0.0322	Jun-71
32	Jul-71	DUKE POWER CO	DUK	22.5	-0.01639	0	0.0052	-0.0216	Jul-71
32	Aug-71	DUKE POWER CO	DUK	22.75	0.026667	0.35	0.0055	0.0212	Aug-71
32	Sep-71	DUKE POWER CO	DUK	21.625	-0.04945	0	0.0049	-0.0544	Sep-71
32	Oct-71	DUKE POWER CO	DUK	22.875	0.057803	0	0.0047	0.0531	Oct-71
32	Nov-71	DUKE POWER CO	DUK	21.375	-0.05027	0.35	0.0051	-0.0554	Nov-71
32	Dec-71	DUKE POWER CO	DUK	23.75	0.111111	0	0.0050	0.1061	Dec-71
32	Jan-72	DUKE POWER CO	DUK	24.375	0.026316	0	0.0050	0.0213	Jan-72
32	Feb-72	DUKE POWER CO	DUK	23.125	-0.03692	0.35	0.0047	-0.0416	Feb-72
32	Mar-72	DUKE POWER CO	DUK	23.875	0.032432	0	0.0049	0.0275	Mar-72
32	Apr-72	DUKE POWER CO	DUK	23.125	-0.03141	0	0.0048	-0.0362	Apr-72
32	May-72	DUKE POWER CO	DUK	22.125	-0.02811	0.35	0.0055	-0.0336	May-72
32	Jun-72	DUKE POWER CO	DUK	21.75	-0.01695	0	0.0049	-0.0218	Jun-72
32	Jul-72	DUKE POWER CO	DUK	21.25	-0.02299	0	0.0051	-0.0281	Jul-72
32	Aug-72	DUKE POWER CO	DUK	21.875	0.045882	0.35	0.0049	0.0410	Aug-72
32	Sep-72	DUKE POWER CO	DUK	21.25	-0.02857	0	0.0047	-0.0333	Sep-72
32	Oct-72	DUKE POWER CO	DUK	22.375	0.052941	0	0.0052	0.0477	Oct-72
32	Nov-72	DUKE POWER CO	DUK	24.5	0.110615	0.35	0.0048	0.1058	Nov-72
32	Dec-72	DUKE POWER CO	DUK	23.25	-0.05102	0	0.0045	-0.0555	Dec-72
32	Jan-73	DUKE POWER CO	DUK	22.875	-0.01613	0	0.0054	-0.0215	Jan-73
32	Feb-73	DUKE POWER CO	DUK	22	-0.02295	0.35	0.0051	-0.0281	Feb-73
32	Mar-73	DUKE POWER CO	DUK	21	-0.04546	0	0.0056	-0.0511	Mar-73
32	Apr-73	DUKE POWER CO	DUK	21.125	0.005952	0	0.0057	0.0003	Apr-73
32	May-73	DUKE POWER CO	DUK	21	0.010651	0.35	0.0058	0.0049	May-73
32	Jun-73	DUKE POWER CO	DUK	20.375	-0.02976	0	0.0055	-0.0353	Jun-73
32	Jul-73	DUKE POWER CO	DUK	19.375	-0.04908	0	0.0061	-0.0552	Jul-73
32	Aug-73	DUKE POWER CO	DUK	19.25	0.011613	0.35	0.0062	0.0054	Aug-73
32	Sep-73	DUKE POWER CO	DUK	19.875	0.032468	0	0.0055	0.0270	Sep-73

32	Oct-73	DUKE POWER CO	DUK	19.125	-0.03774	0	0.0063	-0.0440	Oct-73
32	Nov-73	DUKE POWER CO	DUK	16.375	-0.12549	0.35	0.0056	-0.1311	Nov-73
32	Dec-73	DUKE POWER CO	DUK	17.25	0.053435	0	0.0060	0.0474	Dec-73
32	Jan-74	DUKE POWER CO	DUK	19.125	0.108696	0	0.0061	0.1026	Jan-74
32	Feb-74	DUKE POWER CO	DUK	18.875	0.005229	0.35	0.0055	-0.0003	Feb-74
32	Mar-74	DUKE POWER CO	DUK	17	-0.09934	0	0.0058	-0.1051	Mar-74
32	Apr-74	DUKE POWER CO	DUK	15.125	-0.11029	0	0.0068	-0.1171	Apr-74
32	May-74	DUKE POWER CO	DUK	14	-0.05124	0.35	0.0068	-0.0580	May-74
32	Jun-74	DUKE POWER CO	DUK	13	-0.07143	0	0.0061	-0.0775	Jun-74
32	Jul-74	DUKE POWER CO	DUK	11.75	-0.09615	0	0.0072	-0.1034	Jul-74
32	Aug-74	DUKE POWER CO	DUK	11	-0.03404	0.35	0.0065	-0.0405	Aug-74
32	Sep-74	DUKE POWER CO	DUK	10.5	-0.04546	0	0.0071	-0.0526	Sep-74
32	Oct-74	DUKE POWER CO	DUK	11.75	0.152381	0.35	0.0070	0.1454	Oct-74
32	Nov-74	DUKE POWER CO	DUK	12	0.021277	0	0.0062	0.0151	Nov-74
32	Dec-74	DUKE POWER CO	DUK	10.625	-0.11458	0	0.0067	-0.1213	Dec-74
32	Jan-75	DUKE POWER CO	DUK	14.375	0.352941	0	0.0068	0.3461	Jan-75
32	Feb-75	DUKE POWER CO	DUK	14	-0.00174	0.35	0.0060	-0.0077	Feb-75
32	Mar-75	DUKE POWER CO	DUK	13.5	-0.03571	0	0.0066	-0.0423	Mar-75
32	Apr-75	DUKE POWER CO	DUK	13	-0.03704	0	0.0067	-0.0437	Apr-75
32	May-75	DUKE POWER CO	DUK	13.875	0.094231	0.35	0.0067	0.0875	May-75
32	Jun-75	DUKE POWER CO	DUK	15.75	0.135135	0	0.0070	0.1281	Jun-75
32	Jul-75	DUKE POWER CO	DUK	15.75	0	0	0.0068	-0.0068	Jul-75
32	Aug-75	DUKE POWER CO	DUK	16.125	0.046032	0.35	0.0065	0.0395	Aug-75
32	Sep-75	DUKE POWER CO	DUK	16.125	0	0	0.0073	-0.0073	Sep-75
32	Oct-75	DUKE POWER CO	DUK	17.625	0.093023	0	0.0072	0.0858	Oct-75
32	Nov-75	DUKE POWER CO	DUK	18.875	0.09078	0.35	0.0061	0.0847	Nov-75
32	Dec-75	DUKE POWER CO	DUK	19.5	0.033113	0	0.0074	0.0257	Dec-75
32	Jan-76	DUKE POWER CO	DUK	20.25	0.038462	0	0.0065	0.0320	Jan-76
32	Feb-76	DUKE POWER CO	DUK	18.75	-0.05556	0.375	0.0060	-0.0616	Feb-76
32	Mar-76	DUKE POWER CO	DUK	18.875	0.006667	0	0.0071	-0.0004	Mar-76
32	Apr-76	DUKE POWER CO	DUK	18.875	0	0	0.0064	-0.0064	Apr-76
32	May-76	DUKE POWER CO	DUK	17.375	-0.0596	0.375	0.0059	-0.0655	May-76
32	Jun-76	DUKE POWER CO	DUK	19	0.093525	0	0.0073	0.0862	Jun-76
32	Jul-76	DUKE POWER CO	DUK	20	0.052632	0	0.0065	0.0461	Jul-76
32	Aug-76	DUKE POWER CO	DUK	20.625	0.05	0.375	0.0069	0.0431	Aug-76
32	Sep-76	DUKE POWER CO	DUK	21.5	0.042424	0	0.0064	0.0360	Sep-76

32	Oct-76	DUKE POWER CO	DUK	21.125	-0.01744	0	0.0061	-0.0235	Oct-76
32	Nov-76	DUKE POWER CO	DUK	22	0.060355	0.4	0.0066	0.0538	Nov-76
32	Dec-76	DUKE POWER CO	DUK	22	0	0	0.0063	-0.0063	Dec-76
32	Jan-77	DUKE POWER CO	DUK	21.75	-0.01136	0	0.0059	-0.0173	Jan-77
32	Feb-77	DUKE POWER CO	DUK	20.375	-0.04483	0.4	0.0057	-0.0505	Feb-77
32	Mar-77	DUKE POWER CO	DUK	20.125	-0.01227	0	0.0065	-0.0188	Mar-77
32	Apr-77	DUKE POWER CO	DUK	21	0.043478	0	0.0061	0.0374	Apr-77
32	May-77	DUKE POWER CO	DUK	22	0.066667	0.4	0.0067	0.0600	May-77
32	Jun-77	DUKE POWER CO	DUK	22.375	0.017045	0	0.0062	0.0108	Jun-77
32	Jul-77	DUKE POWER CO	DUK	22.625	0.011173	0	0.0059	0.0053	Jul-77
32	Aug-77	DUKE POWER CO	DUK	21.375	-0.03757	0.4	0.0067	-0.0443	Aug-77
32	Sep-77	DUKE POWER CO	DUK	21.875	0.023392	0	0.0061	0.0173	Sep-77
32	Oct-77	DUKE POWER CO	DUK	21.125	-0.03429	0	0.0063	-0.0406	Oct-77
32	Nov-77	DUKE POWER CO	DUK	21.875	0.055858	0.43	0.0063	0.0496	Nov-77
32	Dec-77	DUKE POWER CO	DUK	22	0.005714	0	0.0062	-0.0005	Dec-77
32	Jan-78	DUKE POWER CO	DUK	21	-0.04546	0	0.0069	-0.0524	Jan-78
32	Feb-78	DUKE POWER CO	DUK	20	-0.02714	0.43	0.0060	-0.0331	Feb-78
32	Mar-78	DUKE POWER CO	DUK	20.375	0.01875	0	0.0069	0.0119	Mar-78
32	Apr-78	DUKE POWER CO	DUK	19.625	-0.03681	0	0.0063	-0.0431	Apr-78
32	May-78	DUKE POWER CO	DUK	20	0.041019	0.43	0.0075	0.0335	May-78
32	Jun-78	DUKE POWER CO	DUK	19.875	-0.00625	0	0.0069	-0.0132	Jun-78
32	Jul-78	DUKE POWER CO	DUK	21.375	0.075472	0	0.0073	0.0682	Jul-78
32	Aug-78	DUKE POWER CO	DUK	19.75	-0.05591	0.43	0.0070	-0.0629	Aug-78
32	Sep-78	DUKE POWER CO	DUK	19.75	0	0	0.0065	-0.0065	Sep-78
32	Oct-78	DUKE POWER CO	DUK	19.625	-0.00633	0	0.0073	-0.0136	Oct-78
32	Nov-78	DUKE POWER CO	DUK	19.125	-0.00255	0.45	0.0071	-0.0096	Nov-78
32	Dec-78	DUKE POWER CO	DUK	19.375	0.013072	0	0.0068	0.0063	Dec-78
32	Jan-79	DUKE POWER CO	DUK	20.5	0.058065	0	0.0079	0.0502	Jan-79
32	Feb-79	DUKE POWER CO	DUK	18.875	-0.05732	0.45	0.0065	-0.0638	Feb-79
32	Mar-79	DUKE POWER CO	DUK	18.5	-0.01987	0	0.0074	-0.0273	Mar-79
32	Apr-79	DUKE POWER CO	DUK	17.625	-0.0473	0	0.0076	-0.0549	Apr-79
32	May-79	DUKE POWER CO	DUK	18	0.046809	0.45	0.0077	0.0391	May-79
32	Jun-79	DUKE POWER CO	DUK	19.5	0.083333	0	0.0071	0.0762	Jun-79
32	Jul-79	DUKE POWER CO	DUK	18.5	-0.05128	0	0.0076	-0.0589	Jul-79
32	Aug-79	DUKE POWER CO	DUK	18.5	0.024324	0.45	0.0073	0.0170	Aug-79
32	Sep-79	DUKE POWER CO	DUK	18.25	-0.01351	0	0.0068	-0.0203	Sep-79

32	Oct-79	DUKE POWER CO	DUK	17.875	-0.02055	0	0.0082	-0.0287	Oct-79
32	Nov-79	DUKE POWER CO	DUK	17.625	0.012867	0.48	0.0083	0.0046	Nov-79
32	Dec-79	DUKE POWER CO	DUK	17.25	-0.02128	0	0.0083	-0.0296	Dec-79
32	Jan-80	DUKE POWER CO	DUK	16.5	-0.04348	0	0.0083	-0.0518	Jan-80
32	Feb-80	DUKE POWER CO	DUK	15	-0.06182	0.48	0.0084	-0.0702	Feb-80
32	Mar-80	DUKE POWER CO	DUK	15.875	0.058333	0	0.0099	0.0484	Mar-80
32	Apr-80	DUKE POWER CO	DUK	18.625	0.173228	0	0.0100	0.1632	Apr-80
32	May-80	DUKE POWER CO	DUK	17.5	-0.03463	0.48	0.0087	-0.0433	May-80
32	Jun-80	DUKE POWER CO	DUK	18.5	0.057143	0	0.0086	0.0485	Jun-80
32	Jul-80	DUKE POWER CO	DUK	17.5	-0.05405	0	0.0084	-0.0625	Jul-80
32	Aug-80	DUKE POWER CO	DUK	17.25	0.013143	0.48	0.0081	0.0050	Aug-80
32	Sep-80	DUKE POWER CO	DUK	17.5	0.014493	0	0.0097	0.0048	Sep-80
32	Oct-80	DUKE POWER CO	DUK	16.625	-0.02086	0.51	0.0097	-0.0306	Oct-80
32	Nov-80	DUKE POWER CO	DUK	15.875	-0.04511	0	0.0091	-0.0542	Nov-80
32	Dec-80	DUKE POWER CO	DUK	18.125	0.141732	0	0.0108	0.1309	Dec-80
32	Jan-81	DUKE POWER CO	DUK	17.25	-0.04828	0	0.0094	-0.0577	Jan-81
32	Feb-81	DUKE POWER CO	DUK	16.375	-0.02116	0.51	0.0088	-0.0300	Feb-81
32	Mar-81	DUKE POWER CO	DUK	18.125	0.10687	0	0.0111	0.0958	Mar-81
32	Apr-81	DUKE POWER CO	DUK	18.5	0.02069	0	0.0101	0.0106	Apr-81
32	May-81	DUKE POWER CO	DUK	18	0.000541	0.51	0.0104	-0.0099	May-81
32	Jun-81	DUKE POWER CO	DUK	19.25	0.069444	0	0.0109	0.0585	Jun-81
32	Jul-81	DUKE POWER CO	DUK	20.5	0.064935	0	0.0109	0.0540	Jul-81
32	Aug-81	DUKE POWER CO	DUK	20.125	0.006585	0.51	0.0110	-0.0044	Aug-81
32	Sep-81	DUKE POWER CO	DUK	19.875	-0.01242	0	0.0114	-0.0238	Sep-81
32	Oct-81	DUKE POWER CO	DUK	21.375	0.075472	0	0.0117	0.0638	Oct-81
32	Nov-81	DUKE POWER CO	DUK	22	0.054971	0.55	0.0113	0.0437	Nov-81
32	Dec-81	DUKE POWER CO	DUK	20.625	-0.0625	0	0.0100	-0.0725	Dec-81
32	Jan-82	DUKE POWER CO	DUK	21.875	0.060606	0	0.0108	0.0498	Jan-82
32	Feb-82	DUKE POWER CO	DUK	22.125	0.036571	0.55	0.0103	0.0263	Feb-82
32	Mar-82	DUKE POWER CO	DUK	22.375	0.011299	0	0.0124	-0.0011	Mar-82
32	Apr-82	DUKE POWER CO	DUK	23.25	0.039106	0	0.0112	0.0279	Apr-82
32	May-82	DUKE POWER CO	DUK	22	-0.03011	0.55	0.0101	-0.0402	May-82
32	Jun-82	DUKE POWER CO	DUK	21.5	-0.02273	0	0.0120	-0.0347	Jun-82
32	Jul-82	DUKE POWER CO	DUK	21.125	-0.01744	0	0.0114	-0.0288	Jul-82
32	Aug-82	DUKE POWER CO	DUK	22.625	0.097988	0.57	0.0112	0.0868	Aug-82
32	Sep-82	DUKE POWER CO	DUK	21.125	-0.0663	0	0.0100	-0.0763	Sep-82

32	Oct-82	DUKE POWER CO	DUK	21.125	0	0	0.0091	-0.0091	Oct-82
32	Nov-82	DUKE POWER CO	DUK	21	0.021065	0.57	0.0094	0.0117	Nov-82
32	Dec-82	DUKE POWER CO	DUK	23.25	0.107143	0	0.0093	0.0978	Dec-82
32	Jan-83	DUKE POWER CO	DUK	23.375	0.005376	0	0.0087	-0.0033	Jan-83
32	Feb-83	DUKE POWER CO	DUK	22.75	-0.00235	0.57	0.0081	-0.0105	Feb-83
32	Mar-83	DUKE POWER CO	DUK	22.5	-0.01099	0	0.0089	-0.0199	Mar-83
32	Apr-83	DUKE POWER CO	DUK	23.125	0.027778	0	0.0085	0.0193	Apr-83
32	May-83	DUKE POWER CO	DUK	23	0.019243	0.57	0.0091	0.0101	May-83
32	Jun-83	DUKE POWER CO	DUK	22.75	-0.01087	0	0.0090	-0.0199	Jun-83
32	Jul-83	DUKE POWER CO	DUK	22.75	0	0	0.0088	-0.0088	Jul-83
32	Aug-83	DUKE POWER CO	DUK	22	-0.00703	0.59	0.0103	-0.0173	Aug-83
32	Sep-83	DUKE POWER CO	DUK	24.125	0.096591	0	0.0096	0.0870	Sep-83
32	Oct-83	DUKE POWER CO	DUK	26	0.07772	0	0.0095	0.0682	Oct-83
32	Nov-83	DUKE POWER CO	DUK	25.5	0.003462	0.59	0.0094	-0.0059	Nov-83
32	Dec-83	DUKE POWER CO	DUK	25.125	-0.01471	0	0.0094	-0.0241	Dec-83
32	Jan-84	DUKE POWER CO	DUK	24.875	-0.00995	0	0.0103	-0.0203	Jan-84
32	Feb-84	DUKE POWER CO	DUK	22.625	-0.06673	0.59	0.0092	-0.0759	Feb-84
32	Mar-84	DUKE POWER CO	DUK	24	0.060773	0	0.0098	0.0510	Mar-84
32	Apr-84	DUKE POWER CO	DUK	23.625	-0.01563	0	0.0104	-0.0260	Apr-84
32	May-84	DUKE POWER CO	DUK	23	-0.00148	0.59	0.0103	-0.0118	May-84
32	Jun-84	DUKE POWER CO	DUK	24.5	0.065217	0	0.0106	0.0546	Jun-84
32	Jul-84	DUKE POWER CO	DUK	25.375	0.035714	0	0.0116	0.0241	Jul-84
32	Aug-84	DUKE POWER CO	DUK	26.125	0.05399	0.62	0.0106	0.0434	Aug-84
32	Sep-84	DUKE POWER CO	DUK	27.625	0.057416	0	0.0094	0.0480	Sep-84
32	Oct-84	DUKE POWER CO	DUK	28.625	0.036199	0	0.0108	0.0254	Oct-84
32	Nov-84	DUKE POWER CO	DUK	28.75	0.026026	0.62	0.0091	0.0169	Nov-84
32	Dec-84	DUKE POWER CO	DUK	29	0.008696	0	0.0098	-0.0011	Dec-84
32	Jan-85	DUKE POWER CO	DUK	29.25	0.008621	0	0.0096	-0.0010	Jan-85
32	Feb-85	DUKE POWER CO	DUK	30	0.046838	0.62	0.0082	0.0386	Feb-85
32	Mar-85	DUKE POWER CO	DUK	32.625	0.0875	0	0.0094	0.0781	Mar-85
32	Apr-85	DUKE POWER CO	DUK	32.875	0.007663	0	0.0102	-0.0025	Apr-85
32	May-85	DUKE POWER CO	DUK	33.25	0.030266	0.62	0.0097	0.0206	May-85
32	Jun-85	DUKE POWER CO	DUK	34.75	0.045113	0	0.0080	0.0371	Jun-85
32	Jul-85	DUKE POWER CO	DUK	32.5	-0.06475	0	0.0094	-0.0741	Jul-85
32	Aug-85	DUKE POWER CO	DUK	32.625	0.023846	0.65	0.0085	0.0153	Aug-85
32	Sep-85	DUKE POWER CO	DUK	31.375	-0.03831	0	0.0088	-0.0471	Sep-85

32	Oct-85	DUKE POWER CO	DUK	34.625	0.103586	0	0.0089	0.0947	Oct-85
32	Nov-85	DUKE POWER CO	DUK	34	0.000722	0.65	0.0081	-0.0074	Nov-85
32	Dec-85	DUKE POWER CO	DUK	35.375	0.040441	0	0.0086	0.0318	Dec-85
32	Jan-86	DUKE POWER CO	DUK	38.5	0.088339	0	0.0079	0.0804	Jan-86
32	Feb-86	DUKE POWER CO	DUK	39.625	0.046104	0.65	0.0073	0.0388	Feb-86
32	Mar-86	DUKE POWER CO	DUK	41.75	0.053628	0	0.0071	0.0465	Mar-86
32	Apr-86	DUKE POWER CO	DUK	40.375	-0.03293	0	0.0063	-0.0392	Apr-86
32	May-86	DUKE POWER CO	DUK	42.125	0.059443	0.65	0.0062	0.0532	May-86
32	Jun-86	DUKE POWER CO	DUK	45.125	0.071217	0	0.0070	0.0642	Jun-86
32	Jul-86	DUKE POWER CO	DUK	48.25	0.069252	0	0.0066	0.0627	Jul-86
32	Aug-86	DUKE POWER CO	DUK	50	0.050155	0.67	0.0063	0.0439	Aug-86
32	Sep-86	DUKE POWER CO	DUK	45.125	-0.0975	0	0.0065	-0.1040	Sep-86
32	Oct-86	DUKE POWER CO	DUK	48.25	0.069252	0	0.0069	0.0624	Oct-86
32	Nov-86	DUKE POWER CO	DUK	48.5	0.019067	0.67	0.0059	0.0132	Nov-86
32	Dec-86	DUKE POWER CO	DUK	45.25	-0.06701	0	0.0070	-0.0740	Dec-86
32	Jan-87	DUKE POWER CO	DUK	50.625	0.118785	0	0.0064	0.1124	Jan-87
32	Feb-87	DUKE POWER CO	DUK	47.5	-0.04849	0.67	0.0059	-0.0544	Feb-87
32	Mar-87	DUKE POWER CO	DUK	46.5	-0.02105	0	0.0066	-0.0277	Mar-87
32	Apr-87	DUKE POWER CO	DUK	44.625	-0.04032	0	0.0065	-0.0468	Apr-87
32	May-87	DUKE POWER CO	DUK	44.125	0.00381	0.67	0.0066	-0.0028	May-87
32	Jun-87	DUKE POWER CO	DUK	44.625	0.011331	0	0.0075	0.0038	Jun-87
32	Jul-87	DUKE POWER CO	DUK	43.75	-0.01961	0	0.0073	-0.0269	Jul-87
32	Aug-87	DUKE POWER CO	DUK	46	0.067429	0.7	0.0075	0.0599	Aug-87
32	Sep-87	DUKE POWER CO	DUK	45.75	-0.00544	0	0.0075	-0.0129	Sep-87
32	Oct-87	DUKE POWER CO	DUK	48	0.04918	0	0.0079	0.0413	Oct-87
32	Nov-87	DUKE POWER CO	DUK	43	-0.08958	0.7	0.0075	-0.0971	Nov-87
32	Dec-87	DUKE POWER CO	DUK	42.875	-0.00291	0	0.0078	-0.0107	Dec-87
32	Jan-88	DUKE POWER CO	DUK	49	0.142857	0	0.0072	0.1357	Jan-88
32	Feb-88	DUKE POWER CO	DUK	46.25	-0.04184	0.7	0.0071	-0.0489	Feb-88
32	Mar-88	DUKE POWER CO	DUK	44.125	-0.04595	0	0.0072	-0.0531	Mar-88
32	Apr-88	DUKE POWER CO	DUK	44.25	0.002833	0	0.0070	-0.0042	Apr-88
32	May-88	DUKE POWER CO	DUK	45.5	0.044068	0.7	0.0078	0.0363	May-88
32	Jun-88	DUKE POWER CO	DUK	45.625	0.002747	0	0.0076	-0.0049	Jun-88
32	Jul-88	DUKE POWER CO	DUK	45.875	0.005479	0	0.0071	-0.0016	Jul-88
32	Aug-88	DUKE POWER CO	DUK	43.875	-0.02747	0.74	0.0083	-0.0358	Aug-88
32	Sep-88	DUKE POWER CO	DUK	45.5	0.037037	0	0.0076	0.0294	Sep-88

32	Oct-88	DUKE POWER CO	DUK	47.25	0.038462	0	0.0076	0.0309	Oct-88
32	Nov-88	DUKE POWER CO	DUK	45.625	-0.01873	0.74	0.0070	-0.0257	Nov-88
32	Dec-88	DUKE POWER CO	DUK	46.25	0.013699	0	0.0075	0.0062	Dec-88
32	Jan-89	DUKE POWER CO	DUK	46.125	-0.0027	0	0.0080	-0.0107	Jan-89
32	Feb-89	DUKE POWER CO	DUK	43.125	-0.049	0.74	0.0069	-0.0559	Feb-89
32	Mar-89	DUKE POWER CO	DUK	44.5	0.031884	0	0.0079	0.0240	Mar-89
32	Apr-89	DUKE POWER CO	DUK	45.75	0.02809	0	0.0070	0.0211	Apr-89
32	May-89	DUKE POWER CO	DUK	48	0.065355	0.74	0.0080	0.0574	May-89
32	Jun-89	DUKE POWER CO	DUK	49.375	0.028646	0	0.0070	0.0216	Jun-89
32	Jul-89	DUKE POWER CO	DUK	52.625	0.065823	0	0.0068	0.0590	Jul-89
32	Aug-89	DUKE POWER CO	DUK	50.875	-0.01843	0.78	0.0066	-0.0250	Aug-89
32	Sep-89	DUKE POWER CO	DUK	51.375	0.009828	0	0.0065	0.0033	Sep-89
32	Oct-89	DUKE POWER CO	DUK	52.75	0.026764	0	0.0072	0.0196	Oct-89
32	Nov-89	DUKE POWER CO	DUK	53.25	0.024265	0.78	0.0064	0.0179	Nov-89
32	Dec-89	DUKE POWER CO	DUK	56.125	0.053991	0	0.0064	0.0476	Dec-89
32	Jan-90	DUKE POWER CO	DUK	53.75	-0.04232	0	0.0073	-0.0496	Jan-90
32	Feb-90	DUKE POWER CO	DUK	54.75	0.033116	0.78	0.0066	0.0265	Feb-90
32	Mar-90	DUKE POWER CO	DUK	55	0.004566	0	0.0071	-0.0025	Mar-90
32	Apr-90	DUKE POWER CO	DUK	52.875	-0.03864	0	0.0075	-0.0461	Apr-90
32	May-90	DUKE POWER CO	DUK	55.125	0.057305	0.78	0.0075	0.0498	May-90
32	Jun-90	DUKE POWER CO	DUK	55.875	0.013605	0	0.0068	0.0068	Jun-90
32	Jul-90	DUKE POWER CO	DUK	58	0.038031	0	0.0074	0.0306	Jul-90
32	Aug-90	DUKE POWER CO	DUK	55.5	-0.02897	0.82	0.0071	-0.0361	Aug-90
32	Sep-90	DUKE POWER CO	DUK	55.625	0.002252	0	0.0069	-0.0046	Sep-90
32	Oct-90	DUKE POWER CO	DUK	31.875	0.146067	0	0.0081	0.1380	Oct-90
32	Nov-90	DUKE POWER CO	DUK	30.875	-0.01851	0.41	0.0071	-0.0256	Nov-90
32	Dec-90	DUKE POWER CO	DUK	30.625	-0.0081	0	0.0072	-0.0153	Dec-90
32	Jan-91	DUKE POWER CO	DUK	27.625	-0.09796	0	0.0071	-0.1051	Jan-91
32	Feb-91	DUKE POWER CO	DUK	28.375	0.041991	0.41	0.0064	0.0356	Feb-91
32	Mar-91	DUKE POWER CO	DUK	28.75	0.013216	0	0.0064	0.0068	Mar-91
32	Apr-91	DUKE POWER CO	DUK	27.75	-0.03478	0	0.0076	-0.0424	Apr-91
32	May-91	DUKE POWER CO	DUK	27.75	0.014775	0.41	0.0068	0.0080	May-91
32	Jun-91	DUKE POWER CO	DUK	27.625	-0.00451	0	0.0063	-0.0108	Jun-91
32	Jul-91	DUKE POWER CO	DUK	29.25	0.058824	0	0.0076	0.0512	Jul-91
32	Aug-91	DUKE POWER CO	DUK	30	0.040342	0.43	0.0068	0.0335	Aug-91
32	Sep-91	DUKE POWER CO	DUK	32.375	0.079167	0	0.0068	0.0724	Sep-91

32	Oct-91	DUKE POWER CO	DUK	31.375	-0.03089	0	0.0065	-0.0374	Oct-91
32	Nov-91	DUKE POWER CO	DUK	31.125	0.005737	0.43	0.0060	-0.0003	Nov-91
32	Dec-91	DUKE POWER CO	DUK	35	0.124498	0	0.0068	0.1177	Dec-91
32	Jan-92	DUKE POWER CO	DUK	32.75	-0.06429	0	0.0061	-0.0704	Jan-92
32	Feb-92	DUKE POWER CO	DUK	31.875	-0.01359	0.43	0.0059	-0.0195	Feb-92
32	Mar-92	DUKE POWER CO	DUK	32	0.003922	0	0.0067	-0.0028	Mar-92
32	Apr-92	DUKE POWER CO	DUK	33.875	0.058594	0	0.0065	0.0521	Apr-92
32	May-92	DUKE POWER CO	DUK	33.75	0.009004	0.43	0.0061	0.0029	May-92
32	Jun-92	DUKE POWER CO	DUK	34.25	0.014815	0	0.0067	0.0081	Jun-92
32	Jul-92	DUKE POWER CO	DUK	36.125	0.054745	0	0.0063	0.0484	Jul-92
32	Aug-92	DUKE POWER CO	DUK	36.25	0.015917	0.45	0.0060	0.0099	Aug-92
32	Sep-92	DUKE POWER CO	DUK	36	-0.0069	0	0.0058	-0.0127	Sep-92
32	Oct-92	DUKE POWER CO	DUK	35.75	-0.00694	0	0.0057	-0.0126	Oct-92
32	Nov-92	DUKE POWER CO	DUK	35.625	0.009091	0.45	0.0061	0.0030	Nov-92
32	Dec-92	DUKE POWER CO	DUK	36.125	0.014035	0	0.0063	0.0077	Dec-92
32	Jan-93	DUKE POWER CO	DUK	36.75	0.017301	0	0.0059	0.0114	Jan-93
32	Feb-93	DUKE POWER CO	DUK	38.375	0.056463	0.45	0.0055	0.0510	Feb-93
32	Mar-93	DUKE POWER CO	DUK	39.25	0.022801	0	0.0063	0.0165	Mar-93
32	Apr-93	DUKE POWER CO	DUK	39.25	0	0	0.0057	-0.0057	Apr-93
32	May-93	DUKE POWER CO	DUK	39	0.005096	0.45	0.0052	-0.0001	May-93
32	Jun-93	DUKE POWER CO	DUK	39.875	0.022436	0	0.0062	0.0162	Jun-93
32	Jul-93	DUKE POWER CO	DUK	42.5	0.065831	0	0.0054	0.0604	Jul-93
32	Aug-93	DUKE POWER CO	DUK	42.375	0.008118	0.47	0.0056	0.0025	Aug-93
32	Sep-93	DUKE POWER CO	DUK	43.375	0.023599	0	0.0050	0.0186	Sep-93
32	Oct-93	DUKE POWER CO	DUK	43.75	0.008646	0	0.0049	0.0037	Oct-93
32	Nov-93	DUKE POWER CO	DUK	42	-0.02926	0.47	0.0053	-0.0346	Nov-93
32	Dec-93	DUKE POWER CO	DUK	42.375	0.008929	0	0.0055	0.0034	Dec-93
32	Jan-94	DUKE POWER CO	DUK	42	-0.00885	0	0.0055	-0.0144	Jan-94
32	Feb-94	DUKE POWER CO	DUK	38.625	-0.06917	0.47	0.0049	-0.0741	Feb-94
32	Mar-94	DUKE POWER CO	DUK	36.125	-0.06473	0	0.0058	-0.0705	Mar-94
32	Apr-94	DUKE POWER CO	DUK	36.625	0.013841	0	0.0057	0.0081	Apr-94
32	May-94	DUKE POWER CO	DUK	36.25	0.002594	0.47	0.0063	-0.0037	May-94
32	Jun-94	DUKE POWER CO	DUK	35.75	-0.01379	0	0.0061	-0.0199	Jun-94
32	Jul-94	DUKE POWER CO	DUK	38.25	0.06993	0	0.0060	0.0639	Jul-94
32	Aug-94	DUKE POWER CO	DUK	38.75	0.025882	0.49	0.0066	0.0193	Aug-94
32	Sep-94	DUKE POWER CO	DUK	39	0.006452	0	0.0061	0.0004	Sep-94

32	Oct-94	DUKE POWER CO	DUK	39.625	0.016026	0	0.0066	0.0094	Oct-94
32	Nov-94	DUKE POWER CO	DUK	40.75	0.040757	0.49	0.0064	0.0344	Nov-94
32	Dec-94	DUKE POWER CO	DUK	38.125	-0.06442	0	0.0066	-0.0710	Dec-94
32	Jan-95	DUKE POWER CO	DUK	40.375	0.059016	0	0.0070	0.0520	Jan-95
32	Feb-95	DUKE POWER CO	DUK	39.25	-0.01573	0.49	0.0059	-0.0216	Feb-95
32	Mar-95	DUKE POWER CO	DUK	38.25	-0.02548	0	0.0064	-0.0319	Mar-95
32	Apr-95	DUKE POWER CO	DUK	39.5	0.03268	0	0.0058	0.0269	Apr-95
32	May-95	DUKE POWER CO	DUK	41.75	0.069367	0.49	0.0065	0.0629	May-95
32	Jun-95	DUKE POWER CO	DUK	41.5	-0.00599	0	0.0054	-0.0114	Jun-95
32	Jul-95	DUKE POWER CO	DUK	41.5	0	0	0.0056	-0.0056	Jul-95
32	Aug-95	DUKE POWER CO	DUK	40.625	-0.0088	0.51	0.0057	-0.0145	Aug-95
32	Sep-95	DUKE POWER CO	DUK	43.375	0.067692	0	0.0052	0.0625	Sep-95
32	Oct-95	DUKE POWER CO	DUK	44.75	0.0317	0	0.0057	0.0260	Oct-95
32	Nov-95	DUKE POWER CO	DUK	44.875	0.01419	0.51	0.0051	0.0091	Nov-95
32	Dec-95	DUKE POWER CO	DUK	47.375	0.05571	0	0.0049	0.0508	Dec-95
32	Jan-96	DUKE POWER CO	DUK	49.75	0.050132	0	0.0054	0.0447	Jan-96
32	Feb-96	DUKE POWER CO	DUK	48.875	-0.00734	0.51	0.0048	-0.0121	Feb-96
32	Mar-96	DUKE POWER CO	DUK	50.5	0.033248	0	0.0052	0.0280	Mar-96
32	Apr-96	DUKE POWER CO	DUK	47	-0.06931	0	0.0059	-0.0752	Apr-96
32	May-96	DUKE POWER CO	DUK	48.25	0.037447	0.51	0.0058	0.0316	May-96
32	Jun-96	DUKE POWER CO	DUK	51.25	0.062176	0	0.0054	0.0568	Jun-96
32	Jul-96	DUKE POWER CO	DUK	47.875	-0.06585	0	0.0062	-0.0721	Jul-96
32	Aug-96	DUKE POWER CO	DUK	46.75	-0.01243	0.53	0.0057	-0.0181	Aug-96
32	Sep-96	DUKE POWER CO	DUK	46.625	-0.00267	0	0.0060	-0.0087	Sep-96
32	Oct-96	DUKE POWER CO	DUK	48.875	0.048257	0	0.0058	0.0425	Oct-96
32	Nov-96	DUKE POWER CO	DUK	46.375	-0.04031	0.53	0.0052	-0.0455	Nov-96
32	Dec-96	DUKE POWER CO	DUK	46.25	-0.0027	0	0.0056	-0.0083	Dec-96
32	Jan-97	DUKE POWER CO	DUK	46.875	0.013514	0	0.0056	0.0079	Jan-97
32	Feb-97	DUKE POWER CO	DUK	44.25	-0.04469	0.53	0.0051	-0.0498	Feb-97
32	Mar-97	DUKE POWER CO	DUK	44.125	-0.00283	0	0.0059	-0.0087	Mar-97
32	Apr-97	DUKE POWER CO	DUK	43.875	-0.00567	0	0.0059	-0.0116	Apr-97
32	May-97	DUKE POWER CO	DUK	45.125	0.04057	0.53	0.0058	0.0348	May-97
32	Jun-97	DUKE ENERGY CORP	DUK	47.9375	0.062327	0	0.0059	0.0564	Jun-97
32	Jul-97	DUKE ENERGY CORP	DUK	50.6875	0.057366	0	0.0058	0.0516	Jul-97
32	Aug-97	DUKE ENERGY CORP	DUK	48.4375	-0.03354	0.55	0.0049	-0.0384	Aug-97
32	Sep-97	DUKE ENERGY CORP	DUK	49.4375	0.020645	0	0.0058	0.0148	Sep-97

32	Oct-97	DUKE ENERGY CORP	DUK	48.5	-0.01896	0	0.0054	-0.0244	Oct-97
32	Nov-97	DUKE ENERGY CORP	DUK	52	0.083505	0.55	0.0047	0.0788	Nov-97
32	Dec-97	DUKE ENERGY CORP	DUK	55.375	0.064904	0	0.0054	0.0595	Dec-97
32	Jan-98	DUKE ENERGY CORP	DUK	54.1875	-0.02145	0	0.0048	-0.0262	Jan-98
32	Feb-98	DUKE ENERGY CORP	DUK	55.5625	0.035525	0.55	0.0044	0.0311	Feb-98
32	Mar-98	DUKE ENERGY CORP	DUK	59.5625	0.071991	0	0.0052	0.0668	Mar-98
32	Apr-98	DUKE ENERGY CORP	DUK	57.875	-0.02833	0	0.0049	-0.0332	Apr-98
32	May-98	DUKE ENERGY CORP	DUK	57.625	0.005184	0.55	0.0048	0.0004	May-98
32	Jun-98	DUKE ENERGY CORP	DUK	59.25	0.0282	0	0.0052	0.0230	Jun-98
32	Jul-98	DUKE ENERGY CORP	DUK	57.125	-0.03587	0	0.0049	-0.0408	Jul-98
32	Aug-98	DUKE ENERGY CORP	DUK	62.375	0.101532	0.55	0.0048	0.0967	Aug-98
32	Sep-98	DUKE ENERGY CORP	DUK	66.1875	0.061122	0	0.0044	0.0567	Sep-98
32	Oct-98	DUKE ENERGY CORP	DUK	64.6875	-0.02266	0	0.0042	-0.0269	Oct-98
32	Nov-98	DUKE ENERGY CORP	DUK	62.5625	-0.02435	0.55	0.0045	-0.0288	Nov-98
32	Dec-98	DUKE ENERGY CORP	DUK	64.0625	0.023976	0	0.0045	0.0195	Dec-98
32	Jan-99	DUKE ENERGY CORP	DUK	61.8125	-0.03512	0	0.0042	-0.0393	Jan-99
32	Feb-99	DUKE ENERGY CORP	DUK	56.875	-0.07098	0.55	0.0040	-0.0750	Feb-99
32	Mar-99	DUKE ENERGY CORP	DUK	54.8125	-0.03626	0	0.0053	-0.0416	Mar-99
32	Apr-99	DUKE ENERGY CORP	DUK	56	0.021665	0	0.0048	0.0169	Apr-99
32	May-99	DUKE ENERGY CORP	DUK	60.3125	0.08683	0.55	0.0045	0.0823	May-99
32	Jun-99	DUKE ENERGY CORP	DUK	54.4375	-0.09741	0	0.0055	-0.1029	Jun-99
32	Jul-99	DUKE ENERGY CORP	DUK	52.9375	-0.02756	0	0.0051	-0.0327	Jul-99
32	Aug-99	DUKE ENERGY CORP	DUK	57.5	0.105077	1	0.0054	0.0997	Aug-99
32	Sep-99	DUKE ENERGY CORP	DUK	55.125	-0.0413	0	0.0052	-0.0465	Sep-99
32	Oct-99	DUKE ENERGY CORP	DUK	56.5625	0.026077	0	0.0050	0.0211	Oct-99
32	Nov-99	DUKE ENERGY CORP	DUK	50.6875	-0.09414	0.55	0.0056	-0.0997	Nov-99
32	Dec-99	DUKE ENERGY CORP	DUK	50.125	-0.0111	0	0.0055	-0.0166	Dec-99
32	Jan-00	DUKE ENERGY CORP	DUK	57.75	0.15212	0	0.0057	0.1464	Jan-00
32	Feb-00	DUKE ENERGY CORP	DUK	48.5	-0.15065	0.55	0.0051	-0.1557	Feb-00
32	Mar-00	DUKE ENERGY CORP	DUK	52.5	0.082474	0	0.0054	0.0771	Mar-00
32	Apr-00	DUKE ENERGY CORP	DUK	57.5	0.095238	0	0.0047	0.0905	Apr-00
32	May-00	DUKE ENERGY CORP	DUK	58.25	0.022609	0.55	0.0056	0.0170	May-00
32	Jun-00	DUKE ENERGY CORP	DUK	56.375	-0.03219	0	0.0052	-0.0374	Jun-00
32	Jul-00	DUKE ENERGY CORP	DUK	61.6875	0.094235	0	0.0052	0.0890	Jul-00
32	Aug-00	DUKE ENERGY CORP	DUK	74.8125	0.221682	0.55	0.0050	0.2167	Aug-00
32	Sep-00	DUKE ENERGY CORP	DUK	85.75	0.146199	0	0.0046	0.1416	Sep-00

32	Oct-00	DUKE ENERGY CORP	DUK	86.4375	0.008017	0	0.0053	0.0027	Oct-00
32	Nov-00	DUKE ENERGY CORP	DUK	89.9375	0.046855	0.55	0.0048	0.0421	Nov-00
32	Dec-00	DUKE ENERGY CORP	DUK	85.25	-0.05212	0	0.0045	-0.0566	Dec-00
32	Jan-01	DUKE ENERGY CORP	DUK	36.57	-0.14205	0	0.0049	-0.1470	Jan-01
32	Feb-01	DUKE ENERGY CORP	DUK	40.75	0.121821	0.275	0.0042	0.1176	Feb-01
32	Mar-01	DUKE ENERGY CORP	DUK	42.74	0.048834	0	0.0045	0.0443	Mar-01
32	Apr-01	DUKE ENERGY CORP	DUK	46.76	0.094057	0	0.0047	0.0894	Apr-01
32	May-01	DUKE ENERGY CORP	DUK	45.72	-0.01636	0.275	0.0050	-0.0214	May-01
32	Jun-01	DUKE ENERGY CORP	DUK	39.01	-0.14676	0	0.0047	-0.1515	Jun-01
32	Jul-01	DUKE ENERGY CORP	DUK	38.61	-0.01025	0	0.0052	-0.0155	Jul-01
32	Aug-01	DUKE ENERGY CORP	DUK	39.31	0.025253	0.275	0.0046	0.0207	Aug-01
32	Sep-01	DUKE ENERGY CORP	DUK	37.85	-0.03714	0	0.0041	-0.0412	Sep-01
32	Oct-01	DUKE ENERGY CORP	DUK	38.41	0.014795	0	0.0048	0.0100	Oct-01
32	Nov-01	DUKE ENERGY CORP	DUK	36.15	-0.05168	0.275	0.0041	-0.0558	Nov-01
32	Dec-01	DUKE ENERGY CORP	DUK	39.26	0.08603	0	0.0046	0.0814	Dec-01
32	Jan-02	DUKE ENERGY CORP	DUK	34.87	-0.11182	0	0.0048	-0.1166	Jan-02
32	Feb-02	DUKE ENERGY CORP	DUK	35.3	0.020218	0.275	0.0043	0.0159	Feb-02
32	Mar-02	DUKE ENERGY CORP	DUK	37.8	0.070822	0	0.0043	0.0665	Mar-02
32	Apr-02	DUKE ENERGY CORP	DUK	38.33	0.014021	0	0.0054	0.0086	Apr-02
32	May-02	DUKE ENERGY CORP	DUK	32.01	-0.15771	0.275	0.0049	-0.1626	May-02
32	Jun-02	DUKE ENERGY CORP	DUK	31.1	-0.02843	0	0.0044	-0.0328	Jun-02
32	Jul-02	DUKE ENERGY CORP	DUK	25.49	-0.18039	0	0.0051	-0.1855	Jul-02
32	Aug-02	DUKE ENERGY CORP	DUK	26.83	0.063358	0.275	0.0044	0.0590	Aug-02
32	Sep-02	DUKE ENERGY CORP	DUK	19.55	-0.27134	0	0.0042	-0.2755	Sep-02
32	Oct-02	DUKE ENERGY CORP	DUK	20.49	0.048082	0	0.0040	0.0441	Oct-02
32	Nov-02	DUKE ENERGY CORP	DUK	19.74	-0.02318	0.275	0.0040	-0.0272	Nov-02
32	Dec-02	DUKE ENERGY CORP	DUK	19.54	-0.01013	0	0.0045	-0.0146	Dec-02
32	Jan-03	DUKE ENERGY CORP	DUK	17.03	-0.12845	0	0.0041	-0.1326	Jan-03
32	Feb-03	DUKE ENERGY CORP	DUK	13.51	-0.19055	0.275	0.0038	-0.1943	Feb-03
32	Mar-03	DUKE ENERGY CORP	DUK	14.54	0.07624	0	0.0040	0.0722	Mar-03
32	Apr-03	DUKE ENERGY CORP	DUK	17.59	0.209766	0	0.0040	0.2058	Apr-03
32	May-03	DUKE ENERGY CORP	DUK	19.38	0.117396	0.275	0.0039	0.1135	May-03
32	Jun-03	DUKE ENERGY CORP	DUK	19.95	0.029412	0	0.0036	0.0258	Jun-03
32	Jul-03	DUKE ENERGY CORP	DUK	17.55	-0.1203	0	0.0038	-0.1241	Jul-03
32	Aug-03	DUKE ENERGY CORP	DUK	17.08	-0.01111	0.275	0.0042	-0.0153	Aug-03
32	Sep-03	DUKE ENERGY CORP	DUK	17.81	0.04274	0	0.0046	0.0381	Sep-03

32	Oct-03	DUKE ENERGY CORP	DUK	18.15	0.01909	0	0.0041	0.0150	Oct-03
32	Nov-03	DUKE ENERGY CORP	DUK	18.04	0.009091	0.275	0.0039	0.0052	Nov-03
32	Dec-03	DUKE ENERGY CORP	DUK	20.45	0.133592	0	0.0047	0.1289	Dec-03
32	Jan-04	DUKE ENERGY CORP	DUK	21.73	0.062592	0	0.0042	0.0584	Jan-04
32	Feb-04	DUKE ENERGY CORP	DUK	21.96	0.02324	0.275	0.0038	0.0194	Feb-04
32	Mar-04	DUKE ENERGY CORP	DUK	22.6	0.029144	0	0.0043	0.0248	Mar-04
32	Apr-04	DUKE ENERGY CORP	DUK	21.06	-0.06814	0	0.0039	-0.0720	Apr-04
32	May-04	DUKE ENERGY CORP	DUK	19.94	-0.04012	0.275	0.0040	-0.0441	May-04
32	Jun-04	DUKE ENERGY CORP	DUK	20.29	0.017553	0	0.0048	0.0128	Jun-04
32	Jul-04	DUKE ENERGY CORP	DUK	21.5	0.059635	0	0.0043	0.0553	Jul-04
32	Aug-04	DUKE ENERGY CORP	DUK	22.14	0.042558	0.275	0.0045	0.0381	Aug-04
32	Sep-04	DUKE ENERGY CORP	DUK	22.89	0.033875	0	0.0040	0.0299	Sep-04
32	Oct-04	DUKE ENERGY CORP	DUK	24.53	0.071647	0	0.0038	0.0678	Oct-04
32	Nov-04	DUKE ENERGY CORP	DUK	25.28	0.041786	0.275	0.0041	0.0377	Nov-04
32	Dec-04	DUKE ENERGY CORP	DUK	25.33	0.001978	0	0.0043	-0.0023	Dec-04
32	Jan-05	DUKE ENERGY CORP	DUK	26.79	0.057639	0	0.0041	0.0535	Jan-05
32	Feb-05	DUKE ENERGY CORP	DUK	26.99	0.01773	0.275	0.0035	0.0142	Feb-05
32	Mar-05	DUKE ENERGY CORP	DUK	28.01	0.037792	0	0.0041	0.0337	Mar-05
32	Apr-05	DUKE ENERGY CORP	DUK	29.19	0.042128	0	0.0039	0.0382	Apr-05
32	May-05	DUKE ENERGY CORP	DUK	27.48	-0.04916	0.275	0.0040	-0.0532	May-05
32	Jun-05	DUKE ENERGY CORP	DUK	29.73	0.081878	0	0.0036	0.0783	Jun-05
32	Jul-05	DUKE ENERGY CORP	DUK	29.54	-0.00639	0	0.0034	-0.0098	Jul-05
32	Aug-05	DUKE ENERGY CORP	DUK	28.99	-0.00813	0.31	0.0040	-0.0121	Aug-05
32	Sep-05	DUKE ENERGY CORP	DUK	29.17	0.006209	0	0.0035	0.0027	Sep-05
32	Oct-05	DUKE ENERGY CORP	DUK	26.48	-0.09222	0	0.0039	-0.0961	Oct-05
32	Nov-05	DUKE ENERGY CORP	DUK	26.86	0.026057	0.31	0.0039	0.0222	Nov-05
32	Dec-05	DUKE ENERGY CORP	DUK	27.45	0.021966	0	0.0039	0.0181	Dec-05
32	Jan-06	DUKE ENERGY CORP	DUK	28.35	0.032787	0	0.0040	0.0288	Jan-06
32	Feb-06	DUKE ENERGY CORP	DUK	28.4	0.012698	0.31	0.0036	0.0091	Feb-06
32	Mar-06	DUKE ENERGY CORP	DUK	29.15	0.026408	0	0.0039	0.0225	Mar-06
32	Apr-06	DUKE ENERGY CORP NEW	DUK	29.12	-0.00103	0	0.0039	-0.0049	Apr-06
32	May-06	DUKE ENERGY CORP NEW	DUK	28.22	-0.02026	0.31	0.0048	-0.0251	May-06
32	Jun-06	DUKE ENERGY CORP NEW	DUK	29.37	0.040751	0	0.0044	0.0364	Jun-06
32	Jul-06	DUKE ENERGY CORP NEW	DUK	30.32	0.032346	0	0.0045	0.0278	Jul-06
32	Aug-06	DUKE ENERGY CORP NEW	DUK	30	0	0.32	0.0043	-0.0043	Aug-06
32	Sep-06	DUKE ENERGY CORP NEW	DUK	30.2	0.006667	0	0.0039	0.0028	Sep-06

32	Oct-06	DUKE ENERGY CORP NEW	DUK	31.64	0.047682	0	0.0042	0.0435	Oct-06
32	Nov-06	DUKE ENERGY CORP NEW	DUK	31.72	0.012642	0.32	0.0039	0.0087	Nov-06
32	Dec-06	DUKE ENERGY CORP NEW	DUK	33.21	0.046974	0	0.0036	0.0434	Dec-06
32	Jan-07	DUKE ENERGY CORP NEW	DUK	19.69	0.03617	0	0.0043	0.0319	Jan-07
32	Feb-07	DUKE ENERGY CORP NEW	DUK	19.68	0.010157	0.21	0.0038	0.0064	Feb-07
32	Mar-07	DUKE ENERGY CORP NEW	DUK	20.29	0.030996	0	0.0039	0.0271	Mar-07
32	Apr-07	DUKE ENERGY CORP NEW	DUK	20.52	0.011336	0	0.0042	0.0071	Apr-07
32	May-07	DUKE ENERGY CORP NEW	DUK	19.54	-0.03752	0.21	0.0041	-0.0416	May-07
32	Jun-07	DUKE ENERGY CORP NEW	DUK	18.3	-0.06346	0	0.0040	-0.0675	Jun-07
32	Jul-07	DUKE ENERGY CORP NEW	DUK	17.03	-0.0694	0	0.0046	-0.0740	Jul-07
32	Aug-07	DUKE ENERGY CORP NEW	DUK	18.34	0.089841	0.22	0.0042	0.0856	Aug-07
32	Sep-07	DUKE ENERGY CORP NEW	DUK	18.69	0.019084	0	0.0037	0.0154	Sep-07
32	Oct-07	DUKE ENERGY CORP NEW	DUK	19.17	0.025682	0	0.0043	0.0214	Oct-07
32	Nov-07	DUKE ENERGY CORP NEW	DUK	19.79	0.043819	0.22	0.0039	0.0399	Nov-07
32	Dec-07	DUKE ENERGY CORP NEW	DUK	20.17	0.019202	0	0.0037	0.0155	Dec-07
32	Jan-08	DUKE ENERGY CORP NEW	DUK	18.65	-0.07536	0	0.0040	-0.0794	Jan-08
32	Feb-08	DUKE ENERGY CORP NEW	DUK	17.54	-0.04772	0.22	0.0034	-0.0511	Feb-08
32	Mar-08	DUKE ENERGY CORP NEW	DUK	17.85	0.017674	0	0.0037	0.0140	Mar-08
32	Apr-08	DUKE ENERGY CORP NEW	DUK	18.31	0.02577	0	0.0035	0.0223	Apr-08
32	May-08	DUKE ENERGY CORP NEW	DUK	18.48	0.0213	0.22	0.0037	0.0176	May-08
32	Jun-08	DUKE ENERGY CORP NEW	DUK	17.38	-0.05952	0	0.0040	-0.0635	Jun-08
32	Jul-08	DUKE ENERGY CORP NEW	DUK	17.58	0.011508	0	0.0039	0.0076	Jul-08
32	Aug-08	DUKE ENERGY CORP NEW	DUK	17.44	0.005119	0.23	0.0036	0.0015	Aug-08
32	Sep-08	DUKE ENERGY CORP NEW	DUK	17.43	-0.00057	0	0.0039	-0.0045	Sep-08
32	Oct-08	DUKE ENERGY CORP NEW	DUK	16.38	-0.06024	0	0.0037	-0.0639	Oct-08
32	Nov-08	DUKE ENERGY CORP NEW	DUK	15.56	-0.03602	0.23	0.0036	-0.0396	Nov-08
32	Dec-08	DUKE ENERGY CORP NEW	DUK	15.01	-0.03535	0	0.0033	-0.0386	Dec-08
32	Jan-09	DUKE ENERGY CORP NEW	DUK	15.15	0.009327	0	0.0024	0.0069	Jan-09
32	Feb-09	DUKE ENERGY CORP NEW	DUK	13.47	-0.09571	0.23	0.0030	-0.0987	Feb-09
32	Mar-09	DUKE ENERGY CORP NEW	DUK	14.32	0.063103	0	0.0035	0.0596	Mar-09
32	Apr-09	DUKE ENERGY CORP NEW	DUK	13.81	-0.03561	0	0.0029	-0.0385	Apr-09
32	May-09	DUKE ENERGY CORP NEW	DUK	14.15	0.041274	0.23	0.0033	0.0380	May-09
32	Jun-09	DUKE ENERGY CORP NEW	DUK	14.59	0.031095	0	0.0038	0.0273	Jun-09
32	Jul-09	DUKE ENERGY CORP NEW	DUK	15.48	0.061001	0	0.0036	0.0574	Jul-09
32	Aug-09	DUKE ENERGY CORP NEW	DUK	15.49	0.01615	0.24	0.0036	0.0126	Aug-09
32	Sep-09	DUKE ENERGY CORP NEW	DUK	15.74	0.016139	0	0.0034	0.0127	Sep-09

32	Oct-09	DUKE ENERGY CORP NEW	DUK	15.82	0.005083	0	0.0033	0.0018	Oct-09
32	Nov-09	DUKE ENERGY CORP NEW	DUK	16.68	0.069532	0.24	0.0035	0.0660	Nov-09
32	Dec-09	DUKE ENERGY CORP NEW	DUK	17.21	0.031775	0	0.0034	0.0284	Dec-09
32	Jan-10	DUKE ENERGY CORP NEW	DUK	16.53	-0.03951	0	0.0036	-0.0431	Jan-10
32	Feb-10	DUKE ENERGY CORP NEW	DUK	16.35	0.00363	0.24	0.0033	0.0003	Feb-10
32	Mar-10	DUKE ENERGY CORP NEW	DUK	16.32	-0.00184	0	0.0040	-0.0058	Mar-10
32	Apr-10	DUKE ENERGY CORP NEW	DUK	16.78	0.028186	0	0.0038	0.0244	Apr-10
32	May-10	DUKE ENERGY CORP NEW	DUK	15.96	-0.03457	0.24	0.0034	-0.0380	May-10
32	Jun-10	DUKE ENERGY CORP NEW	DUK	16	0.002506	0	0.0037	-0.0012	Jun-10
32	Jul-10	DUKE ENERGY CORP NEW	DUK	17.1	0.06875	0	0.0031	0.0657	Jul-10
32	Aug-10	DUKE ENERGY CORP NEW	DUK	17.18	0.019006	0.245	0.0032	0.0158	Aug-10
32	Sep-10	DUKE ENERGY CORP NEW	DUK	17.71	0.03085	0	0.0026	0.0283	Sep-10
32	Oct-10	DUKE ENERGY CORP NEW	DUK	18.21	0.028233	0	0.0027	0.0255	Oct-10
32	Nov-10	DUKE ENERGY CORP NEW	DUK	17.55	-0.02279	0.245	0.0032	-0.0260	Nov-10
32	Dec-10	DUKE ENERGY CORP NEW	DUK	17.81	0.014815	0	0.0032	0.0116	Dec-10
32	Jan-11	DUKE ENERGY CORP NEW	DUK	17.88	0.00393	0	0.003567	0.0004	Jan-11
32	Feb-11	DUKE ENERGY CORP NEW	DUK	17.99	0.019855	0.245	0.003683	0.0162	Feb-11
32	Mar-11	DUKE ENERGY CORP NEW	DUK	18.15	0.008894	0	0.003558	0.0053	Mar-11
32	Apr-11	DUKE ENERGY CORP NEW	DUK	18.65	0.027548	0	0.003567	0.0240	Apr-11
32	May-11	DUKE ENERGY CORP NEW	DUK	18.75	0.018499	0.245	0.003342	0.0152	May-11
32	Jun-11	DUKE ENERGY CORP NEW	DUK	18.83	0.004267	0	0.003258	0.0010	Jun-11
32	Jul-11	DUKE ENERGY CORP NEW	DUK	18.6	-0.01222	0	0.003292	-0.0155	Jul-11
32	Aug-11	DUKE ENERGY CORP NEW	DUK	18.91	0.030107	0.25	0.003042	0.0271	Aug-11
32	Sep-11	DUKE ENERGY CORP NEW	DUK	19.99	0.057113	0	0.002358	0.0548	Sep-11
32	Oct-11	DUKE ENERGY CORP NEW	DUK	20.42	0.021511	0	0.002392	0.0191	Oct-11
32	Nov-11	DUKE ENERGY CORP NEW	DUK	20.85	0.033301	0.25	0.002267	0.0310	Nov-11
32	Dec-11	DUKE ENERGY CORP NEW	DUK	22	0.055156	0	0.002483	0.0527	Dec-11
32	Jan-12	DUKE ENERGY CORP NEW	DUK	21.31	-0.03136	0	0.0021	-0.0335	Jan-12
32	Feb-12	DUKE ENERGY CORP NEW	DUK	20.92	-0.00657	0.25	0.002	-0.0086	Feb-12
32	Mar-12	DUKE ENERGY CORP NEW	DUK	21.01	0.004302	0	0.0022	0.0021	Mar-12
32	Apr-12	DUKE ENERGY CORP NEW	DUK	21.43	0.01999	0	0.0025	0.0175	Apr-12
32	May-12	DUKE ENERGY CORP NEW	DUK	21.98	0.037331	0.25	0.0023	0.0350	May-12
32	Jun-12	DUKE ENERGY CORP NEW	DUK	23.06	0.049136	0	0.0018	0.0473	Jun-12
	Jul-12	DUKE ENERGY CORP NEW	DUK	67.78	-0.18213	0	0.002	-0.1841	Jul-12
	Aug-12	DUKE ENERGY CORP NEW	DUK	64.78	-0.03297	0.765	0.0018	-0.0348	Aug-12
	Sep-12	DUKE ENERGY CORP NEW	DUK	64.79	0.000154	0	0.0017	-0.0015	Sep-12

Oct-12	DUKE ENERGY CORP NEW	DUK	65.69	0.013891	0	0.0021	0.0118	Oct-12
Nov-12	DUKE ENERGY CORP NEW	DUK	63.82	-0.01682	0.765	0.0019	-0.0187	Nov-12
Dec-12	DUKE ENERGY CORP NEW	DUK	63.8	-0.00031	0	0.0019	-0.0022	Dec-12
Jan-13	DUKE ENERGY CORP NEW	DUK	68.74	0.077429	0	0.0022	0.0752	Jan-13
Feb-13	DUKE ENERGY CORP NEW	DUK	69.25	0.018548	0.765	0.0022	0.0163	Feb-13
Mar-13	DUKE ENERGY CORP NEW	DUK	72.59	0.048231	0	0.0021	0.0461	Mar-13
Apr-13	DUKE ENERGY CORP NEW	DUK	75.2	0.035955	0	0.0026	0.0334	Apr-13
May-13	DUKE ENERGY CORP NEW	DUK	66.93	-0.0998	0.765	0.0023	-0.1021	May-13
Jun-13	DUKE ENERGY CORP NEW	DUK	67.5	0.008516	0	0.0024	0.0061	Jun-13
Jul-13	DUKE ENERGY CORP NEW	DUK	71	0.051852	0	0.003	0.0489	Jul-13
Aug-13	DUKE ENERGY CORP NEW	DUK	65.6	-0.06507	0.78	0.0028	-0.0679	Aug-13
Sep-13	DUKE ENERGY CORP NEW	DUK	66.78	0.017988	0	0.0029	0.0151	Sep-13
Oct-13	DUKE ENERGY CORP NEW	DUK	71.73	0.074124	0	0.0029	0.0712	Oct-13
Nov-13	DUKE ENERGY CORP NEW	DUK	69.96	-0.0138	0.78	0.0027	-0.0165	Nov-13
Dec-13	DUKE ENERGY CORP NEW	DUK	69.01	-0.01358	0	0.0031	-0.0167	Dec-13
Jan-14	DUKE ENERGY CORP NEW	DUK	70.62	0.02333	0	0.0032	0.0201	Jan-14
Feb-14	DUKE ENERGY CORP NEW	DUK	70.88	0.014727	0.78	0.0026	0.0121	Feb-14
Mar-14	DUKE ENERGY CORP NEW	DUK	71.22	0.004797	0	0.0029	0.0019	Mar-14
Apr-14	DUKE ENERGY CORP NEW	DUK	74.49	0.045914	0	0.0028	0.0431	Apr-14
May-14	DUKE ENERGY CORP NEW	DUK	71.08	-0.03531	0.78	0.0028	-0.0381	May-14
Jun-14	DUKE ENERGY CORP NEW	DUK	74.19	0.043754	0	0.0025	0.0413	Jun-14
Jul-14	DUKE ENERGY CORP NEW	DUK	72.13	-0.02777	0	0.0027	-0.0305	Jul-14
Aug-14	DUKE ENERGY CORP NEW	DUK	73.99	0.036809	0.795	0.0026	0.0342	Aug-14
Sep-14	DUKE ENERGY CORP NEW	DUK	74.77	0.010542	0	0.0023	0.0082	Sep-14
Oct-14	DUKE ENERGY CORP NEW	DUK	82.15	0.098703	0	0.0025	0.0962	Oct-14
Nov-14	DUKE ENERGY CORP NEW	DUK	80.9	-0.00554	0.795	0.0023	-0.0078	Nov-14
Dec-14	DUKE ENERGY CORP NEW	DUK	83.54	0.032633	0	0.0022	0.0304	Dec-14
Jan-15	DUKE ENERGY CORP NEW	DUK	87.14	0.043093	0	0.002	0.0411	Jan-15
Feb-15	DUKE ENERGY CORP NEW	DUK	78.55	-0.08945	0.795	0.0015	-0.0910	Feb-15
Mar-15	DUKE ENERGY CORP NEW	DUK	76.78	-0.02253	0	0.0021	-0.0246	Mar-15
Apr-15	DUKE ENERGY CORP NEW	DUK	77.57	0.010289	0	0.0019	0.0084	Apr-15
May-15	DUKE ENERGY CORP NEW	DUK	75.73	-0.01347	0.795	0.002	-0.0155	May-15
Jun-15	DUKE ENERGY CORP NEW	DUK	70.62	-0.06748	0	0.0023	-0.069777	Jun-15
Jul-15	DUKE ENERGY CORP NEW	DUK	74.22	0.050977	0	0.0024	0.048577	Jul-15
Aug-15	DUKE ENERGY CORP NEW	DUK	70.91	-0.03348	0.825	0.0022	-0.035682	Aug-15
Sep-15	DUKE ENERGY CORP NEW	DUK	71.94	0.014525	0	0.0021	0.012425	Sep-15

Oct-15	DUKE ENERGY CORP NEW	DUK	71.47	-0.00653	0	0.0021	-0.008633	Oct-15
Nov-15	DUKE ENERGY CORP NEW	DUK	67.76	-0.04037	0.825	0.0022	-0.042567	Nov-15
Dec-15	DUKE ENERGY CORP NEW	DUK	71.39	0.053571	0	0.0022	0.051371	Dec-15
Jan-16	DUKE ENERGY CORP NEW	DUK	75.3	0.05477	0	0.0021	0.05267	Jan-16
Feb-16	DUKE ENERGY CORP NEW	DUK	74.28	-0.00259	0.825	0.002	-0.00459	Feb-16
Mar-16	DUKE ENERGY CORP NEW	DUK	80.68	0.08616	0	0.0018	0.08436	Mar-16
Apr-16	DUKE ENERGY CORP NEW	DUK	78.78	-0.02355	0	0.0017	-0.02525	Apr-16
May-16	DUKE ENERGY CORP NEW	DUK	78.23	0.003491	0.825	0.002	0.001491	May-16
Jun-16	DUKE ENERGY CORP NEW	DUK	85.79	0.096638	0	0.0018	0.094838	Jun-16
Jul-16	DUKE ENERGY CORP NEW	DUK	85.59	-0.00233	0	0.0014	-0.003731	Jul-16
Aug-16	DUKE ENERGY CORP NEW	DUK	79.66	-0.05929	0.855	0.0016	-0.060894	Aug-16
Sep-16	DUKE ENERGY CORP NEW	DUK	80.04	0.00477	0	0.0015	0.00327	Sep-16
Oct-16	DUKE ENERGY CORP NEW	DUK	80.02	-0.00025	0	0.0016	-0.00185	Oct-16
Nov-16	DUKE ENERGY CORP NEW	DUK	73.77	-0.06742	0.855	0.0018	-0.069221	Nov-16
Dec-16	DUKE ENERGY CORP NEW	DUK	77.62	0.052189	0	0.0022	0.049989	Dec-16
Jan-17	DUKE ENERGY CORP NEW	DUK	78.54	0.011853	0	0.0024	0.009453	Jan-17
Feb-17	DUKE ENERGY CORP NEW	DUK	82.55	0.061943	0.855	0.0021	0.059843	Feb-17
Mar-17	DUKE ENERGY CORP NEW	DUK	82.01	-0.00654	0	0.0023	-0.008841	Mar-17
Apr-17	DUKE ENERGY CORP NEW	DUK	82.5	0.005975	0	0.0021	0.003875	Apr-17
May-17	DUKE ENERGY CORP NEW	DUK	85.68	0.048909	0.855	0.0024	0.046509	May-17
Jun-17	DUKE ENERGY CORP NEW	DUK	83.59	-0.02439	0	0.0021	-0.026493	Jun-17
Jul-17	DUKE ENERGY CORP NEW	DUK	85.12	0.018304	0	0.0022	0.016104	Jul-17
Aug-17	DUKE ENERGY CORP NEW	DUK	87.3	0.036067	0.89	0.0022	0.033867	Aug-17
Sep-17	DUKE ENERGY CORP NEW	DUK	83.92	-0.03872	0	0.0019	-0.040617	Sep-17
Oct-17	DUKE ENERGY CORP NEW	DUK	88.31	0.052312	0	0.0022	0.050112	Oct-17
Nov-17	DUKE ENERGY CORP NEW	DUK	89.18	0.01993	0.89	0.0021	0.01783	Nov-17
Dec-17	DUKE ENERGY CORP NEW	DUK	84.11	-0.05685	0	0.002	-0.058851	Dec-17
Jan-18	DUKE ENERGY CORP NEW	DUK	78.5	-0.0667	0	0.0024	-0.069098	Jan-18
Feb-18	DUKE ENERGY CORP NEW	DUK	75.34	-0.02892	0.89	0.0022	-0.031117	Feb-18
Mar-18	DUKE ENERGY CORP NEW	DUK	77.47	0.028272	0	0.0024	0.025872	Mar-18
Apr-18	DUKE ENERGY CORP NEW	DUK	80.16	0.034723	0	0.0025	0.032223	Apr-18
May-18	DUKE ENERGY CORP NEW	DUK	77.16	-0.02632	0.89	0.0025	-0.028822	May-18
Jun-18	DUKE ENERGY CORP NEW	DUK	79.08	0.024883	0	0.0023	0.022583	Jun-18
Jul-18	DUKE ENERGY CORP NEW	DUK	81.62	0.032119	0	0.0025	0.029619	Jul-18
Aug-18	DUKE ENERGY CORP NEW	DUK	81.24	0.006708	0.9275	0.0025	0.004208	Aug-18
Sep-18	DUKE ENERGY CORP NEW	DUK	80.02	-0.01502	0	0.0022	-0.017217	Sep-18

Oct-18	DUKE ENERGY CORP NEW	DUK	82.63	0.032617	0	0.003	0.029617	Oct-18
Nov-18	DUKE ENERGY CORP NEW	DUK	88.57	0.083111	0.9275	0.0028	0.080311	Nov-18
Dec-18	DUKE ENERGY CORP NEW	DUK	86.3	-0.02563	0	0.0027	-0.028329	Dec-18
Jan-19	DUKE ENERGY CORP NEW	DUK	87.78	0.017149	0	0.0025	0.014649	Jan-19
Feb-19	DUKE ENERGY CORP NEW	DUK	89.66	0.031983	0.9275	0.0022	0.029783	Feb-19
Mar-19	DUKE ENERGY CORP NEW	DUK	90	0.003792	0	0.0023	0.001492	Mar-19
Apr-19	DUKE ENERGY CORP NEW	DUK	91.12	0.012444	0	0.0023	0.010144	Apr-19
May-19	DUKE ENERGY CORP NEW	DUK	85.61	-0.05029	0.9275	0.0023	-0.052591	May-19
Jun-19	DUKE ENERGY CORP NEW	DUK	88.24	0.030721	0	0.0018	0.028921	Jun-19
Jul-19	DUKE ENERGY CORP NEW	DUK	86.72	-0.01723	0	0.0021	-0.019326	Jul-19
Aug-19	DUKE ENERGY CORP NEW	DUK	92.74	0.080316	0.945	0.0019	0.078416	Aug-19
Sep-19	DUKE ENERGY CORP NEW	DUK	95.86	0.033642	0	0.0015	0.032142	Sep-19
Oct-19	DUKE ENERGY CORP NEW	DUK	94.26	-0.01669	0	0.0016	-0.018291	Oct-19
Nov-19	DUKE ENERGY CORP NEW	DUK	88.17	-0.05458	0.945	0.0016	-0.056183	Nov-19
Dec-19	DUKE ENERGY CORP NEW	DUK	91.21	0.034479	0	0.0018	0.032679	Dec-19
Jan-20	DUKE ENERGY CORP NEW	DUK	97.63	0.070387	0	0.002	0.068387	Jan-20
Feb-20	DUKE ENERGY CORP NEW	DUK	91.7	-0.05106	0.945	0.0015	-0.05256	Feb-20
Mar-20	DUKE ENERGY CORP NEW	DUK	80.88	-0.11799	0	0.00123	-0.119223	Mar-20
Apr-20	DUKE ENERGY CORP NEW	DUK	84.66	0.046736	0	0.0009	0.045836	Apr-20
May-20	DUKE ENERGY CORP NEW	DUK	85.63	0.02262	0.945	0.0009	0.02172	May-20
Jun-20	DUKE ENERGY CORP NEW	DUK	79.89	-0.06703	0	0.0009	-0.067933	Jun-20
Jul-20	DUKE ENERGY CORP NEW	DUK	84.74	0.060708	0	0.001	0.059708	Jul-20
Aug-20	DUKE ENERGY CORP NEW	DUK	80.34	-0.04054	0.965	0.0008	-0.041336	Aug-20
Sep-20	DUKE ENERGY CORP NEW	DUK	88.56	0.102315	0	0	0.102315	Sep-20
Oct-20	DUKE ENERGY CORP NEW	DUK	92.11	0.040086	0	0.0009	0.039186	Oct-20
Nov-20	DUKE ENERGY CORP NEW	DUK	92.66	0.016448	0.965	0.0011	0.015348	Nov-20
Dec-20	DUKE ENERGY CORP NEW	DUK	91.56	-0.01187	0	0.0011	-0.012971	Dec-20
Jan-21	DUKE ENERGY CORP NEW	DUK	94	0.026649	0	0.001517	0.025133	Jan-21
Feb-21	DUKE ENERGY CORP NEW	DUK	85.59	-0.0792	0.965	0.0017	-0.080902	Feb-21
Mar-21	DUKE ENERGY CORP NEW	DUK	96.53	0.127819	0	0.00195	0.125869	Mar-21
Apr-21	DUKE ENERGY CORP NEW	DUK	100.69	0.043095	0	0.001917	0.041179	Apr-21
May-21	DUKE ENERGY CORP NEW	DUK	100.22	0.004916	0.965	0.001933	0.002983	May-21
Jun-21	DUKE ENERGY CORP NEW	DUK	98.72	-0.01497	0	0.0018	-0.016767	Jun-21
Jul-21	DUKE ENERGY CORP NEW	DUK	105.11	0.064729	0	0.001617	0.063112	Jul-21
Aug-21	DUKE ENERGY CORP NEW	DUK	104.66	0.00509	0.985	0.0016	0.00349	Aug-21

Unique Index Number	Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP	Trading Date
28	Jan-26	CONSOLIDATED GAS CO NY		98.25	0.039683	0	0.0031	0.0366	Jan-26
28	Feb-26	CONSOLIDATED GAS CO NY		96.875	-0.00127	1.25	0.0028	-0.0041	Feb-26
28	Mar-26	CONSOLIDATED GAS CO NY		91	-0.06065	0	0.0032	-0.0638	Mar-26
28	Apr-26	CONSOLIDATED GAS CO NY		93	0.021978	0	0.0030	0.0190	Apr-26
28	May-26	CONSOLIDATED GAS CO NY		95.5	0.040323	1.25	0.0028	0.0375	May-26
28	Jun-26	CONSOLIDATED GAS CO NY		99	0.036649	0	0.0033	0.0333	Jun-26
28	Jul-26	CONSOLIDATED GAS CO NY		109.625	0.107323	0	0.0031	0.1042	Jul-26
28	Aug-26	CONSOLIDATED GAS CO NY		109	0.005701	1.25	0.0031	0.0026	Aug-26
28	Sep-26	CONSOLIDATED GAS CO NY		110	0.009174	0	0.0030	0.0062	Sep-26
28	Oct-26	CONSOLIDATED GAS CO NY		106.375	-0.03296	0	0.0030	-0.0360	Oct-26
28	Nov-26	CONSOLIDATED GAS CO NY		111.5	0.059929	1.25	0.0031	0.0568	Nov-26
28	Dec-26	CONSOLIDATED GAS CO NY		108.75	-0.02466	0	0.0030	-0.0277	Dec-26
28	Jan-27	CONSOLIDATED GAS CO NY		99.625	-0.08391	0	0.0030	-0.0869	Jan-27
28	Feb-27	CONSOLIDATED GAS CO NY		100	0.057191	1.25	0.0027	0.0545	Feb-27
28	Mar-27	CONSOLIDATED GAS CO NY		97.25	-0.0275	0	0.0029	-0.0304	Mar-27
28	Apr-27	CONSOLIDATED GAS CO NY		97.25	0	0	0.0027	-0.0027	Apr-27
28	May-27	CONSOLIDATED GAS CO NY		104.25	0.084833	1.25	0.0028	0.0820	May-27
28	Jun-27	CONSOLIDATED GAS CO NY		100.125	-0.03957	0	0.0027	-0.0423	Jun-27
28	Jul-27	CONSOLIDATED GAS CO NY		110.5	0.10362	0	0.0027	0.1009	Jul-27
28	Aug-27	CONSOLIDATED GAS CO NY		109.5	0.002262	1.25	0.0029	-0.0006	Aug-27
28	Sep-27	CONSOLIDATED GAS CO NY		119	0.086758	0	0.0027	0.0841	Sep-27
28	Oct-27	CONSOLIDATED GAS CO NY		111.25	-0.06513	0	0.0028	-0.0679	Oct-27
28	Nov-27	CONSOLIDATED GAS CO NY		120	0.089888	1.25	0.0027	0.0872	Nov-27
28	Dec-27	CONSOLIDATED GAS CO NY		125	0.041667	0	0.0027	0.0390	Dec-27
28	Jan-28	CONSOLIDATED GAS CO NY		126.5	0.012	0	0.0027	0.0093	Jan-28
28	Feb-28	CONSOLIDATED GAS CO NY		131	0.045455	1.25	0.0025	0.0430	Feb-28
28	Mar-28	CONSOLIDATED GAS CO NY		145.5	0.110687	0	0.0027	0.1080	Mar-28
28	Apr-28	CONSOLIDATED GAS CO NY		164.75	0.132302	0	0.0026	0.1297	Apr-28
28	May-28	CONSOLIDATED GAS CO NY		155.25	-0.05008	1.25	0.0027	-0.0528	May-28
28	Jun-28	CONSOLIDATED GAS CO NY		152.875	-0.0153	0	0.0027	-0.0180	Jun-28
28	Jul-28	CONSOLIDATED GAS CO NY		146	-0.04497	0	0.0027	-0.0477	Jul-28
28	Aug-28	CONSOLIDATED GAS CO NY		79	0.090753	1.25	0.0029	0.0879	Aug-28
28	Sep-28	CONSOLIDATED GAS CO NY		78.25	-0.00949	0	0.0027	-0.0122	Sep-28
28	Oct-28	CONSOLIDATED GAS CO NY		78.125	-0.0016	0	0.0030	-0.0046	Oct-28
28	Nov-28	CONSOLIDATED GAS CO NY		109.625	0.4128	0.75	0.0027	0.4101	Nov-28

28	Dec-28	CONSOLIDATED GAS CO NY	108.875	-0.00684	0	0.0029	-0.0097	Dec-28
28	Jan-29	CONSOLIDATED GAS CO NY	115.875	0.064294	0	0.0029	0.0614	Jan-29
28	Feb-29	CONSOLIDATED GAS CO NY	110.5	-0.03991	0.75	0.0027	-0.0426	Feb-29
28	Mar-29	CONSOLIDATED GAS CO NY	105	-0.04977	0	0.0028	-0.0526	Mar-29
28	Apr-29	CONSOLIDATED GAS CO NY	109.125	0.039286	0	0.0034	0.0359	Apr-29
28	May-29	CONSOLIDATED GAS CO NY	110.5	0.019473	0.75	0.0030	0.0165	May-29
28	Jun-29	CONSOLIDATED GAS CO NY	131.125	0.186652	0	0.0029	0.1838	Jun-29
28	Jul-29	CONSOLIDATED GAS CO NY	146	0.113441	0	0.0032	0.1102	Jul-29
28	Aug-29	CONSOLIDATED GAS CO NY	180.75	0.243151	0.75	0.0030	0.2402	Aug-29
28	Sep-29	CONSOLIDATED GAS CO NY	154	-0.10128	0	0.0032	-0.1045	Sep-29
28	Oct-29	CONSOLIDATED GAS CO NY	110	-0.28571	0	0.0031	-0.2888	Oct-29
28	Nov-29	CONSOLIDATED GAS CO NY	97	-0.10909	1	0.0026	-0.1117	Nov-29
28	Dec-29	CONSOLIDATED GAS CO NY	100.125	0.032216	0	0.0031	0.0291	Dec-29
28	Jan-30	CONSOLIDATED GAS CO NY	111	0.108614	0	0.0029	0.1057	Jan-30
28	Feb-30	CONSOLIDATED GAS CO NY	119.75	0.087838	1	0.0026	0.0852	Feb-30
28	Mar-30	CONSOLIDATED GAS CO NY	122.875	0.026096	0	0.0029	0.0232	Mar-30
28	Apr-30	CONSOLIDATED GAS CO NY	132	0.074262	0	0.0027	0.0716	Apr-30
28	May-30	CONSOLIDATED GAS CO NY	131.875	0.006629	1	0.0027	0.0039	May-30
28	Jun-30	CONSOLIDATED GAS CO NY	108.25	-0.17915	0	0.0029	-0.1820	Jun-30
28	Jul-30	CONSOLIDATED GAS CO NY	107.75	-0.00462	0	0.0028	-0.0074	Jul-30
28	Aug-30	CONSOLIDATED GAS CO NY	108.75	0.018561	1	0.0026	0.0160	Aug-30
28	Sep-30	CONSOLIDATED GAS CO NY	100	-0.08046	0	0.0029	-0.0834	Sep-30
28	Oct-30	CONSOLIDATED GAS CO NY	93.75	-0.0625	0	0.0027	-0.0652	Oct-30
28	Nov-30	CONSOLIDATED GAS CO NY	87.5	-0.056	1	0.0026	-0.0586	Nov-30
28	Dec-30	CONSOLIDATED GAS CO NY	84	-0.04	0	0.0028	-0.0428	Dec-30
28	Jan-31	CONSOLIDATED GAS CO NY	89.5	0.065476	0	0.0028	0.0627	Jan-31
28	Feb-31	CONSOLIDATED GAS CO NY	100	0.128492	1	0.0026	0.1259	Feb-31
28	Mar-31	CONSOLIDATED GAS CO NY	101.25	0.0125	0	0.0029	0.0096	Mar-31
28	Apr-31	CONSOLIDATED GAS CO NY	94.25	-0.06914	0	0.0027	-0.0718	Apr-31
28	May-31	CONSOLIDATED GAS CO NY	86.75	-0.06897	1	0.0026	-0.0716	May-31
28	Jun-31	CONSOLIDATED GAS CO NY	96.5	0.112392	0	0.0028	0.1096	Jun-31
28	Jul-31	CONSOLIDATED GAS CO NY	91.5	-0.05181	0	0.0027	-0.0545	Jul-31
28	Aug-31	CONSOLIDATED GAS CO NY	93.25	0.030055	1	0.0027	0.0274	Aug-31
28	Sep-31	CONSOLIDATED GAS CO NY	67	-0.2815	0	0.0027	-0.2842	Sep-31
28	Oct-31	CONSOLIDATED GAS CO NY	72.875	0.087687	0	0.0029	0.0848	Oct-31
28	Nov-31	CONSOLIDATED GAS CO NY	67.75	-0.0566	1	0.0031	-0.0597	Nov-31
28	Dec-31	CONSOLIDATED GAS CO NY	60.125	-0.11255	0	0.0032	-0.1157	Dec-31
28	Jan-32	CONSOLIDATED GAS CO NY	57.125	-0.0499	0	0.0032	-0.0531	Jan-32

28	Feb-32	CONSOLIDATED GAS CO NY	62	0.102845	1	0.0032	0.0996	Feb-32
28	Mar-32	CONSOLIDATED GAS CO NY	58.125	-0.0625	0	0.0031	-0.0656	Mar-32
28	Apr-32	CONSOLIDATED GAS CO NY	49.5	-0.14839	0	0.0030	-0.1514	Apr-32
28	May-32	CONSOLIDATED GAS CO NY	36	-0.25253	1	0.0028	-0.2553	May-32
28	Jun-32	CONSOLIDATED GAS CO NY	35.5	-0.01389	0	0.0028	-0.0167	Jun-32
28	Jul-32	CONSOLIDATED GAS CO NY	47	0.323944	0	0.0028	0.3211	Jul-32
28	Aug-32	CONSOLIDATED GAS CO NY	60.75	0.31383	1	0.0028	0.3110	Aug-32
28	Sep-32	CONSOLIDATED GAS CO NY	61.375	0.010288	0	0.0026	0.0077	Sep-32
28	Oct-32	CONSOLIDATED GAS CO NY	56.875	-0.07332	0	0.0027	-0.0760	Oct-32
28	Nov-32	CONSOLIDATED GAS CO NY	55	-0.01539	1	0.0026	-0.0180	Nov-32
28	Dec-32	CONSOLIDATED GAS CO NY	58.875	0.070455	0	0.0027	0.0678	Dec-32
28	Jan-33	CONSOLIDATED GAS CO NY	57.375	-0.02548	0	0.0027	-0.0282	Jan-33
28	Feb-33	CONSOLIDATED GAS CO NY	45.75	-0.18519	1	0.0023	-0.1875	Feb-33
28	Mar-33	CONSOLIDATED GAS CO NY	40.875	-0.10656	0	0.0027	-0.1093	Mar-33
28	Apr-33	CONSOLIDATED GAS CO NY	48	0.174312	0	0.0025	0.1718	Apr-33
28	May-33	CONSOLIDATED GAS CO NY	54.875	0.160938	0.85	0.0028	0.1581	May-33
28	Jun-33	CONSOLIDATED GAS CO NY	57	0.038724	0	0.0025	0.0362	Jun-33
28	Jul-33	CONSOLIDATED GAS CO NY	51.625	-0.0943	0	0.0026	-0.0969	Jul-33
28	Aug-33	CONSOLIDATED GAS CO NY	50.25	-0.01017	0.85	0.0026	-0.0128	Aug-33
28	Sep-33	CONSOLIDATED GAS CO NY	41.5	-0.17413	0	0.0025	-0.1766	Sep-33
28	Oct-33	CONSOLIDATED GAS CO NY	39.5	-0.04819	0	0.0026	-0.0508	Oct-33
28	Nov-33	CONSOLIDATED GAS CO NY	37.5	-0.03165	0.75	0.0025	-0.0341	Nov-33
28	Dec-33	CONSOLIDATED GAS CO NY	38.625	0.03	0	0.0028	0.0272	Dec-33
28	Jan-34	CONSOLIDATED GAS CO NY	43.5	0.126214	0	0.0029	0.1233	Jan-34
28	Feb-34	CONSOLIDATED GAS CO NY	39.5	-0.07471	0.75	0.0024	-0.0771	Feb-34
28	Mar-34	CONSOLIDATED GAS CO NY	38	-0.03798	0	0.0027	-0.0407	Mar-34
28	Apr-34	CONSOLIDATED GAS CO NY	35.125	-0.07566	0	0.0025	-0.0782	Apr-34
28	May-34	CONSOLIDATED GAS CO NY	32	-0.07473	0.5	0.0025	-0.0772	May-34
28	Jun-34	CONSOLIDATED GAS CO NY	33.375	0.042969	0	0.0024	0.0406	Jun-34
28	Jul-34	CONSOLIDATED GAS CO NY	27.5	-0.17603	0	0.0024	-0.1784	Jul-34
28	Aug-34	CONSOLIDATED GAS CO NY	28	0.036364	0.5	0.0024	0.0340	Aug-34
28	Sep-34	CONSOLIDATED GAS CO NY	29.75	0.0625	0	0.0023	0.0602	Sep-34
28	Oct-34	CONSOLIDATED GAS CO NY	26	-0.12605	0	0.0027	-0.1288	Oct-34
28	Nov-34	CONSOLIDATED GAS CO NY	23.875	-0.0625	0.5	0.0025	-0.0650	Nov-34
28	Dec-34	CONSOLIDATED GAS CO NY	20.25	-0.15183	0	0.0025	-0.1543	Dec-34
28	Jan-35	CONSOLIDATED GAS CO NY	19.75	-0.02469	0	0.0025	-0.0272	Jan-35
28	Feb-35	CONSOLIDATED GAS CO NY	18.375	-0.05696	0.25	0.0021	-0.0591	Feb-35
28	Mar-35	CONSOLIDATED GAS CO NY	20.25	0.102041	0	0.0022	0.0998	Mar-35

28	Apr-35	CONSOLIDATED GAS CO NY	22.625	0.117284	0	0.0023	0.1150	Apr-35
28	May-35	CONSOLIDATED GAS CO NY	23.625	0.055249	0.25	0.0023	0.0529	May-35
28	Jun-35	CONSOLIDATED GAS CO NY	25.875	0.095238	0	0.0022	0.0930	Jun-35
28	Jul-35	CONSOLIDATED GAS CO NY	29.5	0.140097	0	0.0024	0.1377	Jul-35
28	Aug-35	CONSOLIDATED GAS CO NY	28.5	-0.02542	0.25	0.0023	-0.0277	Aug-35
28	Sep-35	CONSOLIDATED GAS CO NY	27.375	-0.03947	0	0.0023	-0.0418	Sep-35
28	Oct-35	CONSOLIDATED GAS CO NY	29.5	0.077626	0	0.0023	0.0753	Oct-35
28	Nov-35	CONSOLIDATED GAS CO NY	31.5	0.076271	0.25	0.0024	0.0739	Nov-35
28	Dec-35	CONSOLIDATED GAS CO NY	31.75	0.007937	0	0.0024	0.0055	Dec-35
28	Jan-36	CONSOLIDATED GAS CO NY	36.125	0.137795	0	0.0024	0.1354	Jan-36
28	Feb-36	CONSOLIDATED GAS CO NY	33.75	-0.05882	0.25	0.0023	-0.0611	Feb-36
28	Mar-36	CONSOLIDATED EDISON CO NY IN	33	-0.02222	0	0.0024	-0.0246	Mar-36
28	Apr-36	CONSOLIDATED EDISON CO NY IN	29.375	-0.10985	0	0.0022	-0.1120	Apr-36
28	May-36	CONSOLIDATED EDISON CO NY IN	32.75	0.123404	0.25	0.0022	0.1212	May-36
28	Jun-36	CONSOLIDATED EDISON CO NY IN	35	0.068702	0	0.0024	0.0663	Jun-36
28	Jul-36	CONSOLIDATED EDISON CO NY IN	41.75	0.192857	0	0.0023	0.1906	Jul-36
28	Aug-36	CONSOLIDATED EDISON CO NY IN	43.875	0.062874	0.5	0.0023	0.0606	Aug-36
28	Sep-36	CONSOLIDATED EDISON CO NY IN	42.75	-0.02564	0	0.0021	-0.0277	Sep-36
28	Oct-36	CONSOLIDATED EDISON CO NY IN	47.875	0.119883	0	0.0023	0.1176	Oct-36
28	Nov-36	CONSOLIDATED EDISON CO NY IN	47.25	0.002611	0.75	0.0022	0.0004	Nov-36
28	Dec-36	CONSOLIDATED EDISON CO NY IN	44.75	-0.05291	0	0.0022	-0.0551	Dec-36
28	Jan-37	CONSOLIDATED EDISON CO NY IN	46.5	0.039106	0	0.0021	0.0370	Jan-37
28	Feb-37	CONSOLIDATED EDISON CO NY IN	42.5	-0.07527	0.5	0.0020	-0.0773	Feb-37
28	Mar-37	CONSOLIDATED EDISON CO NY IN	40.625	-0.04412	0	0.0022	-0.0463	Mar-37
28	Apr-37	CONSOLIDATED EDISON CO NY IN	37.75	-0.07077	0	0.0023	-0.0731	Apr-37
28	May-37	CONSOLIDATED EDISON CO NY IN	35.5	-0.04636	0.5	0.0022	-0.0486	May-37
28	Jun-37	CONSOLIDATED EDISON CO NY IN	33.25	-0.06338	0	0.0025	-0.0659	Jun-37
28	Jul-37	CONSOLIDATED EDISON CO NY IN	38.625	0.161654	0	0.0024	0.1593	Jul-37
28	Aug-37	CONSOLIDATED EDISON CO NY IN	34.375	-0.09709	0.5	0.0023	-0.0994	Aug-37
28	Sep-37	CONSOLIDATED EDISON CO NY IN	30.875	-0.10182	0	0.0023	-0.1041	Sep-37
28	Oct-37	CONSOLIDATED EDISON CO NY IN	26	-0.1579	0	0.0023	-0.1602	Oct-37
28	Nov-37	CONSOLIDATED EDISON CO NY IN	27	0.057692	0.5	0.0024	0.0553	Nov-37
28	Dec-37	CONSOLIDATED EDISON CO NY IN	21.875	-0.18982	0	0.0023	-0.1921	Dec-37
28	Jan-38	CONSOLIDATED EDISON CO NY IN	22	0.005714	0	0.0023	0.0034	Jan-38
28	Feb-38	CONSOLIDATED EDISON CO NY IN	21.625	0.005682	0.5	0.0021	0.0036	Feb-38
28	Mar-38	CONSOLIDATED EDISON CO NY IN	17.375	-0.19653	0	0.0023	-0.1988	Mar-38
28	Apr-38	CONSOLIDATED EDISON CO NY IN	21.5	0.23741	0	0.0022	0.2352	Apr-38
28	May-38	CONSOLIDATED EDISON CO NY IN	22.125	0.052326	0.5	0.0022	0.0501	May-38

28	Jun-38	CONSOLIDATED EDISON CO NY IN	26.875	0.214689	0	0.0021	0.2126	Jun-38
28	Jul-38	CONSOLIDATED EDISON CO NY IN	28	0.04186	0	0.0021	0.0398	Jul-38
28	Aug-38	CONSOLIDATED EDISON CO NY IN	26.125	-0.04911	0.5	0.0022	-0.0513	Aug-38
28	Sep-38	CONSOLIDATED EDISON CO NY IN	27	0.033493	0	0.0021	0.0314	Sep-38
28	Oct-38	CONSOLIDATED EDISON CO NY IN	33	0.222222	0	0.0022	0.2200	Oct-38
28	Nov-38	CONSOLIDATED EDISON CO NY IN	30	-0.07576	0.5	0.0021	-0.0779	Nov-38
28	Dec-38	CONSOLIDATED EDISON CO NY IN	31.25	0.041667	0	0.0022	0.0395	Dec-38
28	Jan-39	CONSOLIDATED EDISON CO NY IN	31.625	0.012	0	0.0021	0.0099	Jan-39
28	Feb-39	CONSOLIDATED EDISON CO NY IN	34	0.090909	0.5	0.0019	0.0890	Feb-39
28	Mar-39	CONSOLIDATED EDISON CO NY IN	29	-0.14706	0	0.0021	-0.1492	Mar-39
28	Apr-39	CONSOLIDATED EDISON CO NY IN	29.75	0.025862	0	0.0019	0.0240	Apr-39
28	May-39	CONSOLIDATED EDISON CO NY IN	31.5	0.07563	0.5	0.0020	0.0736	May-39
28	Jun-39	CONSOLIDATED EDISON CO NY IN	29.25	-0.07143	0	0.0018	-0.0732	Jun-39
28	Jul-39	CONSOLIDATED EDISON CO NY IN	32.75	0.119658	0	0.0019	0.1178	Jul-39
28	Aug-39	CONSOLIDATED EDISON CO NY IN	30.125	-0.06489	0.5	0.0018	-0.0667	Aug-39
28	Sep-39	CONSOLIDATED EDISON CO NY IN	30.5	0.012448	0	0.0019	0.0105	Sep-39
28	Oct-39	CONSOLIDATED EDISON CO NY IN	31.125	0.020492	0	0.0023	0.0182	Oct-39
28	Nov-39	CONSOLIDATED EDISON CO NY IN	30.375	-0.00803	0.5	0.0020	-0.0100	Nov-39
28	Dec-39	CONSOLIDATED EDISON CO NY IN	30.625	0.00823	0	0.0019	0.0063	Dec-39
28	Jan-40	CONSOLIDATED EDISON CO NY IN	32.125	0.04898	0	0.0020	0.0470	Jan-40
28	Feb-40	CONSOLIDATED EDISON CO NY IN	31.375	-0.00778	0.5	0.0018	-0.0096	Feb-40
28	Mar-40	CONSOLIDATED EDISON CO NY IN	31.875	0.015936	0	0.0019	0.0140	Mar-40
28	Apr-40	CONSOLIDATED EDISON CO NY IN	31.875	0	0	0.0018	-0.0018	Apr-40
28	May-40	CONSOLIDATED EDISON CO NY IN	25	-0.2	0.5	0.0019	-0.2019	May-40
28	Jun-40	CONSOLIDATED EDISON CO NY IN	28.75	0.15	0	0.0019	0.1481	Jun-40
28	Jul-40	CONSOLIDATED EDISON CO NY IN	28.875	0.004348	0	0.0020	0.0023	Jul-40
28	Aug-40	CONSOLIDATED EDISON CO NY IN	28	-0.01299	0.5	0.0019	-0.0149	Aug-40
28	Sep-40	CONSOLIDATED EDISON CO NY IN	26.625	-0.04911	0	0.0018	-0.0509	Sep-40
28	Oct-40	CONSOLIDATED EDISON CO NY IN	26.5	-0.0047	0	0.0018	-0.0065	Oct-40
28	Nov-40	CONSOLIDATED EDISON CO NY IN	21.875	-0.15566	0.5	0.0018	-0.1575	Nov-40
28	Dec-40	CONSOLIDATED EDISON CO NY IN	22.5	0.028571	0	0.0017	0.0269	Dec-40
28	Jan-41	CONSOLIDATED EDISON CO NY IN	22.125	-0.01667	0	0.0016	-0.0183	Jan-41
28	Feb-41	CONSOLIDATED EDISON CO NY IN	22.125	0.022599	0.5	0.0016	0.0210	Feb-41
28	Mar-41	CONSOLIDATED EDISON CO NY IN	21.25	-0.03955	0	0.0018	-0.0413	Mar-41
28	Apr-41	CONSOLIDATED EDISON CO NY IN	19.375	-0.08824	0	0.0017	-0.0899	Apr-41
28	May-41	CONSOLIDATED EDISON CO NY IN	17.5	-0.07097	0.5	0.0017	-0.0727	May-41
28	Jun-41	CONSOLIDATED EDISON CO NY IN	18.5	0.057143	0	0.0016	0.0555	Jun-41
28	Jul-41	CONSOLIDATED EDISON CO NY IN	19	0.027027	0	0.0016	0.0254	Jul-41

28	Aug-41	CONSOLIDATED EDISON CO NY IN	18	-0.03158	0.4	0.0016	-0.0332	Aug-41
28	Sep-41	CONSOLIDATED EDISON CO NY IN	16.875	-0.0625	0	0.0016	-0.0641	Sep-41
28	Oct-41	CONSOLIDATED EDISON CO NY IN	15.75	-0.06667	0	0.0016	-0.0683	Oct-41
28	Nov-41	CONSOLIDATED EDISON CO NY IN	13.625	-0.10952	0.4	0.0014	-0.1109	Nov-41
28	Dec-41	CONSOLIDATED EDISON CO NY IN	12.375	-0.09174	0	0.0016	-0.0933	Dec-41
28	Jan-42	CONSOLIDATED EDISON CO NY IN	13.5	0.090909	0	0.0021	0.0888	Jan-42
28	Feb-42	CONSOLIDATED EDISON CO NY IN	12.625	-0.03519	0.4	0.0019	-0.0371	Feb-42
28	Mar-42	CONSOLIDATED EDISON CO NY IN	11.5	-0.08911	0	0.0021	-0.0912	Mar-42
28	Apr-42	CONSOLIDATED EDISON CO NY IN	11.875	0.032609	0	0.0020	0.0306	Apr-42
28	May-42	CONSOLIDATED EDISON CO NY IN	12.25	0.065263	0.4	0.0019	0.0634	May-42
28	Jun-42	CONSOLIDATED EDISON CO NY IN	13.25	0.081633	0	0.0021	0.0795	Jun-42
28	Jul-42	CONSOLIDATED EDISON CO NY IN	13.25	0	0	0.0021	-0.0021	Jul-42
28	Aug-42	CONSOLIDATED EDISON CO NY IN	13.125	0.020755	0.4	0.0021	0.0187	Aug-42
28	Sep-42	CONSOLIDATED EDISON CO NY IN	13.375	0.019048	0	0.0020	0.0170	Sep-42
28	Oct-42	CONSOLIDATED EDISON CO NY IN	16.25	0.214953	0	0.0021	0.2129	Oct-42
28	Nov-42	CONSOLIDATED EDISON CO NY IN	15.25	-0.03692	0.4	0.0020	-0.0389	Nov-42
28	Dec-42	CONSOLIDATED EDISON CO NY IN	15.5	0.016393	0	0.0021	0.0143	Dec-42
28	Jan-43	CONSOLIDATED EDISON CO NY IN	17.375	0.120968	0	0.0020	0.1190	Jan-43
28	Feb-43	CONSOLIDATED EDISON CO NY IN	19.125	0.123741	0.4	0.0019	0.1218	Feb-43
28	Mar-43	CONSOLIDATED EDISON CO NY IN	19.875	0.039216	0	0.0021	0.0371	Mar-43
28	Apr-43	CONSOLIDATED EDISON CO NY IN	19.625	-0.01258	0	0.0020	-0.0146	Apr-43
28	May-43	CONSOLIDATED EDISON CO NY IN	20.125	0.04586	0.4	0.0019	0.0440	May-43
28	Jun-43	CONSOLIDATED EDISON CO NY IN	22.25	0.10559	0	0.0021	0.1035	Jun-43
28	Jul-43	CONSOLIDATED EDISON CO NY IN	22.25	0	0	0.0021	-0.0021	Jul-43
28	Aug-43	CONSOLIDATED EDISON CO NY IN	22.5	0.029213	0.4	0.0021	0.0271	Aug-43
28	Sep-43	CONSOLIDATED EDISON CO NY IN	23	0.022222	0	0.0020	0.0202	Sep-43
28	Oct-43	CONSOLIDATED EDISON CO NY IN	24	0.043478	0	0.0020	0.0415	Oct-43
28	Nov-43	CONSOLIDATED EDISON CO NY IN	20.875	-0.11354	0.4	0.0021	-0.1156	Nov-43
28	Dec-43	CONSOLIDATED EDISON CO NY IN	22.5	0.077844	0	0.0021	0.0757	Dec-43
28	Jan-44	CONSOLIDATED EDISON CO NY IN	22	-0.02222	0	0.0021	-0.0243	Jan-44
28	Feb-44	CONSOLIDATED EDISON CO NY IN	21.75	0.006818	0.4	0.0020	0.0048	Feb-44
28	Mar-44	CONSOLIDATED EDISON CO NY IN	21.875	0.005747	0	0.0021	0.0036	Mar-44
28	Apr-44	CONSOLIDATED EDISON CO NY IN	21.625	-0.01143	0	0.0020	-0.0134	Apr-44
28	May-44	CONSOLIDATED EDISON CO NY IN	21.75	0.024277	0.4	0.0022	0.0221	May-44
28	Jun-44	CONSOLIDATED EDISON CO NY IN	24.25	0.114943	0	0.0020	0.1129	Jun-44
28	Jul-44	CONSOLIDATED EDISON CO NY IN	24.25	0	0	0.0021	-0.0021	Jul-44
28	Aug-44	CONSOLIDATED EDISON CO NY IN	24.625	0.031959	0.4	0.0021	0.0299	Aug-44
28	Sep-44	CONSOLIDATED EDISON CO NY IN	24.625	0	0	0.0020	-0.0020	Sep-44

28	Oct-44	CONSOLIDATED EDISON CO NY IN	25.125	0.020305	0	0.0021	0.0182	Oct-44
28	Nov-44	CONSOLIDATED EDISON CO NY IN	24.5	-0.00896	0.4	0.0020	-0.0110	Nov-44
28	Dec-44	CONSOLIDATED EDISON CO NY IN	24.625	0.005102	0	0.0020	0.0031	Dec-44
28	Jan-45	CONSOLIDATED EDISON CO NY IN	25.875	0.050761	0	0.0021	0.0487	Jan-45
28	Feb-45	CONSOLIDATED EDISON CO NY IN	27	0.058937	0.4	0.0018	0.0571	Feb-45
28	Mar-45	CONSOLIDATED EDISON CO NY IN	26	-0.03704	0	0.0020	-0.0390	Mar-45
28	Apr-45	CONSOLIDATED EDISON CO NY IN	30	0.153846	0	0.0019	0.1519	Apr-45
28	May-45	CONSOLIDATED EDISON CO NY IN	30.5	0.03	0.4	0.0019	0.0281	May-45
28	Jun-45	CONSOLIDATED EDISON CO NY IN	31.125	0.020492	0	0.0019	0.0186	Jun-45
28	Jul-45	CONSOLIDATED EDISON CO NY IN	31	-0.00402	0	0.0018	-0.0058	Jul-45
28	Aug-45	CONSOLIDATED EDISON CO NY IN	31	0.012903	0.4	0.0019	0.0110	Aug-45
28	Sep-45	CONSOLIDATED EDISON CO NY IN	32.625	0.052419	0	0.0018	0.0506	Sep-45
28	Oct-45	CONSOLIDATED EDISON CO NY IN	33.5	0.02682	0	0.0019	0.0249	Oct-45
28	Nov-45	CONSOLIDATED EDISON CO NY IN	33	-0.00299	0.4	0.0018	-0.0048	Nov-45
28	Dec-45	CONSOLIDATED EDISON CO NY IN	33	0	0	0.0018	-0.0018	Dec-45
28	Jan-46	CONSOLIDATED EDISON CO NY IN	35.375	0.07197	0	0.0017	0.0703	Jan-46
28	Feb-46	CONSOLIDATED EDISON CO NY IN	33.25	-0.04876	0.4	0.0015	-0.0503	Feb-46
28	Mar-46	CONSOLIDATED EDISON CO NY IN	34.625	0.041353	0	0.0016	0.0398	Mar-46
28	Apr-46	CONSOLIDATED EDISON CO NY IN	35.5	0.025271	0	0.0017	0.0236	Apr-46
28	May-46	CONSOLIDATED EDISON CO NY IN	35.25	0.004225	0.4	0.0018	0.0024	May-46
28	Jun-46	CONSOLIDATED EDISON CO NY IN	33.625	-0.0461	0	0.0016	-0.0477	Jun-46
28	Jul-46	CONSOLIDATED EDISON CO NY IN	33.75	0.003717	0	0.0019	0.0018	Jul-46
28	Aug-46	CONSOLIDATED EDISON CO NY IN	29.5	-0.11407	0.4	0.0017	-0.1158	Aug-46
28	Sep-46	CONSOLIDATED EDISON CO NY IN	27.125	-0.08051	0	0.0018	-0.0823	Sep-46
28	Oct-46	CONSOLIDATED EDISON CO NY IN	27.75	0.023041	0	0.0019	0.0211	Oct-46
28	Nov-46	CONSOLIDATED EDISON CO NY IN	27	-0.01261	0.4	0.0018	-0.0144	Nov-46
28	Dec-46	CONSOLIDATED EDISON CO NY IN	27.125	0.00463	0	0.0019	0.0027	Dec-46
28	Jan-47	CONSOLIDATED EDISON CO NY IN	28.875	0.064516	0	0.0018	0.0627	Jan-47
28	Feb-47	CONSOLIDATED EDISON CO NY IN	28.375	-0.00346	0.4	0.0016	-0.0051	Feb-47
28	Mar-47	CONSOLIDATED EDISON CO NY IN	27.25	-0.03965	0	0.0018	-0.0414	Mar-47
28	Apr-47	CONSOLIDATED EDISON CO NY IN	26.75	-0.01835	0	0.0017	-0.0200	Apr-47
28	May-47	CONSOLIDATED EDISON CO NY IN	25.75	-0.02243	0.4	0.0017	-0.0241	May-47
28	Jun-47	CONSOLIDATED EDISON CO NY IN	26.25	0.019417	0	0.0019	0.0175	Jun-47
28	Jul-47	CONSOLIDATED EDISON CO NY IN	26.375	0.004762	0	0.0018	0.0030	Jul-47
28	Aug-47	CONSOLIDATED EDISON CO NY IN	25.25	-0.02749	0.4	0.0017	-0.0292	Aug-47
28	Sep-47	CONSOLIDATED EDISON CO NY IN	25	-0.0099	0	0.0018	-0.0117	Sep-47
28	Oct-47	CONSOLIDATED EDISON CO NY IN	24	-0.04	0	0.0018	-0.0418	Oct-47
28	Nov-47	CONSOLIDATED EDISON CO NY IN	21.25	-0.09792	0.4	0.0017	-0.0996	Nov-47

28	Dec-47	CONSOLIDATED EDISON CO NY IN	21.5	0.011765	0	0.0021	0.0097	Dec-47
28	Jan-48	CONSOLIDATED EDISON CO NY IN	22.125	0.02907	0	0.0020	0.0271	Jan-48
28	Feb-48	CONSOLIDATED EDISON CO NY IN	21.625	-0.00452	0.4	0.0019	-0.0064	Feb-48
28	Mar-48	CONSOLIDATED EDISON CO NY IN	22.375	0.034682	0	0.0022	0.0325	Mar-48
28	Apr-48	CONSOLIDATED EDISON CO NY IN	23.25	0.039106	0	0.0020	0.0371	Apr-48
28	May-48	CONSOLIDATED EDISON CO NY IN	23.875	0.05772	0.4	0.0018	0.0559	May-48
28	Jun-48	CONSOLIDATED EDISON CO NY IN	24.75	0.036649	0	0.0021	0.0345	Jun-48
28	Jul-48	CONSOLIDATED EDISON CO NY IN	23.75	-0.0404	0	0.0019	-0.0423	Jul-48
28	Aug-48	CONSOLIDATED EDISON CO NY IN	23.625	0.011579	0.4	0.0021	0.0095	Aug-48
28	Sep-48	CONSOLIDATED EDISON CO NY IN	23.5	-0.00529	0	0.0020	-0.0073	Sep-48
28	Oct-48	CONSOLIDATED EDISON CO NY IN	24.25	0.031915	0	0.0019	0.0300	Oct-48
28	Nov-48	CONSOLIDATED EDISON CO NY IN	21.875	-0.08144	0.4	0.0021	-0.0835	Nov-48
28	Dec-48	CONSOLIDATED EDISON CO NY IN	21.875	0	0	0.0020	-0.0020	Dec-48
28	Jan-49	CONSOLIDATED EDISON CO NY IN	22.875	0.045714	0	0.0020	0.0437	Jan-49
28	Feb-49	CONSOLIDATED EDISON CO NY IN	22	-0.02077	0.4	0.0018	-0.0226	Feb-49
28	Mar-49	CONSOLIDATED EDISON CO NY IN	23	0.045455	0	0.0019	0.0436	Mar-49
28	Apr-49	CONSOLIDATED EDISON CO NY IN	23.25	0.01087	0	0.0018	0.0091	Apr-49
28	May-49	CONSOLIDATED EDISON CO NY IN	22	-0.03656	0.4	0.0020	-0.0386	May-49
28	Jun-49	CONSOLIDATED EDISON CO NY IN	22.75	0.034091	0	0.0019	0.0322	Jun-49
28	Jul-49	CONSOLIDATED EDISON CO NY IN	23.75	0.043956	0	0.0017	0.0423	Jul-49
28	Aug-49	CONSOLIDATED EDISON CO NY IN	25	0.069474	0.4	0.0019	0.0676	Aug-49
28	Sep-49	CONSOLIDATED EDISON CO NY IN	27.125	0.085	0	0.0017	0.0833	Sep-49
28	Oct-49	CONSOLIDATED EDISON CO NY IN	27	-0.00461	0	0.0018	-0.0064	Oct-49
28	Nov-49	CONSOLIDATED EDISON CO NY IN	26.25	-0.01296	0.4	0.0017	-0.0147	Nov-49
28	Dec-49	CONSOLIDATED EDISON CO NY IN	27.625	0.052381	0	0.0017	0.0507	Dec-49
28	Jan-50	CONSOLIDATED EDISON CO NY IN	29.875	0.081448	0	0.0018	0.0796	Jan-50
28	Feb-50	CONSOLIDATED EDISON CO NY IN	30	0.017573	0.4	0.0016	0.0160	Feb-50
28	Mar-50	CONSOLIDATED EDISON CO NY IN	31.875	0.0625	0	0.0018	0.0607	Mar-50
28	Apr-50	CONSOLIDATED EDISON CO NY IN	31.75	-0.00392	0	0.0016	-0.0055	Apr-50
28	May-50	CONSOLIDATED EDISON CO NY IN	32.625	0.040157	0.4	0.0019	0.0383	May-50
28	Jun-50	CONSOLIDATED EDISON CO NY IN	29	-0.11111	0	0.0017	-0.1128	Jun-50
28	Jul-50	CONSOLIDATED EDISON CO NY IN	27.75	-0.0431	0	0.0018	-0.0449	Jul-50
28	Aug-50	CONSOLIDATED EDISON CO NY IN	27.75	0.014414	0.4	0.0018	0.0126	Aug-50
28	Sep-50	CONSOLIDATED EDISON CO NY IN	29.375	0.058559	0	0.0017	0.0569	Sep-50
28	Oct-50	CONSOLIDATED EDISON CO NY IN	30.125	0.025532	0	0.0019	0.0236	Oct-50
28	Nov-50	CONSOLIDATED EDISON CO NY IN	29.5	-0.02075	0	0.0018	-0.0225	Nov-50
28	Dec-50	CONSOLIDATED EDISON CO NY IN	30	0.033898	0.5	0.0018	0.0321	Dec-50
28	Jan-51	CONSOLIDATED EDISON CO NY IN	30.5	0.016667	0	0.0020	0.0147	Jan-51

28	Feb-51	CONSOLIDATED EDISON CO NY IN	31.5	0.04918	0.5	0.0017	0.0475	Feb-51
28	Mar-51	CONSOLIDATED EDISON CO NY IN	30.25	-0.03968	0	0.0019	-0.0416	Mar-51
28	Apr-51	CONSOLIDATED EDISON CO NY IN	30.625	0.012397	0	0.0020	0.0104	Apr-51
28	May-51	CONSOLIDATED EDISON CO NY IN	31.125	0.016327	0	0.0021	0.0142	May-51
28	Jun-51	CONSOLIDATED EDISON CO NY IN	30.5	-0.00402	0.5	0.0020	-0.0060	Jun-51
28	Jul-51	CONSOLIDATED EDISON CO NY IN	31.25	0.02459	0	0.0023	0.0223	Jul-51
28	Aug-51	CONSOLIDATED EDISON CO NY IN	31	0.008	0.5	0.0021	0.0059	Aug-51
28	Sep-51	CONSOLIDATED EDISON CO NY IN	31.375	0.012097	0	0.0019	0.0102	Sep-51
28	Oct-51	CONSOLIDATED EDISON CO NY IN	31.375	0	0	0.0023	-0.0023	Oct-51
28	Nov-51	CONSOLIDATED EDISON CO NY IN	31.875	0.015936	0	0.0021	0.0138	Nov-51
28	Dec-51	CONSOLIDATED EDISON CO NY IN	33.625	0.070588	0.5	0.0022	0.0684	Dec-51
28	Jan-52	CONSOLIDATED EDISON CO NY IN	33.5	-0.00372	0	0.0023	-0.0060	Jan-52
28	Feb-52	CONSOLIDATED EDISON CO NY IN	33.625	0.018657	0.5	0.0021	0.0166	Feb-52
28	Mar-52	CONSOLIDATED EDISON CO NY IN	33.875	0.007435	0	0.0023	0.0051	Mar-52
28	Apr-52	CONSOLIDATED EDISON CO NY IN	34.5	0.01845	0	0.0022	0.0163	Apr-52
28	May-52	CONSOLIDATED EDISON CO NY IN	34.75	0.021739	0.5	0.0020	0.0197	May-52
28	Jun-52	CONSOLIDATED EDISON CO NY IN	34.75	0	0	0.0022	-0.0022	Jun-52
28	Jul-52	CONSOLIDATED EDISON CO NY IN	35	0.007194	0	0.0022	0.0050	Jul-52
28	Aug-52	CONSOLIDATED EDISON CO NY IN	35.875	0.039286	0.5	0.0021	0.0372	Aug-52
28	Sep-52	CONSOLIDATED EDISON CO NY IN	37	0.031359	0	0.0023	0.0291	Sep-52
28	Oct-52	CONSOLIDATED EDISON CO NY IN	37	0	0	0.0023	-0.0023	Oct-52
28	Nov-52	CONSOLIDATED EDISON CO NY IN	38.25	0.047297	0.5	0.0021	0.0452	Nov-52
28	Dec-52	CONSOLIDATED EDISON CO NY IN	38.625	0.009804	0	0.0024	0.0074	Dec-52
28	Jan-53	CONSOLIDATED EDISON CO NY IN	40	0.035599	0	0.0023	0.0333	Jan-53
28	Feb-53	CONSOLIDATED EDISON CO NY IN	39	-0.01125	0.55	0.0021	-0.0134	Feb-53
28	Mar-53	CONSOLIDATED EDISON CO NY IN	38.625	-0.00962	0	0.0025	-0.0121	Mar-53
28	Apr-53	CONSOLIDATED EDISON CO NY IN	39	0.009709	0	0.0024	0.0073	Apr-53
28	May-53	CONSOLIDATED EDISON CO NY IN	38.75	0.007692	0.55	0.0024	0.0053	May-53
28	Jun-53	CONSOLIDATED EDISON CO NY IN	37.875	-0.02258	0	0.0027	-0.0253	Jun-53
28	Jul-53	CONSOLIDATED EDISON CO NY IN	38.75	0.023102	0	0.0025	0.0206	Jul-53
28	Aug-53	CONSOLIDATED EDISON CO NY IN	39.25	0.028387	0.6	0.0025	0.0259	Aug-53
28	Sep-53	CONSOLIDATED EDISON CO NY IN	40	0.019108	0	0.0025	0.0166	Sep-53
28	Oct-53	CONSOLIDATED EDISON CO NY IN	40.875	0.021875	0	0.0023	0.0196	Oct-53
28	Nov-53	CONSOLIDATED EDISON CO NY IN	42	0.042202	0.6	0.0024	0.0398	Nov-53
28	Dec-53	CONSOLIDATED EDISON CO NY IN	40.875	-0.02679	0	0.0024	-0.0292	Dec-53
28	Jan-54	CONSOLIDATED EDISON CO NY IN	43.25	0.058104	0	0.0023	0.0558	Jan-54
28	Feb-54	CONSOLIDATED EDISON CO NY IN	42.875	0.005202	0.6	0.0022	0.0030	Feb-54
28	Mar-54	CONSOLIDATED EDISON CO NY IN	43.125	0.005831	0	0.0025	0.0033	Mar-54

28	Apr-54	CONSOLIDATED EDISON CO NY IN	43.625	0.011594	0	0.0022	0.0094	Apr-54
28	May-54	CONSOLIDATED EDISON CO NY IN	43.875	0.019484	0.6	0.0020	0.0175	May-54
28	Jun-54	CONSOLIDATED EDISON CO NY IN	44.25	0.008547	0	0.0025	0.0060	Jun-54
28	Jul-54	CONSOLIDATED EDISON CO NY IN	46.625	0.053672	0	0.0022	0.0515	Jul-54
28	Aug-54	CONSOLIDATED EDISON CO NY IN	44.375	-0.03539	0.6	0.0023	-0.0377	Aug-54
28	Sep-54	CONSOLIDATED EDISON CO NY IN	45.875	0.033803	0	0.0022	0.0316	Sep-54
28	Oct-54	CONSOLIDATED EDISON CO NY IN	43.75	-0.04632	0	0.0021	-0.0484	Oct-54
28	Nov-54	CONSOLIDATED EDISON CO NY IN	45.125	0.045143	0.6	0.0023	0.0428	Nov-54
28	Dec-54	CONSOLIDATED EDISON CO NY IN	46.25	0.024931	0	0.0023	0.0226	Dec-54
28	Jan-55	CONSOLIDATED EDISON CO NY IN	47	0.016216	0	0.0022	0.0140	Jan-55
28	Feb-55	CONSOLIDATED EDISON CO NY IN	48.875	0.05266	0.6	0.0022	0.0505	Feb-55
28	Mar-55	CONSOLIDATED EDISON CO NY IN	49.375	0.01023	0	0.0024	0.0078	Mar-55
28	Apr-55	CONSOLIDATED EDISON CO NY IN	49.875	0.010127	0	0.0022	0.0079	Apr-55
28	May-55	CONSOLIDATED EDISON CO NY IN	49.5	0.004511	0.6	0.0025	0.0020	May-55
28	Jun-55	CONSOLIDATED EDISON CO NY IN	49	-0.0101	0	0.0023	-0.0124	Jun-55
28	Jul-55	CONSOLIDATED EDISON CO NY IN	51.125	0.043367	0	0.0023	0.0411	Jul-55
28	Aug-55	CONSOLIDATED EDISON CO NY IN	51.75	0.023961	0.6	0.0027	0.0213	Aug-55
28	Sep-55	CONSOLIDATED EDISON CO NY IN	49.375	-0.04589	0	0.0024	-0.0483	Sep-55
28	Oct-55	CONSOLIDATED EDISON CO NY IN	48.5	-0.01772	0	0.0025	-0.0202	Oct-55
28	Nov-55	CONSOLIDATED EDISON CO NY IN	48	0.002062	0.6	0.0024	-0.0003	Nov-55
28	Dec-55	CONSOLIDATED EDISON CO NY IN	47.375	-0.01302	0	0.0024	-0.0154	Dec-55
28	Jan-56	CONSOLIDATED EDISON CO NY IN	48.25	0.01847	0	0.0025	0.0160	Jan-56
28	Feb-56	CONSOLIDATED EDISON CO NY IN	47.875	0.004663	0.6	0.0023	0.0024	Feb-56
28	Mar-56	CONSOLIDATED EDISON CO NY IN	48.25	0.007833	0	0.0023	0.0055	Mar-56
28	Apr-56	CONSOLIDATED EDISON CO NY IN	46.875	-0.0285	0	0.0026	-0.0311	Apr-56
28	May-56	CONSOLIDATED EDISON CO NY IN	46.125	-0.0032	0.6	0.0026	-0.0058	May-56
28	Jun-56	CONSOLIDATED EDISON CO NY IN	46	-0.00271	0	0.0023	-0.0050	Jun-56
28	Jul-56	CONSOLIDATED EDISON CO NY IN	48.625	0.057065	0	0.0026	0.0545	Jul-56
28	Aug-56	CONSOLIDATED EDISON CO NY IN	46.25	-0.0365	0.6	0.0026	-0.0391	Aug-56
28	Sep-56	CONSOLIDATED EDISON CO NY IN	44.75	-0.03243	0	0.0025	-0.0349	Sep-56
28	Oct-56	CONSOLIDATED EDISON CO NY IN	45	0.005587	0	0.0029	0.0027	Oct-56
28	Nov-56	CONSOLIDATED EDISON CO NY IN	44.5	0.002222	0.6	0.0027	-0.0005	Nov-56
28	Dec-56	CONSOLIDATED EDISON CO NY IN	45	0.011236	0	0.0028	0.0084	Dec-56
28	Jan-57	CONSOLIDATED EDISON CO NY IN	45.25	0.005556	0	0.0029	0.0027	Jan-57
28	Feb-57	CONSOLIDATED EDISON CO NY IN	44	-0.00694	0.6	0.0025	-0.0094	Feb-57
28	Mar-57	CONSOLIDATED EDISON CO NY IN	44.375	0.008523	0	0.0026	0.0059	Mar-57
28	Apr-57	CONSOLIDATED EDISON CO NY IN	44.5	0.002817	0	0.0029	-0.0001	Apr-57
28	May-57	CONSOLIDATED EDISON CO NY IN	43.25	-0.01461	0.6	0.0029	-0.0175	May-57

28	Jun-57	CONSOLIDATED EDISON CO NY IN	42.375	-0.02023	0	0.0025	-0.0227	Jun-57
28	Jul-57	CONSOLIDATED EDISON CO NY IN	42.75	0.00885	0	0.0033	0.0056	Jul-57
28	Aug-57	CONSOLIDATED EDISON CO NY IN	42	-0.00351	0.6	0.0030	-0.0065	Aug-57
28	Sep-57	CONSOLIDATED EDISON CO NY IN	42	0	0	0.0031	-0.0031	Sep-57
28	Oct-57	CONSOLIDATED EDISON CO NY IN	42	0	0	0.0031	-0.0031	Oct-57
28	Nov-57	CONSOLIDATED EDISON CO NY IN	42.5	0.02619	0.6	0.0029	0.0233	Nov-57
28	Dec-57	CONSOLIDATED EDISON CO NY IN	44.375	0.044118	0	0.0029	0.0412	Dec-57
28	Jan-58	CONSOLIDATED EDISON CO NY IN	48.375	0.090141	0	0.0027	0.0874	Jan-58
28	Feb-58	CONSOLIDATED EDISON CO NY IN	48.625	0.017571	0.6	0.0025	0.0151	Feb-58
28	Mar-58	CONSOLIDATED EDISON CO NY IN	49.375	0.015424	0	0.0027	0.0127	Mar-58
28	Apr-58	CONSOLIDATED EDISON CO NY IN	54	0.093671	0	0.0026	0.0911	Apr-58
28	May-58	CONSOLIDATED EDISON CO NY IN	55	0.031481	0.7	0.0024	0.0291	May-58
28	Jun-58	CONSOLIDATED EDISON CO NY IN	55.375	0.006818	0	0.0027	0.0041	Jun-58
28	Jul-58	CONSOLIDATED EDISON CO NY IN	54.875	-0.00903	0	0.0027	-0.0117	Jul-58
28	Aug-58	CONSOLIDATED EDISON CO NY IN	52.75	-0.02597	0.7	0.0027	-0.0287	Aug-58
28	Sep-58	CONSOLIDATED EDISON CO NY IN	55.25	0.047393	0	0.0032	0.0442	Sep-58
28	Oct-58	CONSOLIDATED EDISON CO NY IN	59	0.067873	0	0.0032	0.0647	Oct-58
28	Nov-58	CONSOLIDATED EDISON CO NY IN	58.125	-0.00297	0.7	0.0028	-0.0058	Nov-58
28	Dec-58	CONSOLIDATED EDISON CO NY IN	65	0.11828	0	0.0033	0.1150	Dec-58
28	Jan-59	CONSOLIDATED EDISON CO NY IN	65.625	0.022968	0	0.0031	0.0199	Jan-59
28	Feb-59	CONSOLIDATED EDISON CO NY IN	65.75	0.012571	0.7	0.0031	0.0095	Feb-59
28	Mar-59	CONSOLIDATED EDISON CO NY IN	62.75	-0.04563	0	0.0035	-0.0491	Mar-59
28	Apr-59	CONSOLIDATED EDISON CO NY IN	64.125	0.021912	0	0.0033	0.0186	Apr-59
28	May-59	CONSOLIDATED EDISON CO NY IN	64	0.008967	0.7	0.0033	0.0057	May-59
28	Jun-59	CONSOLIDATED EDISON CO NY IN	62.375	-0.02539	0	0.0036	-0.0290	Jun-59
28	Jul-59	CONSOLIDATED EDISON CO NY IN	64.625	0.036072	0	0.0035	0.0326	Jul-59
28	Aug-59	CONSOLIDATED EDISON CO NY IN	63.125	-0.01238	0.7	0.0035	-0.0159	Aug-59
28	Sep-59	CONSOLIDATED EDISON CO NY IN	62.25	-0.01386	0	0.0034	-0.0173	Sep-59
28	Oct-59	CONSOLIDATED EDISON CO NY IN	62.375	0.002008	0	0.0035	-0.0015	Oct-59
28	Nov-59	CONSOLIDATED EDISON CO NY IN	59.75	-0.03086	0.7	0.0035	-0.0344	Nov-59
28	Dec-59	CONSOLIDATED EDISON CO NY IN	58.625	-0.01883	0	0.0036	-0.0224	Dec-59
28	Jan-60	CONSOLIDATED EDISON CO NY IN	63.375	0.081023	0	0.0035	0.0775	Jan-60
28	Feb-60	CONSOLIDATED EDISON CO NY IN	62	-0.00986	0.75	0.0037	-0.0136	Feb-60
28	Mar-60	CONSOLIDATED EDISON CO NY IN	63.125	0.018145	0	0.0036	0.0145	Mar-60
28	Apr-60	CONSOLIDATED EDISON CO NY IN	62.875	-0.00396	0	0.0032	-0.0072	Apr-60
28	May-60	CONSOLIDATED EDISON CO NY IN	62.375	0.003976	0.75	0.0037	0.0003	May-60
28	Jun-60	CONSOLIDATED EDISON CO NY IN	65.75	0.054108	0	0.0034	0.0507	Jun-60
28	Jul-60	CONSOLIDATED EDISON CO NY IN	64.625	-0.01711	0	0.0032	-0.0203	Jul-60

28	Aug-60	CONSOLIDATED EDISON CO NY IN		64.125	0.003868	0.75	0.0034	0.0005	Aug-60
28	Sep-60	CONSOLIDATED EDISON CO NY IN		62.125	-0.03119	0	0.0032	-0.0344	Sep-60
28	Oct-60	CONSOLIDATED EDISON CO NY IN		64	0.030181	0	0.0033	0.0269	Oct-60
28	Nov-60	CONSOLIDATED EDISON CO NY IN		63.625	0.005859	0.75	0.0032	0.0027	Nov-60
28	Dec-60	CONSOLIDATED EDISON CO NY IN		68.75	0.08055	0	0.0033	0.0773	Dec-60
28	Jan-61	CONSOLIDATED EDISON CO NY IN		66.625	-0.02	0.75	0.0033	-0.0233	Jan-61
28	Feb-61	CONSOLIDATED EDISON CO NY IN		72.125	0.082552	0	0.0030	0.0796	Feb-61
28	Mar-61	CONSOLIDATED EDISON CO NY IN		78.875	0.093588	0	0.0031	0.0905	Mar-61
28	Apr-61	CONSOLIDATED EDISON CO NY IN		78.5	-0.00475	0	0.0031	-0.0079	Apr-61
28	May-61	CONSOLIDATED EDISON CO NY IN		81.375	0.046178	0.75	0.0034	0.0428	May-61
28	Jun-61	CONSOLIDATED EDISON CO NY IN		76.625	-0.05837	0	0.0032	-0.0616	Jun-61
28	Jul-61	CONSOLIDATED EDISON CO NY IN		76.25	-0.00489	0	0.0033	-0.0082	Jul-61
28	Aug-61	CONSOLIDATED EDISON CO NY IN		75	-0.00656	0.75	0.0033	-0.0099	Aug-61
28	Sep-61	CONSOLIDATED EDISON CO NY IN		77.25	0.03	0	0.0032	0.0268	Sep-61
28	Oct-61	CONSOLIDATED EDISON CO NY IN		82.875	0.082524	0.75	0.0034	0.0791	Oct-61
28	Nov-61	CONSOLIDATED EDISON CO NY IN		86.25	0.040724	0	0.0032	0.0375	Nov-61
28	Dec-61	CONSOLIDATED EDISON CO NY IN		82.125	-0.04783	0	0.0031	-0.0509	Dec-61
28	Jan-62	CONSOLIDATED EDISON CO NY IN		76.75	-0.05632	0.75	0.0037	-0.0600	Jan-62
28	Feb-62	CONSOLIDATED EDISON CO NY IN		78	0.016287	0	0.0032	0.0131	Feb-62
28	Mar-62	CONSOLIDATED EDISON CO NY IN		81	0.038462	0	0.0033	0.0352	Mar-62
28	Apr-62	CONSOLIDATED EDISON CO NY IN		78.625	-0.0208	0	0.0033	-0.0241	Apr-62
28	May-62	CONSOLIDATED EDISON CO NY IN		72.5	-0.06836	0.75	0.0032	-0.0716	May-62
28	Jun-62	CONSOLIDATED EDISON CO NY IN		69.875	-0.03621	0	0.0030	-0.0392	Jun-62
28	Jul-62	CONSOLIDATED EDISON CO NY IN	ED	74.375	0.075134	0.75	0.0034	0.0717	Jul-62
28	Aug-62	CONSOLIDATED EDISON CO NY IN	ED	75.875	0.020168	0	0.0034	0.0168	Aug-62
28	Sep-62	CONSOLIDATED EDISON CO NY IN	ED	74.375	-0.01977	0	0.0030	-0.0228	Sep-62
28	Oct-62	CONSOLIDATED EDISON CO NY IN	ED	72.625	-0.01345	0.75	0.0035	-0.0169	Oct-62
28	Nov-62	CONSOLIDATED EDISON CO NY IN	ED	79.5	0.094664	0	0.0031	0.0916	Nov-62
28	Dec-62	CONSOLIDATED EDISON CO NY IN	ED	83.75	0.053459	0	0.0032	0.0503	Dec-62
28	Jan-63	CONSOLIDATED EDISON CO NY IN	ED	86.375	0.040299	0.75	0.0032	0.0371	Jan-63
28	Feb-63	CONSOLIDATED EDISON CO NY IN	ED	84.25	-0.0246	0	0.0029	-0.0275	Feb-63
28	Mar-63	CONSOLIDATED EDISON CO NY IN	ED	84.875	0.013275	0	0.0031	0.0102	Mar-63
28	Apr-63	CONSOLIDATED EDISON CO NY IN	ED	86.625	0.030339	0.825	0.0034	0.0269	Apr-63
28	May-63	CONSOLIDATED EDISON CO NY IN	ED	86.5	-0.00144	0	0.0033	-0.0047	May-63
28	Jun-63	CONSOLIDATED EDISON CO NY IN	ED	83.875	-0.03035	0	0.0030	-0.0333	Jun-63
28	Jul-63	CONSOLIDATED EDISON CO NY IN	ED	86.875	0.045604	0.825	0.0036	0.0420	Jul-63
28	Aug-63	CONSOLIDATED EDISON CO NY IN	ED	89.25	0.027338	0	0.0033	0.0240	Aug-63
28	Sep-63	CONSOLIDATED EDISON CO NY IN	ED	87	-0.02521	0	0.0034	-0.0286	Sep-63

28	Oct-63	CONSOLIDATED EDISON CO NY IN	ED	86	-0.00201	0.825	0.0034	-0.0054	Oct-63
28	Nov-63	CONSOLIDATED EDISON CO NY IN	ED	85.375	-0.00727	0	0.0032	-0.0105	Nov-63
28	Dec-63	CONSOLIDATED EDISON CO NY IN	ED	84	-0.01611	0	0.0036	-0.0197	Dec-63
28	Jan-64	CONSOLIDATED EDISON CO NY IN	ED	84.125	0.001488	0	0.0035	-0.0020	Jan-64
28	Feb-64	CONSOLIDATED EDISON CO NY IN	ED	84.875	0.018722	0.825	0.0032	0.0155	Feb-64
28	Mar-64	CONSOLIDATED EDISON CO NY IN	ED	86.125	0.014728	0	0.0037	0.0110	Mar-64
28	Apr-64	CONSOLIDATED EDISON CO NY IN	ED	85	-0.01306	0	0.0035	-0.0166	Apr-64
28	May-64	CONSOLIDATED EDISON CO NY IN	ED	84.375	0.002353	0.825	0.0032	-0.0008	May-64
28	Jun-64	CONSOLIDATED EDISON CO NY IN	ED	89.125	0.056296	0	0.0038	0.0525	Jun-64
28	Jul-64	CONSOLIDATED EDISON CO NY IN	ED	92.625	0.039271	0	0.0035	0.0358	Jul-64
28	Aug-64	CONSOLIDATED EDISON CO NY IN	ED	89.25	-0.02753	0.825	0.0035	-0.0310	Aug-64
28	Sep-64	CONSOLIDATED EDISON CO NY IN	ED	95.625	0.071429	0	0.0034	0.0680	Sep-64
28	Oct-64	CONSOLIDATED EDISON CO NY IN	ED	93.75	-0.01961	0	0.0034	-0.0230	Oct-64
28	Nov-64	CONSOLIDATED EDISON CO NY IN	ED	91.875	-0.0112	0.825	0.0035	-0.0147	Nov-64
28	Dec-64	CONSOLIDATED EDISON CO NY IN	ED	96.5	0.05034	0	0.0035	0.0468	Dec-64
28	Jan-65	CONSOLIDATED EDISON CO NY IN	ED	97.875	0.014249	0	0.0033	0.0109	Jan-65
28	Feb-65	CONSOLIDATED EDISON CO NY IN	ED	94.25	-0.02785	0.89962	0.0032	-0.0310	Feb-65
28	Mar-65	CONSOLIDATED EDISON CO NY IN	ED	46.625	-0.01061	0	0.0038	-0.0144	Mar-65
28	Apr-65	CONSOLIDATED EDISON CO NY IN	ED	46.625	0	0	0.0033	-0.0033	Apr-65
28	May-65	CONSOLIDATED EDISON CO NY IN	ED	45.375	-0.01716	0.45	0.0033	-0.0205	May-65
28	Jun-65	CONSOLIDATED EDISON CO NY IN	ED	44.375	-0.02204	0	0.0038	-0.0258	Jun-65
28	Jul-65	CONSOLIDATED EDISON CO NY IN	ED	43.875	-0.01127	0	0.0034	-0.0147	Jul-65
28	Aug-65	CONSOLIDATED EDISON CO NY IN	ED	44.75	0.030199	0.45	0.0037	0.0265	Aug-65
28	Sep-65	CONSOLIDATED EDISON CO NY IN	ED	44	-0.01676	0	0.0035	-0.0203	Sep-65
28	Oct-65	CONSOLIDATED EDISON CO NY IN	ED	45.75	0.039773	0	0.0034	0.0364	Oct-65
28	Nov-65	CONSOLIDATED EDISON CO NY IN	ED	41.75	-0.0776	0.45	0.0037	-0.0813	Nov-65
28	Dec-65	CONSOLIDATED EDISON CO NY IN	ED	42.25	0.011976	0	0.0037	0.0083	Dec-65
28	Jan-66	CONSOLIDATED EDISON CO NY IN	ED	41.5	-0.01775	0	0.0038	-0.0216	Jan-66
28	Feb-66	CONSOLIDATED EDISON CO NY IN	ED	40.125	-0.02229	0.45	0.0034	-0.0257	Feb-66
28	Mar-66	CONSOLIDATED EDISON CO NY IN	ED	38.875	-0.03115	0	0.0040	-0.0352	Mar-66
28	Apr-66	CONSOLIDATED EDISON CO NY IN	ED	38.375	-0.01286	0	0.0036	-0.0165	Apr-66
28	May-66	CONSOLIDATED EDISON CO NY IN	ED	36.25	-0.04365	0.45	0.0041	-0.0477	May-66
28	Jun-66	CONSOLIDATED EDISON CO NY IN	ED	35.875	-0.01035	0	0.0039	-0.0142	Jun-66
28	Jul-66	CONSOLIDATED EDISON CO NY IN	ED	35.75	-0.00348	0	0.0038	-0.0073	Jul-66
28	Aug-66	CONSOLIDATED EDISON CO NY IN	ED	32.875	-0.06783	0.45	0.0043	-0.0721	Aug-66
28	Sep-66	CONSOLIDATED EDISON CO NY IN	ED	32.625	-0.00761	0	0.0041	-0.0117	Sep-66
28	Oct-66	CONSOLIDATED EDISON CO NY IN	ED	34	0.042146	0	0.0040	0.0381	Oct-66
28	Nov-66	CONSOLIDATED EDISON CO NY IN	ED	32.75	-0.02353	0.45	0.0038	-0.0273	Nov-66

28	Dec-66	CONSOLIDATED EDISON CO NY IN	ED	31.625	-0.03435	0	0.0039	-0.0383	Dec-66
28	Jan-67	CONSOLIDATED EDISON CO NY IN	ED	34.625	0.109091	0.45	0.0040	0.1051	Jan-67
28	Feb-67	CONSOLIDATED EDISON CO NY IN	ED	34.25	-0.01083	0	0.0034	-0.0142	Feb-67
28	Mar-67	CONSOLIDATED EDISON CO NY IN	ED	35.75	0.043796	0	0.0039	0.0399	Mar-67
28	Apr-67	CONSOLIDATED EDISON CO NY IN	ED	35.625	-0.0035	0	0.0035	-0.0070	Apr-67
28	May-67	CONSOLIDATED EDISON CO NY IN	ED	34.125	-0.02947	0.45	0.0043	-0.0338	May-67
28	Jun-67	CONSOLIDATED EDISON CO NY IN	ED	33.625	-0.01465	0	0.0039	-0.0186	Jun-67
28	Jul-67	CONSOLIDATED EDISON CO NY IN	ED	34.625	0.02974	0	0.0043	0.0254	Jul-67
28	Aug-67	CONSOLIDATED EDISON CO NY IN	ED	33.75	-0.01227	0.45	0.0042	-0.0165	Aug-67
28	Sep-67	CONSOLIDATED EDISON CO NY IN	ED	33.75	0	0	0.0040	-0.0040	Sep-67
28	Oct-67	CONSOLIDATED EDISON CO NY IN	ED	33	-0.00889	0.45	0.0045	-0.0134	Oct-67
28	Nov-67	CONSOLIDATED EDISON CO NY IN	ED	32	-0.0303	0	0.0045	-0.0348	Nov-67
28	Dec-67	CONSOLIDATED EDISON CO NY IN	ED	31.375	-0.01953	0	0.0044	-0.0239	Dec-67
28	Jan-68	CONSOLIDATED EDISON CO NY IN	ED	34.25	0.105976	0.45	0.0050	0.1010	Jan-68
28	Feb-68	CONSOLIDATED EDISON CO NY IN	ED	33.625	-0.01825	0	0.0042	-0.0224	Feb-68
28	Mar-68	CONSOLIDATED EDISON CO NY IN	ED	32.625	-0.02816	0	0.0043	-0.0325	Mar-68
28	Apr-68	CONSOLIDATED EDISON CO NY IN	ED	33.625	0.044444	0.45	0.0049	0.0395	Apr-68
28	May-68	CONSOLIDATED EDISON CO NY IN	ED	32.25	-0.04089	0	0.0046	-0.0455	May-68
28	Jun-68	CONSOLIDATED EDISON CO NY IN	ED	33.875	0.050388	0	0.0042	0.0462	Jun-68
28	Jul-68	CONSOLIDATED EDISON CO NY IN	ED	34.5	0.031734	0.45	0.0048	0.0269	Jul-68
28	Aug-68	CONSOLIDATED EDISON CO NY IN	ED	33.625	-0.02536	0	0.0042	-0.0296	Aug-68
28	Sep-68	CONSOLIDATED EDISON CO NY IN	ED	33.375	-0.00744	0	0.0044	-0.0118	Sep-68
28	Oct-68	CONSOLIDATED EDISON CO NY IN	ED	33	0.002247	0.45	0.0045	-0.0023	Oct-68
28	Nov-68	CONSOLIDATED EDISON CO NY IN	ED	34	0.030303	0	0.0043	0.0260	Nov-68
28	Dec-68	CONSOLIDATED EDISON CO NY IN	ED	33.25	-0.02206	0	0.0049	-0.0270	Dec-68
28	Jan-69	CONSOLIDATED EDISON CO NY IN	ED	35.375	0.06391	0	0.0050	0.0589	Jan-69
28	Feb-69	CONSOLIDATED EDISON CO NY IN	ED	33.75	-0.03322	0.45	0.0046	-0.0378	Feb-69
28	Mar-69	CONSOLIDATED EDISON CO NY IN	ED	33.625	-0.0037	0	0.0047	-0.0084	Mar-69
28	Apr-69	CONSOLIDATED EDISON CO NY IN	ED	33.625	0.013383	0.45	0.0055	0.0079	Apr-69
28	May-69	CONSOLIDATED EDISON CO NY IN	ED	32.875	-0.02231	0	0.0047	-0.0270	May-69
28	Jun-69	CONSOLIDATED EDISON CO NY IN	ED	32	-0.02662	0	0.0055	-0.0321	Jun-69
28	Jul-69	CONSOLIDATED EDISON CO NY IN	ED	31	-0.01719	0.45	0.0052	-0.0224	Jul-69
28	Aug-69	CONSOLIDATED EDISON CO NY IN	ED	28.5	-0.08065	0	0.0048	-0.0854	Aug-69
28	Sep-69	CONSOLIDATED EDISON CO NY IN	ED	26.5	-0.06798	0	0.0055	-0.0735	Sep-69
28	Oct-69	CONSOLIDATED EDISON CO NY IN	ED	27.75	0.064151	0.45	0.0057	0.0585	Oct-69
28	Nov-69	CONSOLIDATED EDISON CO NY IN	ED	26.25	-0.05405	0	0.0049	-0.0590	Nov-69
28	Dec-69	CONSOLIDATED EDISON CO NY IN	ED	25.5	-0.02857	0	0.0060	-0.0346	Dec-69
28	Jan-70	CONSOLIDATED EDISON CO NY IN	ED	27	0.058824	0	0.0056	0.0532	Jan-70

28	Feb-70	CONSOLIDATED EDISON CO NY IN	ED	27.5	0.035185	0.45	0.0052	0.0300	Feb-70
28	Mar-70	CONSOLIDATED EDISON CO NY IN	ED	27.75	0.009091	0	0.0056	0.0035	Mar-70
28	Apr-70	CONSOLIDATED EDISON CO NY IN	ED	26.625	-0.04054	0	0.0054	-0.0459	Apr-70
28	May-70	CONSOLIDATED EDISON CO NY IN	ED	23.125	-0.11339	0.45	0.0055	-0.1189	May-70
28	Jun-70	CONSOLIDATED EDISON CO NY IN	ED	23	-0.00541	0	0.0064	-0.0118	Jun-70
28	Jul-70	CONSOLIDATED EDISON CO NY IN	ED	23.375	0.016304	0	0.0059	0.0104	Jul-70
28	Aug-70	CONSOLIDATED EDISON CO NY IN	ED	23.125	0.008556	0.45	0.0057	0.0029	Aug-70
28	Sep-70	CONSOLIDATED EDISON CO NY IN	ED	23.125	0	0	0.0056	-0.0056	Sep-70
28	Oct-70	CONSOLIDATED EDISON CO NY IN	ED	22.875	-0.01081	0	0.0055	-0.0163	Oct-70
28	Nov-70	CONSOLIDATED EDISON CO NY IN	ED	23	0.025137	0.45	0.0058	0.0193	Nov-70
28	Dec-70	CONSOLIDATED EDISON CO NY IN	ED	26.75	0.163043	0	0.0053	0.1577	Dec-70
28	Jan-71	CONSOLIDATED EDISON CO NY IN	ED	28.5	0.065421	0	0.0051	0.0603	Jan-71
28	Feb-71	CONSOLIDATED EDISON CO NY IN	ED	25.75	-0.07638	0.45	0.0046	-0.0810	Feb-71
28	Mar-71	CONSOLIDATED EDISON CO NY IN	ED	26.875	0.043689	0	0.0056	0.0381	Mar-71
28	Apr-71	CONSOLIDATED EDISON CO NY IN	ED	27.25	0.013953	0	0.0048	0.0092	Apr-71
28	May-71	CONSOLIDATED EDISON CO NY IN	ED	25	-0.06606	0.45	0.0047	-0.0708	May-71
28	Jun-71	CONSOLIDATED EDISON CO NY IN	ED	25.875	0.035	0	0.0056	0.0294	Jun-71
28	Jul-71	CONSOLIDATED EDISON CO NY IN	ED	26	0.004831	0	0.0052	-0.0004	Jul-71
28	Aug-71	CONSOLIDATED EDISON CO NY IN	ED	25.375	-0.00673	0.45	0.0055	-0.0122	Aug-71
28	Sep-71	CONSOLIDATED EDISON CO NY IN	ED	24.375	-0.03941	0	0.0049	-0.0443	Sep-71
28	Oct-71	CONSOLIDATED EDISON CO NY IN	ED	25.625	0.069744	0.45	0.0047	0.0650	Oct-71
28	Nov-71	CONSOLIDATED EDISON CO NY IN	ED	25.25	-0.01463	0	0.0051	-0.0197	Nov-71
28	Dec-71	CONSOLIDATED EDISON CO NY IN	ED	25.875	0.024752	0	0.0050	0.0198	Dec-71
28	Jan-72	CONSOLIDATED EDISON CO NY IN	ED	26.625	0.046377	0.45	0.0050	0.0414	Jan-72
28	Feb-72	CONSOLIDATED EDISON CO NY IN	ED	26.125	-0.01878	0	0.0047	-0.0235	Feb-72
28	Mar-72	CONSOLIDATED EDISON CO NY IN	ED	26.125	0	0	0.0049	-0.0049	Mar-72
28	Apr-72	CONSOLIDATED EDISON CO NY IN	ED	25.875	-0.00957	0	0.0048	-0.0144	Apr-72
28	May-72	CONSOLIDATED EDISON CO NY IN	ED	24.25	-0.04541	0.45	0.0055	-0.0509	May-72
28	Jun-72	CONSOLIDATED EDISON CO NY IN	ED	24.875	0.025773	0	0.0049	0.0209	Jun-72
28	Jul-72	CONSOLIDATED EDISON CO NY IN	ED	24.75	0.013065	0.45	0.0051	0.0080	Jul-72
28	Aug-72	CONSOLIDATED EDISON CO NY IN	ED	24.875	0.005051	0	0.0049	0.0002	Aug-72
28	Sep-72	CONSOLIDATED EDISON CO NY IN	ED	24.875	0	0	0.0047	-0.0047	Sep-72
28	Oct-72	CONSOLIDATED EDISON CO NY IN	ED	24.875	0.01809	0.45	0.0052	0.0129	Oct-72
28	Nov-72	CONSOLIDATED EDISON CO NY IN	ED	25.5	0.025126	0	0.0048	0.0203	Nov-72
28	Dec-72	CONSOLIDATED EDISON CO NY IN	ED	25	-0.01961	0	0.0045	-0.0241	Dec-72
28	Jan-73	CONSOLIDATED EDISON CO NY IN	ED	25.5	0.02	0	0.0054	0.0146	Jan-73
28	Feb-73	CONSOLIDATED EDISON CO NY IN	ED	24.625	-0.01667	0.45	0.0051	-0.0218	Feb-73
28	Mar-73	CONSOLIDATED EDISON CO NY IN	ED	24	-0.02538	0	0.0056	-0.0310	Mar-73

28	Apr-73	CONSOLIDATED EDISON CO NY IN	ED	24.75	0.03125	0	0.0057	0.0256	Apr-73
28	May-73	CONSOLIDATED EDISON CO NY IN	ED	23.5	-0.03232	0.45	0.0058	-0.0381	May-73
28	Jun-73	CONSOLIDATED EDISON CO NY IN	ED	23.125	-0.01596	0	0.0055	-0.0215	Jun-73
28	Jul-73	CONSOLIDATED EDISON CO NY IN	ED	22.75	-0.01622	0	0.0061	-0.0223	Jul-73
28	Aug-73	CONSOLIDATED EDISON CO NY IN	ED	21.75	-0.02418	0.45	0.0062	-0.0304	Aug-73
28	Sep-73	CONSOLIDATED EDISON CO NY IN	ED	22.5	0.034483	0	0.0055	0.0290	Sep-73
28	Oct-73	CONSOLIDATED EDISON CO NY IN	ED	22.25	0.008889	0.45	0.0063	0.0026	Oct-73
28	Nov-73	CONSOLIDATED EDISON CO NY IN	ED	20	-0.10112	0	0.0056	-0.1067	Nov-73
28	Dec-73	CONSOLIDATED EDISON CO NY IN	ED	18.75	-0.0625	0	0.0060	-0.0685	Dec-73
28	Jan-74	CONSOLIDATED EDISON CO NY IN	ED	20.25	0.104	0.45	0.0061	0.0979	Jan-74
28	Feb-74	CONSOLIDATED EDISON CO NY IN	ED	21.25	0.049383	0	0.0055	0.0439	Feb-74
28	Mar-74	CONSOLIDATED EDISON CO NY IN	ED	20	-0.05882	0	0.0058	-0.0646	Mar-74
28	Apr-74	CONSOLIDATED EDISON CO NY IN	ED	9.5	-0.525	0	0.0068	-0.5318	Apr-74
28	May-74	CONSOLIDATED EDISON CO NY IN	ED	7.5	-0.21053	0	0.0068	-0.2173	May-74
28	Jun-74	CONSOLIDATED EDISON CO NY IN	ED	6.25	-0.16667	0	0.0061	-0.1728	Jun-74
28	Jul-74	CONSOLIDATED EDISON CO NY IN	ED	8.375	0.34	0	0.0072	0.3328	Jul-74
28	Aug-74	CONSOLIDATED EDISON CO NY IN	ED	7.125	-0.12537	0.2	0.0065	-0.1319	Aug-74
28	Sep-74	CONSOLIDATED EDISON CO NY IN	ED	6.625	-0.07018	0	0.0071	-0.0773	Sep-74
28	Oct-74	CONSOLIDATED EDISON CO NY IN	ED	7.125	0.10566	0.2	0.0070	0.0987	Oct-74
28	Nov-74	CONSOLIDATED EDISON CO NY IN	ED	7	-0.01754	0	0.0062	-0.0237	Nov-74
28	Dec-74	CONSOLIDATED EDISON CO NY IN	ED	7.5	0.071429	0	0.0067	0.0647	Dec-74
28	Jan-75	CONSOLIDATED EDISON CO NY IN	ED	10.875	0.45	0	0.0068	0.4432	Jan-75
28	Feb-75	CONSOLIDATED EDISON CO NY IN	ED	10.625	0.004598	0.3	0.0060	-0.0014	Feb-75
28	Mar-75	CONSOLIDATED EDISON CO NY IN	ED	11.25	0.058824	0	0.0066	0.0522	Mar-75
28	Apr-75	CONSOLIDATED EDISON CO NY IN	ED	12.375	0.1	0	0.0067	0.0933	Apr-75
28	May-75	CONSOLIDATED EDISON CO NY IN	ED	11.75	-0.02626	0.3	0.0067	-0.0330	May-75
28	Jun-75	CONSOLIDATED EDISON CO NY IN	ED	13.875	0.180851	0	0.0070	0.1739	Jun-75
28	Jul-75	CONSOLIDATED EDISON CO NY IN	ED	12.5	-0.07748	0.3	0.0068	-0.0843	Jul-75
28	Aug-75	CONSOLIDATED EDISON CO NY IN	ED	12.25	-0.02	0	0.0065	-0.0265	Aug-75
28	Sep-75	CONSOLIDATED EDISON CO NY IN	ED	12	-0.02041	0	0.0073	-0.0277	Sep-75
28	Oct-75	CONSOLIDATED EDISON CO NY IN	ED	12.875	0.072917	0	0.0072	0.0657	Oct-75
28	Nov-75	CONSOLIDATED EDISON CO NY IN	ED	13.375	0.062136	0.3	0.0061	0.0560	Nov-75
28	Dec-75	CONSOLIDATED EDISON CO NY IN	ED	15	0.121495	0	0.0074	0.1141	Dec-75
28	Jan-76	CONSOLIDATED EDISON CO NY IN	ED	17.75	0.183333	0	0.0065	0.1768	Jan-76
28	Feb-76	CONSOLIDATED EDISON CO NY IN	ED	16.75	-0.0338	0.4	0.0060	-0.0398	Feb-76
28	Mar-76	CONSOLIDATED EDISON CO NY IN	ED	16.625	-0.00746	0	0.0071	-0.0146	Mar-76
28	Apr-76	CONSOLIDATED EDISON CO NY IN	ED	17.25	0.037594	0	0.0064	0.0312	Apr-76
28	May-76	CONSOLIDATED EDISON CO NY IN	ED	16.875	0.001449	0.4	0.0059	-0.0045	May-76

28	Jun-76	CONSOLIDATED EDISON CO NY IN	ED	17.875	0.059259	0	0.0073	0.0520	Jun-76
28	Jul-76	CONSOLIDATED EDISON CO NY IN	ED	18.5	0.034965	0	0.0065	0.0285	Jul-76
28	Aug-76	CONSOLIDATED EDISON CO NY IN	ED	19.125	0.055405	0.4	0.0069	0.0485	Aug-76
28	Sep-76	CONSOLIDATED EDISON CO NY IN	ED	19.5	0.019608	0	0.0064	0.0132	Sep-76
28	Oct-76	CONSOLIDATED EDISON CO NY IN	ED	19	-0.02564	0	0.0061	-0.0317	Oct-76
28	Nov-76	CONSOLIDATED EDISON CO NY IN	ED	19.5	0.047368	0.4	0.0066	0.0408	Nov-76
28	Dec-76	CONSOLIDATED EDISON CO NY IN	ED	21	0.076923	0	0.0063	0.0706	Dec-76
28	Jan-77	CONSOLIDATED EDISON CO NY IN	ED	22.875	0.089286	0	0.0059	0.0834	Jan-77
28	Feb-77	CONSOLIDATED EDISON CO NY IN	ED	22.25	-0.00546	0.5	0.0057	-0.0112	Feb-77
28	Mar-77	CONSOLIDATED EDISON CO NY IN	ED	22.125	-0.00562	0	0.0065	-0.0121	Mar-77
28	Apr-77	CONSOLIDATED EDISON CO NY IN	ED	22.625	0.022599	0	0.0061	0.0165	Apr-77
28	May-77	CONSOLIDATED EDISON CO NY IN	ED	22.125	0	0.5	0.0067	-0.0067	May-77
28	Jun-77	CONSOLIDATED EDISON CO NY IN	ED	24.375	0.101695	0	0.0062	0.0955	Jun-77
28	Jul-77	CONSOLIDATED EDISON CO NY IN	ED	23.625	-0.03077	0	0.0059	-0.0367	Jul-77
28	Aug-77	CONSOLIDATED EDISON CO NY IN	ED	22.25	-0.03704	0.5	0.0067	-0.0437	Aug-77
28	Sep-77	CONSOLIDATED EDISON CO NY IN	ED	22.875	0.02809	0	0.0061	0.0220	Sep-77
28	Oct-77	CONSOLIDATED EDISON CO NY IN	ED	23.5	0.027322	0	0.0063	0.0210	Oct-77
28	Nov-77	CONSOLIDATED EDISON CO NY IN	ED	25	0.085106	0.5	0.0063	0.0788	Nov-77
28	Dec-77	CONSOLIDATED EDISON CO NY IN	ED	25.375	0.015	0	0.0062	0.0088	Dec-77
28	Jan-78	CONSOLIDATED EDISON CO NY IN	ED	23.375	-0.07882	0	0.0069	-0.0857	Jan-78
28	Feb-78	CONSOLIDATED EDISON CO NY IN	ED	22.75	-0.00321	0.55	0.0060	-0.0092	Feb-78
28	Mar-78	CONSOLIDATED EDISON CO NY IN	ED	23.25	0.021978	0	0.0069	0.0151	Mar-78
28	Apr-78	CONSOLIDATED EDISON CO NY IN	ED	23.125	-0.00538	0	0.0063	-0.0117	Apr-78
28	May-78	CONSOLIDATED EDISON CO NY IN	ED	22.25	-0.01405	0.55	0.0075	-0.0216	May-78
28	Jun-78	CONSOLIDATED EDISON CO NY IN	ED	23	0.033708	0	0.0069	0.0268	Jun-78
28	Jul-78	CONSOLIDATED EDISON CO NY IN	ED	23.25	0.01087	0	0.0073	0.0036	Jul-78
28	Aug-78	CONSOLIDATED EDISON CO NY IN	ED	23.25	0.023656	0.55	0.0070	0.0167	Aug-78
28	Sep-78	CONSOLIDATED EDISON CO NY IN	ED	24.375	0.048387	0	0.0065	0.0419	Sep-78
28	Oct-78	CONSOLIDATED EDISON CO NY IN	ED	22.75	-0.06667	0	0.0073	-0.0740	Oct-78
28	Nov-78	CONSOLIDATED EDISON CO NY IN	ED	23	0.035165	0.55	0.0071	0.0281	Nov-78
28	Dec-78	CONSOLIDATED EDISON CO NY IN	ED	23.125	0.005435	0	0.0068	-0.0014	Dec-78
28	Jan-79	CONSOLIDATED EDISON CO NY IN	ED	24.875	0.075676	0	0.0079	0.0678	Jan-79
28	Feb-79	CONSOLIDATED EDISON CO NY IN	ED	24	-0.01065	0.61	0.0065	-0.0172	Feb-79
28	Mar-79	CONSOLIDATED EDISON CO NY IN	ED	24	0	0	0.0074	-0.0074	Mar-79
28	Apr-79	CONSOLIDATED EDISON CO NY IN	ED	22.625	-0.05729	0	0.0076	-0.0649	Apr-79
28	May-79	CONSOLIDATED EDISON CO NY IN	ED	22.75	0.032486	0.61	0.0077	0.0248	May-79
28	Jun-79	CONSOLIDATED EDISON CO NY IN	ED	24.25	0.065934	0	0.0071	0.0588	Jun-79
28	Jul-79	CONSOLIDATED EDISON CO NY IN	ED	24.625	0.015464	0	0.0076	0.0079	Jul-79

28	Aug-79	CONSOLIDATED EDISON CO NY IN	ED	23.5	-0.02091	0.61	0.0073	-0.0282	Aug-79
28	Sep-79	CONSOLIDATED EDISON CO NY IN	ED	23.5	0	0	0.0068	-0.0068	Sep-79
28	Oct-79	CONSOLIDATED EDISON CO NY IN	ED	21.75	-0.04851	0.61	0.0082	-0.0567	Oct-79
28	Nov-79	CONSOLIDATED EDISON CO NY IN	ED	24.125	0.109195	0	0.0083	0.1009	Nov-79
28	Dec-79	CONSOLIDATED EDISON CO NY IN	ED	24.25	0.005181	0	0.0083	-0.0031	Dec-79
28	Jan-80	CONSOLIDATED EDISON CO NY IN	ED	22.625	-0.03938	0.67	0.0083	-0.0477	Jan-80
28	Feb-80	CONSOLIDATED EDISON CO NY IN	ED	21.25	-0.06077	0	0.0084	-0.0692	Feb-80
28	Mar-80	CONSOLIDATED EDISON CO NY IN	ED	21.375	0.005882	0	0.0099	-0.0040	Mar-80
28	Apr-80	CONSOLIDATED EDISON CO NY IN	ED	24.375	0.140351	0	0.0100	0.1304	Apr-80
28	May-80	CONSOLIDATED EDISON CO NY IN	ED	24.75	0.042872	0.67	0.0087	0.0342	May-80
28	Jun-80	CONSOLIDATED EDISON CO NY IN	ED	25.75	0.040404	0	0.0086	0.0318	Jun-80
28	Jul-80	CONSOLIDATED EDISON CO NY IN	ED	24.375	-0.02738	0.67	0.0084	-0.0358	Jul-80
28	Aug-80	CONSOLIDATED EDISON CO NY IN	ED	24.25	-0.00513	0	0.0081	-0.0132	Aug-80
28	Sep-80	CONSOLIDATED EDISON CO NY IN	ED	24	-0.01031	0	0.0097	-0.0200	Sep-80
28	Oct-80	CONSOLIDATED EDISON CO NY IN	ED	23.5	-0.02083	0	0.0097	-0.0305	Oct-80
28	Nov-80	CONSOLIDATED EDISON CO NY IN	ED	22	-0.03532	0.67	0.0091	-0.0444	Nov-80
28	Dec-80	CONSOLIDATED EDISON CO NY IN	ED	24.875	0.130682	0	0.0108	0.1199	Dec-80
28	Jan-81	CONSOLIDATED EDISON CO NY IN	ED	24.5	-0.01508	0	0.0094	-0.0245	Jan-81
28	Feb-81	CONSOLIDATED EDISON CO NY IN	ED	23.25	-0.02082	0.74	0.0088	-0.0296	Feb-81
28	Mar-81	CONSOLIDATED EDISON CO NY IN	ED	26.75	0.150538	0	0.0111	0.1394	Mar-81
28	Apr-81	CONSOLIDATED EDISON CO NY IN	ED	28.375	0.060748	0	0.0101	0.0506	Apr-81
28	May-81	CONSOLIDATED EDISON CO NY IN	ED	28.125	0.017269	0.74	0.0104	0.0069	May-81
28	Jun-81	CONSOLIDATED EDISON CO NY IN	ED	28.75	0.022222	0	0.0109	0.0113	Jun-81
28	Jul-81	CONSOLIDATED EDISON CO NY IN	ED	29.5	0.026087	0	0.0109	0.0152	Jul-81
28	Aug-81	CONSOLIDATED EDISON CO NY IN	ED	29.375	0.020847	0.74	0.0110	0.0098	Aug-81
28	Sep-81	CONSOLIDATED EDISON CO NY IN	ED	29	-0.01277	0	0.0114	-0.0242	Sep-81
28	Oct-81	CONSOLIDATED EDISON CO NY IN	ED	32.25	0.112069	0	0.0117	0.1004	Oct-81
28	Nov-81	CONSOLIDATED EDISON CO NY IN	ED	32.75	0.03845	0.74	0.0113	0.0272	Nov-81
28	Dec-81	CONSOLIDATED EDISON CO NY IN	ED	32.5	-0.00763	0	0.0100	-0.0176	Dec-81
28	Jan-82	CONSOLIDATED EDISON CO NY IN	ED	33.875	0.042308	0	0.0108	0.0315	Jan-82
28	Feb-82	CONSOLIDATED EDISON CO NY IN	ED	34.25	0.035867	0.84	0.0103	0.0256	Feb-82
28	Mar-82	CONSOLIDATED EDISON CO NY IN	ED	35	0.021898	0	0.0124	0.0095	Mar-82
28	Apr-82	CONSOLIDATED EDISON CO NY IN	ED	36.75	0.05	0	0.0112	0.0388	Apr-82
28	May-82	CONSOLIDATED EDISON CO NY IN	ED	36.5	0.016054	0.84	0.0101	0.0060	May-82
28	Jun-82	CONSOLIDATED EDISON CO NY IN	ED	35.625	-0.02397	0	0.0120	-0.0360	Jun-82
28	Jul-82	CONSOLIDATED EDISON CO NY IN	ED	17.25	-0.03158	0	0.0114	-0.0430	Jul-82
28	Aug-82	CONSOLIDATED EDISON CO NY IN	ED	19.125	0.133043	0.42	0.0112	0.1218	Aug-82
28	Sep-82	CONSOLIDATED EDISON CO NY IN	ED	19.875	0.039216	0	0.0100	0.0292	Sep-82

28	Oct-82	CONSOLIDATED EDISON CO NY IN	ED	18.875	-0.05031	0	0.0091	-0.0594	Oct-82
28	Nov-82	CONSOLIDATED EDISON CO NY IN	ED	18.25	-0.01086	0.42	0.0094	-0.0203	Nov-82
28	Dec-82	CONSOLIDATED EDISON CO NY IN	ED	20.5	0.123288	0	0.0093	0.1140	Dec-82
28	Jan-83	CONSOLIDATED EDISON CO NY IN	ED	20.25	-0.0122	0	0.0087	-0.0209	Jan-83
28	Feb-83	CONSOLIDATED EDISON CO NY IN	ED	21	0.060247	0.47	0.0081	0.0521	Feb-83
28	Mar-83	CONSOLIDATED EDISON CO NY IN	ED	22	0.047619	0	0.0089	0.0387	Mar-83
28	Apr-83	CONSOLIDATED EDISON CO NY IN	ED	23	0.045455	0	0.0085	0.0370	Apr-83
28	May-83	CONSOLIDATED EDISON CO NY IN	ED	22.25	-0.01217	0.47	0.0091	-0.0213	May-83
28	Jun-83	CONSOLIDATED EDISON CO NY IN	ED	22.25	0	0	0.0090	-0.0090	Jun-83
28	Jul-83	CONSOLIDATED EDISON CO NY IN	ED	22.625	0.016854	0	0.0088	0.0081	Jul-83
28	Aug-83	CONSOLIDATED EDISON CO NY IN	ED	21.625	-0.02343	0.47	0.0103	-0.0337	Aug-83
28	Sep-83	CONSOLIDATED EDISON CO NY IN	ED	23.5	0.086705	0	0.0096	0.0771	Sep-83
28	Oct-83	CONSOLIDATED EDISON CO NY IN	ED	25.875	0.101064	0	0.0095	0.0916	Oct-83
28	Nov-83	CONSOLIDATED EDISON CO NY IN	ED	24.75	-0.02531	0.47	0.0094	-0.0347	Nov-83
28	Dec-83	CONSOLIDATED EDISON CO NY IN	ED	24.875	0.005051	0	0.0094	-0.0043	Dec-83
28	Jan-84	CONSOLIDATED EDISON CO NY IN	ED	25	0.005025	0	0.0103	-0.0053	Jan-84
28	Feb-84	CONSOLIDATED EDISON CO NY IN	ED	22.75	-0.0688	0.53	0.0092	-0.0780	Feb-84
28	Mar-84	CONSOLIDATED EDISON CO NY IN	ED	24	0.054945	0	0.0098	0.0451	Mar-84
28	Apr-84	CONSOLIDATED EDISON CO NY IN	ED	24.75	0.03125	0	0.0104	0.0209	Apr-84
28	May-84	CONSOLIDATED EDISON CO NY IN	ED	24.75	0.021414	0.53	0.0103	0.0111	May-84
28	Jun-84	CONSOLIDATED EDISON CO NY IN	ED	25.25	0.020202	0	0.0106	0.0096	Jun-84
28	Jul-84	CONSOLIDATED EDISON CO NY IN	ED	26.625	0.054455	0	0.0116	0.0429	Jul-84
28	Aug-84	CONSOLIDATED EDISON CO NY IN	ED	26.875	0.029296	0.53	0.0106	0.0187	Aug-84
28	Sep-84	CONSOLIDATED EDISON CO NY IN	ED	28.25	0.051163	0	0.0094	0.0418	Sep-84
28	Oct-84	CONSOLIDATED EDISON CO NY IN	ED	28.25	0.018761	0.53	0.0108	0.0080	Oct-84
28	Nov-84	CONSOLIDATED EDISON CO NY IN	ED	28.375	0.004425	0	0.0091	-0.0047	Nov-84
28	Dec-84	CONSOLIDATED EDISON CO NY IN	ED	30.75	0.0837	0	0.0098	0.0739	Dec-84
28	Jan-85	CONSOLIDATED EDISON CO NY IN	ED	29.5	-0.02114	0.6	0.0096	-0.0307	Jan-85
28	Feb-85	CONSOLIDATED EDISON CO NY IN	ED	30.5	0.033898	0	0.0082	0.0257	Feb-85
28	Mar-85	CONSOLIDATED EDISON CO NY IN	ED	32.25	0.057377	0	0.0094	0.0480	Mar-85
28	Apr-85	CONSOLIDATED EDISON CO NY IN	ED	32.875	0.01938	0	0.0102	0.0092	Apr-85
28	May-85	CONSOLIDATED EDISON CO NY IN	ED	35.5	0.098099	0.6	0.0097	0.0884	May-85
28	Jun-85	CONSOLIDATED EDISON CO NY IN	ED	37.125	0.045775	0	0.0080	0.0378	Jun-85
28	Jul-85	CONSOLIDATED EDISON CO NY IN	ED	34	-0.08418	0	0.0094	-0.0936	Jul-85
28	Aug-85	CONSOLIDATED EDISON CO NY IN	ED	34.875	0.043382	0.6	0.0085	0.0349	Aug-85
28	Sep-85	CONSOLIDATED EDISON CO NY IN	ED	33.75	-0.03226	0	0.0088	-0.0411	Sep-85
28	Oct-85	CONSOLIDATED EDISON CO NY IN	ED	35.375	0.065926	0.6	0.0089	0.0570	Oct-85
28	Nov-85	CONSOLIDATED EDISON CO NY IN	ED	36.5	0.031802	0	0.0081	0.0237	Nov-85

28	Dec-85	CONSOLIDATED EDISON CO NY IN	ED	39.5	0.082192	0	0.0086	0.0736	Dec-85
28	Jan-86	CONSOLIDATED EDISON CO NY IN	ED	40.375	0.022152	0	0.0079	0.0143	Jan-86
28	Feb-86	CONSOLIDATED EDISON CO NY IN	ED	41.625	0.047554	0.67	0.0073	0.0403	Feb-86
28	Mar-86	CONSOLIDATED EDISON CO NY IN	ED	42.5	0.021021	0	0.0071	0.0139	Mar-86
28	Apr-86	CONSOLIDATED EDISON CO NY IN	ED	42.25	-0.00588	0	0.0063	-0.0122	Apr-86
28	May-86	CONSOLIDATED EDISON CO NY IN	ED	43.375	0.042485	0.67	0.0062	0.0363	May-86
28	Jun-86	CONSOLIDATED EDISON CO NY IN	ED	44.125	0.017291	0	0.0070	0.0103	Jun-86
28	Jul-86	CONSOLIDATED EDISON CO NY IN	ED	49.625	0.124646	0	0.0066	0.1180	Jul-86
28	Aug-86	CONSOLIDATED EDISON CO NY IN	ED	52	0.06136	0.67	0.0063	0.0551	Aug-86
28	Sep-86	CONSOLIDATED EDISON CO NY IN	ED	44.75	-0.13942	0	0.0065	-0.1459	Sep-86
28	Oct-86	CONSOLIDATED EDISON CO NY IN	ED	46.75	0.044693	0	0.0069	0.0378	Oct-86
28	Nov-86	CONSOLIDATED EDISON CO NY IN	ED	49.375	0.070481	0.67	0.0059	0.0646	Nov-86
28	Dec-86	CONSOLIDATED EDISON CO NY IN	ED	47.125	-0.04557	0	0.0070	-0.0526	Dec-86
28	Jan-87	CONSOLIDATED EDISON CO NY IN	ED	49	0.039788	0	0.0064	0.0334	Jan-87
28	Feb-87	CONSOLIDATED EDISON CO NY IN	ED	45	-0.06653	0.74	0.0059	-0.0724	Feb-87
28	Mar-87	CONSOLIDATED EDISON CO NY IN	ED	42.75	-0.05	0	0.0066	-0.0566	Mar-87
28	Apr-87	CONSOLIDATED EDISON CO NY IN	ED	43.625	0.020468	0	0.0065	0.0140	Apr-87
28	May-87	CONSOLIDATED EDISON CO NY IN	ED	42.375	-0.01169	0.74	0.0066	-0.0183	May-87
28	Jun-87	CONSOLIDATED EDISON CO NY IN	ED	44.875	0.058997	0	0.0075	0.0515	Jun-87
28	Jul-87	CONSOLIDATED EDISON CO NY IN	ED	43.125	-0.039	0	0.0073	-0.0463	Jul-87
28	Aug-87	CONSOLIDATED EDISON CO NY IN	ED	44.25	0.043246	0.74	0.0075	0.0357	Aug-87
28	Sep-87	CONSOLIDATED EDISON CO NY IN	ED	44	-0.00565	0	0.0075	-0.0132	Sep-87
28	Oct-87	CONSOLIDATED EDISON CO NY IN	ED	43.25	-0.01705	0	0.0079	-0.0249	Oct-87
28	Nov-87	CONSOLIDATED EDISON CO NY IN	ED	42	-0.01179	0.74	0.0075	-0.0193	Nov-87
28	Dec-87	CONSOLIDATED EDISON CO NY IN	ED	41.75	-0.00595	0	0.0078	-0.0138	Dec-87
28	Jan-88	CONSOLIDATED EDISON CO NY IN	ED	47.25	0.131737	0	0.0072	0.1245	Jan-88
28	Feb-88	CONSOLIDATED EDISON CO NY IN	ED	45.375	-0.02275	0.8	0.0071	-0.0299	Feb-88
28	Mar-88	CONSOLIDATED EDISON CO NY IN	ED	43	-0.05234	0	0.0072	-0.0595	Mar-88
28	Apr-88	CONSOLIDATED EDISON CO NY IN	ED	43	0	0	0.0070	-0.0070	Apr-88
28	May-88	CONSOLIDATED EDISON CO NY IN	ED	43.875	0.038953	0.8	0.0078	0.0312	May-88
28	Jun-88	CONSOLIDATED EDISON CO NY IN	ED	44	0.002849	0	0.0076	-0.0048	Jun-88
28	Jul-88	CONSOLIDATED EDISON CO NY IN	ED	44.125	0.002841	0	0.0071	-0.0043	Jul-88
28	Aug-88	CONSOLIDATED EDISON CO NY IN	ED	42.75	-0.01303	0.8	0.0083	-0.0213	Aug-88
28	Sep-88	CONSOLIDATED EDISON CO NY IN	ED	44.625	0.04386	0	0.0076	0.0363	Sep-88
28	Oct-88	CONSOLIDATED EDISON CO NY IN	ED	46	0.030812	0	0.0076	0.0232	Oct-88
28	Nov-88	CONSOLIDATED EDISON CO NY IN	ED	45	-0.00435	0.8	0.0070	-0.0113	Nov-88
28	Dec-88	CONSOLIDATED EDISON CO NY IN	ED	46.5	0.033333	0	0.0075	0.0258	Dec-88
28	Jan-89	CONSOLIDATED EDISON CO NY IN	ED	47.125	0.013441	0	0.0080	0.0054	Jan-89

28	Feb-89	CONSOLIDATED EDISON CO NY IN	ED	44.75	-0.03215	0.86	0.0069	-0.0390	Feb-89
28	Mar-89	CONSOLIDATED EDISON CO NY IN	ED	45.75	0.022346	0	0.0079	0.0144	Mar-89
28	Apr-89	CONSOLIDATED EDISON CO NY IN	ED	47.25	0.032787	0	0.0070	0.0258	Apr-89
28	May-89	CONSOLIDATED EDISON CO NY IN	ED	49.125	0.057884	0.86	0.0080	0.0499	May-89
28	Jun-89	CONSOLIDATED EDISON CO NY IN	ED	50.75	0.033079	0	0.0070	0.0261	Jun-89
28	Jul-89	CONSOLIDATED EDISON CO NY IN	ED	26.75	0.054187	0	0.0068	0.0474	Jul-89
28	Aug-89	CONSOLIDATED EDISON CO NY IN	ED	25.5	-0.03065	0.43	0.0066	-0.0373	Aug-89
28	Sep-89	CONSOLIDATED EDISON CO NY IN	ED	24.875	-0.02451	0	0.0065	-0.0310	Sep-89
28	Oct-89	CONSOLIDATED EDISON CO NY IN	ED	25.5	0.025126	0	0.0072	0.0179	Oct-89
28	Nov-89	CONSOLIDATED EDISON CO NY IN	ED	27.125	0.080588	0.43	0.0064	0.0742	Nov-89
28	Dec-89	CONSOLIDATED EDISON CO NY IN	ED	29.125	0.073733	0	0.0064	0.0673	Dec-89
28	Jan-90	CONSOLIDATED EDISON CO NY IN	ED	27.25	-0.06438	0	0.0073	-0.0717	Jan-90
28	Feb-90	CONSOLIDATED EDISON CO NY IN	ED	26.375	-0.01541	0.455	0.0066	-0.0220	Feb-90
28	Mar-90	CONSOLIDATED EDISON CO NY IN	ED	26	-0.01422	0	0.0071	-0.0213	Mar-90
28	Apr-90	CONSOLIDATED EDISON CO NY IN	ED	23.75	-0.08654	0	0.0075	-0.0940	Apr-90
28	May-90	CONSOLIDATED EDISON CO NY IN	ED	23.375	0.003368	0.455	0.0075	-0.0041	May-90
28	Jun-90	CONSOLIDATED EDISON CO NY IN	ED	23.5	0.005348	0	0.0068	-0.0015	Jun-90
28	Jul-90	CONSOLIDATED EDISON CO NY IN	ED	25	0.06383	0	0.0074	0.0564	Jul-90
28	Aug-90	CONSOLIDATED EDISON CO NY IN	ED	21.75	-0.1118	0.455	0.0071	-0.1189	Aug-90
28	Sep-90	CONSOLIDATED EDISON CO NY IN	ED	21	-0.03448	0	0.0069	-0.0414	Sep-90
28	Oct-90	CONSOLIDATED EDISON CO NY IN	ED	23.375	0.113095	0	0.0081	0.1050	Oct-90
28	Nov-90	CONSOLIDATED EDISON CO NY IN	ED	23	0.003422	0.455	0.0071	-0.0037	Nov-90
28	Dec-90	CONSOLIDATED EDISON CO NY IN	ED	23.625	0.027174	0	0.0072	0.0200	Dec-90
28	Jan-91	CONSOLIDATED EDISON CO NY IN	ED	23.5	-0.00529	0	0.0071	-0.0124	Jan-91
28	Feb-91	CONSOLIDATED EDISON CO NY IN	ED	24	0.041064	0.465	0.0064	0.0347	Feb-91
28	Mar-91	CONSOLIDATED EDISON CO NY IN	ED	25.75	0.072917	0	0.0064	0.0665	Mar-91
28	Apr-91	CONSOLIDATED EDISON CO NY IN	ED	24.625	-0.04369	0	0.0076	-0.0513	Apr-91
28	May-91	CONSOLIDATED EDISON CO NY IN	ED	24.25	0.003655	0.465	0.0068	-0.0031	May-91
28	Jun-91	CONSOLIDATED EDISON CO NY IN	ED	24.625	0.015464	0	0.0063	0.0092	Jun-91
28	Jul-91	CONSOLIDATED EDISON CO NY IN	ED	25.375	0.030457	0	0.0076	0.0229	Jul-91
28	Aug-91	CONSOLIDATED EDISON CO NY IN	ED	25.375	0.018325	0.465	0.0068	0.0115	Aug-91
28	Sep-91	CONSOLIDATED EDISON CO NY IN	ED	25.375	0	0	0.0068	-0.0068	Sep-91
28	Oct-91	CONSOLIDATED EDISON CO NY IN	ED	25.75	0.014778	0	0.0065	0.0083	Oct-91
28	Nov-91	CONSOLIDATED EDISON CO NY IN	ED	26	0.027767	0.465	0.0060	0.0218	Nov-91
28	Dec-91	CONSOLIDATED EDISON CO NY IN	ED	28.625	0.100962	0	0.0068	0.0942	Dec-91
28	Jan-92	CONSOLIDATED EDISON CO NY IN	ED	28.5	-0.00437	0	0.0061	-0.0105	Jan-92
28	Feb-92	CONSOLIDATED EDISON CO NY IN	ED	25.875	-0.07544	0.475	0.0059	-0.0813	Feb-92
28	Mar-92	CONSOLIDATED EDISON CO NY IN	ED	27	0.043478	0	0.0067	0.0368	Mar-92

28	Apr-92	CONSOLIDATED EDISON CO NY IN	ED	28	0.037037	0	0.0065	0.0305	Apr-92
28	May-92	CONSOLIDATED EDISON CO NY IN	ED	28.375	0.030357	0.475	0.0061	0.0243	May-92
28	Jun-92	CONSOLIDATED EDISON CO NY IN	ED	28	-0.01322	0	0.0067	-0.0199	Jun-92
28	Jul-92	CONSOLIDATED EDISON CO NY IN	ED	31.25	0.116071	0	0.0063	0.1098	Jul-92
28	Aug-92	CONSOLIDATED EDISON CO NY IN	ED	30.875	0.0032	0.475	0.0060	-0.0028	Aug-92
28	Sep-92	CONSOLIDATED EDISON CO NY IN	ED	31.375	0.016194	0	0.0058	0.0104	Sep-92
28	Oct-92	CONSOLIDATED EDISON CO NY IN	ED	31.25	-0.00398	0	0.0057	-0.0097	Oct-92
28	Nov-92	CONSOLIDATED EDISON CO NY IN	ED	31.5	0.0232	0.475	0.0061	0.0171	Nov-92
28	Dec-92	CONSOLIDATED EDISON CO NY IN	ED	32.625	0.035714	0	0.0063	0.0294	Dec-92
28	Jan-93	CONSOLIDATED EDISON CO NY IN	ED	33.625	0.030651	0	0.0059	0.0248	Jan-93
28	Feb-93	CONSOLIDATED EDISON CO NY IN	ED	35.25	0.062751	0.485	0.0055	0.0573	Feb-93
28	Mar-93	CONSOLIDATED EDISON CO NY IN	ED	35.625	0.010638	0	0.0063	0.0043	Mar-93
28	Apr-93	CONSOLIDATED EDISON CO NY IN	ED	35.375	-0.00702	0	0.0057	-0.0127	Apr-93
28	May-93	CONSOLIDATED EDISON CO NY IN	ED	34.125	-0.02163	0.485	0.0052	-0.0268	May-93
28	Jun-93	CONSOLIDATED EDISON CO NY IN	ED	35.25	0.032967	0	0.0062	0.0268	Jun-93
28	Jul-93	CONSOLIDATED EDISON CO NY IN	ED	36.375	0.031915	0	0.0054	0.0265	Jul-93
28	Aug-93	CONSOLIDATED EDISON CO NY IN	ED	36.75	0.023643	0.485	0.0056	0.0180	Aug-93
28	Sep-93	CONSOLIDATED EDISON CO NY IN	ED	36.125	-0.01701	0	0.0050	-0.0220	Sep-93
28	Oct-93	CONSOLIDATED EDISON CO NY IN	ED	34.75	-0.03806	0	0.0049	-0.0430	Oct-93
28	Nov-93	CONSOLIDATED EDISON CO NY IN	ED	31.125	-0.09036	0.485	0.0053	-0.0957	Nov-93
28	Dec-93	CONSOLIDATED EDISON CO NY IN	ED	32.125	0.032129	0	0.0055	0.0266	Dec-93
28	Jan-94	CONSOLIDATED EDISON CO NY IN	ED	31.25	-0.02724	0	0.0055	-0.0327	Jan-94
28	Feb-94	CONSOLIDATED EDISON CO NY IN	ED	29.625	-0.036	0.5	0.0049	-0.0409	Feb-94
28	Mar-94	CONSOLIDATED EDISON CO NY IN	ED	29.125	-0.01688	0	0.0058	-0.0227	Mar-94
28	Apr-94	CONSOLIDATED EDISON CO NY IN	ED	30.625	0.051502	0	0.0057	0.0458	Apr-94
28	May-94	CONSOLIDATED EDISON CO NY IN	ED	27.625	-0.08163	0.5	0.0063	-0.0879	May-94
28	Jun-94	CONSOLIDATED EDISON CO NY IN	ED	26.5	-0.04072	0	0.0061	-0.0468	Jun-94
28	Jul-94	CONSOLIDATED EDISON CO NY IN	ED	28.75	0.084906	0	0.0060	0.0789	Jul-94
28	Aug-94	CONSOLIDATED EDISON CO NY IN	ED	27.25	-0.03478	0.5	0.0066	-0.0414	Aug-94
28	Sep-94	CONSOLIDATED EDISON CO NY IN	ED	24.875	-0.08716	0	0.0061	-0.0933	Sep-94
28	Oct-94	CONSOLIDATED EDISON CO NY IN	ED	24.875	0	0	0.0066	-0.0066	Oct-94
28	Nov-94	CONSOLIDATED EDISON CO NY IN	ED	25.875	0.060302	0.5	0.0064	0.0539	Nov-94
28	Dec-94	CONSOLIDATED EDISON CO NY IN	ED	25.75	-0.00483	0	0.0066	-0.0114	Dec-94
28	Jan-95	CONSOLIDATED EDISON CO NY IN	ED	28.25	0.097087	0	0.0070	0.0901	Jan-95
28	Feb-95	CONSOLIDATED EDISON CO NY IN	ED	27.625	-0.00407	0.51	0.0059	-0.0100	Feb-95
28	Mar-95	CONSOLIDATED EDISON CO NY IN	ED	27.25	-0.01358	0	0.0064	-0.0200	Mar-95
28	Apr-95	CONSOLIDATED EDISON CO NY IN	ED	27.75	0.018349	0	0.0058	0.0125	Apr-95
28	May-95	CONSOLIDATED EDISON CO NY IN	ED	29.875	0.094955	0.51	0.0065	0.0885	May-95

28	Jun-95	CONSOLIDATED EDISON CO NY IN	ED	29.5	-0.01255	0	0.0054	-0.0180	Jun-95
28	Jul-95	CONSOLIDATED EDISON CO NY IN	ED	29	-0.01695	0	0.0056	-0.0225	Jul-95
28	Aug-95	CONSOLIDATED EDISON CO NY IN	ED	28.25	-0.00828	0.51	0.0057	-0.0140	Aug-95
28	Sep-95	CONSOLIDATED EDISON CO NY IN	ED	30.375	0.075221	0	0.0052	0.0700	Sep-95
28	Oct-95	CONSOLIDATED EDISON CO NY IN	ED	30.375	0	0	0.0057	-0.0057	Oct-95
28	Nov-95	CONSOLIDATED EDISON CO NY IN	ED	28.75	-0.03671	0.51	0.0051	-0.0418	Nov-95
28	Dec-95	CONSOLIDATED EDISON CO NY IN	ED	31.75	0.104348	0	0.0049	0.0994	Dec-95
28	Jan-96	CONSOLIDATED EDISON CO NY IN	ED	33.75	0.062992	0	0.0054	0.0576	Jan-96
28	Feb-96	CONSOLIDATED EDISON CO NY IN	ED	32.375	-0.02533	0.52	0.0048	-0.0301	Feb-96
28	Mar-96	CONSOLIDATED EDISON CO NY IN	ED	31.875	-0.01544	0	0.0052	-0.0206	Mar-96
28	Apr-96	CONSOLIDATED EDISON CO NY IN	ED	29.375	-0.07843	0	0.0059	-0.0843	Apr-96
28	May-96	CONSOLIDATED EDISON CO NY IN	ED	27.875	-0.03336	0.52	0.0058	-0.0392	May-96
28	Jun-96	CONSOLIDATED EDISON CO NY IN	ED	29.25	0.049327	0	0.0054	0.0439	Jun-96
28	Jul-96	CONSOLIDATED EDISON CO NY IN	ED	27	-0.07692	0	0.0062	-0.0831	Jul-96
28	Aug-96	CONSOLIDATED EDISON CO NY IN	ED	26.125	-0.01315	0.52	0.0057	-0.0188	Aug-96
28	Sep-96	CONSOLIDATED EDISON CO NY IN	ED	27.75	0.062201	0	0.0060	0.0562	Sep-96
28	Oct-96	CONSOLIDATED EDISON CO NY IN	ED	29.25	0.054054	0	0.0058	0.0483	Oct-96
28	Nov-96	CONSOLIDATED EDISON CO NY IN	ED	29	0.009231	0.52	0.0052	0.0040	Nov-96
28	Dec-96	CONSOLIDATED EDISON CO NY IN	ED	29.125	0.00431	0	0.0056	-0.0013	Dec-96
28	Jan-97	CONSOLIDATED EDISON CO NY IN	ED	31	0.064378	0	0.0056	0.0588	Jan-97
28	Feb-97	CONSOLIDATED EDISON CO NY IN	ED	30.875	0.012903	0.525	0.0051	0.0078	Feb-97
28	Mar-97	CONSOLIDATED EDISON CO NY IN	ED	30	-0.02834	0	0.0059	-0.0342	Mar-97
28	Apr-97	CONSOLIDATED EDISON CO NY IN	ED	27.75	-0.075	0	0.0059	-0.0809	Apr-97
28	May-97	CONSOLIDATED EDISON CO NY IN	ED	29.125	0.068468	0.525	0.0058	0.0627	May-97
28	Jun-97	CONSOLIDATED EDISON CO NY IN	ED	29.4375	0.01073	0	0.0059	0.0048	Jun-97
28	Jul-97	CONSOLIDATED EDISON CO NY IN	ED	31.625	0.07431	0	0.0058	0.0685	Jul-97
28	Aug-97	CONSOLIDATED EDISON CO NY IN	ED	30.625	-0.01502	0.525	0.0049	-0.0199	Aug-97
28	Sep-97	CONSOLIDATED EDISON CO NY IN	ED	34	0.110204	0	0.0058	0.1044	Sep-97
28	Oct-97	CONSOLIDATED EDISON CO NY IN	ED	34.25	0.007353	0	0.0054	0.0020	Oct-97
28	Nov-97	CONSOLIDATED EDISON CO NY IN	ED	37.9375	0.122993	0.525	0.0047	0.1183	Nov-97
28	Dec-97	CONSOLIDATED EDISON CO NY IN	ED	41	0.080725	0	0.0054	0.0753	Dec-97
28	Jan-98	CONSOLIDATED EDISON INC	ED	41.3125	0.007622	0	0.0048	0.0028	Jan-98
28	Feb-98	CONSOLIDATED EDISON INC	ED	42.5	0.041573	0.53	0.0044	0.0372	Feb-98
28	Mar-98	CONSOLIDATED EDISON INC	ED	46.75	0.1	0	0.0052	0.0948	Mar-98
28	Apr-98	CONSOLIDATED EDISON INC	ED	45.25	-0.03209	0	0.0049	-0.0370	Apr-98
28	May-98	CONSOLIDATED EDISON INC	ED	42.8125	-0.04216	0.53	0.0048	-0.0470	May-98
28	Jun-98	CONSOLIDATED EDISON INC	ED	46.0625	0.075912	0	0.0052	0.0707	Jun-98
28	Jul-98	CONSOLIDATED EDISON INC	ED	42.3125	-0.08141	0	0.0049	-0.0863	Jul-98

28	Aug-98	CONSOLIDATED EDISON INC	ED	47.3125	0.130694	0.53	0.0048	0.1259	Aug-98
28	Sep-98	CONSOLIDATED EDISON INC	ED	52	0.099075	0	0.0044	0.0947	Sep-98
28	Oct-98	CONSOLIDATED EDISON INC	ED	50.125	-0.03606	0	0.0042	-0.0403	Oct-98
28	Nov-98	CONSOLIDATED EDISON INC	ED	50.8125	0.024289	0.53	0.0045	0.0198	Nov-98
28	Dec-98	CONSOLIDATED EDISON INC	ED	52.875	0.04059	0	0.0045	0.0361	Dec-98
28	Jan-99	CONSOLIDATED EDISON INC	ED	49.4375	-0.06501	0	0.0042	-0.0692	Jan-99
28	Feb-99	CONSOLIDATED EDISON INC	ED	46.75	-0.04354	0.535	0.0040	-0.0475	Feb-99
28	Mar-99	CONSOLIDATED EDISON INC	ED	45.3125	-0.03075	0	0.0053	-0.0360	Mar-99
28	Apr-99	CONSOLIDATED EDISON INC	ED	45.4375	0.002759	0	0.0048	-0.0020	Apr-99
28	May-99	CONSOLIDATED EDISON INC	ED	48.5625	0.08055	0.535	0.0045	0.0761	May-99
28	Jun-99	CONSOLIDATED EDISON INC	ED	45.25	-0.06821	0	0.0055	-0.0737	Jun-99
28	Jul-99	CONSOLIDATED EDISON INC	ED	43.5	-0.03867	0	0.0051	-0.0438	Jul-99
28	Aug-99	CONSOLIDATED EDISON INC	ED	44	0.023793	0.535	0.0054	0.0184	Aug-99
28	Sep-99	CONSOLIDATED EDISON INC	ED	41.5	-0.05682	0	0.0052	-0.0620	Sep-99
28	Oct-99	CONSOLIDATED EDISON INC	ED	38.1875	-0.07982	0	0.0050	-0.0848	Oct-99
28	Nov-99	CONSOLIDATED EDISON INC	ED	34.5	-0.08255	0.535	0.0056	-0.0882	Nov-99
28	Dec-99	CONSOLIDATED EDISON INC	ED	34.5	0	0	0.0055	-0.0055	Dec-99
28	Jan-00	CONSOLIDATED EDISON INC	ED	32.6875	-0.05254	0	0.0057	-0.0582	Jan-00
28	Feb-00	CONSOLIDATED EDISON INC	ED	27.5625	-0.14012	0.545	0.0051	-0.1452	Feb-00
28	Mar-00	CONSOLIDATED EDISON INC	ED	29.125	0.056689	0	0.0054	0.0513	Mar-00
28	Apr-00	CONSOLIDATED EDISON INC	ED	35.1875	0.208154	0	0.0047	0.2035	Apr-00
28	May-00	CONSOLIDATED EDISON INC	ED	32.625	-0.05734	0.545	0.0056	-0.0629	May-00
28	Jun-00	CONSOLIDATED EDISON INC	ED	29.625	-0.09195	0	0.0052	-0.0972	Jun-00
28	Jul-00	CONSOLIDATED EDISON INC	ED	30.3125	0.023207	0	0.0052	0.0180	Jul-00
28	Aug-00	CONSOLIDATED EDISON INC	ED	31.3125	0.050969	0.545	0.0050	0.0460	Aug-00
28	Sep-00	CONSOLIDATED EDISON INC	ED	34.125	0.08982	0	0.0046	0.0852	Sep-00
28	Oct-00	CONSOLIDATED EDISON INC	ED	35.1875	0.031136	0	0.0053	0.0258	Oct-00
28	Nov-00	CONSOLIDATED EDISON INC	ED	37.25	0.074103	0.545	0.0048	0.0693	Nov-00
28	Dec-00	CONSOLIDATED EDISON INC	ED	38.5	0.033557	0	0.0045	0.0291	Dec-00
28	Jan-01	CONSOLIDATED EDISON INC	ED	34.94	-0.09247	0	0.0049	-0.0974	Jan-01
28	Feb-01	CONSOLIDATED EDISON INC	ED	36.87	0.070979	0.55	0.0042	0.0668	Feb-01
28	Mar-01	CONSOLIDATED EDISON INC	ED	37.1	0.006238	0	0.0045	0.0017	Mar-01
28	Apr-01	CONSOLIDATED EDISON INC	ED	37.41	0.008356	0	0.0047	0.0037	Apr-01
28	May-01	CONSOLIDATED EDISON INC	ED	39.15	0.061214	0.55	0.0050	0.0562	May-01
28	Jun-01	CONSOLIDATED EDISON INC	ED	39.8	0.016603	0	0.0047	0.0119	Jun-01
28	Jul-01	CONSOLIDATED EDISON INC	ED	39.74	-0.00151	0	0.0052	-0.0067	Jul-01
28	Aug-01	CONSOLIDATED EDISON INC	ED	40.9	0.04303	0.55	0.0046	0.0384	Aug-01
28	Sep-01	CONSOLIDATED EDISON INC	ED	40.72	-0.0044	0	0.0041	-0.0085	Sep-01

28	Oct-01	CONSOLIDATED EDISON INC	ED	39.49	-0.03021	0	0.0048	-0.0350	Oct-01
28	Nov-01	CONSOLIDATED EDISON INC	ED	38.62	-0.0081	0.55	0.0041	-0.0122	Nov-01
28	Dec-01	CONSOLIDATED EDISON INC	ED	40.36	0.045054	0	0.0046	0.0405	Dec-01
28	Jan-02	CONSOLIDATED EDISON INC	ED	40.99	0.01561	0	0.0048	0.0108	Jan-02
28	Feb-02	CONSOLIDATED EDISON INC	ED	40.8	0.008905	0.555	0.0043	0.0046	Feb-02
28	Mar-02	CONSOLIDATED EDISON INC	ED	41.91	0.027206	0	0.0043	0.0229	Mar-02
28	Apr-02	CONSOLIDATED EDISON INC	ED	43.59	0.040086	0	0.0054	0.0347	Apr-02
28	May-02	CONSOLIDATED EDISON INC	ED	43.77	0.016862	0.555	0.0049	0.0120	May-02
28	Jun-02	CONSOLIDATED EDISON INC	ED	41.75	-0.04615	0	0.0044	-0.0506	Jun-02
28	Jul-02	CONSOLIDATED EDISON INC	ED	42.85	0.026347	0	0.0051	0.0212	Jul-02
28	Aug-02	CONSOLIDATED EDISON INC	ED	40.69	-0.03746	0.555	0.0044	-0.0419	Aug-02
28	Sep-02	CONSOLIDATED EDISON INC	ED	40.22	-0.01155	0	0.0042	-0.0158	Sep-02
28	Oct-02	CONSOLIDATED EDISON INC	ED	42.57	0.058429	0	0.0040	0.0544	Oct-02
28	Nov-02	CONSOLIDATED EDISON INC	ED	39.75	-0.05321	0.555	0.0040	-0.0572	Nov-02
28	Dec-02	CONSOLIDATED EDISON INC	ED	42.82	0.077233	0	0.0045	0.0727	Dec-02
28	Jan-03	CONSOLIDATED EDISON INC	ED	39.92	-0.06773	0	0.0041	-0.0718	Jan-03
28	Feb-03	CONSOLIDATED EDISON INC	ED	39	-0.00902	0.56	0.0038	-0.0128	Feb-03
28	Mar-03	CONSOLIDATED EDISON INC	ED	38.47	-0.01359	0	0.0040	-0.0176	Mar-03
28	Apr-03	CONSOLIDATED EDISON INC	ED	38.87	0.010398	0	0.0040	0.0064	Apr-03
28	May-03	CONSOLIDATED EDISON INC	ED	42.99	0.120401	0.56	0.0039	0.1165	May-03
28	Jun-03	CONSOLIDATED EDISON INC	ED	43.28	0.006746	0	0.0036	0.0031	Jun-03
28	Jul-03	CONSOLIDATED EDISON INC	ED	39.71	-0.08249	0	0.0038	-0.0863	Jul-03
28	Aug-03	CONSOLIDATED EDISON INC	ED	39.53	0.009569	0.56	0.0042	0.0054	Aug-03
28	Sep-03	CONSOLIDATED EDISON INC	ED	40.76	0.031116	0	0.0046	0.0265	Sep-03
28	Oct-03	CONSOLIDATED EDISON INC	ED	40.47	-0.00712	0	0.0041	-0.0112	Oct-03
28	Nov-03	CONSOLIDATED EDISON INC	ED	40.3	0.009637	0.56	0.0039	0.0057	Nov-03
28	Dec-03	CONSOLIDATED EDISON INC	ED	43.01	0.067246	0	0.0047	0.0625	Dec-03
28	Jan-04	CONSOLIDATED EDISON INC	ED	43.83	0.019065	0	0.0042	0.0149	Jan-04
28	Feb-04	CONSOLIDATED EDISON INC	ED	44.17	0.020648	0.565	0.0038	0.0168	Feb-04
28	Mar-04	CONSOLIDATED EDISON INC	ED	44.1	-0.00159	0	0.0043	-0.0059	Mar-04
28	Apr-04	CONSOLIDATED EDISON INC	ED	41.21	-0.06553	0	0.0039	-0.0694	Apr-04
28	May-04	CONSOLIDATED EDISON INC	ED	39.26	-0.03361	0.565	0.0040	-0.0376	May-04
28	Jun-04	CONSOLIDATED EDISON INC	ED	39.76	0.012736	0	0.0048	0.0079	Jun-04
28	Jul-04	CONSOLIDATED EDISON INC	ED	40.97	0.030433	0	0.0043	0.0261	Jul-04
28	Aug-04	CONSOLIDATED EDISON INC	ED	42.2	0.043813	0.565	0.0045	0.0393	Aug-04
28	Sep-04	CONSOLIDATED EDISON INC	ED	42.04	-0.00379	0	0.0040	-0.0078	Sep-04
28	Oct-04	CONSOLIDATED EDISON INC	ED	43.45	0.033539	0	0.0038	0.0297	Oct-04
28	Nov-04	CONSOLIDATED EDISON INC	ED	43.85	0.022209	0.565	0.0041	0.0181	Nov-04

28	Dec-04	CONSOLIDATED EDISON INC	ED	43.75	-0.00228	0	0.0043	-0.0066	Dec-04
28	Jan-05	CONSOLIDATED EDISON INC	ED	43.87	0.002743	0	0.0041	-0.0014	Jan-05
28	Feb-05	CONSOLIDATED EDISON INC	ED	42.75	-0.01254	0.57	0.0035	-0.0160	Feb-05
28	Mar-05	CONSOLIDATED EDISON INC	ED	42.18	-0.01333	0	0.0041	-0.0174	Mar-05
28	Apr-05	CONSOLIDATED EDISON INC	ED	43.28	0.026079	0	0.0039	0.0222	Apr-05
28	May-05	CONSOLIDATED EDISON INC	ED	45.51	0.064695	0.57	0.0040	0.0607	May-05
28	Jun-05	CONSOLIDATED EDISON INC	ED	46.84	0.029224	0	0.0036	0.0256	Jun-05
28	Jul-05	CONSOLIDATED EDISON INC	ED	48.16	0.028181	0	0.0034	0.0248	Jul-05
28	Aug-05	CONSOLIDATED EDISON INC	ED	46.91	-0.01412	0.57	0.0040	-0.0181	Aug-05
28	Sep-05	CONSOLIDATED EDISON INC	ED	48.55	0.034961	0	0.0035	0.0315	Sep-05
28	Oct-05	CONSOLIDATED EDISON INC	ED	45.5	-0.06282	0	0.0039	-0.0667	Oct-05
28	Nov-05	CONSOLIDATED EDISON INC	ED	45.54	0.013407	0.57	0.0039	0.0095	Nov-05
28	Dec-05	CONSOLIDATED EDISON INC	ED	46.33	0.017347	0	0.0039	0.0134	Dec-05
28	Jan-06	CONSOLIDATED EDISON INC	ED	47.01	0.014677	0	0.0040	0.0107	Jan-06
28	Feb-06	CONSOLIDATED EDISON INC	ED	45.87	-0.01202	0.575	0.0036	-0.0156	Feb-06
28	Mar-06	CONSOLIDATED EDISON INC	ED	43.5	-0.05167	0	0.0039	-0.0556	Mar-06
28	Apr-06	CONSOLIDATED EDISON INC	ED	43.12	-0.00874	0	0.0039	-0.0126	Apr-06
28	May-06	CONSOLIDATED EDISON INC	ED	44.1	0.036062	0.575	0.0048	0.0313	May-06
28	Jun-06	CONSOLIDATED EDISON INC	ED	44.44	0.00771	0	0.0044	0.0033	Jun-06
28	Jul-06	CONSOLIDATED EDISON INC	ED	46.87	0.05468	0	0.0045	0.0502	Jul-06
28	Aug-06	CONSOLIDATED EDISON INC	ED	46.2	-0.00203	0.575	0.0043	-0.0063	Aug-06
28	Sep-06	CONSOLIDATED EDISON INC	ED	46.2	0	0	0.0039	-0.0039	Sep-06
28	Oct-06	CONSOLIDATED EDISON INC	ED	48.35	0.046537	0	0.0042	0.0423	Oct-06
28	Nov-06	CONSOLIDATED EDISON INC	ED	48.22	0.009204	0.575	0.0039	0.0053	Nov-06
28	Dec-06	CONSOLIDATED EDISON INC	ED	48.07	-0.00311	0	0.0036	-0.0067	Dec-06
28	Jan-07	CONSOLIDATED EDISON INC	ED	48.28	0.004369	0	0.0043	0.0001	Jan-07
28	Feb-07	CONSOLIDATED EDISON INC	ED	48.58	0.018227	0.58	0.0038	0.0144	Feb-07
28	Mar-07	CONSOLIDATED EDISON INC	ED	51.06	0.05105	0	0.0039	0.0472	Mar-07
28	Apr-07	CONSOLIDATED EDISON INC	ED	51.26	0.003917	0	0.0042	-0.0003	Apr-07
28	May-07	CONSOLIDATED EDISON INC	ED	48.82	-0.03629	0.58	0.0041	-0.0404	May-07
28	Jun-07	CONSOLIDATED EDISON INC	ED	45.12	-0.07579	0	0.0040	-0.0798	Jun-07
28	Jul-07	CONSOLIDATED EDISON INC	ED	43.68	-0.03192	0	0.0046	-0.0365	Jul-07
28	Aug-07	CONSOLIDATED EDISON INC	ED	45.94	0.065018	0.58	0.0042	0.0608	Aug-07
28	Sep-07	CONSOLIDATED EDISON INC	ED	46.3	0.007836	0	0.0037	0.0041	Sep-07
28	Oct-07	CONSOLIDATED EDISON INC	ED	47.09	0.017063	0	0.0043	0.0128	Oct-07
28	Nov-07	CONSOLIDATED EDISON INC	ED	48.45	0.041198	0.58	0.0039	0.0373	Nov-07
28	Dec-07	CONSOLIDATED EDISON INC	ED	48.85	0.008256	0	0.0037	0.0046	Dec-07
28	Jan-08	CONSOLIDATED EDISON INC	ED	43.57	-0.10809	0	0.0040	-0.1121	Jan-08

28	Feb-08	CONSOLIDATED EDISON INC	ED	40.89	-0.04808	0.585	0.0034	-0.0515	Feb-08
28	Mar-08	CONSOLIDATED EDISON INC	ED	39.7	-0.0291	0	0.0037	-0.0328	Mar-08
28	Apr-08	CONSOLIDATED EDISON INC	ED	41.6	0.047859	0	0.0035	0.0444	Apr-08
28	May-08	CONSOLIDATED EDISON INC	ED	41.3	0.006851	0.585	0.0037	0.0032	May-08
28	Jun-08	CONSOLIDATED EDISON INC	ED	39.09	-0.05351	0	0.0040	-0.0575	Jun-08
28	Jul-08	CONSOLIDATED EDISON INC	ED	39.7	0.015605	0	0.0039	0.0117	Jul-08
28	Aug-08	CONSOLIDATED EDISON INC	ED	40.9	0.044962	0.585	0.0036	0.0414	Aug-08
28	Sep-08	CONSOLIDATED EDISON INC	ED	42.96	0.050367	0	0.0039	0.0465	Sep-08
28	Oct-08	CONSOLIDATED EDISON INC	ED	43.32	0.00838	0	0.0037	0.0047	Oct-08
28	Nov-08	CONSOLIDATED EDISON INC	ED	40.39	-0.05413	0.585	0.0036	-0.0577	Nov-08
28	Dec-08	CONSOLIDATED EDISON INC	ED	38.93	-0.03615	0	0.0033	-0.0394	Dec-08
28	Jan-09	CONSOLIDATED EDISON INC	ED	40.75	0.046751	0	0.0024	0.0444	Jan-09
28	Feb-09	CONSOLIDATED EDISON INC	ED	36.21	-0.09693	0.59	0.0030	-0.0999	Feb-09
28	Mar-09	CONSOLIDATED EDISON INC	ED	39.61	0.093897	0	0.0035	0.0904	Mar-09
28	Apr-09	CONSOLIDATED EDISON INC	ED	37.13	-0.06261	0	0.0029	-0.0655	Apr-09
28	May-09	CONSOLIDATED EDISON INC	ED	35.46	-0.02909	0.59	0.0033	-0.0324	May-09
28	Jun-09	CONSOLIDATED EDISON INC	ED	37.42	0.055274	0	0.0038	0.0515	Jun-09
28	Jul-09	CONSOLIDATED EDISON INC	ED	39.36	0.051844	0	0.0036	0.0482	Jul-09
28	Aug-09	CONSOLIDATED EDISON INC	ED	40.19	0.036077	0.59	0.0036	0.0325	Aug-09
28	Sep-09	CONSOLIDATED EDISON INC	ED	40.94	0.018661	0	0.0034	0.0153	Sep-09
28	Oct-09	CONSOLIDATED EDISON INC	ED	40.68	-0.00635	0	0.0033	-0.0097	Oct-09
28	Nov-09	CONSOLIDATED EDISON INC	ED	42.91	0.069322	0.59	0.0035	0.0658	Nov-09
28	Dec-09	CONSOLIDATED EDISON INC	ED	45.43	0.058728	0	0.0034	0.0553	Dec-09
28	Jan-10	CONSOLIDATED EDISON INC	ED	43.74	-0.0372	0	0.0036	-0.0408	Jan-10
28	Feb-10	CONSOLIDATED EDISON INC	ED	42.75	-0.00903	0.595	0.0033	-0.0123	Feb-10
28	Mar-10	CONSOLIDATED EDISON INC	ED	44.54	0.041871	0	0.0040	0.0379	Mar-10
28	Apr-10	CONSOLIDATED EDISON INC	ED	45.2	0.014818	0	0.0038	0.0110	Apr-10
28	May-10	CONSOLIDATED EDISON INC	ED	42.59	-0.04458	0.595	0.0034	-0.0480	May-10
28	Jun-10	CONSOLIDATED EDISON INC	ED	43.1	0.011975	0	0.0037	0.0083	Jun-10
28	Jul-10	CONSOLIDATED EDISON INC	ED	46.12	0.07007	0	0.0031	0.0670	Jul-10
28	Aug-10	CONSOLIDATED EDISON INC	ED	47.53	0.043474	0.595	0.0032	0.0403	Aug-10
28	Sep-10	CONSOLIDATED EDISON INC	ED	48.22	0.014517	0	0.0026	0.0119	Sep-10
28	Oct-10	CONSOLIDATED EDISON INC	ED	49.72	0.031107	0	0.0027	0.0284	Oct-10
28	Nov-10	CONSOLIDATED EDISON INC	ED	48.37	-0.01519	0.595	0.0032	-0.0184	Nov-10
28	Dec-10	CONSOLIDATED EDISON INC	ED	49.57	0.024809	0	0.0032	0.0216	Dec-10
28	Jan-11	CONSOLIDATED EDISON INC	ED	49.91	0.006859	0	0.0036	0.0033	Jan-11
28	Feb-11	CONSOLIDATED EDISON INC	ED	49.98	0.013424	0.6	0.0037	0.0097	Feb-11
28	Mar-11	CONSOLIDATED EDISON INC	ED	50.72	0.014806	0	0.0036	0.0112	Mar-11

28	Apr-11	CONSOLIDATED EDISON INC	ED	52.12	0.027602	0	0.0036	0.0240	Apr-11
28	May-11	CONSOLIDATED EDISON INC	ED	53.06	0.029547	0.6	0.0033	0.0262	May-11
28	Jun-11	CONSOLIDATED EDISON INC	ED	53.24	0.003392	0	0.0033	0.0001	Jun-11
28	Jul-11	CONSOLIDATED EDISON INC	ED	52.6	-0.01202	0	0.0033	-0.0153	Jul-11
28	Aug-11	CONSOLIDATED EDISON INC	ED	56.21	0.080038	0.6	0.0030	0.0770	Aug-11
28	Sep-11	CONSOLIDATED EDISON INC	ED	57.02	0.01441	0	0.0024	0.0121	Sep-11
28	Oct-11	CONSOLIDATED EDISON INC	ED	57.87	0.014907	0	0.0024	0.0125	Oct-11
28	Nov-11	CONSOLIDATED EDISON INC	ED	59.42	0.037152	0.6	0.0023	0.0349	Nov-11
28	Dec-11	CONSOLIDATED EDISON INC	ED	62.03	0.043925	0	0.0025	0.0414	Dec-11
28	Jan-12	CONSOLIDATED EDISON INC	ED	58.96	-0.04949	0	0.0021	-0.0516	Jan-12
28	Feb-12	CONSOLIDATED EDISON INC	ED	58.1	-0.00433	0.605	0.002	-0.0063	Feb-12
28	Mar-12	CONSOLIDATED EDISON INC	ED	58.42	0.005508	0	0.0022	0.0033	Mar-12
28	Apr-12	CONSOLIDATED EDISON INC	ED	59.45	0.017631	0	0.0025	0.0151	Apr-12
28	May-12	CONSOLIDATED EDISON INC	ED	60.36	0.025484	0.605	0.0023	0.0232	May-12
28	Jun-12	CONSOLIDATED EDISON INC	ED	62.19	0.030318	0	0.0018	0.0285	Jun-12
	Jul-12	CONSOLIDATED EDISON INC	ED	64.5	0.037144	0	0.002	0.0351	Jul-12
	Aug-12	CONSOLIDATED EDISON INC	ED	60.62	-0.05078	0.605	0.0018	-0.0526	Aug-12
	Sep-12	CONSOLIDATED EDISON INC	ED	59.89	-0.01204	0	0.0017	-0.0137	Sep-12
	Oct-12	CONSOLIDATED EDISON INC	ED	60.38	0.008182	0	0.0021	0.0061	Oct-12
	Nov-12	CONSOLIDATED EDISON INC	ED	55.79	-0.066	0.605	0.0019	-0.0679	Nov-12
	Dec-12	CONSOLIDATED EDISON INC	ED	55.54	-0.00448	0	0.0019	-0.0064	Dec-12
	Jan-13	CONSOLIDATED EDISON INC	ED	56.88	0.024127	0	0.0022	0.0219	Jan-13
	Feb-13	CONSOLIDATED EDISON INC	ED	59	0.048084	0.615	0.0022	0.0459	Feb-13
	Mar-13	CONSOLIDATED EDISON INC	ED	61.03	0.034407	0	0.0021	0.0323	Mar-13
	Apr-13	CONSOLIDATED EDISON INC	ED	63.65	0.04293	0	0.0026	0.0403	Apr-13
	May-13	CONSOLIDATED EDISON INC	ED	57.07	-0.09372	0.615	0.0023	-0.0960	May-13
	Jun-13	CONSOLIDATED EDISON INC	ED	58.31	0.021728	0	0.0024	0.0193	Jun-13
	Jul-13	CONSOLIDATED EDISON INC	ED	59.9	0.027268	0	0.003	0.0243	Jul-13
	Aug-13	CONSOLIDATED EDISON INC	ED	56.23	-0.051	0.615	0.0028	-0.0538	Aug-13
	Sep-13	CONSOLIDATED EDISON INC	ED	55.14	-0.01938	0	0.0029	-0.0223	Sep-13
	Oct-13	CONSOLIDATED EDISON INC	ED	58.22	0.055858	0	0.0029	0.0530	Oct-13
	Nov-13	CONSOLIDATED EDISON INC	ED	55.21	-0.04114	0.615	0.0027	-0.0438	Nov-13
	Dec-13	CONSOLIDATED EDISON INC	ED	55.28	0.001268	0	0.0031	-0.0018	Dec-13
	Jan-14	CONSOLIDATED EDISON INC	ED	54.41	-0.01574	0	0.0032	-0.0189	Jan-14
	Feb-14	CONSOLIDATED EDISON INC	ED	56.05	0.04172	0.63	0.0026	0.0391	Feb-14
	Mar-14	CONSOLIDATED EDISON INC	ED	53.65	-0.04282	0	0.0029	-0.0457	Mar-14
	Apr-14	CONSOLIDATED EDISON INC	ED	58.03	0.08164	0	0.0028	0.0788	Apr-14
	May-14	CONSOLIDATED EDISON INC	ED	55.01	-0.04119	0.63	0.0028	-0.0440	May-14

Jun-14	CONSOLIDATED EDISON INC	ED	57.74	0.049627	0	0.0025	0.0471	Jun-14
Jul-14	CONSOLIDATED EDISON INC	ED	56.09	-0.02858	0	0.0027	-0.0313	Jul-14
Aug-14	CONSOLIDATED EDISON INC	ED	57.89	0.043323	0.63	0.0026	0.0407	Aug-14
Sep-14	CONSOLIDATED EDISON INC	ED	56.66	-0.02125	0	0.0023	-0.0235	Sep-14
Oct-14	CONSOLIDATED EDISON INC	ED	63.36	0.118249	0	0.0025	0.1157	Oct-14
Nov-14	CONSOLIDATED EDISON INC	ED	63.15	0.006629	0.63	0.0023	0.0043	Nov-14
Dec-14	CONSOLIDATED EDISON INC	ED	66.01	0.045289	0	0.0022	0.0431	Dec-14
Jan-15	CONSOLIDATED EDISON INC	ED	69.28	0.049538	0	0.002	0.0475	Jan-15
Feb-15	CONSOLIDATED EDISON INC	ED	63.14	-0.07924	0.65	0.0015	-0.0807	Feb-15
Mar-15	CONSOLIDATED EDISON INC	ED	61	-0.03389	0	0.0021	-0.0360	Mar-15
Apr-15	CONSOLIDATED EDISON INC	ED	61.55	0.009016	0	0.0019	0.0071	Apr-15
May-15	CONSOLIDATED EDISON INC	ED	61.84	0.015272	0.65	0.002	0.0133	May-15
Jun-15	CONSOLIDATED EDISON INC	ED	57.88	-0.06404	0	0.0023	-0.066336	Jun-15
Jul-15	CONSOLIDATED EDISON INC	ED	63.59	0.098652	0	0.0024	0.0962524	Jul-15
Aug-15	CONSOLIDATED EDISON INC	ED	62.91	-0.00047	0.65	0.0022	-0.002672	Aug-15
Sep-15	CONSOLIDATED EDISON INC	ED	66.85	0.062629	0	0.0021	0.0605292	Sep-15
Oct-15	CONSOLIDATED EDISON INC	ED	65.75	-0.01645	0	0.0021	-0.018555	Oct-15
Nov-15	CONSOLIDATED EDISON INC	ED	62.15	-0.04487	0.65	0.0022	-0.047067	Nov-15
Dec-15	CONSOLIDATED EDISON INC	ED	64.27	0.034111	0	0.0022	0.031911	Dec-15
Jan-16	CONSOLIDATED EDISON INC	ED	69.39	0.079664	0	0.0021	0.0775639	Jan-16
Feb-16	CONSOLIDATED EDISON INC	ED	70.01	0.018591	0.67	0.002	0.0165906	Feb-16
Mar-16	CONSOLIDATED EDISON INC	ED	76.62	0.094415	0	0.0018	0.0926151	Mar-16
Apr-16	CONSOLIDATED EDISON INC	ED	74.6	-0.02636	0	0.0017	-0.028064	Apr-16
May-16	CONSOLIDATED EDISON INC	ED	73.26	-0.00898	0.67	0.002	-0.010981	May-16
Jun-16	CONSOLIDATED EDISON INC	ED	80.44	0.098007	0	0.0018	0.0962071	Jun-16
Jul-16	CONSOLIDATED EDISON INC	ED	80.08	-0.00448	0	0.0014	-0.005875	Jul-16
Aug-16	CONSOLIDATED EDISON INC	ED	75.25	-0.05195	0.67	0.0016	-0.053548	Aug-16
Sep-16	CONSOLIDATED EDISON INC	ED	75.3	0.000664	0	0.0015	-0.000836	Sep-16
Oct-16	CONSOLIDATED EDISON INC	ED	75.55	0.00332	0	0.0016	0.0017201	Oct-16
Nov-16	CONSOLIDATED EDISON INC	ED	69.77	-0.06764	0.67	0.0018	-0.069437	Nov-16
Dec-16	CONSOLIDATED EDISON INC	ED	73.68	0.056041	0	0.0022	0.0538413	Dec-16
Jan-17	CONSOLIDATED EDISON INC	ED	74.35	0.009093	0	0.0024	0.0066934	Jan-17
Feb-17	CONSOLIDATED EDISON INC	ED	77.04	0.045461	0.69	0.0021	0.0433607	Feb-17
Mar-17	CONSOLIDATED EDISON INC	ED	77.66	0.008048	0	0.0023	0.0057478	Mar-17
Apr-17	CONSOLIDATED EDISON INC	ED	79.28	0.02086	0	0.0021	0.0187602	Apr-17
May-17	CONSOLIDATED EDISON INC	ED	82.79	0.052977	0.69	0.0024	0.0505768	May-17
Jun-17	CONSOLIDATED EDISON INC	ED	80.82	-0.0238	0	0.0021	-0.025895	Jun-17

Jul-17	CONSOLIDATED EDISON INC	ED	82.86	0.025241	0	0.0022	0.0230413	Jul-17
Aug-17	CONSOLIDATED EDISON INC	ED	84.27	0.025344	0.69	0.0022	0.023144	Aug-17
Sep-17	CONSOLIDATED EDISON INC	ED	80.68	-0.0426	0	0.0019	-0.044501	Sep-17
Oct-17	CONSOLIDATED EDISON INC	ED	86.05	0.066559	0	0.0022	0.0643592	Oct-17
Nov-17	CONSOLIDATED EDISON INC	ED	89.04	0.042766	0.69	0.0021	0.0406658	Nov-17
Dec-17	CONSOLIDATED EDISON INC	ED	84.95	-0.04593	0	0.002	-0.047934	Dec-17
Jan-18	CONSOLIDATED EDISON INC	ED	80.36	-0.05403	0	0.0024	-0.056432	Jan-18
Feb-18	CONSOLIDATED EDISON INC	ED	74.89	-0.05917	0.715	0.0022	-0.061371	Feb-18
Mar-18	CONSOLIDATED EDISON INC	ED	77.94	0.040726	0	0.0024	0.0383264	Mar-18
Apr-18	CONSOLIDATED EDISON INC	ED	80.13	0.028099	0	0.0025	0.0255985	Apr-18
May-18	CONSOLIDATED EDISON INC	ED	76.73	-0.03351	0.715	0.0025	-0.036008	May-18
Jun-18	CONSOLIDATED EDISON INC	ED	77.98	0.016291	0	0.0023	0.0139909	Jun-18
Jul-18	CONSOLIDATED EDISON INC	ED	78.93	0.012183	0	0.0025	0.0096826	Jul-18
Aug-18	CONSOLIDATED EDISON INC	ED	78.93	0.009059	0.715	0.0025	0.0065587	Aug-18
Sep-18	CONSOLIDATED EDISON INC	ED	76.19	-0.03471	0	0.0022	-0.036914	Sep-18
Oct-18	CONSOLIDATED EDISON INC	ED	76	-0.00249	0	0.003	-0.005494	Oct-18
Nov-18	CONSOLIDATED EDISON INC	ED	80.35	0.066645	0.715	0.0028	0.0638447	Nov-18
Dec-18	CONSOLIDATED EDISON INC	ED	76.46	-0.04841	0	0.0027	-0.051113	Dec-18
Jan-19	CONSOLIDATED EDISON INC	ED	77.65	0.015564	0	0.0025	0.0130637	Jan-19
Feb-19	CONSOLIDATED EDISON INC	ED	82.45	0.071346	0.74	0.0022	0.0691458	Feb-19
Mar-19	CONSOLIDATED EDISON INC	ED	84.81	0.028623	0	0.0023	0.0263234	Mar-19
Apr-19	CONSOLIDATED EDISON INC	ED	86.16	0.015918	0	0.0023	0.0136179	Apr-19
May-19	CONSOLIDATED EDISON INC	ED	86.3	0.010214	0.74	0.0023	0.0079136	May-19
Jun-19	CONSOLIDATED EDISON INC	ED	87.68	0.015991	0	0.0018	0.0141907	Jun-19
Jul-19	CONSOLIDATED EDISON INC	ED	84.96	-0.03102	0	0.0021	-0.033122	Jul-19
Aug-19	CONSOLIDATED EDISON INC	ED	88.9	0.055085	0.74	0.0019	0.0531847	Aug-19
Sep-19	CONSOLIDATED EDISON INC	ED	94.47	0.062655	0	0.0015	0.0611547	Sep-19
Oct-19	CONSOLIDATED EDISON INC	ED	92.22	-0.02382	0	0.0016	-0.025417	Oct-19
Nov-19	CONSOLIDATED EDISON INC	ED	86.89	-0.04977	0.74	0.0016	-0.051372	Nov-19
Dec-19	CONSOLIDATED EDISON INC	ED	90.47	0.041202	0	0.0018	0.0394015	Dec-19
Jan-20	CONSOLIDATED EDISON INC	ED	94	0.039018	0	0.002	0.0370185	Jan-20
Feb-20	CONSOLIDATED EDISON INC	ED	78.82	-0.15335	0.765	0.0015	-0.154851	Feb-20
Mar-20	CONSOLIDATED EDISON INC	ED	78	-0.0104	0	0.00123	-0.011633	Mar-20
Apr-20	CONSOLIDATED EDISON INC	ED	78.8	0.010256	0	0.0009	0.0093564	Apr-20
May-20	CONSOLIDATED EDISON INC	ED	75.06	-0.03775	0.765	0.0009	-0.038654	May-20
Jun-20	CONSOLIDATED EDISON INC	ED	71.93	-0.0417	0	0.0009	-0.0426	Jun-20
Jul-20	CONSOLIDATED EDISON INC	ED	76.83	0.068122	0	0.001	0.0671218	Jul-20
Aug-20	CONSOLIDATED EDISON INC	ED	71.34	-0.0615	0.765	0.0008	-0.062299	Aug-20

Sep-20	CONSOLIDATED EDISON INC	ED	77.8	0.090552	0	0	0.0905523	Sep-20
Oct-20	CONSOLIDATED EDISON INC	ED	78.49	0.008869	0	0.0009	0.0079689	Oct-20
Nov-20	CONSOLIDATED EDISON INC	ED	76.25	-0.01879	0.765	0.0011	-0.019892	Nov-20
Dec-20	CONSOLIDATED EDISON INC	ED	72.27	-0.0522	0	0.0011	-0.053297	Dec-20
Jan-21	CONSOLIDATED EDISON INC	ED	70.78	-0.02062	0	0.0015167	-0.022134	Jan-21
Feb-21	CONSOLIDATED EDISON INC	ED	65.65	-0.06153	0.775	0.0017	-0.063229	Feb-21
Mar-21	CONSOLIDATED EDISON INC	ED	74.8	0.139375	0	0.00195	0.1374255	Mar-21
Apr-21	CONSOLIDATED EDISON INC	ED	77.41	0.034893	0	0.0019167	0.0329764	Apr-21
May-21	CONSOLIDATED EDISON INC	ED	77.24	0.007816	0.775	0.0019333	0.0058822	May-21
Jun-21	CONSOLIDATED EDISON INC	ED	71.72	-0.07147	0	0.0018	-0.073266	Jun-21
Jul-21	CONSOLIDATED EDISON INC	ED	73.77	0.028583	0	0.0016167	0.0269667	Jul-21
Aug-21	CONSOLIDATED EDISON INC	ED	75.45	0.033279	0.775	0.0016	0.0316791	Aug-21

Unique Index Number	Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP	Trading Date
	Jan-26						0.0031		Jan-26
	Feb-26						0.0028		Feb-26
	Mar-26						0.0032		Mar-26
	Apr-26						0.0030		Apr-26
	May-26						0.0028		May-26
	Jun-26						0.0033		Jun-26
	Jul-26						0.0031		Jul-26
	Aug-26						0.0031		Aug-26
	Sep-26						0.0030		Sep-26
	Oct-26						0.0030		Oct-26
	Nov-26						0.0031		Nov-26
	Dec-26						0.0030		Dec-26
	Jan-27						0.0030		Jan-27
	Feb-27						0.0027		Feb-27
	Mar-27						0.0029		Mar-27
	Apr-27						0.0027		Apr-27
	May-27						0.0028		May-27
	Jun-27						0.0027		Jun-27
	Jul-27						0.0027		Jul-27
	Aug-27						0.0029		Aug-27
	Sep-27						0.0027		Sep-27
	Oct-27						0.0028		Oct-27
	Nov-27						0.0027		Nov-27
	Dec-27						0.0027		Dec-27
	Jan-28						0.0027		Jan-28
	Feb-28						0.0025		Feb-28
	Mar-28						0.0027		Mar-28
	Apr-28						0.0026		Apr-28
	May-28						0.0027		May-28
	Jun-28						0.0027		Jun-28
	Jul-28						0.0027		Jul-28
	Aug-28						0.0029		Aug-28
	Sep-28						0.0027		Sep-28

Oct-28	0.0030	Oct-28
Nov-28	0.0027	Nov-28
Dec-28	0.0029	Dec-28
Jan-29	0.0029	Jan-29
Feb-29	0.0027	Feb-29
Mar-29	0.0028	Mar-29
Apr-29	0.0034	Apr-29
May-29	0.0030	May-29
Jun-29	0.0029	Jun-29
Jul-29	0.0032	Jul-29
Aug-29	0.0030	Aug-29
Sep-29	0.0032	Sep-29
Oct-29	0.0031	Oct-29
Nov-29	0.0026	Nov-29
Dec-29	0.0031	Dec-29
Jan-30	0.0029	Jan-30
Feb-30	0.0026	Feb-30
Mar-30	0.0029	Mar-30
Apr-30	0.0027	Apr-30
May-30	0.0027	May-30
Jun-30	0.0029	Jun-30
Jul-30	0.0028	Jul-30
Aug-30	0.0026	Aug-30
Sep-30	0.0029	Sep-30
Oct-30	0.0027	Oct-30
Nov-30	0.0026	Nov-30
Dec-30	0.0028	Dec-30
Jan-31	0.0028	Jan-31
Feb-31	0.0026	Feb-31
Mar-31	0.0029	Mar-31
Apr-31	0.0027	Apr-31
May-31	0.0026	May-31
Jun-31	0.0028	Jun-31
Jul-31	0.0027	Jul-31
Aug-31	0.0027	Aug-31
Sep-31	0.0027	Sep-31

Oct-31	0.0029	Oct-31
Nov-31	0.0031	Nov-31
Dec-31	0.0032	Dec-31
Jan-32	0.0032	Jan-32
Feb-32	0.0032	Feb-32
Mar-32	0.0031	Mar-32
Apr-32	0.0030	Apr-32
May-32	0.0028	May-32
Jun-32	0.0028	Jun-32
Jul-32	0.0028	Jul-32
Aug-32	0.0028	Aug-32
Sep-32	0.0026	Sep-32
Oct-32	0.0027	Oct-32
Nov-32	0.0026	Nov-32
Dec-32	0.0027	Dec-32
Jan-33	0.0027	Jan-33
Feb-33	0.0023	Feb-33
Mar-33	0.0027	Mar-33
Apr-33	0.0025	Apr-33
May-33	0.0028	May-33
Jun-33	0.0025	Jun-33
Jul-33	0.0026	Jul-33
Aug-33	0.0026	Aug-33
Sep-33	0.0025	Sep-33
Oct-33	0.0026	Oct-33
Nov-33	0.0025	Nov-33
Dec-33	0.0028	Dec-33
Jan-34	0.0029	Jan-34
Feb-34	0.0024	Feb-34
Mar-34	0.0027	Mar-34
Apr-34	0.0025	Apr-34
May-34	0.0025	May-34
Jun-34	0.0024	Jun-34
Jul-34	0.0024	Jul-34
Aug-34	0.0024	Aug-34
Sep-34	0.0023	Sep-34

Oct-34	0.0027	Oct-34
Nov-34	0.0025	Nov-34
Dec-34	0.0025	Dec-34
Jan-35	0.0025	Jan-35
Feb-35	0.0021	Feb-35
Mar-35	0.0022	Mar-35
Apr-35	0.0023	Apr-35
May-35	0.0023	May-35
Jun-35	0.0022	Jun-35
Jul-35	0.0024	Jul-35
Aug-35	0.0023	Aug-35
Sep-35	0.0023	Sep-35
Oct-35	0.0023	Oct-35
Nov-35	0.0024	Nov-35
Dec-35	0.0024	Dec-35
Jan-36	0.0024	Jan-36
Feb-36	0.0023	Feb-36
Mar-36	0.0024	Mar-36
Apr-36	0.0022	Apr-36
May-36	0.0022	May-36
Jun-36	0.0024	Jun-36
Jul-36	0.0023	Jul-36
Aug-36	0.0023	Aug-36
Sep-36	0.0021	Sep-36
Oct-36	0.0023	Oct-36
Nov-36	0.0022	Nov-36
Dec-36	0.0022	Dec-36
Jan-37	0.0021	Jan-37
Feb-37	0.0020	Feb-37
Mar-37	0.0022	Mar-37
Apr-37	0.0023	Apr-37
May-37	0.0022	May-37
Jun-37	0.0025	Jun-37
Jul-37	0.0024	Jul-37
Aug-37	0.0023	Aug-37
Sep-37	0.0023	Sep-37

Oct-37	0.0023	Oct-37
Nov-37	0.0024	Nov-37
Dec-37	0.0023	Dec-37
Jan-38	0.0023	Jan-38
Feb-38	0.0021	Feb-38
Mar-38	0.0023	Mar-38
Apr-38	0.0022	Apr-38
May-38	0.0022	May-38
Jun-38	0.0021	Jun-38
Jul-38	0.0021	Jul-38
Aug-38	0.0022	Aug-38
Sep-38	0.0021	Sep-38
Oct-38	0.0022	Oct-38
Nov-38	0.0021	Nov-38
Dec-38	0.0022	Dec-38
Jan-39	0.0021	Jan-39
Feb-39	0.0019	Feb-39
Mar-39	0.0021	Mar-39
Apr-39	0.0019	Apr-39
May-39	0.0020	May-39
Jun-39	0.0018	Jun-39
Jul-39	0.0019	Jul-39
Aug-39	0.0018	Aug-39
Sep-39	0.0019	Sep-39
Oct-39	0.0023	Oct-39
Nov-39	0.0020	Nov-39
Dec-39	0.0019	Dec-39
Jan-40	0.0020	Jan-40
Feb-40	0.0018	Feb-40
Mar-40	0.0019	Mar-40
Apr-40	0.0018	Apr-40
May-40	0.0019	May-40
Jun-40	0.0019	Jun-40
Jul-40	0.0020	Jul-40
Aug-40	0.0019	Aug-40
Sep-40	0.0018	Sep-40

Oct-40	0.0018	Oct-40
Nov-40	0.0018	Nov-40
Dec-40	0.0017	Dec-40
Jan-41	0.0016	Jan-41
Feb-41	0.0016	Feb-41
Mar-41	0.0018	Mar-41
Apr-41	0.0017	Apr-41
May-41	0.0017	May-41
Jun-41	0.0016	Jun-41
Jul-41	0.0016	Jul-41
Aug-41	0.0016	Aug-41
Sep-41	0.0016	Sep-41
Oct-41	0.0016	Oct-41
Nov-41	0.0014	Nov-41
Dec-41	0.0016	Dec-41
Jan-42	0.0021	Jan-42
Feb-42	0.0019	Feb-42
Mar-42	0.0021	Mar-42
Apr-42	0.0020	Apr-42
May-42	0.0019	May-42
Jun-42	0.0021	Jun-42
Jul-42	0.0021	Jul-42
Aug-42	0.0021	Aug-42
Sep-42	0.0020	Sep-42
Oct-42	0.0021	Oct-42
Nov-42	0.0020	Nov-42
Dec-42	0.0021	Dec-42
Jan-43	0.0020	Jan-43
Feb-43	0.0019	Feb-43
Mar-43	0.0021	Mar-43
Apr-43	0.0020	Apr-43
May-43	0.0019	May-43
Jun-43	0.0021	Jun-43
Jul-43	0.0021	Jul-43
Aug-43	0.0021	Aug-43
Sep-43	0.0020	Sep-43

Oct-43	0.0020	Oct-43
Nov-43	0.0021	Nov-43
Dec-43	0.0021	Dec-43
Jan-44	0.0021	Jan-44
Feb-44	0.0020	Feb-44
Mar-44	0.0021	Mar-44
Apr-44	0.0020	Apr-44
May-44	0.0022	May-44
Jun-44	0.0020	Jun-44
Jul-44	0.0021	Jul-44
Aug-44	0.0021	Aug-44
Sep-44	0.0020	Sep-44
Oct-44	0.0021	Oct-44
Nov-44	0.0020	Nov-44
Dec-44	0.0020	Dec-44
Jan-45	0.0021	Jan-45
Feb-45	0.0018	Feb-45
Mar-45	0.0020	Mar-45
Apr-45	0.0019	Apr-45
May-45	0.0019	May-45
Jun-45	0.0019	Jun-45
Jul-45	0.0018	Jul-45
Aug-45	0.0019	Aug-45
Sep-45	0.0018	Sep-45
Oct-45	0.0019	Oct-45
Nov-45	0.0018	Nov-45
Dec-45	0.0018	Dec-45
Jan-46	0.0017	Jan-46
Feb-46	0.0015	Feb-46
Mar-46	0.0016	Mar-46
Apr-46	0.0017	Apr-46
May-46	0.0018	May-46
Jun-46	0.0016	Jun-46
Jul-46	0.0019	Jul-46
Aug-46	0.0017	Aug-46
Sep-46	0.0018	Sep-46

Oct-46	0.0019	Oct-46
Nov-46	0.0018	Nov-46
Dec-46	0.0019	Dec-46
Jan-47	0.0018	Jan-47
Feb-47	0.0016	Feb-47
Mar-47	0.0018	Mar-47
Apr-47	0.0017	Apr-47
May-47	0.0017	May-47
Jun-47	0.0019	Jun-47
Jul-47	0.0018	Jul-47
Aug-47	0.0017	Aug-47
Sep-47	0.0018	Sep-47
Oct-47	0.0018	Oct-47
Nov-47	0.0017	Nov-47
Dec-47	0.0021	Dec-47
Jan-48	0.0020	Jan-48
Feb-48	0.0019	Feb-48
Mar-48	0.0022	Mar-48
Apr-48	0.0020	Apr-48
May-48	0.0018	May-48
Jun-48	0.0021	Jun-48
Jul-48	0.0019	Jul-48
Aug-48	0.0021	Aug-48
Sep-48	0.0020	Sep-48
Oct-48	0.0019	Oct-48
Nov-48	0.0021	Nov-48
Dec-48	0.0020	Dec-48
Jan-49	0.0020	Jan-49
Feb-49	0.0018	Feb-49
Mar-49	0.0019	Mar-49
Apr-49	0.0018	Apr-49
May-49	0.0020	May-49
Jun-49	0.0019	Jun-49
Jul-49	0.0017	Jul-49
Aug-49	0.0019	Aug-49
Sep-49	0.0017	Sep-49

Oct-49	0.0018	Oct-49
Nov-49	0.0017	Nov-49
Dec-49	0.0017	Dec-49
Jan-50	0.0018	Jan-50
Feb-50	0.0016	Feb-50
Mar-50	0.0018	Mar-50
Apr-50	0.0016	Apr-50
May-50	0.0019	May-50
Jun-50	0.0017	Jun-50
Jul-50	0.0018	Jul-50
Aug-50	0.0018	Aug-50
Sep-50	0.0017	Sep-50
Oct-50	0.0019	Oct-50
Nov-50	0.0018	Nov-50
Dec-50	0.0018	Dec-50
Jan-51	0.0020	Jan-51
Feb-51	0.0017	Feb-51
Mar-51	0.0019	Mar-51
Apr-51	0.0020	Apr-51
May-51	0.0021	May-51
Jun-51	0.0020	Jun-51
Jul-51	0.0023	Jul-51
Aug-51	0.0021	Aug-51
Sep-51	0.0019	Sep-51
Oct-51	0.0023	Oct-51
Nov-51	0.0021	Nov-51
Dec-51	0.0022	Dec-51
Jan-52	0.0023	Jan-52
Feb-52	0.0021	Feb-52
Mar-52	0.0023	Mar-52
Apr-52	0.0022	Apr-52
May-52	0.0020	May-52
Jun-52	0.0022	Jun-52
Jul-52	0.0022	Jul-52
Aug-52	0.0021	Aug-52
Sep-52	0.0023	Sep-52

Oct-52	0.0023	Oct-52
Nov-52	0.0021	Nov-52
Dec-52	0.0024	Dec-52
Jan-53	0.0023	Jan-53
Feb-53	0.0021	Feb-53
Mar-53	0.0025	Mar-53
Apr-53	0.0024	Apr-53
May-53	0.0024	May-53
Jun-53	0.0027	Jun-53
Jul-53	0.0025	Jul-53
Aug-53	0.0025	Aug-53
Sep-53	0.0025	Sep-53
Oct-53	0.0023	Oct-53
Nov-53	0.0024	Nov-53
Dec-53	0.0024	Dec-53
Jan-54	0.0023	Jan-54
Feb-54	0.0022	Feb-54
Mar-54	0.0025	Mar-54
Apr-54	0.0022	Apr-54
May-54	0.0020	May-54
Jun-54	0.0025	Jun-54
Jul-54	0.0022	Jul-54
Aug-54	0.0023	Aug-54
Sep-54	0.0022	Sep-54
Oct-54	0.0021	Oct-54
Nov-54	0.0023	Nov-54
Dec-54	0.0023	Dec-54
Jan-55	0.0022	Jan-55
Feb-55	0.0022	Feb-55
Mar-55	0.0024	Mar-55
Apr-55	0.0022	Apr-55
May-55	0.0025	May-55
Jun-55	0.0023	Jun-55
Jul-55	0.0023	Jul-55
Aug-55	0.0027	Aug-55
Sep-55	0.0024	Sep-55

Oct-55	0.0025	Oct-55
Nov-55	0.0024	Nov-55
Dec-55	0.0024	Dec-55
Jan-56	0.0025	Jan-56
Feb-56	0.0023	Feb-56
Mar-56	0.0023	Mar-56
Apr-56	0.0026	Apr-56
May-56	0.0026	May-56
Jun-56	0.0023	Jun-56
Jul-56	0.0026	Jul-56
Aug-56	0.0026	Aug-56
Sep-56	0.0025	Sep-56
Oct-56	0.0029	Oct-56
Nov-56	0.0027	Nov-56
Dec-56	0.0028	Dec-56
Jan-57	0.0029	Jan-57
Feb-57	0.0025	Feb-57
Mar-57	0.0026	Mar-57
Apr-57	0.0029	Apr-57
May-57	0.0029	May-57
Jun-57	0.0025	Jun-57
Jul-57	0.0033	Jul-57
Aug-57	0.0030	Aug-57
Sep-57	0.0031	Sep-57
Oct-57	0.0031	Oct-57
Nov-57	0.0029	Nov-57
Dec-57	0.0029	Dec-57
Jan-58	0.0027	Jan-58
Feb-58	0.0025	Feb-58
Mar-58	0.0027	Mar-58
Apr-58	0.0026	Apr-58
May-58	0.0024	May-58
Jun-58	0.0027	Jun-58
Jul-58	0.0027	Jul-58
Aug-58	0.0027	Aug-58
Sep-58	0.0032	Sep-58

Oct-58	0.0032	Oct-58
Nov-58	0.0028	Nov-58
Dec-58	0.0033	Dec-58
Jan-59	0.0031	Jan-59
Feb-59	0.0031	Feb-59
Mar-59	0.0035	Mar-59
Apr-59	0.0033	Apr-59
May-59	0.0033	May-59
Jun-59	0.0036	Jun-59
Jul-59	0.0035	Jul-59
Aug-59	0.0035	Aug-59
Sep-59	0.0034	Sep-59
Oct-59	0.0035	Oct-59
Nov-59	0.0035	Nov-59
Dec-59	0.0036	Dec-59
Jan-60	0.0035	Jan-60
Feb-60	0.0037	Feb-60
Mar-60	0.0036	Mar-60
Apr-60	0.0032	Apr-60
May-60	0.0037	May-60
Jun-60	0.0034	Jun-60
Jul-60	0.0032	Jul-60
Aug-60	0.0034	Aug-60
Sep-60	0.0032	Sep-60
Oct-60	0.0033	Oct-60
Nov-60	0.0032	Nov-60
Dec-60	0.0033	Dec-60
Jan-61	0.0033	Jan-61
Feb-61	0.0030	Feb-61
Mar-61	0.0031	Mar-61
Apr-61	0.0031	Apr-61
May-61	0.0034	May-61
Jun-61	0.0032	Jun-61
Jul-61	0.0033	Jul-61
Aug-61	0.0033	Aug-61
Sep-61	0.0032	Sep-61

Oct-61	0.0034	Oct-61
Nov-61	0.0032	Nov-61
Dec-61	0.0031	Dec-61
Jan-62	0.0037	Jan-62
Feb-62	0.0032	Feb-62
Mar-62	0.0033	Mar-62
Apr-62	0.0033	Apr-62
May-62	0.0032	May-62
Jun-62	0.0030	Jun-62
Jul-62	0.0034	Jul-62
Aug-62	0.0034	Aug-62
Sep-62	0.0030	Sep-62
Oct-62	0.0035	Oct-62
Nov-62	0.0031	Nov-62
Dec-62	0.0032	Dec-62
Jan-63	0.0032	Jan-63
Feb-63	0.0029	Feb-63
Mar-63	0.0031	Mar-63
Apr-63	0.0034	Apr-63
May-63	0.0033	May-63
Jun-63	0.0030	Jun-63
Jul-63	0.0036	Jul-63
Aug-63	0.0033	Aug-63
Sep-63	0.0034	Sep-63
Oct-63	0.0034	Oct-63
Nov-63	0.0032	Nov-63
Dec-63	0.0036	Dec-63
Jan-64	0.0035	Jan-64
Feb-64	0.0032	Feb-64
Mar-64	0.0037	Mar-64
Apr-64	0.0035	Apr-64
May-64	0.0032	May-64
Jun-64	0.0038	Jun-64
Jul-64	0.0035	Jul-64
Aug-64	0.0035	Aug-64
Sep-64	0.0034	Sep-64

	Oct-64						0.0034		Oct-64
	Nov-64						0.0035		Nov-64
	Dec-64						0.0035		Dec-64
	Jan-65						0.0033		Jan-65
	Feb-65						0.0032		Feb-65
	Mar-65						0.0038		Mar-65
	Apr-65						0.0033		Apr-65
	May-65						0.0033		May-65
	Jun-65						0.0038		Jun-65
	Jul-65						0.0034		Jul-65
	Aug-65						0.0037		Aug-65
	Sep-65						0.0035		Sep-65
	Oct-65						0.0034		Oct-65
	Nov-65						0.0037		Nov-65
	Dec-65						0.0037		Dec-65
	Jan-66						0.0038		Jan-66
	Feb-66						0.0034		Feb-66
	Mar-66						0.0040		Mar-66
	Apr-66						0.0036		Apr-66
	May-66						0.0041		May-66
	Jun-66						0.0039		Jun-66
	Jul-66						0.0038		Jul-66
	Aug-66						0.0043		Aug-66
	Sep-66						0.0041		Sep-66
	Oct-66						0.0040		Oct-66
	Nov-66						0.0038		Nov-66
	Dec-66						0.0039		Dec-66
	Jan-67						0.0040		Jan-67
40	Feb-67	NORTHEAST UTILITIES	NU	19.25	-66	0.215	0.0034		Feb-67
40	Mar-67	NORTHEAST UTILITIES	NU	18.5	-0.03896	0	0.0039	-0.0429	Mar-67
40	Apr-67	NORTHEAST UTILITIES	NU	17.875	-0.03378	0	0.0035	-0.0373	Apr-67
40	May-67	NORTHEAST UTILITIES	NU	17.375	-0.01594	0.215	0.0043	-0.0202	May-67
40	Jun-67	NORTHEAST UTILITIES	NU	17	-0.02158	0	0.0039	-0.0255	Jun-67
40	Jul-67	NORTHEAST UTILITIES	NU	17.25	0.014706	0	0.0043	0.0104	Jul-67
40	Aug-67	NORTHEAST UTILITIES	NU	17.75	0.041449	0.215	0.0042	0.0372	Aug-67
40	Sep-67	NORTHEAST UTILITIES	NU	17.75	0	0	0.0040	-0.0040	Sep-67

40	Oct-67	NORTHEAST UTILITIES	NU	17.25	-0.02817	0	0.0045	-0.0327	Oct-67
40	Nov-67	NORTHEAST UTILITIES	NU	16.25	-0.04551	0.215	0.0045	-0.0500	Nov-67
40	Dec-67	NORTHEAST UTILITIES	NU	16.75	0.030769	0	0.0044	0.0264	Dec-67
40	Jan-68	NORTHEAST UTILITIES	NU	16.625	-0.00746	0	0.0050	-0.0125	Jan-68
40	Feb-68	NORTHEAST UTILITIES	NU	16.75	0.020451	0.215	0.0042	0.0163	Feb-68
40	Mar-68	NORTHEAST UTILITIES	NU	16.125	-0.03731	0	0.0043	-0.0416	Mar-68
40	Apr-68	NORTHEAST UTILITIES	NU	16.125	0	0	0.0049	-0.0049	Apr-68
40	May-68	NORTHEAST UTILITIES	NU	16.125	0.013333	0.215	0.0046	0.0087	May-68
40	Jun-68	NORTHEAST UTILITIES	NU	18	0.116279	0	0.0042	0.1121	Jun-68
40	Jul-68	NORTHEAST UTILITIES	NU	18	0	0	0.0048	-0.0048	Jul-68
40	Aug-68	NORTHEAST UTILITIES	NU	18.75	0.054722	0.235	0.0042	0.0505	Aug-68
40	Sep-68	NORTHEAST UTILITIES	NU	18.375	-0.02	0	0.0044	-0.0244	Sep-68
40	Oct-68	NORTHEAST UTILITIES	NU	17.75	-0.03235	0	0.0045	-0.0368	Oct-68
40	Nov-68	NORTHEAST UTILITIES	NU	19.125	0.090704	0.235	0.0043	0.0864	Nov-68
40	Dec-68	NORTHEAST UTILITIES	NU	18.875	-0.01307	0	0.0049	-0.0180	Dec-68
40	Jan-69	NORTHEAST UTILITIES	NU	19.125	0.013245	0	0.0050	0.0082	Jan-69
40	Feb-69	NORTHEAST UTILITIES	NU	18.25	-0.03346	0.235	0.0046	-0.0381	Feb-69
40	Mar-69	NORTHEAST UTILITIES	NU	18.625	0.020548	0	0.0047	0.0158	Mar-69
40	Apr-69	NORTHEAST UTILITIES	NU	18.375	-0.01342	0	0.0055	-0.0189	Apr-69
40	May-69	NORTHEAST UTILITIES	NU	17.875	-0.01442	0.235	0.0047	-0.0191	May-69
40	Jun-69	NORTHEAST UTILITIES	NU	17	-0.04895	0	0.0055	-0.0545	Jun-69
40	Jul-69	NORTHEAST UTILITIES	NU	17.125	0.007353	0	0.0052	0.0022	Jul-69
40	Aug-69	NORTHEAST UTILITIES	NU	16.125	-0.04467	0.235	0.0048	-0.0495	Aug-69
40	Sep-69	NORTHEAST UTILITIES	NU	15.5	-0.03876	0	0.0055	-0.0443	Sep-69
40	Oct-69	NORTHEAST UTILITIES	NU	15.875	0.024194	0	0.0057	0.0185	Oct-69
40	Nov-69	NORTHEAST UTILITIES	NU	15.125	-0.03244	0.235	0.0049	-0.0373	Nov-69
40	Dec-69	NORTHEAST UTILITIES	NU	14.875	-0.01653	0	0.0060	-0.0225	Dec-69
40	Jan-70	NORTHEAST UTILITIES	NU	14.5	-0.02521	0	0.0056	-0.0308	Jan-70
40	Feb-70	NORTHEAST UTILITIES	NU	14.375	0.007586	0.235	0.0052	0.0024	Feb-70
40	Mar-70	NORTHEAST UTILITIES	NU	14.375	0	0	0.0056	-0.0056	Mar-70
40	Apr-70	NORTHEAST UTILITIES	NU	14.125	-0.01739	0	0.0054	-0.0228	Apr-70
40	May-70	NORTHEAST UTILITIES	NU	13.375	-0.03646	0.235	0.0055	-0.0420	May-70
40	Jun-70	NORTHEAST UTILITIES	NU	12.5	-0.06542	0	0.0064	-0.0718	Jun-70
40	Jul-70	NORTHEAST UTILITIES	NU	12.75	0.02	0	0.0059	0.0141	Jul-70
40	Aug-70	NORTHEAST UTILITIES	NU	12.875	0.028235	0.235	0.0057	0.0225	Aug-70
40	Sep-70	NORTHEAST UTILITIES	NU	12.5	-0.02913	0	0.0056	-0.0347	Sep-70

40	Oct-70	NORTHEAST UTILITIES	NU	12.5	0	0	0.0055	-0.0055	Oct-70
40	Nov-70	NORTHEAST UTILITIES	NU	13.25	0.0788	0.235	0.0058	0.0730	Nov-70
40	Dec-70	NORTHEAST UTILITIES	NU	14.125	0.066038	0	0.0053	0.0607	Dec-70
40	Jan-71	NORTHEAST UTILITIES	NU	14.75	0.044248	0	0.0051	0.0391	Jan-71
40	Feb-71	NORTHEAST UTILITIES	NU	14.625	0.007458	0.235	0.0046	0.0029	Feb-71
40	Mar-71	NORTHEAST UTILITIES	NU	14.25	-0.02564	0	0.0056	-0.0312	Mar-71
40	Apr-71	NORTHEAST UTILITIES	NU	13.75	-0.03509	0	0.0048	-0.0399	Apr-71
40	May-71	NORTHEAST UTILITIES	NU	13.375	-0.01018	0.235	0.0047	-0.0149	May-71
40	Jun-71	NORTHEAST UTILITIES	NU	13.125	-0.01869	0	0.0056	-0.0243	Jun-71
40	Jul-71	NORTHEAST UTILITIES	NU	13.25	0.009524	0	0.0052	0.0043	Jul-71
40	Aug-71	NORTHEAST UTILITIES	NU	13.375	0.02717	0.235	0.0055	0.0217	Aug-71
40	Sep-71	NORTHEAST UTILITIES	NU	13.5	0.009346	0	0.0049	0.0044	Sep-71
40	Oct-71	NORTHEAST UTILITIES	NU	13.75	0.018519	0	0.0047	0.0138	Oct-71
40	Nov-71	NORTHEAST UTILITIES	NU	13.25	-0.01927	0.235	0.0051	-0.0244	Nov-71
40	Dec-71	NORTHEAST UTILITIES	NU	14.25	0.075472	0	0.0050	0.0705	Dec-71
40	Jan-72	NORTHEAST UTILITIES	NU	15	0.052632	0	0.0050	0.0476	Jan-72
40	Feb-72	NORTHEAST UTILITIES	NU	14.875	0.00796	0.2444	0.0047	0.0033	Feb-72
40	Mar-72	NORTHEAST UTILITIES	NU	15	0.008403	0	0.0049	0.0035	Mar-72
40	Apr-72	NORTHEAST UTILITIES	NU	14.875	-0.00833	0	0.0048	-0.0131	Apr-72
40	May-72	NORTHEAST UTILITIES	NU	14.125	-0.03399	0.2444	0.0055	-0.0395	May-72
40	Jun-72	NORTHEAST UTILITIES	NU	14.125	0	0	0.0049	-0.0049	Jun-72
40	Jul-72	NORTHEAST UTILITIES	NU	14.5	0.026549	0	0.0051	0.0214	Jul-72
40	Aug-72	NORTHEAST UTILITIES	NU	14.5	0.016855	0.2444	0.0049	0.0120	Aug-72
40	Sep-72	NORTHEAST UTILITIES	NU	14.625	0.008621	0	0.0047	0.0039	Sep-72
40	Oct-72	NORTHEAST UTILITIES	NU	15.25	0.042735	0	0.0052	0.0375	Oct-72
40	Nov-72	NORTHEAST UTILITIES	NU	16.25	0.0816	0.2444	0.0048	0.0768	Nov-72
40	Dec-72	NORTHEAST UTILITIES	NU	16.125	-0.00769	0	0.0045	-0.0122	Dec-72
40	Jan-73	NORTHEAST UTILITIES	NU	15.5	-0.03876	0	0.0054	-0.0442	Jan-73
40	Feb-73	NORTHEAST UTILITIES	NU	15	-0.01587	0.2541	0.0051	-0.0210	Feb-73
40	Mar-73	NORTHEAST UTILITIES	NU	14.625	-0.025	0	0.0056	-0.0306	Mar-73
40	Apr-73	NORTHEAST UTILITIES	NU	14.75	0.008547	0	0.0057	0.0028	Apr-73
40	May-73	NORTHEAST UTILITIES	NU	14.25	-0.01667	0.2541	0.0058	-0.0225	May-73
40	Jun-73	NORTHEAST UTILITIES	NU	14.375	0.008772	0	0.0055	0.0033	Jun-73
40	Jul-73	NORTHEAST UTILITIES	NU	13.625	-0.05217	0	0.0061	-0.0583	Jul-73
40	Aug-73	NORTHEAST UTILITIES	NU	13	-0.02722	0.2541	0.0062	-0.0334	Aug-73
40	Sep-73	NORTHEAST UTILITIES	NU	13.625	0.048077	0	0.0055	0.0426	Sep-73

40	Oct-73	NORTHEAST UTILITIES	NU	13.125	-0.0367	0	0.0063	-0.0430	Oct-73
40	Nov-73	NORTHEAST UTILITIES	NU	11.25	-0.1235	0.2541	0.0056	-0.1291	Nov-73
40	Dec-73	NORTHEAST UTILITIES	NU	11.375	0.011111	0	0.0060	0.0051	Dec-73
40	Jan-74	NORTHEAST UTILITIES	NU	11.75	0.032967	0	0.0061	0.0269	Jan-74
40	Feb-74	NORTHEAST UTILITIES	NU	12.125	0.076896	0.52853	0.0055	0.0714	Feb-74
40	Mar-74	NORTHEAST UTILITIES	NU	11.625	-0.04124	0	0.0058	-0.0470	Mar-74
40	Apr-74	NORTHEAST UTILITIES	NU	8.75	-0.24731	0	0.0068	-0.2541	Apr-74
40	May-74	NORTHEAST UTILITIES	NU	7.375	-0.09674	0.52853	0.0068	-0.1035	May-74
40	Jun-74	NORTHEAST UTILITIES	NU	6.5	-0.11864	0	0.0061	-0.1247	Jun-74
40	Jul-74	NORTHEAST UTILITIES	NU	7	0.076923	0	0.0072	0.0697	Jul-74
40	Aug-74	NORTHEAST UTILITIES	NU	6.5	0.004075	0.52853	0.0065	-0.0024	Aug-74
40	Sep-74	NORTHEAST UTILITIES	NU	6	-0.07692	0	0.0071	-0.0840	Sep-74
40	Oct-74	NORTHEAST UTILITIES	NU	6.375	0.0625	0	0.0070	0.0555	Oct-74
40	Nov-74	NORTHEAST UTILITIES	NU	6.25	0.063299	0.52853	0.0062	0.0571	Nov-74
40	Dec-74	NORTHEAST UTILITIES	NU	6.375	0.02	0	0.0067	0.0133	Dec-74
40	Jan-75	NORTHEAST UTILITIES	NU	8.5	0.333333	0	0.0068	0.3265	Jan-75
40	Feb-75	NORTHEAST UTILITIES	NU	7.75	-0.05834	0.2541	0.0060	-0.0643	Feb-75
40	Mar-75	NORTHEAST UTILITIES	NU	7.875	0.016129	0	0.0066	0.0095	Mar-75
40	Apr-75	NORTHEAST UTILITIES	NU	8.375	0.063492	0	0.0067	0.0568	Apr-75
40	May-75	NORTHEAST UTILITIES	NU	8.625	0.060191	0.2541	0.0067	0.0535	May-75
40	Jun-75	NORTHEAST UTILITIES	NU	10	0.15942	0	0.0070	0.1524	Jun-75
40	Jul-75	NORTHEAST UTILITIES	NU	9.25	-0.075	0	0.0068	-0.0818	Jul-75
40	Aug-75	NORTHEAST UTILITIES	NU	9	0.000443	0.2541	0.0065	-0.0061	Aug-75
40	Sep-75	NORTHEAST UTILITIES	NU	8.875	-0.01389	0	0.0073	-0.0212	Sep-75
40	Oct-75	NORTHEAST UTILITIES	NU	9.875	0.112676	0	0.0072	0.1055	Oct-75
40	Nov-75	NORTHEAST UTILITIES	NU	10.125	0.051048	0.2541	0.0061	0.0449	Nov-75
40	Dec-75	NORTHEAST UTILITIES	NU	10	-0.01235	0	0.0074	-0.0197	Dec-75
40	Jan-76	NORTHEAST UTILITIES	NU	10.5	0.05	0	0.0065	0.0435	Jan-76
40	Feb-76	NORTHEAST UTILITIES	NU	10.125	-0.01151	0.2541	0.0060	-0.0175	Feb-76
40	Mar-76	NORTHEAST UTILITIES	NU	10.375	0.024691	0	0.0071	0.0176	Mar-76
40	Apr-76	NORTHEAST UTILITIES	NU	10.5	0.012048	0	0.0064	0.0056	Apr-76
40	May-76	NORTHEAST UTILITIES	NU	10.125	-0.01151	0.2541	0.0059	-0.0174	May-76
40	Jun-76	NORTHEAST UTILITIES	NU	10.125	0	0	0.0073	-0.0073	Jun-76
40	Jul-76	NORTHEAST UTILITIES	NU	10.5	0.037037	0	0.0065	0.0305	Jul-76
40	Aug-76	NORTHEAST UTILITIES	NU	10.75	0.04801	0.2541	0.0069	0.0411	Aug-76
40	Sep-76	NORTHEAST UTILITIES	NU	11.125	0.034884	0	0.0064	0.0285	Sep-76

40	Oct-76	NORTHEAST UTILITIES	NU	11	-0.01124	0	0.0061	-0.0173	Oct-76
40	Nov-76	NORTHEAST UTILITIES	NU	10.25	-0.04508	0.2541	0.0066	-0.0517	Nov-76
40	Dec-76	NORTHEAST UTILITIES	NU	10.875	0.060976	0	0.0063	0.0547	Dec-76
40	Jan-77	NORTHEAST UTILITIES	NU	11.5	0.057471	0	0.0059	0.0516	Jan-77
40	Feb-77	NORTHEAST UTILITIES	NU	11	-0.02138	0.2541	0.0057	-0.0271	Feb-77
40	Mar-77	NORTHEAST UTILITIES	NU	11	0	0	0.0065	-0.0065	Mar-77
40	Apr-77	NORTHEAST UTILITIES	NU	11.125	0.011364	0	0.0061	0.0053	Apr-77
40	May-77	NORTHEAST UTILITIES	NU	11.125	0.02284	0.2541	0.0067	0.0161	May-77
40	Jun-77	NORTHEAST UTILITIES	NU	11.625	0.044944	0	0.0062	0.0387	Jun-77
40	Jul-77	NORTHEAST UTILITIES	NU	12.125	0.043011	0	0.0059	0.0371	Jul-77
40	Aug-77	NORTHEAST UTILITIES	NU	11.375	-0.0409	0.2541	0.0067	-0.0476	Aug-77
40	Sep-77	NORTHEAST UTILITIES	NU	11.375	0	0	0.0061	-0.0061	Sep-77
40	Oct-77	NORTHEAST UTILITIES	NU	11.25	-0.01099	0	0.0063	-0.0173	Oct-77
40	Nov-77	NORTHEAST UTILITIES	NU	10.625	-0.03297	0.2541	0.0063	-0.0393	Nov-77
40	Dec-77	NORTHEAST UTILITIES	NU	10.75	0.011765	0	0.0062	0.0056	Dec-77
40	Jan-78	NORTHEAST UTILITIES	NU	10.5	-0.02326	0	0.0069	-0.0302	Jan-78
40	Feb-78	NORTHEAST UTILITIES	NU	10.5	0.0242	0.2541	0.0060	0.0182	Feb-78
40	Mar-78	NORTHEAST UTILITIES	NU	10.25	-0.02381	0	0.0069	-0.0307	Mar-78
40	Apr-78	NORTHEAST UTILITIES	NU	10.25	0	0	0.0063	-0.0063	Apr-78
40	May-78	NORTHEAST UTILITIES	NU	9.875	-0.0118	0.2541	0.0075	-0.0193	May-78
40	Jun-78	NORTHEAST UTILITIES	NU	9.625	-0.02532	0	0.0069	-0.0322	Jun-78
40	Jul-78	NORTHEAST UTILITIES	NU	9.875	0.025974	0	0.0073	0.0187	Jul-78
40	Aug-78	NORTHEAST UTILITIES	NU	10.125	0.051048	0.2541	0.0070	0.0440	Aug-78
40	Sep-78	NORTHEAST UTILITIES	NU	10.125	0	0	0.0065	-0.0065	Sep-78
40	Oct-78	NORTHEAST UTILITIES	NU	9.625	-0.04938	0	0.0073	-0.0567	Oct-78
40	Nov-78	NORTHEAST UTILITIES	NU	9.375	0.000426	0.2541	0.0071	-0.0067	Nov-78
40	Dec-78	NORTHEAST UTILITIES	NU	9	-0.04	0	0.0068	-0.0468	Dec-78
40	Jan-79	NORTHEAST UTILITIES	NU	9.875	0.097222	0	0.0079	0.0893	Jan-79
40	Feb-79	NORTHEAST UTILITIES	NU	9.375	-0.0249	0.2541	0.0065	-0.0314	Feb-79
40	Mar-79	NORTHEAST UTILITIES	NU	9.375	0	0	0.0074	-0.0074	Mar-79
40	Apr-79	NORTHEAST UTILITIES	NU	9.125	-0.02667	0	0.0076	-0.0343	Apr-79
40	May-79	NORTHEAST UTILITIES	NU	8.875	0.000449	0.2541	0.0077	-0.0073	May-79
40	Jun-79	NORTHEAST UTILITIES	NU	9.375	0.056338	0	0.0071	0.0492	Jun-79
40	Jul-79	NORTHEAST UTILITIES	NU	10.25	0.093333	0	0.0076	0.0857	Jul-79
40	Aug-79	NORTHEAST UTILITIES	NU	10.375	0.039024	0.275	0.0073	0.0317	Aug-79
40	Sep-79	NORTHEAST UTILITIES	NU	9.875	-0.04819	0	0.0068	-0.0550	Sep-79

40	Oct-79	NORTHEAST UTILITIES	NU	9.125	-0.07595	0	0.0082	-0.0841	Oct-79
40	Nov-79	NORTHEAST UTILITIES	NU	9.5	0.071233	0.275	0.0083	0.0629	Nov-79
40	Dec-79	NORTHEAST UTILITIES	NU	9.125	-0.03947	0	0.0083	-0.0478	Dec-79
40	Jan-80	NORTHEAST UTILITIES	NU	9	-0.0137	0	0.0083	-0.0220	Jan-80
40	Feb-80	NORTHEAST UTILITIES	NU	8.125	-0.06667	0.275	0.0084	-0.0751	Feb-80
40	Mar-80	NORTHEAST UTILITIES	NU	8	-0.01539	0	0.0099	-0.0253	Mar-80
40	Apr-80	NORTHEAST UTILITIES	NU	8.875	0.109375	0	0.0100	0.0994	Apr-80
40	May-80	NORTHEAST UTILITIES	NU	9	0.04507	0.275	0.0087	0.0364	May-80
40	Jun-80	NORTHEAST UTILITIES	NU	9.5	0.055556	0	0.0086	0.0470	Jun-80
40	Jul-80	NORTHEAST UTILITIES	NU	9	-0.05263	0	0.0084	-0.0610	Jul-80
40	Aug-80	NORTHEAST UTILITIES	NU	8.875	0.016667	0.275	0.0081	0.0086	Aug-80
40	Sep-80	NORTHEAST UTILITIES	NU	8.5	-0.04225	0	0.0097	-0.0520	Sep-80
40	Oct-80	NORTHEAST UTILITIES	NU	8.25	-0.02941	0	0.0097	-0.0391	Oct-80
40	Nov-80	NORTHEAST UTILITIES	NU	8	0.00303	0.275	0.0091	-0.0061	Nov-80
40	Dec-80	NORTHEAST UTILITIES	NU	8	0	0	0.0108	-0.0108	Dec-80
40	Jan-81	NORTHEAST UTILITIES	NU	8.625	0.078125	0	0.0094	0.0687	Jan-81
40	Feb-81	NORTHEAST UTILITIES	NU	8.625	0.034203	0.295	0.0088	0.0254	Feb-81
40	Mar-81	NORTHEAST UTILITIES	NU	8.875	0.028986	0	0.0111	0.0179	Mar-81
40	Apr-81	NORTHEAST UTILITIES	NU	9	0.014085	0	0.0101	0.0040	Apr-81
40	May-81	NORTHEAST UTILITIES	NU	8.75	0.005	0.295	0.0104	-0.0054	May-81
40	Jun-81	NORTHEAST UTILITIES	NU	8.75	0	0	0.0109	-0.0109	Jun-81
40	Jul-81	NORTHEAST UTILITIES	NU	8.875	0.014286	0	0.0109	0.0034	Jul-81
40	Aug-81	NORTHEAST UTILITIES	NU	8.625	0.00507	0.295	0.0110	-0.0059	Aug-81
40	Sep-81	NORTHEAST UTILITIES	NU	8.25	-0.04348	0	0.0114	-0.0549	Sep-81
40	Oct-81	NORTHEAST UTILITIES	NU	8.5	0.030303	0	0.0117	0.0186	Oct-81
40	Nov-81	NORTHEAST UTILITIES	NU	9	0.093529	0.295	0.0113	0.0822	Nov-81
40	Dec-81	NORTHEAST UTILITIES	NU	9.125	0.013889	0	0.0100	0.0039	Dec-81
40	Jan-82	NORTHEAST UTILITIES	NU	9.5	0.041096	0	0.0108	0.0303	Jan-82
40	Feb-82	NORTHEAST UTILITIES	NU	9.375	0.020526	0.32	0.0103	0.0102	Feb-82
40	Mar-82	NORTHEAST UTILITIES	NU	10.375	0.106667	0	0.0124	0.0943	Mar-82
40	Apr-82	NORTHEAST UTILITIES	NU	10.625	0.024096	0	0.0112	0.0129	Apr-82
40	May-82	NORTHEAST UTILITIES	NU	10.375	0.006588	0.32	0.0101	-0.0035	May-82
40	Jun-82	NORTHEAST UTILITIES	NU	10	-0.03615	0	0.0120	-0.0481	Jun-82
40	Jul-82	NORTHEAST UTILITIES	NU	9.875	-0.0125	0	0.0114	-0.0239	Jul-82
40	Aug-82	NORTHEAST UTILITIES	NU	10.75	0.121013	0.32	0.0112	0.1098	Aug-82
40	Sep-82	NORTHEAST UTILITIES	NU	10.75	0	0	0.0100	-0.0100	Sep-82

40	Oct-82	NORTHEAST UTILITIES	NU	11.5	0.069767	0	0.0091	0.0607	Oct-82
40	Nov-82	NORTHEAST UTILITIES	NU	11.75	0.049565	0.32	0.0094	0.0402	Nov-82
40	Dec-82	NORTHEAST UTILITIES	NU	12.125	0.031915	0	0.0093	0.0226	Dec-82
40	Jan-83	NORTHEAST UTILITIES	NU	12.625	0.041237	0	0.0087	0.0325	Jan-83
40	Feb-83	NORTHEAST UTILITIES	NU	12.625	0.027327	0.345	0.0081	0.0192	Feb-83
40	Mar-83	NORTHEAST UTILITIES	NU	12.375	-0.0198	0	0.0089	-0.0287	Mar-83
40	Apr-83	NORTHEAST UTILITIES	NU	13.125	0.060606	0	0.0085	0.0521	Apr-83
40	May-83	NORTHEAST UTILITIES	NU	12.75	-0.00229	0.345	0.0091	-0.0114	May-83
40	Jun-83	NORTHEAST UTILITIES	NU	12.125	-0.04902	0	0.0090	-0.0580	Jun-83
40	Jul-83	NORTHEAST UTILITIES	NU	12.5	0.030928	0	0.0088	0.0221	Jul-83
40	Aug-83	NORTHEAST UTILITIES	NU	11.875	-0.0224	0.345	0.0103	-0.0327	Aug-83
40	Sep-83	NORTHEAST UTILITIES	NU	13.25	0.115789	0	0.0096	0.1062	Sep-83
40	Oct-83	NORTHEAST UTILITIES	NU	13.375	0.009434	0	0.0095	-0.0001	Oct-83
40	Nov-83	NORTHEAST UTILITIES	NU	12.75	-0.02094	0.345	0.0094	-0.0303	Nov-83
40	Dec-83	NORTHEAST UTILITIES	NU	12.25	-0.03922	0	0.0094	-0.0486	Dec-83
40	Jan-84	NORTHEAST UTILITIES	NU	13	0.061224	0	0.0103	0.0509	Jan-84
40	Feb-84	NORTHEAST UTILITIES	NU	11.75	-0.06769	0.37	0.0092	-0.0769	Feb-84
40	Mar-84	NORTHEAST UTILITIES	NU	11.75	0	0	0.0098	-0.0098	Mar-84
40	Apr-84	NORTHEAST UTILITIES	NU	11.125	-0.05319	0	0.0104	-0.0636	Apr-84
40	May-84	NORTHEAST UTILITIES	NU	11.125	0.033258	0.37	0.0103	0.0230	May-84
40	Jun-84	NORTHEAST UTILITIES	NU	11.375	0.022472	0	0.0106	0.0119	Jun-84
40	Jul-84	NORTHEAST UTILITIES	NU	11.625	0.021978	0	0.0116	0.0104	Jul-84
40	Aug-84	NORTHEAST UTILITIES	NU	12	0.064086	0.37	0.0106	0.0535	Aug-84
40	Sep-84	NORTHEAST UTILITIES	NU	13.25	0.104167	0	0.0094	0.0948	Sep-84
40	Oct-84	NORTHEAST UTILITIES	NU	13.875	0.04717	0	0.0108	0.0364	Oct-84
40	Nov-84	NORTHEAST UTILITIES	NU	14	0.035676	0.37	0.0091	0.0266	Nov-84
40	Dec-84	NORTHEAST UTILITIES	NU	14.25	0.017857	0	0.0098	0.0081	Dec-84
40	Jan-85	NORTHEAST UTILITIES	NU	14.625	0.026316	0	0.0096	0.0167	Jan-85
40	Feb-85	NORTHEAST UTILITIES	NU	14.75	0.035556	0.395	0.0082	0.0274	Feb-85
40	Mar-85	NORTHEAST UTILITIES	NU	15.125	0.025424	0	0.0094	0.0160	Mar-85
40	Apr-85	NORTHEAST UTILITIES	NU	15.75	0.041322	0	0.0102	0.0311	Apr-85
40	May-85	NORTHEAST UTILITIES	NU	16.625	0.080635	0.395	0.0097	0.0709	May-85
40	Jun-85	NORTHEAST UTILITIES	NU	16.75	0.007519	0	0.0080	-0.0005	Jun-85
40	Jul-85	NORTHEAST UTILITIES	NU	16.875	0.007463	0	0.0094	-0.0019	Jul-85
40	Aug-85	NORTHEAST UTILITIES	NU	17	0.030815	0.395	0.0085	0.0223	Aug-85
40	Sep-85	NORTHEAST UTILITIES	NU	14.75	-0.13235	0	0.0088	-0.1412	Sep-85

40	Oct-85	NORTHEAST UTILITIES	NU	16.75	0.135593	0	0.0089	0.1267	Oct-85
40	Nov-85	NORTHEAST UTILITIES	NU	17.375	0.060896	0.395	0.0081	0.0528	Nov-85
40	Dec-85	NORTHEAST UTILITIES	NU	17.75	0.021583	0	0.0086	0.0130	Dec-85
40	Jan-86	NORTHEAST UTILITIES	NU	19.625	0.105634	0	0.0079	0.0977	Jan-86
40	Feb-86	NORTHEAST UTILITIES	NU	20.875	0.085096	0.42	0.0073	0.0778	Feb-86
40	Mar-86	NORTHEAST UTILITIES	NU	21.75	0.041916	0	0.0071	0.0348	Mar-86
40	Apr-86	NORTHEAST UTILITIES	NU	19.75	-0.09195	0	0.0063	-0.0983	Apr-86
40	May-86	NORTHEAST UTILITIES	NU	19.875	0.027595	0.42	0.0062	0.0214	May-86
40	Jun-86	NORTHEAST UTILITIES	NU	21.625	0.08805	0	0.0070	0.0811	Jun-86
40	Jul-86	NORTHEAST UTILITIES	NU	24.5	0.132948	0	0.0066	0.1263	Jul-86
40	Aug-86	NORTHEAST UTILITIES	NU	26.75	0.10898	0.42	0.0063	0.1027	Aug-86
40	Sep-86	NORTHEAST UTILITIES	NU	24.5	-0.08411	0	0.0065	-0.0906	Sep-86
40	Oct-86	NORTHEAST UTILITIES	NU	25.875	0.056122	0	0.0069	0.0492	Oct-86
40	Nov-86	NORTHEAST UTILITIES	NU	25.625	0.00657	0.42	0.0059	0.0007	Nov-86
40	Dec-86	NORTHEAST UTILITIES	NU	24.25	-0.05366	0	0.0070	-0.0607	Dec-86
40	Jan-87	NORTHEAST UTILITIES	NU	27.375	0.128866	0	0.0064	0.1225	Jan-87
40	Feb-87	NORTHEAST UTILITIES	NU	25	-0.07069	0.44	0.0059	-0.0766	Feb-87
40	Mar-87	NORTHEAST UTILITIES	NU	25.75	0.03	0	0.0066	0.0234	Mar-87
40	Apr-87	NORTHEAST UTILITIES	NU	23.625	-0.08252	0	0.0065	-0.0890	Apr-87
40	May-87	NORTHEAST UTILITIES	NU	22.625	-0.0237	0.44	0.0066	-0.0303	May-87
40	Jun-87	NORTHEAST UTILITIES	NU	22.875	0.01105	0	0.0075	0.0036	Jun-87
40	Jul-87	NORTHEAST UTILITIES	NU	22.375	-0.02186	0	0.0073	-0.0292	Jul-87
40	Aug-87	NORTHEAST UTILITIES	NU	22.375	0.019665	0.44	0.0075	0.0122	Aug-87
40	Sep-87	NORTHEAST UTILITIES	NU	22.125	-0.01117	0	0.0075	-0.0187	Sep-87
40	Oct-87	NORTHEAST UTILITIES	NU	21	-0.05085	0	0.0079	-0.0587	Oct-87
40	Nov-87	NORTHEAST UTILITIES	NU	20	-0.02667	0.44	0.0075	-0.0342	Nov-87
40	Dec-87	NORTHEAST UTILITIES	NU	20.25	0.0125	0	0.0078	0.0047	Dec-87
40	Jan-88	NORTHEAST UTILITIES	NU	22	0.08642	0	0.0072	0.0792	Jan-88
40	Feb-88	NORTHEAST UTILITIES	NU	20.25	-0.05955	0.44	0.0071	-0.0666	Feb-88
40	Mar-88	NORTHEAST UTILITIES	NU	19.75	-0.02469	0	0.0072	-0.0319	Mar-88
40	Apr-88	NORTHEAST UTILITIES	NU	19.25	-0.02532	0	0.0070	-0.0323	Apr-88
40	May-88	NORTHEAST UTILITIES	NU	19.125	0.016364	0.44	0.0078	0.0086	May-88
40	Jun-88	NORTHEAST UTILITIES	NU	19.75	0.03268	0	0.0076	0.0251	Jun-88
40	Jul-88	NORTHEAST UTILITIES	NU	18.75	-0.05063	0	0.0071	-0.0577	Jul-88
40	Aug-88	NORTHEAST UTILITIES	NU	18.75	0.023467	0.44	0.0083	0.0152	Aug-88
40	Sep-88	NORTHEAST UTILITIES	NU	20.125	0.073333	0	0.0076	0.0657	Sep-88

40	Oct-88	NORTHEAST UTILITIES	NU	21.125	0.049689	0	0.0076	0.0421	Oct-88
40	Nov-88	NORTHEAST UTILITIES	NU	20.75	0.003077	0.44	0.0070	-0.0039	Nov-88
40	Dec-88	NORTHEAST UTILITIES	NU	19.875	-0.04217	0	0.0075	-0.0497	Dec-88
40	Jan-89	NORTHEAST UTILITIES	NU	20	0.006289	0	0.0080	-0.0017	Jan-89
40	Feb-89	NORTHEAST UTILITIES	NU	18.75	-0.0405	0.44	0.0069	-0.0474	Feb-89
40	Mar-89	NORTHEAST UTILITIES	NU	19.75	0.053333	0	0.0079	0.0454	Mar-89
40	Apr-89	NORTHEAST UTILITIES	NU	20.25	0.025316	0	0.0070	0.0183	Apr-89
40	May-89	NORTHEAST UTILITIES	NU	21.25	0.071111	0.44	0.0080	0.0631	May-89
40	Jun-89	NORTHEAST UTILITIES	NU	21.625	0.017647	0	0.0070	0.0106	Jun-89
40	Jul-89	NORTHEAST UTILITIES	NU	22.125	0.076083	0	0.0068	0.0693	Jul-89
40	Aug-89	NORTHEAST UTILITIES	NU	21.25	-0.01966	0.44	0.0066	-0.0263	Aug-89
40	Sep-89	NORTHEAST UTILITIES	NU	21	-0.01177	0	0.0065	-0.0183	Sep-89
40	Oct-89	NORTHEAST UTILITIES	NU	21.5	0.02381	0	0.0072	0.0166	Oct-89
40	Nov-89	NORTHEAST UTILITIES	NU	21.375	0.014651	0.44	0.0064	0.0083	Nov-89
40	Dec-89	NORTHEAST UTILITIES	NU	22.5	0.052632	0	0.0064	0.0462	Dec-89
40	Jan-90	NORTHEAST UTILITIES	NU	21.75	-0.03333	0	0.0073	-0.0406	Jan-90
40	Feb-90	NORTHEAST UTILITIES	NU	20.875	-0.02	0.44	0.0066	-0.0266	Feb-90
40	Mar-90	NORTHEAST UTILITIES	NU	20.75	-0.00599	0	0.0071	-0.0131	Mar-90
40	Apr-90	NORTHEAST UTILITIES	NU	19.875	-0.04217	0	0.0075	-0.0497	Apr-90
40	May-90	NORTHEAST UTILITIES	NU	19.5	0.00327	0.44	0.0075	-0.0042	May-90
40	Jun-90	NORTHEAST UTILITIES	NU	19.375	-0.00641	0	0.0068	-0.0132	Jun-90
40	Jul-90	NORTHEAST UTILITIES	NU	19.75	0.019355	0	0.0074	0.0120	Jul-90
40	Aug-90	NORTHEAST UTILITIES	NU	18.375	-0.04734	0.44	0.0071	-0.0544	Aug-90
40	Sep-90	NORTHEAST UTILITIES	NU	18.375	0	0	0.0069	-0.0069	Sep-90
40	Oct-90	NORTHEAST UTILITIES	NU	19.75	0.07483	0	0.0081	0.0667	Oct-90
40	Nov-90	NORTHEAST UTILITIES	NU	19.875	0.028608	0.44	0.0071	0.0215	Nov-90
40	Dec-90	NORTHEAST UTILITIES	NU	20	0.006289	0	0.0072	-0.0009	Dec-90
40	Jan-91	NORTHEAST UTILITIES	NU	20	0	0	0.0071	-0.0071	Jan-91
40	Feb-91	NORTHEAST UTILITIES	NU	20.25	0.0345	0.44	0.0064	0.0281	Feb-91
40	Mar-91	NORTHEAST UTILITIES	NU	20.25	0	0	0.0064	-0.0064	Mar-91
40	Apr-91	NORTHEAST UTILITIES	NU	20.75	0.024691	0	0.0076	0.0171	Apr-91
40	May-91	NORTHEAST UTILITIES	NU	20.25	-0.00289	0.44	0.0068	-0.0097	May-91
40	Jun-91	NORTHEAST UTILITIES	NU	20.625	0.018519	0	0.0063	0.0122	Jun-91
40	Jul-91	NORTHEAST UTILITIES	NU	21.5	0.042424	0	0.0076	0.0348	Jul-91
40	Aug-91	NORTHEAST UTILITIES	NU	21.5	0.020465	0.44	0.0068	0.0137	Aug-91
40	Sep-91	NORTHEAST UTILITIES	NU	22.25	0.034884	0	0.0068	0.0281	Sep-91

40	Oct-91	NORTHEAST UTILITIES	NU	22.75	0.022472	0	0.0065	0.0160	Oct-91
40	Nov-91	NORTHEAST UTILITIES	NU	22.75	0.019341	0.44	0.0060	0.0133	Nov-91
40	Dec-91	NORTHEAST UTILITIES	NU	23.625	0.038462	0	0.0068	0.0317	Dec-91
40	Jan-92	NORTHEAST UTILITIES	NU	24.125	0.021164	0	0.0061	0.0151	Jan-92
40	Feb-92	NORTHEAST UTILITIES	NU	23.75	0.002694	0.44	0.0059	-0.0032	Feb-92
40	Mar-92	NORTHEAST UTILITIES	NU	23.625	-0.00526	0	0.0067	-0.0120	Mar-92
40	Apr-92	NORTHEAST UTILITIES	NU	23.625	0	0	0.0065	-0.0065	Apr-92
40	May-92	NORTHEAST UTILITIES	NU	23.625	0.018624	0.44	0.0061	0.0125	May-92
40	Jun-92	NORTHEAST UTILITIES	NU	23.875	0.010582	0	0.0067	0.0039	Jun-92
40	Jul-92	NORTHEAST UTILITIES	NU	26.25	0.099476	0	0.0063	0.0932	Jul-92
40	Aug-92	NORTHEAST UTILITIES	NU	25.875	0.002476	0.44	0.0060	-0.0035	Aug-92
40	Sep-92	NORTHEAST UTILITIES	NU	26.375	0.019324	0	0.0058	0.0135	Sep-92
40	Oct-92	NORTHEAST UTILITIES	NU	25.625	-0.02844	0	0.0057	-0.0341	Oct-92
40	Nov-92	NORTHEAST UTILITIES	NU	25.75	0.022049	0.44	0.0061	0.0159	Nov-92
40	Dec-92	NORTHEAST UTILITIES	NU	26.5	0.029126	0	0.0063	0.0228	Dec-92
40	Jan-93	NORTHEAST UTILITIES	NU	27.25	0.028302	0	0.0059	0.0224	Jan-93
40	Feb-93	NORTHEAST UTILITIES	NU	27.625	0.029908	0.44	0.0055	0.0244	Feb-93
40	Mar-93	NORTHEAST UTILITIES	NU	27.625	0	0	0.0063	-0.0063	Mar-93
40	Apr-93	NORTHEAST UTILITIES	NU	27.5	-0.00453	0	0.0057	-0.0102	Apr-93
40	May-93	NORTHEAST UTILITIES	NU	26.625	-0.01582	0.44	0.0052	-0.0210	May-93
40	Jun-93	NORTHEAST UTILITIES	NU	26.875	0.00939	0	0.0062	0.0032	Jun-93
40	Jul-93	NORTHEAST UTILITIES	NU	27.125	0.009302	0	0.0054	0.0039	Jul-93
40	Aug-93	NORTHEAST UTILITIES	NU	27.375	0.025438	0.44	0.0056	0.0198	Aug-93
40	Sep-93	NORTHEAST UTILITIES	NU	26.375	-0.03653	0	0.0050	-0.0415	Sep-93
40	Oct-93	NORTHEAST UTILITIES	NU	26.25	-0.00474	0	0.0049	-0.0096	Oct-93
40	Nov-93	NORTHEAST UTILITIES	NU	23.5	-0.088	0.44	0.0053	-0.0933	Nov-93
40	Dec-93	NORTHEAST UTILITIES	NU	23.75	0.010638	0	0.0055	0.0051	Dec-93
40	Jan-94	NORTHEAST UTILITIES	NU	25.25	0.063158	0	0.0055	0.0577	Jan-94
40	Feb-94	NORTHEAST UTILITIES	NU	23.375	-0.05683	0.44	0.0049	-0.0617	Feb-94
40	Mar-94	NORTHEAST UTILITIES	NU	23.625	0.010695	0	0.0058	0.0049	Mar-94
40	Apr-94	NORTHEAST UTILITIES	NU	24.875	0.05291	0	0.0057	0.0472	Apr-94
40	May-94	NORTHEAST UTILITIES	NU	22.75	-0.06774	0.44	0.0063	-0.0740	May-94
40	Jun-94	NORTHEAST UTILITIES	NU	21.75	-0.04396	0	0.0061	-0.0501	Jun-94
40	Jul-94	NORTHEAST UTILITIES	NU	23.375	0.074713	0	0.0060	0.0687	Jul-94
40	Aug-94	NORTHEAST UTILITIES	NU	23.25	0.013476	0.44	0.0066	0.0069	Aug-94
40	Sep-94	NORTHEAST UTILITIES	NU	22	-0.05376	0	0.0061	-0.0599	Sep-94

40	Oct-94	NORTHEAST UTILITIES	NU	23.125	0.051136	0	0.0066	0.0445	Oct-94
40	Nov-94	NORTHEAST UTILITIES	NU	21.375	-0.05665	0.44	0.0064	-0.0630	Nov-94
40	Dec-94	NORTHEAST UTILITIES	NU	21.625	0.011696	0	0.0066	0.0051	Dec-94
40	Jan-95	NORTHEAST UTILITIES	NU	23.875	0.104046	0	0.0070	0.0970	Jan-95
40	Feb-95	NORTHEAST UTILITIES	NU	22.75	-0.02869	0.44	0.0059	-0.0346	Feb-95
40	Mar-95	NORTHEAST UTILITIES	NU	21.25	-0.06593	0	0.0064	-0.0723	Mar-95
40	Apr-95	NORTHEAST UTILITIES	NU	21.75	0.023529	0	0.0058	0.0177	Apr-95
40	May-95	NORTHEAST UTILITIES	NU	23.875	0.117931	0.44	0.0065	0.1114	May-95
40	Jun-95	NORTHEAST UTILITIES	NU	22.5	-0.05759	0	0.0054	-0.0630	Jun-95
40	Jul-95	NORTHEAST UTILITIES	NU	22.5	0	0	0.0056	-0.0056	Jul-95
40	Aug-95	NORTHEAST UTILITIES	NU	22.875	0.036222	0.44	0.0057	0.0305	Aug-95
40	Sep-95	NORTHEAST UTILITIES	NU	24.375	0.065574	0	0.0052	0.0604	Sep-95
40	Oct-95	NORTHEAST UTILITIES	NU	24.75	0.015385	0	0.0057	0.0097	Oct-95
40	Nov-95	NORTHEAST UTILITIES	NU	23.875	-0.01758	0.44	0.0051	-0.0227	Nov-95
40	Dec-95	NORTHEAST UTILITIES	NU	24.25	0.015707	0	0.0049	0.0108	Dec-95
40	Jan-96	NORTHEAST UTILITIES	NU	23.625	-0.02577	0	0.0054	-0.0312	Jan-96
40	Feb-96	NORTHEAST UTILITIES	NU	22.25	-0.03958	0.44	0.0048	-0.0444	Feb-96
40	Mar-96	NORTHEAST UTILITIES	NU	19.75	-0.11236	0	0.0052	-0.1176	Mar-96
40	Apr-96	NORTHEAST UTILITIES	NU	16	-0.18987	0	0.0059	-0.1958	Apr-96
40	May-96	NORTHEAST UTILITIES	NU	14.5	-0.06625	0.44	0.0058	-0.0721	May-96
40	Jun-96	NORTHEAST UTILITIES	NU	13.375	-0.07759	0	0.0054	-0.0830	Jun-96
40	Jul-96	NORTHEAST UTILITIES	NU	12.375	-0.07477	0	0.0062	-0.0810	Jul-96
40	Aug-96	NORTHEAST UTILITIES	NU	12.75	0.050505	0.25	0.0057	0.0448	Aug-96
40	Sep-96	NORTHEAST UTILITIES	NU	12.375	-0.02941	0	0.0060	-0.0354	Sep-96
40	Oct-96	NORTHEAST UTILITIES	NU	10.75	-0.13131	0	0.0058	-0.1371	Oct-96
40	Nov-96	NORTHEAST UTILITIES	NU	11.875	0.127907	0.25	0.0052	0.1227	Nov-96
40	Dec-96	NORTHEAST UTILITIES	NU	13.125	0.105263	0	0.0056	0.0997	Dec-96
40	Jan-97	NORTHEAST UTILITIES	NU	13.125	0	0	0.0056	-0.0056	Jan-97
40	Feb-97	NORTHEAST UTILITIES	NU	10.375	-0.19048	0.25	0.0051	-0.1956	Feb-97
40	Mar-97	NORTHEAST UTILITIES	NU	7.875	-0.24096	0	0.0059	-0.2469	Mar-97
40	Apr-97	NORTHEAST UTILITIES	NU	8.25	0.047619	0	0.0059	0.0417	Apr-97
40	May-97	NORTHEAST UTILITIES	NU	9.125	0.106061	0	0.0058	0.1003	May-97
40	Jun-97	NORTHEAST UTILITIES	NU	9.5	0.041096	0	0.0059	0.0352	Jun-97
40	Jul-97	NORTHEAST UTILITIES	NU	9.75	0.026316	0	0.0058	0.0205	Jul-97
40	Aug-97	NORTHEAST UTILITIES	NU	10.0625	0.032051	0	0.0049	0.0272	Aug-97
40	Sep-97	NORTHEAST UTILITIES	NU	9.6875	-0.03727	0	0.0058	-0.0431	Sep-97

40	Oct-97	NORTHEAST UTILITIES	NU	11.5	0.187097	0	0.0054	0.1817	Oct-97
40	Nov-97	NORTHEAST UTILITIES	NU	12.9375	0.125	0	0.0047	0.1203	Nov-97
40	Dec-97	NORTHEAST UTILITIES	NU	11.8125	-0.08696	0	0.0054	-0.0924	Dec-97
40	Jan-98	NORTHEAST UTILITIES	NU	12.25	0.037037	0	0.0048	0.0322	Jan-98
40	Feb-98	NORTHEAST UTILITIES	NU	12.4375	0.015306	0	0.0044	0.0109	Feb-98
40	Mar-98	NORTHEAST UTILITIES	NU	14.3125	0.150754	0	0.0052	0.1456	Mar-98
40	Apr-98	NORTHEAST UTILITIES	NU	14.125	-0.0131	0	0.0049	-0.0180	Apr-98
40	May-98	NORTHEAST UTILITIES	NU	15.9375	0.128319	0	0.0048	0.1235	May-98
40	Jun-98	NORTHEAST UTILITIES	NU	16.9375	0.062745	0	0.0052	0.0575	Jun-98
40	Jul-98	NORTHEAST UTILITIES	NU	15.3125	-0.09594	0	0.0049	-0.1008	Jul-98
40	Aug-98	NORTHEAST UTILITIES	NU	14.625	-0.0449	0	0.0048	-0.0497	Aug-98
40	Sep-98	NORTHEAST UTILITIES	NU	16.75	0.145299	0	0.0044	0.1409	Sep-98
40	Oct-98	NORTHEAST UTILITIES	NU	15.625	-0.06716	0	0.0042	-0.0714	Oct-98
40	Nov-98	NORTHEAST UTILITIES	NU	15.75	0.008	0	0.0045	0.0035	Nov-98
40	Dec-98	NORTHEAST UTILITIES	NU	16	0.015873	0	0.0045	0.0114	Dec-98
40	Jan-99	NORTHEAST UTILITIES	NU	15.3125	-0.04297	0	0.0042	-0.0472	Jan-99
40	Feb-99	NORTHEAST UTILITIES	NU	15	-0.02041	0	0.0040	-0.0244	Feb-99
40	Mar-99	NORTHEAST UTILITIES	NU	13.875	-0.075	0	0.0053	-0.0803	Mar-99
40	Apr-99	NORTHEAST UTILITIES	NU	15.8125	0.13964	0	0.0048	0.1348	Apr-99
40	May-99	NORTHEAST UTILITIES	NU	17.625	0.114625	0	0.0045	0.1101	May-99
40	Jun-99	NORTHEAST UTILITIES	NU	17.875	0.014184	0	0.0055	0.0087	Jun-99
40	Jul-99	NORTHEAST UTILITIES	NU	18.75	0.048951	0	0.0051	0.0439	Jul-99
40	Aug-99	NORTHEAST UTILITIES	NU	17.5625	-0.06333	0	0.0054	-0.0687	Aug-99
40	Sep-99	NORTHEAST UTILITIES	NU	18.375	0.046263	0	0.0052	0.0411	Sep-99
40	Oct-99	NORTHEAST UTILITIES	NU	20.8125	0.132653	0	0.0050	0.1277	Oct-99
40	Nov-99	NORTHEAST UTILITIES	NU	21.125	0.01982	0.1	0.0056	0.0142	Nov-99
40	Dec-99	NORTHEAST UTILITIES	NU	20.5625	-0.02663	0	0.0055	-0.0321	Dec-99
40	Jan-00	NORTHEAST UTILITIES	NU	20.5	-0.00304	0	0.0057	-0.0087	Jan-00
40	Feb-00	NORTHEAST UTILITIES	NU	18.8125	-0.07744	0.1	0.0051	-0.0825	Feb-00
40	Mar-00	NORTHEAST UTILITIES	NU	21.5	0.142857	0	0.0054	0.1375	Mar-00
40	Apr-00	NORTHEAST UTILITIES	NU	21.5	0	0	0.0047	-0.0047	Apr-00
40	May-00	NORTHEAST UTILITIES	NU	22.125	0.033721	0.1	0.0056	0.0281	May-00
40	Jun-00	NORTHEAST UTILITIES	NU	21.75	-0.01695	0	0.0052	-0.0221	Jun-00
40	Jul-00	NORTHEAST UTILITIES	NU	22.125	0.017241	0	0.0052	0.0120	Jul-00
40	Aug-00	NORTHEAST UTILITIES	NU	22.75	0.032768	0.1	0.0050	0.0278	Aug-00
40	Sep-00	NORTHEAST UTILITIES	NU	21.6875	-0.0467	0	0.0046	-0.0513	Sep-00

40	Oct-00	NORTHEAST UTILITIES	NU	20.375	-0.06052	0	0.0053	-0.0658	Oct-00
40	Nov-00	NORTHEAST UTILITIES	NU	21.5625	0.06319	0.1	0.0048	0.0584	Nov-00
40	Dec-00	NORTHEAST UTILITIES	NU	24.25	0.124638	0	0.0045	0.1201	Dec-00
40	Jan-01	NORTHEAST UTILITIES	NU	22.58	-0.06887	0	0.0049	-0.0738	Jan-01
40	Feb-01	NORTHEAST UTILITIES	NU	20.4	-0.09212	0.1	0.0042	-0.0963	Feb-01
40	Mar-01	NORTHEAST UTILITIES	NU	17.38	-0.14804	0	0.0045	-0.1525	Mar-01
40	Apr-01	NORTHEAST UTILITIES	NU	17.85	0.027043	0	0.0047	0.0223	Apr-01
40	May-01	NORTHEAST UTILITIES	NU	19.24	0.083473	0.1	0.0050	0.0785	May-01
40	Jun-01	NORTHEAST UTILITIES	NU	20.75	0.078482	0	0.0047	0.0738	Jun-01
40	Jul-01	NORTHEAST UTILITIES	NU	20	-0.03615	0	0.0052	-0.0413	Jul-01
40	Aug-01	NORTHEAST UTILITIES	NU	19.5	-0.01875	0.125	0.0046	-0.0234	Aug-01
40	Sep-01	NORTHEAST UTILITIES	NU	18.73	-0.03949	0	0.0041	-0.0436	Sep-01
40	Oct-01	NORTHEAST UTILITIES	NU	17.65	-0.05766	0	0.0048	-0.0625	Oct-01
40	Nov-01	NORTHEAST UTILITIES	NU	17.4	-0.00708	0.125	0.0041	-0.0112	Nov-01
40	Dec-01	NORTHEAST UTILITIES	NU	17.63	0.013218	0	0.0046	0.0086	Dec-01
40	Jan-02	NORTHEAST UTILITIES	NU	18.11	0.027226	0	0.0048	0.0224	Jan-02
40	Feb-02	NORTHEAST UTILITIES	NU	18.38	0.021811	0.125	0.0043	0.0175	Feb-02
40	Mar-02	NORTHEAST UTILITIES	NU	19.87	0.081066	0	0.0043	0.0768	Mar-02
40	Apr-02	NORTHEAST UTILITIES	NU	20	0.006542	0	0.0054	0.0011	Apr-02
40	May-02	NORTHEAST UTILITIES	NU	19.85	-0.00125	0.125	0.0049	-0.0062	May-02
40	Jun-02	NORTHEAST UTILITIES	NU	18.81	-0.05239	0	0.0044	-0.0568	Jun-02
40	Jul-02	NORTHEAST UTILITIES	NU	16.65	-0.11483	0	0.0051	-0.1199	Jul-02
40	Aug-02	NORTHEAST UTILITIES	NU	17.51	0.05991	0.1375	0.0044	0.0555	Aug-02
40	Sep-02	NORTHEAST UTILITIES	NU	16.9	-0.03484	0	0.0042	-0.0390	Sep-02
40	Oct-02	NORTHEAST UTILITIES	NU	15.05	-0.10947	0	0.0040	-0.1135	Oct-02
40	Nov-02	NORTHEAST UTILITIES	NU	14.37	-0.03605	0.1375	0.0040	-0.0400	Nov-02
40	Dec-02	NORTHEAST UTILITIES	NU	15.17	0.055672	0	0.0045	0.0512	Dec-02
40	Jan-03	NORTHEAST UTILITIES	NU	14.35	-0.05405	0	0.0041	-0.0582	Jan-03
40	Feb-03	NORTHEAST UTILITIES	NU	14	-0.01481	0.1375	0.0038	-0.0186	Feb-03
40	Mar-03	NORTHEAST UTILITIES	NU	13.92	-0.00571	0	0.0040	-0.0097	Mar-03
40	Apr-03	NORTHEAST UTILITIES	NU	14.92	0.071839	0	0.0040	0.0678	Apr-03
40	May-03	NORTHEAST UTILITIES	NU	16.16	0.092326	0.1375	0.0039	0.0884	May-03
40	Jun-03	NORTHEAST UTILITIES	NU	16.74	0.035891	0	0.0036	0.0323	Jun-03
40	Jul-03	NORTHEAST UTILITIES	NU	16.8	0.003584	0	0.0038	-0.0002	Jul-03
40	Aug-03	NORTHEAST UTILITIES	NU	17.27	0.036905	0.15	0.0042	0.0327	Aug-03
40	Sep-03	NORTHEAST UTILITIES	NU	17.92	0.037637	0	0.0046	0.0330	Sep-03

40	Oct-03	NORTHEAST UTILITIES	NU	18.84	0.051339	0	0.0041	0.0472	Oct-03
40	Nov-03	NORTHEAST UTILITIES	NU	19.95	0.066879	0.15	0.0039	0.0630	Nov-03
40	Dec-03	NORTHEAST UTILITIES	NU	20.17	0.011028	0	0.0047	0.0063	Dec-03
40	Jan-04	NORTHEAST UTILITIES	NU	19.25	-0.04561	0	0.0042	-0.0498	Jan-04
40	Feb-04	NORTHEAST UTILITIES	NU	19.24	0.007273	0.15	0.0038	0.0035	Feb-04
40	Mar-04	NORTHEAST UTILITIES	NU	18.65	-0.03067	0	0.0043	-0.0350	Mar-04
40	Apr-04	NORTHEAST UTILITIES	NU	18.35	-0.01609	0	0.0039	-0.0200	Apr-04
40	May-04	NORTHEAST UTILITIES	NU	19.1	0.049046	0.15	0.0040	0.0450	May-04
40	Jun-04	NORTHEAST UTILITIES	NU	19.47	0.019372	0	0.0048	0.0146	Jun-04
40	Jul-04	NORTHEAST UTILITIES	NU	18.7	-0.03955	0	0.0043	-0.0438	Jul-04
40	Aug-04	NORTHEAST UTILITIES	NU	19.17	0.033823	0.1625	0.0045	0.0293	Aug-04
40	Sep-04	NORTHEAST UTILITIES	NU	19.39	0.011476	0	0.0040	0.0075	Sep-04
40	Oct-04	NORTHEAST UTILITIES	NU	19.33	-0.00309	0	0.0038	-0.0069	Oct-04
40	Nov-04	NORTHEAST UTILITIES	NU	18.23	-0.0485	0.1625	0.0041	-0.0526	Nov-04
40	Dec-04	NORTHEAST UTILITIES	NU	18.85	0.03401	0	0.0043	0.0297	Dec-04
40	Jan-05	NORTHEAST UTILITIES	NU	18.7	-0.00796	0	0.0041	-0.0121	Jan-05
40	Feb-05	NORTHEAST UTILITIES	NU	18.67	0.007086	0.1625	0.0035	0.0036	Feb-05
40	Mar-05	NORTHEAST UTILITIES	NU	19.27	0.032137	0	0.0041	0.0280	Mar-05
40	Apr-05	NORTHEAST UTILITIES	NU	18.31	-0.04982	0	0.0039	-0.0537	Apr-05
40	May-05	NORTHEAST UTILITIES	NU	19.81	0.090797	0.1625	0.0040	0.0868	May-05
40	Jun-05	NORTHEAST UTILITIES	NU	20.86	0.053004	0	0.0036	0.0494	Jun-05
40	Jul-05	NORTHEAST UTILITIES	NU	21.58	0.034516	0	0.0034	0.0311	Jul-05
40	Aug-05	NORTHEAST UTILITIES	NU	19.92	-0.06881	0.175	0.0040	-0.0728	Aug-05
40	Sep-05	NORTHEAST UTILITIES	NU	19.95	0.001506	0	0.0035	-0.0020	Sep-05
40	Oct-05	NORTHEAST UTILITIES	NU	18.19	-0.08822	0	0.0039	-0.0921	Oct-05
40	Nov-05	NORTHEAST UTILITIES	NU	18.58	0.031061	0.175	0.0039	0.0272	Nov-05
40	Dec-05	NORTHEAST UTILITIES	NU	19.69	0.059742	0	0.0039	0.0558	Dec-05
40	Jan-06	NORTHEAST UTILITIES	NU	19.88	0.009649	0	0.0040	0.0056	Jan-06
40	Feb-06	NORTHEAST UTILITIES	NU	19.62	-0.00428	0.175	0.0036	-0.0079	Feb-06
40	Mar-06	NORTHEAST UTILITIES	NU	19.53	-0.00459	0	0.0039	-0.0085	Mar-06
40	Apr-06	NORTHEAST UTILITIES	NU	20.15	0.031746	0	0.0039	0.0278	Apr-06
40	May-06	NORTHEAST UTILITIES	NU	20.23	0.012655	0.175	0.0048	0.0079	May-06
40	Jun-06	NORTHEAST UTILITIES	NU	20.67	0.02175	0	0.0044	0.0174	Jun-06
40	Jul-06	NORTHEAST UTILITIES	NU	22.4	0.083696	0	0.0045	0.0792	Jul-06
40	Aug-06	NORTHEAST UTILITIES	NU	22.81	0.026674	0.1875	0.0043	0.0224	Aug-06
40	Sep-06	NORTHEAST UTILITIES	NU	23.27	0.020167	0	0.0039	0.0163	Sep-06

40	Oct-06	NORTHEAST UTILITIES	NU	25.01	0.074774	0	0.0042	0.0706	Oct-06
40	Nov-06	NORTHEAST UTILITIES	NU	28.03	0.128249	0.1875	0.0039	0.1243	Nov-06
40	Dec-06	NORTHEAST UTILITIES	NU	28.16	0.004638	0	0.0036	0.0010	Dec-06
40	Jan-07	NORTHEAST UTILITIES	NU	27.65	-0.01811	0	0.0043	-0.0224	Jan-07
40	Feb-07	NORTHEAST UTILITIES	NU	29.04	0.057052	0.1875	0.0038	0.0533	Feb-07
40	Mar-07	NORTHEAST UTILITIES	NU	32.77	0.128444	0	0.0039	0.1245	Mar-07
40	Apr-07	NORTHEAST UTILITIES	NU	32.17	-0.01831	0	0.0042	-0.0225	Apr-07
40	May-07	NORTHEAST UTILITIES	NU	30.41	-0.04888	0.1875	0.0041	-0.0530	May-07
40	Jun-07	NORTHEAST UTILITIES	NU	28.36	-0.06741	0	0.0040	-0.0714	Jun-07
40	Jul-07	NORTHEAST UTILITIES	NU	27.34	-0.03597	0	0.0046	-0.0406	Jul-07
40	Aug-07	NORTHEAST UTILITIES	NU	27.65	0.018654	0.2	0.0042	0.0145	Aug-07
40	Sep-07	NORTHEAST UTILITIES	NU	28.57	0.033273	0	0.0037	0.0296	Sep-07
40	Oct-07	NORTHEAST UTILITIES	NU	30.83	0.079104	0	0.0043	0.0748	Oct-07
40	Nov-07	NORTHEAST UTILITIES	NU	31.58	0.030814	0.2	0.0039	0.0269	Nov-07
40	Dec-07	NORTHEAST UTILITIES	NU	31.31	-0.00855	0	0.0037	-0.0123	Dec-07
40	Jan-08	NORTHEAST UTILITIES	NU	27.79	-0.11242	0	0.0040	-0.1164	Jan-08
40	Feb-08	NORTHEAST UTILITIES	NU	25.37	-0.07989	0.2	0.0034	-0.0833	Feb-08
40	Mar-08	NORTHEAST UTILITIES	NU	24.54	-0.03272	0	0.0037	-0.0364	Mar-08
40	Apr-08	NORTHEAST UTILITIES	NU	26.32	0.072535	0	0.0035	0.0690	Apr-08
40	May-08	NORTHEAST UTILITIES	NU	26.11	-0.00038	0.2	0.0037	-0.0041	May-08
40	Jun-08	NORTHEAST UTILITIES	NU	25.53	-0.02221	0	0.0040	-0.0262	Jun-08
40	Jul-08	NORTHEAST UTILITIES	NU	25.16	-0.01449	0	0.0039	-0.0184	Jul-08
40	Aug-08	NORTHEAST UTILITIES	NU	26.89	0.077206	0.2125	0.0036	0.0736	Aug-08
40	Sep-08	NORTHEAST UTILITIES	NU	25.65	-0.04611	0	0.0039	-0.0500	Sep-08
40	Oct-08	NORTHEAST UTILITIES	NU	22.56	-0.12047	0	0.0037	-0.1242	Oct-08
40	Nov-08	NORTHEAST UTILITIES	NU	23.3	0.042221	0.2125	0.0036	0.0386	Nov-08
40	Dec-08	NORTHEAST UTILITIES	NU	24.06	0.032618	0	0.0033	0.0293	Dec-08
40	Jan-09	NORTHEAST UTILITIES	NU	23.8	-0.01081	0	0.0024	-0.0132	Jan-09
40	Feb-09	NORTHEAST UTILITIES	NU	21.91	-0.06943	0.2375	0.0030	-0.0724	Feb-09
40	Mar-09	NORTHEAST UTILITIES	NU	21.59	-0.01461	0	0.0035	-0.0181	Mar-09
40	Apr-09	NORTHEAST UTILITIES	NU	21.02	-0.0264	0	0.0029	-0.0293	Apr-09
40	May-09	NORTHEAST UTILITIES	NU	20.79	0.000357	0.2375	0.0033	-0.0029	May-09
40	Jun-09	NORTHEAST UTILITIES	NU	22.31	0.073112	0	0.0038	0.0693	Jun-09
40	Jul-09	NORTHEAST UTILITIES	NU	23.01	0.031376	0	0.0036	0.0278	Jul-09
40	Aug-09	NORTHEAST UTILITIES	NU	23.79	0.04422	0.2375	0.0036	0.0406	Aug-09
40	Sep-09	NORTHEAST UTILITIES	NU	23.74	-0.0021	0	0.0034	-0.0055	Sep-09

40	Oct-09	NORTHEAST UTILITIES	NU	23.05	-0.02907	0	0.0033	-0.0324	Oct-09
40	Nov-09	NORTHEAST UTILITIES	NU	24.11	0.056291	0.2375	0.0035	0.0528	Nov-09
40	Dec-09	NORTHEAST UTILITIES	NU	25.79	0.069681	0	0.0034	0.0663	Dec-09
40	Jan-10	NORTHEAST UTILITIES	NU	25.32	-0.01822	0	0.0036	-0.0218	Jan-10
40	Feb-10	NORTHEAST UTILITIES	NU	25.6	0.021179	0.25625	0.0033	0.0179	Feb-10
40	Mar-10	NORTHEAST UTILITIES	NU	27.64	0.079687	0	0.0040	0.0757	Mar-10
40	Apr-10	NORTHEAST UTILITIES	NU	27.79	0.005427	0	0.0038	0.0016	Apr-10
40	May-10	NORTHEAST UTILITIES	NU	25.95	-0.05699	0.25625	0.0034	-0.0604	May-10
40	Jun-10	NORTHEAST UTILITIES	NU	25.48	-0.01811	0	0.0037	-0.0218	Jun-10
40	Jul-10	NORTHEAST UTILITIES	NU	27.84	0.092622	0	0.0031	0.0895	Jul-10
40	Aug-10	NORTHEAST UTILITIES	NU	28.97	0.049793	0.25625	0.0032	0.0466	Aug-10
40	Sep-10	NORTHEAST UTILITIES	NU	29.57	0.020711	0	0.0026	0.0181	Sep-10
40	Oct-10	NORTHEAST UTILITIES	NU	31.28	0.057829	0	0.0027	0.0551	Oct-10
40	Nov-10	NORTHEAST UTILITIES	NU	31.1	0.002438	0.25625	0.0032	-0.0008	Nov-10
40	Dec-10	NORTHEAST UTILITIES	NU	31.88	0.02508	0	0.0032	0.0219	Dec-10
40	Jan-11	NORTHEAST UTILITIES	NU	32.92	0.032622	0	0.0035667	0.0291	Jan-11
40	Feb-11	NORTHEAST UTILITIES	NU	34.04	0.042376	0.275	0.0036833	0.0387	Feb-11
40	Mar-11	NORTHEAST UTILITIES	NU	34.6	0.016451	0	0.0035583	0.0129	Mar-11
40	Apr-11	NORTHEAST UTILITIES	NU	35.6	0.028902	0	0.0035667	0.0253	Apr-11
40	May-11	NORTHEAST UTILITIES	NU	35.24	-0.00239	0.275	0.0033417	-0.0057	May-11
40	Jun-11	NORTHEAST UTILITIES	NU	35.17	-0.00199	0	0.0032583	-0.0052	Jun-11
40	Jul-11	NORTHEAST UTILITIES	NU	34	-0.03327	0	0.0032917	-0.0366	Jul-11
40	Aug-11	NORTHEAST UTILITIES	NU	34.7	0.028676	0.275	0.0030417	0.0256	Aug-11
40	Sep-11	NORTHEAST UTILITIES	NU	33.65	-0.03026	0	0.0023583	-0.0326	Sep-11
40	Oct-11	NORTHEAST UTILITIES	NU	34.57	0.02734	0	0.0023917	0.0249	Oct-11
40	Nov-11	NORTHEAST UTILITIES	NU	34.61	0.001157	0	0.0022667	-0.0011	Nov-11
40	Dec-11	NORTHEAST UTILITIES	NU	36.07	0.05013	0.275	0.0024833	0.0476	Dec-11
40	Jan-12	NORTHEAST UTILITIES	NU	34.75	-0.0366	0	0.0021	-0.0387	Jan-12
40	Feb-12	NORTHEAST UTILITIES	NU	35.9	0.041547	0.29375	0.002	0.0395	Feb-12
40	Mar-12	NORTHEAST UTILITIES	NU	37.12	0.033983	0	0.0022	0.0318	Mar-12
40	Apr-12	NORTHEAST UTILITIES	NU	36.77	-0.00943	0	0.0025	-0.0119	Apr-12
40	May-12	NORTHEAST UTILITIES	NU	36.01	-0.01134	0.3425	0.0023	-0.0136	May-12
40	Jun-12	NORTHEAST UTILITIES	NU	38.81	0.077756	0	0.0018	0.0760	Jun-12
	Jul-12	NORTHEAST UTILITIES	NU	39.88	0.02757	0	0.002	0.0256	Jul-12
	Aug-12	NORTHEAST UTILITIES	NU	37.67	-0.04683	0.3425	0.0018	-0.0486	Aug-12
	Sep-12	NORTHEAST UTILITIES	NU	38.23	0.014866	0	0.0017	0.0132	Sep-12

Oct-12	NORTHEAST UTILITIES	NU	39.3	0.027988	0	0.0021	0.0259	Oct-12
Nov-12	NORTHEAST UTILITIES	NU	38.74	-0.00553	0.3425	0.0019	-0.0074	Nov-12
Dec-12	NORTHEAST UTILITIES	NU	39.08	0.008776	0	0.0019	0.0069	Dec-12
Jan-13	NORTHEAST UTILITIES	NU	40.73	0.042221	0	0.0022	0.0400	Jan-13
Feb-13	NORTHEAST UTILITIES	NU	41.51	0.028173	0.3675	0.0022	0.0260	Feb-13
Mar-13	NORTHEAST UTILITIES	NU	43.46	0.046977	0	0.0021	0.0449	Mar-13
Apr-13	NORTHEAST UTILITIES	NU	45.33	0.043028	0	0.0026	0.0404	Apr-13
May-13	NORTHEAST UTILITIES	NU	41.67	-0.07263	0.3675	0.0023	-0.0749	May-13
Jun-13	NORTHEAST UTILITIES	NU	42.02	0.008399	0	0.0024	0.0060	Jun-13
Jul-13	NORTHEAST UTILITIES	NU	44.41	0.056878	0	0.003	0.0539	Jul-13
Aug-13	NORTHEAST UTILITIES	NU	40.97	-0.07746	0	0.0028	-0.0803	Aug-13
Sep-13	NORTHEAST UTILITIES	NU	41.25	0.015804	0.3675	0.0029	0.0129	Sep-13
Oct-13	NORTHEAST UTILITIES	NU	42.89	0.039758	0	0.0029	0.0369	Oct-13
Nov-13	NORTHEAST UTILITIES	NU	41.08	-0.0422	0	0.0027	-0.0449	Nov-13
Dec-13	NORTHEAST UTILITIES	NU	42.39	0.040835	0.3675	0.0031	0.0377	Dec-13
Jan-14	NORTHEAST UTILITIES	NU	43.8	0.033263	0	0.0032	0.0301	Jan-14
Feb-14	NORTHEAST UTILITIES	NU	44.45	0.023801	0.3925	0.0026	0.0212	Feb-14
Mar-14	NORTHEAST UTILITIES	NU	45.5	0.023622	0	0.0029	0.0207	Mar-14
Apr-14	NORTHEAST UTILITIES	NU	47.26	0.038681	0	0.0028	0.0359	Apr-14
May-14	NORTHEAST UTILITIES	NU	45.4	-0.03105	0.3925	0.0028	-0.0339	May-14
Jun-14	NORTHEAST UTILITIES	NU	47.27	0.041189	0	0.0025	0.0387	Jun-14
Jul-14	NORTHEAST UTILITIES	NU	43.9	-0.07129	0	0.0027	-0.0740	Jul-14
Aug-14	NORTHEAST UTILITIES	NU	45.89	0.04533	0	0.0026	0.0427	Aug-14
Sep-14	NORTHEAST UTILITIES	NU	44.3	-0.0261	0.3925	0.0023	-0.0284	Sep-14
Oct-14	NORTHEAST UTILITIES	NU	49.35	0.113995	0	0.0025	0.1115	Oct-14
Nov-14	NORTHEAST UTILITIES	NU	50.64	0.02614	0	0.0023	0.0238	Nov-14
Dec-14	NORTHEAST UTILITIES	NU	53.52	0.064623	0.3925	0.0022	0.0624	Dec-14
Jan-15	NORTHEAST UTILITIES	NU	55.58	0.03849	0	0.002	0.0365	Jan-15
Feb-15	NORTHEAST UTILITIES	NU	51.75	-0.0614	0.4175	0.0015	-0.0629	Feb-15
Mar-15	NORTHEAST UTILITIES	NU	50.52	-0.02377	0	0.0021	-0.0259	Mar-15
Apr-15	NORTHEAST UTILITIES	NU	48.76	-0.03484	0	0.0019	-0.0367	Apr-15
May-15	NORTHEAST UTILITIES	NU	49.25	0.018612	0.4175	0.002	0.0166	May-15
Jun-15	NORTHEAST UTILITIES	NU	45.41	-0.07797	0	0.0023	-0.08027	Jun-15
Jul-15	NORTHEAST UTILITIES	NU	49.72	0.094913	0	0.0024	0.092513	Jul-15
Aug-15	NORTHEAST UTILITIES	NU	47.24	-0.04988	0	0.0022	-0.052079	Aug-15
Sep-15	NORTHEAST UTILITIES	NU	50.62	0.080387	0.4175	0.0021	0.0782874	Sep-15

Oct-15	NORTHEAST UTILITIES	NU	50.94	0.006322	0	0.0021	0.0042216	Oct-15
Nov-15	NORTHEAST UTILITIES	NU	50.95	0.000196	0	0.0022	-0.002004	Nov-15
Dec-15	NORTHEAST UTILITIES	NU	51.07	0.01055	0.4175	0.0022	0.0083496	Dec-15
Jan-16	NORTHEAST UTILITIES	NU	53.8	0.053456	0	0.0021	0.051356	Jan-16
Feb-16	NORTHEAST UTILITIES	NU	54.3	0.017565	0.445	0.002	0.0155651	Feb-16
Mar-16	NORTHEAST UTILITIES	NU	58.34	0.074401	0	0.0018	0.0726015	Mar-16
Apr-16	NORTHEAST UTILITIES	NU	56.44	-0.03257	0	0.0017	-0.034268	Apr-16
May-16	NORTHEAST UTILITIES	NU	55.24	-0.01338	0.445	0.002	-0.015377	May-16
Jun-16	NORTHEAST UTILITIES	NU	59.9	0.084359	0	0.0018	0.0825592	Jun-16
Jul-16	NORTHEAST UTILITIES	NU	58.49	-0.02354	0	0.0014	-0.024939	Jul-16
Aug-16	NORTHEAST UTILITIES	NU	53.97	-0.07728	0	0.0016	-0.078878	Aug-16
Sep-16	NORTHEAST UTILITIES	NU	54.18	0.012136	0.445	0.0015	0.0106364	Sep-16
Oct-16	NORTHEAST UTILITIES	NU	55.06	0.016242	0	0.0016	0.0146422	Oct-16
Nov-16	NORTHEAST UTILITIES	NU	51.62	-0.06248	0	0.0018	-0.064277	Nov-16
Dec-16	NORTHEAST UTILITIES	NU	55.23	0.078555	0.445	0.0022	0.0763548	Dec-16
Jan-17	NORTHEAST UTILITIES	NU	55.32	0.00163	0	0.0024	-0.00077	Jan-17
Feb-17	NORTHEAST UTILITIES	NU	58.66	0.068962	0.475	0.0021	0.0668624	Feb-17
Mar-17	NORTHEAST UTILITIES	NU	58.78	0.002046	0	0.0023	-0.000254	Mar-17
Apr-17	NORTHEAST UTILITIES	NU	59.4	0.010548	0	0.0021	0.0084478	Apr-17
May-17	NORTHEAST UTILITIES	NU	62.07	0.052946	0.475	0.0024	0.0505461	May-17
Jun-17	NORTHEAST UTILITIES	NU	60.71	-0.02191	0	0.0021	-0.024011	Jun-17
Jul-17	NORTHEAST UTILITIES	NU	60.79	0.001318	0	0.0022	-0.000882	Jul-17
Aug-17	NORTHEAST UTILITIES	NU	63	0.036355	0	0.0022	0.0341547	Aug-17
Sep-17	NORTHEAST UTILITIES	NU	60.44	-0.0331	0.475	0.0019	-0.034995	Sep-17
Oct-17	NORTHEAST UTILITIES	NU	62.64	0.0364	0	0.0022	0.0341997	Oct-17
Nov-17	NORTHEAST UTILITIES	NU	64.85	0.035281	0	0.0021	0.033181	Nov-17
Dec-17	NORTHEAST UTILITIES	NU	63.18	-0.01843	0.475	0.002	-0.020427	Dec-17
Jan-18	NORTHEAST UTILITIES	NU	63.09	-0.00142	0	0.0024	-0.003825	Jan-18
Feb-18	NORTHEAST UTILITIES	NU	57	-0.09653	0	0.0022	-0.098729	Feb-18
Mar-18	NORTHEAST UTILITIES	NU	58.92	0.042544	0.505	0.0024	0.0401439	Mar-18
Apr-18	NORTHEAST UTILITIES	NU	60.25	0.022573	0	0.0025	0.020073	Apr-18
May-18	NORTHEAST UTILITIES	NU	57.08	-0.04423	0.505	0.0025	-0.046732	May-18
Jun-18	NORTHEAST UTILITIES	NU	58.61	0.026804	0	0.0023	0.0245045	Jun-18
Jul-18	NORTHEAST UTILITIES	NU	60.72	0.036001	0	0.0025	0.0335007	Jul-18
Aug-18	NORTHEAST UTILITIES	NU	62.43	0.028162	0	0.0025	0.0256621	Aug-18
Sep-18	NORTHEAST UTILITIES	NU	61.44	-0.00777	0.505	0.0022	-0.009969	Sep-18

Oct-18	NORTHEAST UTILITIES	NU	63.26	0.029622	0	0.003	0.0266224	Oct-18
Nov-18	NORTHEAST UTILITIES	NU	68.34	0.080304	0	0.0028	0.0775035	Nov-18
Dec-18	NORTHEAST UTILITIES	NU	65.04	-0.0409	0.505	0.0027	-0.043598	Dec-18
Jan-19	NORTHEAST UTILITIES	NU	69.41	0.067189	0	0.0025	0.0646894	Jan-19
Feb-19	NORTHEAST UTILITIES	NU	69.81	0.005763	0	0.0022	0.0035629	Feb-19
Mar-19	NORTHEAST UTILITIES	NU	70.95	0.023994	0.535	0.0023	0.0216937	Mar-19
Apr-19	NORTHEAST UTILITIES	NU	71.66	0.010007	0	0.0023	0.007707	Apr-19
May-19	NORTHEAST UTILITIES	NU	73.84	0.037887	0.535	0.0023	0.0355872	May-19
Jun-19	NORTHEAST UTILITIES	NU	75.76	0.026002	0	0.0018	0.0242022	Jun-19
Jul-19	NORTHEAST UTILITIES	NU	75.86	0.00132	0	0.0021	-0.00078	Jul-19
Aug-19	NORTHEAST UTILITIES	NU	80.13	0.056288	0	0.0019	0.0543879	Aug-19
Sep-19	NORTHEAST UTILITIES	NU	85.47	0.073318	0.535	0.0015	0.0718184	Sep-19
Oct-19	NORTHEAST UTILITIES	NU	83.74	-0.02024	0	0.0016	-0.021841	Oct-19
Nov-19	NORTHEAST UTILITIES	NU	82.64	-0.01314	0	0.0016	-0.014736	Nov-19
Dec-19	NORTHEAST UTILITIES	NU	85.07	0.035879	0.535	0.0018	0.0340785	Dec-19
Jan-20	NORTHEAST UTILITIES	NU	92.44	0.086635	0	0.002	0.0846345	Jan-20
Feb-20	NORTHEAST UTILITIES	NU	86.46	-0.06469	0	0.0015	-0.066191	Feb-20
Mar-20	NORTHEAST UTILITIES	NU	78.21	-0.08886	0.5675	0.00123	-0.090086	Mar-20
Apr-20	NORTHEAST UTILITIES	NU	80.7	0.031837	0	0.0009	0.0309374	Apr-20
May-20	NORTHEAST UTILITIES	NU	83.7	0.044207	0.5675	0.0009	0.0433069	May-20
Jun-20	NORTHEAST UTILITIES	NU	83.27	-0.00514	0	0.0009	-0.006037	Jun-20
Jul-20	NORTHEAST UTILITIES	NU	90.07	0.081662	0	0.001	0.0806621	Jul-20
Aug-20	NORTHEAST UTILITIES	NU	85.71	-0.04841	0	0.0008	-0.049207	Aug-20
Sep-20	NORTHEAST UTILITIES	NU	83.55	-0.01858	0.5675	0	-0.01858	Sep-20
Oct-20	NORTHEAST UTILITIES	NU	87.27	0.044524	0	0.0009	0.0436242	Oct-20
Nov-20	NORTHEAST UTILITIES	NU	87.51	0.00275	0	0.0011	0.0016501	Nov-20
Dec-20	NORTHEAST UTILITIES	NU	86.51	-0.00494	0.5675	0.0011	-0.006042	Dec-20
Jan-21	NORTHEAST UTILITIES	NU	87.5	0.011444	0	0.0015167	0.0099271	Jan-21
Feb-21	NORTHEAST UTILITIES	NU	79.48	-0.09166	0	0.0017	-0.093357	Feb-21
Mar-21	NORTHEAST UTILITIES	NU	86.59	0.097037	0.6025	0.00195	0.095087	Mar-21
Apr-21	NORTHEAST UTILITIES	NU	86.22	-0.00427	0	0.0019167	-0.00619	Apr-21
May-21	NORTHEAST UTILITIES	NU	81.19	-0.05135	0.6025	0.0019333	-0.053285	May-21
Jun-21	NORTHEAST UTILITIES	NU	80.24	-0.0117	0	0.0018	-0.013501	Jun-21
Jul-21	NORTHEAST UTILITIES	NU	86.27	0.07515	0	0.0016167	0.0735329	Jul-21
Aug-21	NORTHEAST UTILITIES	NU	90.73	0.051698	0	0.0016	0.0500982	Aug-21

Unique Index Number	Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP	Trading Date
	Jan-26						0.0031		Jan-26
	Feb-26						0.0028		Feb-26
	Mar-26						0.0032		Mar-26
	Apr-26						0.0030		Apr-26
	May-26						0.0028		May-26
	Jun-26						0.0033		Jun-26
	Jul-26						0.0031		Jul-26
	Aug-26						0.0031		Aug-26
	Sep-26						0.0030		Sep-26
	Oct-26						0.0030		Oct-26
	Nov-26						0.0031		Nov-26
	Dec-26						0.0030		Dec-26
	Jan-27						0.0030		Jan-27
	Feb-27						0.0027		Feb-27
	Mar-27						0.0029		Mar-27
	Apr-27						0.0027		Apr-27
	May-27						0.0028		May-27
	Jun-27						0.0027		Jun-27
	Jul-27						0.0027		Jul-27
	Aug-27						0.0029		Aug-27
	Sep-27						0.0027		Sep-27
	Oct-27						0.0028		Oct-27
	Nov-27						0.0027		Nov-27
	Dec-27						0.0027		Dec-27
	Jan-28						0.0027		Jan-28
	Feb-28						0.0025		Feb-28
	Mar-28						0.0027		Mar-28
	Apr-28						0.0026		Apr-28
	May-28						0.0027		May-28
	Jun-28						0.0027		Jun-28
	Jul-28						0.0027		Jul-28
	Aug-28						0.0029		Aug-28
	Sep-28						0.0027		Sep-28
	Oct-28						0.0030		Oct-28

Nov-28	0.0027	Nov-28
Dec-28	0.0029	Dec-28
Jan-29	0.0029	Jan-29
Feb-29	0.0027	Feb-29
Mar-29	0.0028	Mar-29
Apr-29	0.0034	Apr-29
May-29	0.0030	May-29
Jun-29	0.0029	Jun-29
Jul-29	0.0032	Jul-29
Aug-29	0.0030	Aug-29
Sep-29	0.0032	Sep-29
Oct-29	0.0031	Oct-29
Nov-29	0.0026	Nov-29
Dec-29	0.0031	Dec-29
Jan-30	0.0029	Jan-30
Feb-30	0.0026	Feb-30
Mar-30	0.0029	Mar-30
Apr-30	0.0027	Apr-30
May-30	0.0027	May-30
Jun-30	0.0029	Jun-30
Jul-30	0.0028	Jul-30
Aug-30	0.0026	Aug-30
Sep-30	0.0029	Sep-30
Oct-30	0.0027	Oct-30
Nov-30	0.0026	Nov-30
Dec-30	0.0028	Dec-30
Jan-31	0.0028	Jan-31
Feb-31	0.0026	Feb-31
Mar-31	0.0029	Mar-31
Apr-31	0.0027	Apr-31
May-31	0.0026	May-31
Jun-31	0.0028	Jun-31
Jul-31	0.0027	Jul-31
Aug-31	0.0027	Aug-31
Sep-31	0.0027	Sep-31
Oct-31	0.0029	Oct-31
Nov-31	0.0031	Nov-31

Dec-31	0.0032	Dec-31
Jan-32	0.0032	Jan-32
Feb-32	0.0032	Feb-32
Mar-32	0.0031	Mar-32
Apr-32	0.0030	Apr-32
May-32	0.0028	May-32
Jun-32	0.0028	Jun-32
Jul-32	0.0028	Jul-32
Aug-32	0.0028	Aug-32
Sep-32	0.0026	Sep-32
Oct-32	0.0027	Oct-32
Nov-32	0.0026	Nov-32
Dec-32	0.0027	Dec-32
Jan-33	0.0027	Jan-33
Feb-33	0.0023	Feb-33
Mar-33	0.0027	Mar-33
Apr-33	0.0025	Apr-33
May-33	0.0028	May-33
Jun-33	0.0025	Jun-33
Jul-33	0.0026	Jul-33
Aug-33	0.0026	Aug-33
Sep-33	0.0025	Sep-33
Oct-33	0.0026	Oct-33
Nov-33	0.0025	Nov-33
Dec-33	0.0028	Dec-33
Jan-34	0.0029	Jan-34
Feb-34	0.0024	Feb-34
Mar-34	0.0027	Mar-34
Apr-34	0.0025	Apr-34
May-34	0.0025	May-34
Jun-34	0.0024	Jun-34
Jul-34	0.0024	Jul-34
Aug-34	0.0024	Aug-34
Sep-34	0.0023	Sep-34
Oct-34	0.0027	Oct-34
Nov-34	0.0025	Nov-34
Dec-34	0.0025	Dec-34

Jan-35	0.0025	Jan-35
Feb-35	0.0021	Feb-35
Mar-35	0.0022	Mar-35
Apr-35	0.0023	Apr-35
May-35	0.0023	May-35
Jun-35	0.0022	Jun-35
Jul-35	0.0024	Jul-35
Aug-35	0.0023	Aug-35
Sep-35	0.0023	Sep-35
Oct-35	0.0023	Oct-35
Nov-35	0.0024	Nov-35
Dec-35	0.0024	Dec-35
Jan-36	0.0024	Jan-36
Feb-36	0.0023	Feb-36
Mar-36	0.0024	Mar-36
Apr-36	0.0022	Apr-36
May-36	0.0022	May-36
Jun-36	0.0024	Jun-36
Jul-36	0.0023	Jul-36
Aug-36	0.0023	Aug-36
Sep-36	0.0021	Sep-36
Oct-36	0.0023	Oct-36
Nov-36	0.0022	Nov-36
Dec-36	0.0022	Dec-36
Jan-37	0.0021	Jan-37
Feb-37	0.0020	Feb-37
Mar-37	0.0022	Mar-37
Apr-37	0.0023	Apr-37
May-37	0.0022	May-37
Jun-37	0.0025	Jun-37
Jul-37	0.0024	Jul-37
Aug-37	0.0023	Aug-37
Sep-37	0.0023	Sep-37
Oct-37	0.0023	Oct-37
Nov-37	0.0024	Nov-37
Dec-37	0.0023	Dec-37
Jan-38	0.0023	Jan-38

Feb-38	0.0021	Feb-38
Mar-38	0.0023	Mar-38
Apr-38	0.0022	Apr-38
May-38	0.0022	May-38
Jun-38	0.0021	Jun-38
Jul-38	0.0021	Jul-38
Aug-38	0.0022	Aug-38
Sep-38	0.0021	Sep-38
Oct-38	0.0022	Oct-38
Nov-38	0.0021	Nov-38
Dec-38	0.0022	Dec-38
Jan-39	0.0021	Jan-39
Feb-39	0.0019	Feb-39
Mar-39	0.0021	Mar-39
Apr-39	0.0019	Apr-39
May-39	0.0020	May-39
Jun-39	0.0018	Jun-39
Jul-39	0.0019	Jul-39
Aug-39	0.0018	Aug-39
Sep-39	0.0019	Sep-39
Oct-39	0.0023	Oct-39
Nov-39	0.0020	Nov-39
Dec-39	0.0019	Dec-39
Jan-40	0.0020	Jan-40
Feb-40	0.0018	Feb-40
Mar-40	0.0019	Mar-40
Apr-40	0.0018	Apr-40
May-40	0.0019	May-40
Jun-40	0.0019	Jun-40
Jul-40	0.0020	Jul-40
Aug-40	0.0019	Aug-40
Sep-40	0.0018	Sep-40
Oct-40	0.0018	Oct-40
Nov-40	0.0018	Nov-40
Dec-40	0.0017	Dec-40
Jan-41	0.0016	Jan-41
Feb-41	0.0016	Feb-41

Mar-41	0.0018	Mar-41
Apr-41	0.0017	Apr-41
May-41	0.0017	May-41
Jun-41	0.0016	Jun-41
Jul-41	0.0016	Jul-41
Aug-41	0.0016	Aug-41
Sep-41	0.0016	Sep-41
Oct-41	0.0016	Oct-41
Nov-41	0.0014	Nov-41
Dec-41	0.0016	Dec-41
Jan-42	0.0021	Jan-42
Feb-42	0.0019	Feb-42
Mar-42	0.0021	Mar-42
Apr-42	0.0020	Apr-42
May-42	0.0019	May-42
Jun-42	0.0021	Jun-42
Jul-42	0.0021	Jul-42
Aug-42	0.0021	Aug-42
Sep-42	0.0020	Sep-42
Oct-42	0.0021	Oct-42
Nov-42	0.0020	Nov-42
Dec-42	0.0021	Dec-42
Jan-43	0.0020	Jan-43
Feb-43	0.0019	Feb-43
Mar-43	0.0021	Mar-43
Apr-43	0.0020	Apr-43
May-43	0.0019	May-43
Jun-43	0.0021	Jun-43
Jul-43	0.0021	Jul-43
Aug-43	0.0021	Aug-43
Sep-43	0.0020	Sep-43
Oct-43	0.0020	Oct-43
Nov-43	0.0021	Nov-43
Dec-43	0.0021	Dec-43
Jan-44	0.0021	Jan-44
Feb-44	0.0020	Feb-44
Mar-44	0.0021	Mar-44

Apr-44	0.0020	Apr-44
May-44	0.0022	May-44
Jun-44	0.0020	Jun-44
Jul-44	0.0021	Jul-44
Aug-44	0.0021	Aug-44
Sep-44	0.0020	Sep-44
Oct-44	0.0021	Oct-44
Nov-44	0.0020	Nov-44
Dec-44	0.0020	Dec-44
Jan-45	0.0021	Jan-45
Feb-45	0.0018	Feb-45
Mar-45	0.0020	Mar-45
Apr-45	0.0019	Apr-45
May-45	0.0019	May-45
Jun-45	0.0019	Jun-45
Jul-45	0.0018	Jul-45
Aug-45	0.0019	Aug-45
Sep-45	0.0018	Sep-45
Oct-45	0.0019	Oct-45
Nov-45	0.0018	Nov-45
Dec-45	0.0018	Dec-45
Jan-46	0.0017	Jan-46
Feb-46	0.0015	Feb-46
Mar-46	0.0016	Mar-46
Apr-46	0.0017	Apr-46
May-46	0.0018	May-46
Jun-46	0.0016	Jun-46
Jul-46	0.0019	Jul-46
Aug-46	0.0017	Aug-46
Sep-46	0.0018	Sep-46
Oct-46	0.0019	Oct-46
Nov-46	0.0018	Nov-46
Dec-46	0.0019	Dec-46
Jan-47	0.0018	Jan-47
Feb-47	0.0016	Feb-47
Mar-47	0.0018	Mar-47
Apr-47	0.0017	Apr-47

May-47	0.0017	May-47
Jun-47	0.0019	Jun-47
Jul-47	0.0018	Jul-47
Aug-47	0.0017	Aug-47
Sep-47	0.0018	Sep-47
Oct-47	0.0018	Oct-47
Nov-47	0.0017	Nov-47
Dec-47	0.0021	Dec-47
Jan-48	0.0020	Jan-48
Feb-48	0.0019	Feb-48
Mar-48	0.0022	Mar-48
Apr-48	0.0020	Apr-48
May-48	0.0018	May-48
Jun-48	0.0021	Jun-48
Jul-48	0.0019	Jul-48
Aug-48	0.0021	Aug-48
Sep-48	0.0020	Sep-48
Oct-48	0.0019	Oct-48
Nov-48	0.0021	Nov-48
Dec-48	0.0020	Dec-48
Jan-49	0.0020	Jan-49
Feb-49	0.0018	Feb-49
Mar-49	0.0019	Mar-49
Apr-49	0.0018	Apr-49
May-49	0.0020	May-49
Jun-49	0.0019	Jun-49
Jul-49	0.0017	Jul-49
Aug-49	0.0019	Aug-49
Sep-49	0.0017	Sep-49
Oct-49	0.0018	Oct-49
Nov-49	0.0017	Nov-49
Dec-49	0.0017	Dec-49
Jan-50	0.0018	Jan-50
Feb-50	0.0016	Feb-50
Mar-50	0.0018	Mar-50
Apr-50	0.0016	Apr-50
May-50	0.0019	May-50

Jun-50	0.0017	Jun-50
Jul-50	0.0018	Jul-50
Aug-50	0.0018	Aug-50
Sep-50	0.0017	Sep-50
Oct-50	0.0019	Oct-50
Nov-50	0.0018	Nov-50
Dec-50	0.0018	Dec-50
Jan-51	0.0020	Jan-51
Feb-51	0.0017	Feb-51
Mar-51	0.0019	Mar-51
Apr-51	0.0020	Apr-51
May-51	0.0021	May-51
Jun-51	0.0020	Jun-51
Jul-51	0.0023	Jul-51
Aug-51	0.0021	Aug-51
Sep-51	0.0019	Sep-51
Oct-51	0.0023	Oct-51
Nov-51	0.0021	Nov-51
Dec-51	0.0022	Dec-51
Jan-52	0.0023	Jan-52
Feb-52	0.0021	Feb-52
Mar-52	0.0023	Mar-52
Apr-52	0.0022	Apr-52
May-52	0.0020	May-52
Jun-52	0.0022	Jun-52
Jul-52	0.0022	Jul-52
Aug-52	0.0021	Aug-52
Sep-52	0.0023	Sep-52
Oct-52	0.0023	Oct-52
Nov-52	0.0021	Nov-52
Dec-52	0.0024	Dec-52
Jan-53	0.0023	Jan-53
Feb-53	0.0021	Feb-53
Mar-53	0.0025	Mar-53
Apr-53	0.0024	Apr-53
May-53	0.0024	May-53
Jun-53	0.0027	Jun-53

Jul-53	0.0025	Jul-53
Aug-53	0.0025	Aug-53
Sep-53	0.0025	Sep-53
Oct-53	0.0023	Oct-53
Nov-53	0.0024	Nov-53
Dec-53	0.0024	Dec-53
Jan-54	0.0023	Jan-54
Feb-54	0.0022	Feb-54
Mar-54	0.0025	Mar-54
Apr-54	0.0022	Apr-54
May-54	0.0020	May-54
Jun-54	0.0025	Jun-54
Jul-54	0.0022	Jul-54
Aug-54	0.0023	Aug-54
Sep-54	0.0022	Sep-54
Oct-54	0.0021	Oct-54
Nov-54	0.0023	Nov-54
Dec-54	0.0023	Dec-54
Jan-55	0.0022	Jan-55
Feb-55	0.0022	Feb-55
Mar-55	0.0024	Mar-55
Apr-55	0.0022	Apr-55
May-55	0.0025	May-55
Jun-55	0.0023	Jun-55
Jul-55	0.0023	Jul-55
Aug-55	0.0027	Aug-55
Sep-55	0.0024	Sep-55
Oct-55	0.0025	Oct-55
Nov-55	0.0024	Nov-55
Dec-55	0.0024	Dec-55
Jan-56	0.0025	Jan-56
Feb-56	0.0023	Feb-56
Mar-56	0.0023	Mar-56
Apr-56	0.0026	Apr-56
May-56	0.0026	May-56
Jun-56	0.0023	Jun-56
Jul-56	0.0026	Jul-56

Aug-56	0.0026	Aug-56
Sep-56	0.0025	Sep-56
Oct-56	0.0029	Oct-56
Nov-56	0.0027	Nov-56
Dec-56	0.0028	Dec-56
Jan-57	0.0029	Jan-57
Feb-57	0.0025	Feb-57
Mar-57	0.0026	Mar-57
Apr-57	0.0029	Apr-57
May-57	0.0029	May-57
Jun-57	0.0025	Jun-57
Jul-57	0.0033	Jul-57
Aug-57	0.0030	Aug-57
Sep-57	0.0031	Sep-57
Oct-57	0.0031	Oct-57
Nov-57	0.0029	Nov-57
Dec-57	0.0029	Dec-57
Jan-58	0.0027	Jan-58
Feb-58	0.0025	Feb-58
Mar-58	0.0027	Mar-58
Apr-58	0.0026	Apr-58
May-58	0.0024	May-58
Jun-58	0.0027	Jun-58
Jul-58	0.0027	Jul-58
Aug-58	0.0027	Aug-58
Sep-58	0.0032	Sep-58
Oct-58	0.0032	Oct-58
Nov-58	0.0028	Nov-58
Dec-58	0.0033	Dec-58
Jan-59	0.0031	Jan-59
Feb-59	0.0031	Feb-59
Mar-59	0.0035	Mar-59
Apr-59	0.0033	Apr-59
May-59	0.0033	May-59
Jun-59	0.0036	Jun-59
Jul-59	0.0035	Jul-59
Aug-59	0.0035	Aug-59

Sep-59	0.0034	Sep-59
Oct-59	0.0035	Oct-59
Nov-59	0.0035	Nov-59
Dec-59	0.0036	Dec-59
Jan-60	0.0035	Jan-60
Feb-60	0.0037	Feb-60
Mar-60	0.0036	Mar-60
Apr-60	0.0032	Apr-60
May-60	0.0037	May-60
Jun-60	0.0034	Jun-60
Jul-60	0.0032	Jul-60
Aug-60	0.0034	Aug-60
Sep-60	0.0032	Sep-60
Oct-60	0.0033	Oct-60
Nov-60	0.0032	Nov-60
Dec-60	0.0033	Dec-60
Jan-61	0.0033	Jan-61
Feb-61	0.0030	Feb-61
Mar-61	0.0031	Mar-61
Apr-61	0.0031	Apr-61
May-61	0.0034	May-61
Jun-61	0.0032	Jun-61
Jul-61	0.0033	Jul-61
Aug-61	0.0033	Aug-61
Sep-61	0.0032	Sep-61
Oct-61	0.0034	Oct-61
Nov-61	0.0032	Nov-61
Dec-61	0.0031	Dec-61
Jan-62	0.0037	Jan-62
Feb-62	0.0032	Feb-62
Mar-62	0.0033	Mar-62
Apr-62	0.0033	Apr-62
May-62	0.0032	May-62
Jun-62	0.0030	Jun-62
Jul-62	0.0034	Jul-62
Aug-62	0.0034	Aug-62
Sep-62	0.0030	Sep-62

Oct-62	0.0035	Oct-62
Nov-62	0.0031	Nov-62
Dec-62	0.0032	Dec-62
Jan-63	0.0032	Jan-63
Feb-63	0.0029	Feb-63
Mar-63	0.0031	Mar-63
Apr-63	0.0034	Apr-63
May-63	0.0033	May-63
Jun-63	0.0030	Jun-63
Jul-63	0.0036	Jul-63
Aug-63	0.0033	Aug-63
Sep-63	0.0034	Sep-63
Oct-63	0.0034	Oct-63
Nov-63	0.0032	Nov-63
Dec-63	0.0036	Dec-63
Jan-64	0.0035	Jan-64
Feb-64	0.0032	Feb-64
Mar-64	0.0037	Mar-64
Apr-64	0.0035	Apr-64
May-64	0.0032	May-64
Jun-64	0.0038	Jun-64
Jul-64	0.0035	Jul-64
Aug-64	0.0035	Aug-64
Sep-64	0.0034	Sep-64
Oct-64	0.0034	Oct-64
Nov-64	0.0035	Nov-64
Dec-64	0.0035	Dec-64
Jan-65	0.0033	Jan-65
Feb-65	0.0032	Feb-65
Mar-65	0.0038	Mar-65
Apr-65	0.0033	Apr-65
May-65	0.0033	May-65
Jun-65	0.0038	Jun-65
Jul-65	0.0034	Jul-65
Aug-65	0.0037	Aug-65
Sep-65	0.0035	Sep-65
Oct-65	0.0034	Oct-65

Nov-65	0.0037	Nov-65
Dec-65	0.0037	Dec-65
Jan-66	0.0038	Jan-66
Feb-66	0.0034	Feb-66
Mar-66	0.0040	Mar-66
Apr-66	0.0036	Apr-66
May-66	0.0041	May-66
Jun-66	0.0039	Jun-66
Jul-66	0.0038	Jul-66
Aug-66	0.0043	Aug-66
Sep-66	0.0041	Sep-66
Oct-66	0.0040	Oct-66
Nov-66	0.0038	Nov-66
Dec-66	0.0039	Dec-66
Jan-67	0.0040	Jan-67
Feb-67	0.0034	Feb-67
Mar-67	0.0039	Mar-67
Apr-67	0.0035	Apr-67
May-67	0.0043	May-67
Jun-67	0.0039	Jun-67
Jul-67	0.0043	Jul-67
Aug-67	0.0042	Aug-67
Sep-67	0.0040	Sep-67
Oct-67	0.0045	Oct-67
Nov-67	0.0045	Nov-67
Dec-67	0.0044	Dec-67
Jan-68	0.0050	Jan-68
Feb-68	0.0042	Feb-68
Mar-68	0.0043	Mar-68
Apr-68	0.0049	Apr-68
May-68	0.0046	May-68
Jun-68	0.0042	Jun-68
Jul-68	0.0048	Jul-68
Aug-68	0.0042	Aug-68
Sep-68	0.0044	Sep-68
Oct-68	0.0045	Oct-68
Nov-68	0.0043	Nov-68

Dec-68	0.0049	Dec-68
Jan-69	0.0050	Jan-69
Feb-69	0.0046	Feb-69
Mar-69	0.0047	Mar-69
Apr-69	0.0055	Apr-69
May-69	0.0047	May-69
Jun-69	0.0055	Jun-69
Jul-69	0.0052	Jul-69
Aug-69	0.0048	Aug-69
Sep-69	0.0055	Sep-69
Oct-69	0.0057	Oct-69
Nov-69	0.0049	Nov-69
Dec-69	0.0060	Dec-69
Jan-70	0.0056	Jan-70
Feb-70	0.0052	Feb-70
Mar-70	0.0056	Mar-70
Apr-70	0.0054	Apr-70
May-70	0.0055	May-70
Jun-70	0.0064	Jun-70
Jul-70	0.0059	Jul-70
Aug-70	0.0057	Aug-70
Sep-70	0.0056	Sep-70
Oct-70	0.0055	Oct-70
Nov-70	0.0058	Nov-70
Dec-70	0.0053	Dec-70
Jan-71	0.0051	Jan-71
Feb-71	0.0046	Feb-71
Mar-71	0.0056	Mar-71
Apr-71	0.0048	Apr-71
May-71	0.0047	May-71
Jun-71	0.0056	Jun-71
Jul-71	0.0052	Jul-71
Aug-71	0.0055	Aug-71
Sep-71	0.0049	Sep-71
Oct-71	0.0047	Oct-71
Nov-71	0.0051	Nov-71
Dec-71	0.0050	Dec-71

	Jan-72						0.0050		Jan-72
	Feb-72						0.0047		Feb-72
	Mar-72						0.0049		Mar-72
	Apr-72						0.0048		Apr-72
	May-72						0.0055		May-72
	Jun-72						0.0049		Jun-72
	Jul-72						0.0051		Jul-72
	Aug-72						0.0049		Aug-72
	Sep-72						0.0047		Sep-72
	Oct-72						0.0052		Oct-72
	Nov-72						0.0048		Nov-72
38	Dec-72	MADISON GAS & ELECTRIC CO	MDSN	**-15.375**	-66	0	0.0045		Dec-72
38	Jan-73	MADISON GAS & ELECTRIC CO	MDSN	**-15.25**	-0.00813	0	0.0054	-0.0135	Jan-73
38	Feb-73	MADISON GAS & ELECTRIC CO	MDSN	**-14.875**	-0.00754	0.26	0.0051	-0.0126	Feb-73
38	Mar-73	MADISON GAS & ELECTRIC CO	MDSN	**-14.75**	-0.0084	0	0.0056	-0.0140	Mar-73
38	Apr-73	MADISON GAS & ELECTRIC CO	MDSN	**-14.5**	-0.01695	0	0.0057	-0.0226	Apr-73
38	May-73	MADISON GAS & ELECTRIC CO	MDSN	**-14.625**	0.027241	0.27	0.0058	0.0214	May-73
38	Jun-73	MADISON GAS & ELECTRIC CO	MDSN	**-14.75**	0.008547	0	0.0055	0.0030	Jun-73
38	Jul-73	MADISON GAS & ELECTRIC CO	MDSN	**-14.5**	-0.01695	0	0.0061	-0.0230	Jul-73
38	Aug-73	MADISON GAS & ELECTRIC CO	MDSN	**-14.125**	-0.00724	0.27	0.0062	-0.0134	Aug-73
38	Sep-73	MADISON GAS & ELECTRIC CO	MDSN	**-14.375**	0.017699	0	0.0055	0.0122	Sep-73
38	Oct-73	MADISON GAS & ELECTRIC CO	MDSN	**-14.75**	0.026087	0	0.0063	0.0198	Oct-73
38	Nov-73	MADISON GAS & ELECTRIC CO	MDSN	**-11.75**	-0.18509	0.27	0.0056	-0.1907	Nov-73
38	Dec-73	MADISON GAS & ELECTRIC CO	MDSN	**-13.625**	0.159574	0	0.0060	0.1536	Dec-73
38	Jan-74	MADISON GAS & ELECTRIC CO	MDSN	**-14.75**	0.082569	0	0.0061	0.0765	Jan-74
38	Feb-74	MADISON GAS & ELECTRIC CO	MDSN	**-15.125**	0.045763	0.3	0.0055	0.0403	Feb-74
38	Mar-74	MADISON GAS & ELECTRIC CO	MDSN	**-14.625**	-0.03306	0	0.0058	-0.0389	Mar-74
38	Apr-74	MADISON GAS & ELECTRIC CO	MDSN	**-14**	-0.04274	0	0.0068	-0.0495	Apr-74
38	May-74	MADISON GAS & ELECTRIC CO	MDSN	**-13.25**	-0.03214	0.3	0.0068	-0.0389	May-74
38	Jun-74	MADISON GAS & ELECTRIC CO	MDSN	**-12.375**	-0.06604	0	0.0061	-0.0721	Jun-74
38	Jul-74	MADISON GAS & ELECTRIC CO	MDSN	**-12.75**	0.030303	0	0.0072	0.0231	Jul-74
38	Aug-74	MADISON GAS & ELECTRIC CO	MDSN	**-12.25**	-0.01569	0.3	0.0065	-0.0222	Aug-74
38	Sep-74	MADISON GAS & ELECTRIC CO	MDSN	**-11.625**	-0.05102	0	0.0071	-0.0581	Sep-74
38	Oct-74	MADISON GAS & ELECTRIC CO	MDSN	**-13.5**	0.16129	0	0.0070	0.1543	Oct-74
38	Nov-74	MADISON GAS & ELECTRIC CO	MDSN	**-12.75**	-0.03333	0.3	0.0062	-0.0395	Nov-74
38	Dec-74	MADISON GAS & ELECTRIC CO	MDSN	**-11.5**	-0.09804	0	0.0067	-0.1047	Dec-74
38	Jan-75	MADISON GAS & ELECTRIC CO	MDSN	**-12.25**	0.065217	0	0.0068	0.0584	Jan-75

38	Feb-75	MADISON GAS & ELECTRIC CO	MDSN	**-12.625**	0.055102	0.3	0.0060	0.0491	Feb-75
38	Mar-75	MADISON GAS & ELECTRIC CO	MDSN	**-11.75**	-0.06931	0	0.0066	-0.0759	Mar-75
38	Apr-75	MADISON GAS & ELECTRIC CO	MDSN	**-11.125**	-0.05319	0	0.0067	-0.0599	Apr-75
38	May-75	MADISON GAS & ELECTRIC CO	MDSN	**-11.5**	0.060674	0.3	0.0067	0.0540	May-75
38	Jun-75	MADISON GAS & ELECTRIC CO	MDSN	**-13.625**	0.184783	0	0.0070	0.1778	Jun-75
38	Jul-75	MADISON GAS & ELECTRIC CO	MDSN	**-12.75**	-0.06422	0	0.0068	-0.0710	Jul-75
38	Aug-75	MADISON GAS & ELECTRIC CO	MDSN	**-12**	-0.03529	0.3	0.0065	-0.0418	Aug-75
38	Sep-75	MADISON GAS & ELECTRIC CO	MDSN	**-11.75**	-0.02083	0	0.0073	-0.0281	Sep-75
38	Oct-75	MADISON GAS & ELECTRIC CO	MDSN	**-12.25**	0.042553	0	0.0072	0.0354	Oct-75
38	Nov-75	MADISON GAS & ELECTRIC CO	MDSN	**-12.625**	0.055102	0.3	0.0061	0.0490	Nov-75
38	Dec-75	MADISON GAS & ELECTRIC CO	MDSN	**-13**	0.029703	0	0.0074	0.0223	Dec-75
38	Jan-76	MADISON GAS & ELECTRIC CO	MDSN	**-14**	0.076923	0	0.0065	0.0704	Jan-76
38	Feb-76	MADISON GAS & ELECTRIC CO	MDSN	**-13.625**	-0.00536	0.3	0.0060	-0.0114	Feb-76
38	Mar-76	MADISON GAS & ELECTRIC CO	MDSN	**-13.25**	-0.02752	0	0.0071	-0.0346	Mar-76
38	Apr-76	MADISON GAS & ELECTRIC CO	MDSN	**-13**	-0.01887	0	0.0064	-0.0253	Apr-76
38	May-76	MADISON GAS & ELECTRIC CO	MDSN	**-12.75**	0.003846	0.3	0.0059	-0.0021	May-76
38	Jun-76	MADISON GAS & ELECTRIC CO	MDSN	**-13.375**	0.04902	0	0.0073	0.0417	Jun-76
38	Jul-76	MADISON GAS & ELECTRIC CO	MDSN	**-13.875**	0.037383	0	0.0065	0.0309	Jul-76
38	Aug-76	MADISON GAS & ELECTRIC CO	MDSN	**-14.125**	0.03964	0.3	0.0069	0.0327	Aug-76
38	Sep-76	MADISON GAS & ELECTRIC CO	MDSN	**-14.625**	0.035398	0	0.0064	0.0290	Sep-76
38	Oct-76	MADISON GAS & ELECTRIC CO	MDSN	**-14.5**	-0.00855	0	0.0061	-0.0146	Oct-76
38	Nov-76	MADISON GAS & ELECTRIC CO	MDSN	**-15.25**	0.074483	0.33	0.0066	0.0679	Nov-76
38	Dec-76	MADISON GAS & ELECTRIC CO	MDSN	**-15.75**	0.032787	0	0.0063	0.0265	Dec-76
38	Jan-77	MADISON GAS & ELECTRIC CO	MDSN	**-16.75**	0.063492	0	0.0059	0.0576	Jan-77
38	Feb-77	MADISON GAS & ELECTRIC CO	MDSN	**-16.25**	-0.01015	0.33	0.0057	-0.0158	Feb-77
38	Mar-77	MADISON GAS & ELECTRIC CO	MDSN	**-16.125**	-0.00769	0	0.0065	-0.0142	Mar-77
38	Apr-77	MADISON GAS & ELECTRIC CO	MDSN	**-16**	-0.00775	0	0.0061	-0.0139	Apr-77
38	May-77	MADISON GAS & ELECTRIC CO	MDSN	**-16**	0.020625	0.33	0.0067	0.0139	May-77
38	Jun-77	MADISON GAS & ELECTRIC CO	MDSN	**-16.375**	0.023438	0	0.0062	0.0172	Jun-77
38	Jul-77	MADISON GAS & ELECTRIC CO	MDSN	**-16.625**	0.015267	0	0.0059	0.0094	Jul-77
38	Aug-77	MADISON GAS & ELECTRIC CO	MDSN	**-16.625**	0.021053	0.35	0.0067	0.0144	Aug-77
38	Sep-77	MADISON GAS & ELECTRIC CO	MDSN	**-16.875**	0.015038	0	0.0061	0.0089	Sep-77
38	Oct-77	MADISON GAS & ELECTRIC CO	MDSN	**-16.875**	0	0	0.0063	-0.0063	Oct-77
38	Nov-77	MADISON GAS & ELECTRIC CO	MDSN	**-16.75**	0.013333	0.35	0.0063	0.0070	Nov-77
38	Dec-77	MADISON GAS & ELECTRIC CO	MDSN	**-17.25**	0.029851	0	0.0062	0.0237	Dec-77
38	Jan-78	MADISON GAS & ELECTRIC CO	MDSN	**-16.375**	-0.05073	0	0.0069	-0.0576	Jan-78
38	Feb-78	MADISON GAS & ELECTRIC CO	MDSN	**-16.625**	0.036641	0.35	0.0060	0.0306	Feb-78

38	Mar-78	MADISON GAS & ELECTRIC CO	MDSN	**-16.375**	-0.01504	0	0.0069	-0.0219	Mar-78
38	Apr-78	MADISON GAS & ELECTRIC CO	MDSN	**-16.25**	-0.00763	0	0.0063	-0.0139	Apr-78
38	May-78	MADISON GAS & ELECTRIC CO	MDSN	**-16**	0.006154	0.35	0.0075	-0.0013	May-78
38	Jun-78	MADISON GAS & ELECTRIC CO	MDSN	**-15.625**	-0.02344	0	0.0069	-0.0303	Jun-78
38	Jul-78	MADISON GAS & ELECTRIC CO	MDSN	**-16.5**	0.056	0	0.0073	0.0487	Jul-78
38	Aug-78	MADISON GAS & ELECTRIC CO	MDSN	**-16.625**	0.03	0.37	0.0070	0.0230	Aug-78
38	Sep-78	MADISON GAS & ELECTRIC CO	MDSN	**-16.25**	-0.02256	0	0.0065	-0.0291	Sep-78
38	Oct-78	MADISON GAS & ELECTRIC CO	MDSN	**-15.875**	-0.02308	0	0.0073	-0.0304	Oct-78
38	Nov-78	MADISON GAS & ELECTRIC CO	MDSN	**-16**	0.031181	0.37	0.0071	0.0241	Nov-78
38	Dec-78	MADISON GAS & ELECTRIC CO	MDSN	**-15.875**	-0.00781	0	0.0068	-0.0146	Dec-78
38	Jan-79	MADISON GAS & ELECTRIC CO	MDSN	**-16.375**	0.031496	0	0.0079	0.0236	Jan-79
38	Feb-79	MADISON GAS & ELECTRIC CO	MDSN	**-15.75**	-0.01557	0.37	0.0065	-0.0221	Feb-79
38	Mar-79	MADISON GAS & ELECTRIC CO	MDSN	**-16.125**	0.02381	0	0.0074	0.0164	Mar-79
38	Apr-79	MADISON GAS & ELECTRIC CO	MDSN	**-15.5**	-0.03876	0	0.0076	-0.0464	Apr-79
38	May-79	MADISON GAS & ELECTRIC CO	MDSN	**-15**	-0.00839	0.37	0.0077	-0.0161	May-79
38	Jun-79	MADISON GAS & ELECTRIC CO	MDSN	**-15.5**	0.033333	0	0.0071	0.0262	Jun-79
38	Jul-79	MADISON GAS & ELECTRIC CO	MDSN	**-15.5**	0	0	0.0076	-0.0076	Jul-79
38	Aug-79	MADISON GAS & ELECTRIC CO	MDSN	**-15.625**	0.031935	0.37	0.0073	0.0246	Aug-79
38	Sep-79	MADISON GAS & ELECTRIC CO	MDSN	**-15.125**	-0.032	0	0.0068	-0.0388	Sep-79
38	Oct-79	MADISON GAS & ELECTRIC CO	MDSN	**-13.5**	-0.10744	0	0.0082	-0.1156	Oct-79
38	Nov-79	MADISON GAS & ELECTRIC CO	MDSN	**-14.125**	0.073704	0.37	0.0083	0.0654	Nov-79
38	Dec-79	MADISON GAS & ELECTRIC CO	MDSN	**-13.875**	-0.0177	0	0.0083	-0.0260	Dec-79
38	Jan-80	MADISON GAS & ELECTRIC CO	MDSN	**-13.375**	-0.03604	0	0.0083	-0.0443	Jan-80
38	Feb-80	MADISON GAS & ELECTRIC CO	MDSN	**-12.75**	-0.01608	0.41	0.0084	-0.0245	Feb-80
38	Mar-80	MADISON GAS & ELECTRIC CO	MDSN	**-12.125**	-0.04902	0	0.0099	-0.0589	Mar-80
38	Apr-80	MADISON GAS & ELECTRIC CO	MDSN	**-15**	0.237113	0	0.0100	0.2271	Apr-80
38	May-80	MADISON GAS & ELECTRIC CO	MDSN	**-15**	0.027333	0.41	0.0087	0.0186	May-80
38	Jun-80	MADISON GAS & ELECTRIC CO	MDSN	**-15.5**	0.033333	0	0.0086	0.0247	Jun-80
38	Jul-80	MADISON GAS & ELECTRIC CO	MDSN	**-14.5**	-0.06452	0	0.0084	-0.0729	Jul-80
38	Aug-80	MADISON GAS & ELECTRIC CO	MDSN	**-13.75**	-0.02345	0.41	0.0081	-0.0315	Aug-80
38	Sep-80	MADISON GAS & ELECTRIC CO	MDSN	**-13.625**	-0.00909	0	0.0097	-0.0188	Sep-80
38	Oct-80	MADISON GAS & ELECTRIC CO	MDSN	**-13.625**	0	0	0.0097	-0.0097	Oct-80
38	Nov-80	MADISON GAS & ELECTRIC CO	MDSN	**-12.5**	-0.05101	0.43	0.0091	-0.0601	Nov-80
38	Dec-80	MADISON GAS & ELECTRIC CO	MDSN	**-13.875**	0.11	0	0.0108	0.0992	Dec-80
38	Jan-81	MADISON GAS & ELECTRIC CO	MDSN	**-13.5625**	-0.02252	0	0.0094	-0.0319	Jan-81
38	Feb-81	MADISON GAS & ELECTRIC CO	MDSN	**-13.25**	0.008664	0.43	0.0088	-0.0001	Feb-81
38	Mar-81	MADISON GAS & ELECTRIC CO	MDSN	**-13.875**	0.04717	0	0.0111	0.0361	Mar-81

38	Apr-81	MADISON GAS & ELECTRIC CO	MDSN	**-12.6875**	-0.08559	0	0.0101	-0.0957	Apr-81
38	May-81	MADISON GAS & ELECTRIC CO	MDSN	**-12.8125**	0.043744	0.43	0.0104	0.0333	May-81
38	Jun-81	MADISON GAS & ELECTRIC CO	MDSN	**-14.125**	0.102439	0	0.0109	0.0915	Jun-81
38	Jul-81	MADISON GAS & ELECTRIC CO	MDSN	**-14.125**	0	0	0.0109	-0.0109	Jul-81
38	Aug-81	MADISON GAS & ELECTRIC CO	MDSN	**-14.3125**	0.045133	0.45	0.0110	0.0341	Aug-81
38	Sep-81	MADISON GAS & ELECTRIC CO	MDSN	**-14.9375**	0.043668	0	0.0114	0.0323	Sep-81
38	Oct-81	MADISON GAS & ELECTRIC CO	MDSN	**-14.4375**	-0.03347	0	0.0117	-0.0452	Oct-81
38	Nov-81	MADISON GAS & ELECTRIC CO	MDSN	**-15.25**	0.087446	0.45	0.0113	0.0761	Nov-81
38	Dec-81	MADISON GAS & ELECTRIC CO	MDSN	**-14.625**	-0.04098	0	0.0100	-0.0510	Dec-81
38	Jan-82	MADISON GAS & ELECTRIC CO	MDSN	**-15.375**	0.051282	0	0.0108	0.0405	Jan-82
38	Feb-82	MADISON GAS & ELECTRIC CO	MDSN	**-14.8125**	-0.00732	0.45	0.0103	-0.0176	Feb-82
38	Mar-82	MADISON GAS & ELECTRIC CO	MDSN	**-15.3125**	0.033755	0	0.0124	0.0214	Mar-82
38	Apr-82	MADISON GAS & ELECTRIC CO	MDSN	**-15.6875**	0.02449	0	0.0112	0.0133	Apr-82
38	May-82	MADISON GAS & ELECTRIC CO	MDSN	**-14.75**	-0.03108	0.45	0.0101	-0.0412	May-82
38	Jun-82	MADISON GAS & ELECTRIC CO	MDSN	**-15.375**	0.042373	0	0.0120	0.0304	Jun-82
38	Jul-82	MADISON GAS & ELECTRIC CO	MDSN	**-14.6875**	-0.04472	0	0.0114	-0.0561	Jul-82
38	Aug-82	MADISON GAS & ELECTRIC CO	MDSN	**-15.625**	0.096511	0.48	0.0112	0.0853	Aug-82
38	Sep-82	MADISON GAS & ELECTRIC CO	MDSN	**-17.25**	0.104	0	0.0100	0.0940	Sep-82
38	Oct-82	MADISON GAS & ELECTRIC CO	MDSN	**-18.375**	0.065217	0	0.0091	0.0561	Oct-82
38	Nov-82	MADISON GAS & ELECTRIC CO	MDSN	**-18.125**	0.012517	0.48	0.0094	0.0031	Nov-82
38	Dec-82	MADISON GAS & ELECTRIC CO	MDSN	**-19**	0.048276	0	0.0093	0.0390	Dec-82
38	Jan-83	MADISON GAS & ELECTRIC CO	MDSN	**-19.625**	0.032895	0	0.0087	0.0242	Jan-83
38	Feb-83	MADISON GAS & ELECTRIC CO	MDSN	**-19.4375**	0.014904	0.48	0.0081	0.0068	Feb-83
38	Mar-83	MADISON GAS & ELECTRIC CO	MDSN	**-18.875**	-0.02894	0	0.0089	-0.0378	Mar-83
38	Apr-83	MADISON GAS & ELECTRIC CO	MDSN	**-19.8125**	0.049669	0	0.0085	0.0412	Apr-83
38	May-83	MADISON GAS & ELECTRIC CO	MDSN	**-19.6875**	0.017918	0.48	0.0091	0.0088	May-83
38	Jun-83	MADISON GAS & ELECTRIC CO	MDSN	**-19.4375**	-0.0127	0	0.0090	-0.0217	Jun-83
38	Jul-83	MADISON GAS & ELECTRIC CO	MDSN	**-18.9375**	-0.02572	0	0.0088	-0.0345	Jul-83
38	Aug-83	MADISON GAS & ELECTRIC CO	MDSN	**-20.25**	0.096766	0.52	0.0103	0.0865	Aug-83
38	Sep-83	MADISON GAS & ELECTRIC CO	MDSN	**-22**	0.08642	0	0.0096	0.0768	Sep-83
38	Oct-83	MADISON GAS & ELECTRIC CO	MDSN	**-20.875**	-0.05114	0	0.0095	-0.0606	Oct-83
38	Nov-83	MADISON GAS & ELECTRIC CO	MDSN	**-21.625**	0.060838	0.52	0.0094	0.0514	Nov-83
38	Dec-83	MADISON GAS & ELECTRIC CO	MDSN	**-20.625**	-0.04624	0	0.0094	-0.0556	Dec-83
38	Jan-84	MADISON GAS & ELECTRIC CO	MDSN	**-21.25**	0.030303	0	0.0103	0.0200	Jan-84
38	Feb-84	MADISON GAS & ELECTRIC CO	MDSN	**-20.625**	-0.00494	0.52	0.0092	-0.0141	Feb-84
38	Mar-84	MADISON GAS & ELECTRIC CO	MDSN	**-19.75**	-0.04242	0	0.0098	-0.0522	Mar-84
38	Apr-84	MADISON GAS & ELECTRIC CO	MDSN	**-20.1875**	0.022152	0	0.0104	0.0118	Apr-84

38	May-84	MADISON GAS & ELECTRIC CO	MDSN	20	0.016471	0.52	0.0103	0.0062	May-84
38	Jun-84	MADISON GAS & ELECTRIC CO	MDSN	19.5	-0.025	0	0.0106	-0.0356	Jun-84
38	Jul-84	MADISON GAS & ELECTRIC CO	MDSN	19.75	0.012821	0	0.0116	0.0012	Jul-84
38	Aug-84	MADISON GAS & ELECTRIC CO	MDSN	19.875	0.034177	0.55	0.0106	0.0236	Aug-84
38	Sep-84	MADISON GAS & ELECTRIC CO	MDSN	22.125	0.113208	0	0.0094	0.1038	Sep-84
38	Oct-84	MADISON GAS & ELECTRIC CO	MDSN	22.125	0	0	0.0108	-0.0108	Oct-84
38	Nov-84	MADISON GAS & ELECTRIC CO	MDSN	22.25	0.030508	0.55	0.0091	0.0214	Nov-84
38	Dec-84	MADISON GAS & ELECTRIC CO	MDSN	22.5	0.011236	0	0.0098	0.0014	Dec-84
38	Jan-85	MADISON GAS & ELECTRIC CO	MDSN	23.5	0.044444	0	0.0096	0.0348	Jan-85
38	Feb-85	MADISON GAS & ELECTRIC CO	MDSN	23.125	0.007447	0.55	0.0082	-0.0008	Feb-85
38	Mar-85	MADISON GAS & ELECTRIC CO	MDSN	22.625	-0.02162	0	0.0094	-0.0310	Mar-85
38	Apr-85	MADISON GAS & ELECTRIC CO	MDSN	24.125	0.066298	0	0.0102	0.0561	Apr-85
38	May-85	MADISON GAS & ELECTRIC CO	MDSN	26.5	0.121244	0.55	0.0097	0.1115	May-85
38	Jun-85	MADISON GAS & ELECTRIC CO	MDSN	26.375	-0.00472	0	0.0080	-0.0127	Jun-85
38	Jul-85	MADISON GAS & ELECTRIC CO	MDSN	24.25	-0.08057	0	0.0094	-0.0900	Jul-85
38	Aug-85	MADISON GAS & ELECTRIC CO	MDSN	25.875	0.090515	0.57	0.0085	0.0820	Aug-85
38	Sep-85	MADISON GAS & ELECTRIC CO	MDSN	25.125	-0.02899	0	0.0088	-0.0378	Sep-85
38	Oct-85	MADISON GAS & ELECTRIC CO	MDSN	25.625	0.0199	0	0.0089	0.0110	Oct-85
38	Nov-85	MADISON GAS & ELECTRIC CO	MDSN	27.625	0.100293	0.57	0.0081	0.0922	Nov-85
38	Dec-85	MADISON GAS & ELECTRIC CO	MDSN	27.625	0	0	0.0086	-0.0086	Dec-85
38	Jan-86	MADISON GAS & ELECTRIC CO	MDSN	28.125	0.0181	0	0.0079	0.0102	Jan-86
38	Feb-86	MADISON GAS & ELECTRIC CO	MDSN	30.375	0.100267	0.57	0.0073	0.0930	Feb-86
38	Mar-86	MADISON GAS & ELECTRIC CO	MDSN	30.75	0.012346	0	0.0071	0.0052	Mar-86
38	Apr-86	MADISON GAS & ELECTRIC CO	MDSN	31.75	0.03252	0	0.0063	0.0262	Apr-86
38	May-86	MADISON GAS & ELECTRIC CO	MDSN	35.625	0.14	0.57	0.0062	0.1338	May-86
38	Jun-86	MADISON GAS & ELECTRIC CO	MDSN	35.875	0.007018	0	0.0070	0.0000	Jun-86
38	Jul-86	MADISON GAS & ELECTRIC CO	MDSN	38.5	0.073171	0	0.0066	0.0666	Jul-86
38	Aug-86	MADISON GAS & ELECTRIC CO	MDSN	40.5	0.067273	0.59	0.0063	0.0610	Aug-86
38	Sep-86	MADISON GAS & ELECTRIC CO	MDSN	36.375	-0.10185	0	0.0065	-0.1084	Sep-86
38	Oct-86	MADISON GAS & ELECTRIC CO	MDSN	39.75	0.092784	0	0.0069	0.0859	Oct-86
38	Nov-86	MADISON GAS & ELECTRIC CO	MDSN	38.375	-0.01975	0.59	0.0059	-0.0256	Nov-86
38	Dec-86	MADISON GAS & ELECTRIC CO	MDSN	34.75	-0.09446	0	0.0070	-0.1015	Dec-86
38	Jan-87	MADISON GAS & ELECTRIC CO	MDSN	36.25	0.043165	0	0.0064	0.0368	Jan-87
38	Feb-87	MADISON GAS & ELECTRIC CO	MDSN	35.25	-0.01131	0.59	0.0059	-0.0172	Feb-87
38	Mar-87	MADISON GAS & ELECTRIC CO	MDSN	34.5	-0.02128	0	0.0066	-0.0279	Mar-87
38	Apr-87	MADISON GAS & ELECTRIC CO	MDSN	33	-0.04348	0	0.0065	-0.0500	Apr-87
38	May-87	MADISON GAS & ELECTRIC CO	MDSN	32.25	-0.00485	0.59	0.0066	-0.0114	May-87

38	Jun-87	MADISON GAS & ELECTRIC CO	MDSN	31.5	-0.02326	0	0.0075	-0.0308	Jun-87
38	Jul-87	MADISON GAS & ELECTRIC CO	MDSN	32	0.015873	0	0.0073	0.0086	Jul-87
38	Aug-87	MADISON GAS & ELECTRIC CO	MDSN	34.25	0.089219	0.605	0.0075	0.0817	Aug-87
38	Sep-87	MADISON GAS & ELECTRIC CO	MDSN	32.5	-0.0511	0	0.0075	-0.0586	Sep-87
38	Oct-87	MADISON GAS & ELECTRIC CO	MDSN	31.75	-0.02308	0	0.0079	-0.0310	Oct-87
38	Nov-87	MADISON GAS & ELECTRIC CO	MDSN	31	-0.00457	0.605	0.0075	-0.0121	Nov-87
38	Dec-87	MADISON GAS & ELECTRIC CO	MDSN	32.75	0.056452	0	0.0078	0.0487	Dec-87
38	Jan-88	MADISON GAS & ELECTRIC CO	MDSN	32.75	0	0	0.0072	-0.0072	Jan-88
38	Feb-88	MADISON GAS & ELECTRIC CO	MDSN	32	-0.00443	0.605	0.0071	-0.0115	Feb-88
38	Mar-88	MADISON GAS & ELECTRIC CO	MDSN	31.5	-0.01563	0	0.0072	-0.0228	Mar-88
38	Apr-88	MADISON GAS & ELECTRIC CO	MDSN	31.75	0.007937	0	0.0070	0.0009	Apr-88
38	May-88	MADISON GAS & ELECTRIC CO	MDSN	31.75	0.019055	0.605	0.0078	0.0113	May-88
38	Jun-88	MADISON GAS & ELECTRIC CO	MDSN	31.5	-0.00787	0	0.0076	-0.0155	Jun-88
38	Jul-88	MADISON GAS & ELECTRIC CO	MDSN	31.75	0.007937	0	0.0071	0.0008	Jul-88
38	Aug-88	MADISON GAS & ELECTRIC CO	MDSN	31.375	0.007717	0.62	0.0083	-0.0006	Aug-88
38	Sep-88	MADISON GAS & ELECTRIC CO	MDSN	31.25	-0.00398	0	0.0076	-0.0116	Sep-88
38	Oct-88	MADISON GAS & ELECTRIC CO	MDSN	31.75	0.016	0	0.0076	0.0084	Oct-88
38	Nov-88	MADISON GAS & ELECTRIC CO	MDSN	30.5	-0.01984	0.62	0.0070	-0.0268	Nov-88
38	Dec-88	MADISON GAS & ELECTRIC CO	MDSN	31	0.016393	0	0.0075	0.0089	Dec-88
38	Jan-89	MADISON GAS & ELECTRIC CO	MDSN	31.5	0.016129	0	0.0080	0.0081	Jan-89
38	Feb-89	MADISON GAS & ELECTRIC CO	MDSN	30.25	-0.02	0.62	0.0069	-0.0269	Feb-89
38	Mar-89	MADISON GAS & ELECTRIC CO	MDSN	34.5	0.140496	0	0.0079	0.1326	Mar-89
38	Apr-89	MADISON GAS & ELECTRIC CO	MDSN	34.75	0.007246	0	0.0070	0.0002	Apr-89
38	May-89	MADISON GAS & ELECTRIC CO	MDSN	36.75	0.075396	0.62	0.0080	0.0674	May-89
38	Jun-89	MADISON GAS & ELECTRIC CO	MDSN	34.75	-0.05442	0	0.0070	-0.0614	Jun-89
38	Jul-89	MADISON GAS & ELECTRIC CO	MDSN	35.75	0.028777	0	0.0068	0.0220	Jul-89
38	Aug-89	MADISON GAS & ELECTRIC CO	MDSN	35.5	0.010909	0.64	0.0066	0.0043	Aug-89
38	Sep-89	MADISON GAS & ELECTRIC CO	MDSN	35	-0.01409	0	0.0065	-0.0206	Sep-89
38	Oct-89	MADISON GAS & ELECTRIC CO	MDSN	34.25	-0.02143	0	0.0072	-0.0286	Oct-89
38	Nov-89	MADISON GAS & ELECTRIC CO	MDSN	34.5	0.025985	0.64	0.0064	0.0196	Nov-89
38	Dec-89	MADISON GAS & ELECTRIC CO	MDSN	35.5	0.028986	0	0.0064	0.0226	Dec-89
38	Jan-90	MADISON GAS & ELECTRIC CO	MDSN	31.75	-0.10563	0	0.0073	-0.1129	Jan-90
38	Feb-90	MADISON GAS & ELECTRIC CO	MDSN	34	0.091024	0.64	0.0066	0.0844	Feb-90
38	Mar-90	MADISON GAS & ELECTRIC CO	MDSN	33.25	-0.02206	0	0.0071	-0.0292	Mar-90
38	Apr-90	MADISON GAS & ELECTRIC CO	MDSN	32	-0.03759	0	0.0075	-0.0451	Apr-90
38	May-90	MADISON GAS & ELECTRIC CO	MDSN	32.5	0.035625	0.64	0.0075	0.0281	May-90
38	Jun-90	MADISON GAS & ELECTRIC CO	MDSN	33.25	0.023077	0	0.0068	0.0163	Jun-90

38	Jul-90	MADISON GAS & ELECTRIC CO	MDSN	33.75	0.015038	0	0.0074	0.0076	Jul-90
38	Aug-90	MADISON GAS & ELECTRIC CO	MDSN	32	-0.03259	0.65	0.0071	-0.0397	Aug-90
38	Sep-90	MADISON GAS & ELECTRIC CO	MDSN	32.25	0.007812	0	0.0069	0.0009	Sep-90
38	Oct-90	MADISON GAS & ELECTRIC CO	MDSN	32.75	0.015504	0	0.0081	0.0074	Oct-90
38	Nov-90	MADISON GAS & ELECTRIC CO	MDSN	33.25	0.035115	0.65	0.0071	0.0280	Nov-90
38	Dec-90	MADISON GAS & ELECTRIC CO	MDSN	33.5	0.007519	0	0.0072	0.0003	Dec-90
38	Jan-91	MADISON GAS & ELECTRIC CO	MDSN	33.5	0	0	0.0071	-0.0071	Jan-91
38	Feb-91	MADISON GAS & ELECTRIC CO	MDSN	36.75	0.116418	0.65	0.0064	0.1100	Feb-91
38	Mar-91	MADISON GAS & ELECTRIC CO	MDSN	36.25	-0.01361	0	0.0064	-0.0200	Mar-91
38	Apr-91	MADISON GAS & ELECTRIC CO	MDSN	37.25	0.027586	0	0.0076	0.0200	Apr-91
38	May-91	MADISON GAS & ELECTRIC CO	MDSN	37.5	0.024161	0.65	0.0068	0.0174	May-91
38	Jun-91	MADISON GAS & ELECTRIC CO	MDSN	37.5	0	0	0.0063	-0.0063	Jun-91
38	Jul-91	MADISON GAS & ELECTRIC CO	MDSN	38.625	0.03	0	0.0076	0.0224	Jul-91
38	Aug-91	MADISON GAS & ELECTRIC CO	MDSN	39.25	0.033269	0.66	0.0068	0.0265	Aug-91
38	Sep-91	MADISON GAS & ELECTRIC CO	MDSN	39.25	0	0	0.0068	-0.0068	Sep-91
38	Oct-91	MADISON GAS & ELECTRIC CO	MDSN	43.25	0.101911	0	0.0065	0.0954	Oct-91
38	Nov-91	MADISON GAS & ELECTRIC CO	MDSN	43.25	0.01526	0.66	0.0060	0.0093	Nov-91
38	Dec-91	MADISON GAS & ELECTRIC CO	MDSN	46	0.063584	0	0.0068	0.0568	Dec-91
38	Jan-92	MADISON GAS & ELECTRIC CO	MDSN	30	-0.02174	0	0.0061	-0.0278	Jan-92
38	Feb-92	MADISON GAS & ELECTRIC CO	MDSN	30	0.014667	0.44	0.0059	0.0088	Feb-92
38	Mar-92	MADISON GAS & ELECTRIC CO	MDSN	30.25	0.008333	0	0.0067	0.0016	Mar-92
38	Apr-92	MADISON GAS & ELECTRIC CO	MDSN	31	0.024793	0	0.0065	0.0183	Apr-92
38	May-92	MADISON GAS & ELECTRIC CO	MDSN	29.75	-0.02613	0.44	0.0061	-0.0322	May-92
38	Jun-92	MADISON GAS & ELECTRIC CO	MDSN	29.5	-0.0084	0	0.0067	-0.0151	Jun-92
38	Jul-92	MADISON GAS & ELECTRIC CO	MDSN	32	0.084746	0	0.0063	0.0784	Jul-92
38	Aug-92	MADISON GAS & ELECTRIC CO	MDSN	32.25	0.022031	0.455	0.0060	0.0160	Aug-92
38	Sep-92	MADISON GAS & ELECTRIC CO	MDSN	32.5	0.007752	0	0.0058	0.0020	Sep-92
38	Oct-92	MADISON GAS & ELECTRIC CO	MDSN	33.5	0.030769	0	0.0057	0.0251	Oct-92
38	Nov-92	MADISON GAS & ELECTRIC CO	MDSN	31	-0.06105	0.455	0.0061	-0.0671	Nov-92
38	Dec-92	MADISON GAS & ELECTRIC CO	MDSN	32.5	0.048387	0	0.0063	0.0421	Dec-92
38	Jan-93	MADISON GAS & ELECTRIC CO	MDSN	32	-0.01539	0	0.0059	-0.0213	Jan-93
38	Feb-93	MADISON GAS & ELECTRIC CO	MDSN	33	0.045469	0.455	0.0055	0.0400	Feb-93
38	Mar-93	MADISON GAS & ELECTRIC CO	MDSN	34.25	0.037879	0	0.0063	0.0316	Mar-93
38	Apr-93	MADISON GAS & ELECTRIC CO	MDSN	33.75	-0.0146	0	0.0057	-0.0203	Apr-93
38	May-93	MADISON GAS & ELECTRIC CO	MDSN	34.25	0.028296	0.455	0.0052	0.0231	May-93
38	Jun-93	MADISON GAS & ELECTRIC CO	MDSN	33.5	-0.0219	0	0.0062	-0.0281	Jun-93
38	Jul-93	MADISON GAS & ELECTRIC CO	MDSN	35.5	0.059701	0	0.0054	0.0543	Jul-93

38	Aug-93	MADISON GAS & ELECTRIC CO	MDSN	35.25	0.006056	0.465	0.0056	0.0005	Aug-93
38	Sep-93	MADISON GAS & ELECTRIC CO	MDSN	36	0.021277	0	0.0050	0.0163	Sep-93
38	Oct-93	MADISON GAS & ELECTRIC CO	MDSN	35	-0.02778	0	0.0049	-0.0327	Oct-93
38	Nov-93	MADISON GAS & ELECTRIC CO	MDSN	34	-0.01529	0.465	0.0053	-0.0206	Nov-93
38	Dec-93	MADISON GAS & ELECTRIC CO	MDSN	33.75	-0.00735	0	0.0055	-0.0129	Dec-93
38	Jan-94	MADISON GAS & ELECTRIC CO	MDSN	33.5	-0.00741	0	0.0055	-0.0129	Jan-94
38	Feb-94	MADISON GAS & ELECTRIC CO	MDSN	31	-0.06075	0.465	0.0049	-0.0656	Feb-94
38	Mar-94	MADISON GAS & ELECTRIC CO	MDSN	32.5	0.048387	0	0.0058	0.0426	Mar-94
38	Apr-94	MADISON GAS & ELECTRIC CO	MDSN	32.75	0.007692	0	0.0057	0.0020	Apr-94
38	May-94	MADISON GAS & ELECTRIC CO	MDSN	32.25	-0.00107	0.465	0.0063	-0.0074	May-94
38	Jun-94	MADISON GAS & ELECTRIC CO	MDSN	33.5	0.03876	0	0.0061	0.0327	Jun-94
38	Jul-94	MADISON GAS & ELECTRIC CO	MDSN	32.25	-0.03731	0	0.0060	-0.0433	Jul-94
38	Aug-94	MADISON GAS & ELECTRIC CO	MDSN	34	0.068837	0.47	0.0066	0.0622	Aug-94
38	Sep-94	MADISON GAS & ELECTRIC CO	MDSN	33.25	-0.02206	0	0.0061	-0.0282	Sep-94
38	Oct-94	MADISON GAS & ELECTRIC CO	MDSN	33	-0.00752	0	0.0066	-0.0141	Oct-94
38	Nov-94	MADISON GAS & ELECTRIC CO	MDSN	32.5	-0.00091	0.47	0.0064	-0.0073	Nov-94
38	Dec-94	MADISON GAS & ELECTRIC CO	MDSN	32.5	0	0	0.0066	-0.0066	Dec-94
38	Jan-95	MADISON GAS & ELECTRIC CO	MDSN	31.5	-0.03077	0	0.0070	-0.0378	Jan-95
38	Feb-95	MADISON GAS & ELECTRIC CO	MDSN	32.375	0.042698	0.47	0.0059	0.0368	Feb-95
38	Mar-95	MADISON GAS & ELECTRIC CO	MDSN	33	0.019305	0	0.0064	0.0129	Mar-95
38	Apr-95	MADISON GAS & ELECTRIC CO	MDSN	31.75	-0.03788	0	0.0058	-0.0437	Apr-95
38	May-95	MADISON GAS & ELECTRIC CO	MDSN	31	-0.00882	0.47	0.0065	-0.0153	May-95
38	Jun-95	MADISON GAS & ELECTRIC CO	MDSN	31.25	0.008065	0	0.0054	0.0027	Jun-95
38	Jul-95	MADISON GAS & ELECTRIC CO	MDSN	33	0.056	0	0.0056	0.0504	Jul-95
38	Aug-95	MADISON GAS & ELECTRIC CO	MDSN	33	0.014394	0.475	0.0057	0.0087	Aug-95
38	Sep-95	MADISON GAS & ELECTRIC CO	MDSN	33.25	0.007576	0	0.0052	0.0024	Sep-95
38	Oct-95	MADISON GAS & ELECTRIC CO	MDSN	33	-0.00752	0	0.0057	-0.0132	Oct-95
38	Nov-95	MADISON GAS & ELECTRIC CO	MDSN	33.125	0.018182	0.475	0.0051	0.0131	Nov-95
38	Dec-95	MADISON GAS & ELECTRIC CO	MDSN	35	0.056604	0	0.0049	0.0517	Dec-95
38	Jan-96	MADISON GAS & ELECTRIC CO	MDSN	35.75	0.021429	0	0.0054	0.0160	Jan-96
38	Feb-96	MADISON GAS & ELECTRIC CO	MDSN	27.25	0.156641	0.4749	0.0048	0.1518	Feb-96
38	Mar-96	MADISON GAS & ELECTRIC CO	MDSN	25	-0.08257	0	0.0052	-0.0878	Mar-96
38	Apr-96	MADISON GAS & ELECTRIC CO	MDSN	24.25	-0.03	0	0.0059	-0.0359	Apr-96
38	May-96	MADISON GAS & ELECTRIC CO	MDSN	24.375	0.018213	0.31666	0.0058	0.0124	May-96
38	Jun-96	MADISON GAS & ELECTRIC CO	MDSN	21.5	-0.11795	0	0.0054	-0.1233	Jun-96
38	Jul-96	MADISON GAS & ELECTRIC CO	MDSN	22	0.023256	0	0.0062	0.0171	Jul-96
38	Aug-96	MADISON GAS & ELECTRIC CO	MDSN	23	0.06	0.32	0.0057	0.0543	Aug-96

38	Sep-96	MADISON GAS & ELECTRIC CO	MDSN	22.375	-0.02717	0	0.0060	-0.0332	Sep-96
38	Oct-96	MADISON GAS & ELECTRIC CO	MDSN	20.5	-0.0838	0	0.0058	-0.0896	Oct-96
38	Nov-96	MADISON GAS & ELECTRIC CO	MDSN	21.125	0.046098	0.32	0.0052	0.0409	Nov-96
38	Dec-96	MADISON GAS & ELECTRIC CO	MDSN	20.25	-0.04142	0	0.0056	-0.0470	Dec-96
38	Jan-97	MADISON GAS & ELECTRIC CO	MDSN	21	0.037037	0	0.0056	0.0314	Jan-97
38	Feb-97	MADISON GAS & ELECTRIC CO	MDSN	21.5	0.039048	0.32	0.0051	0.0339	Feb-97
38	Mar-97	MADISON GAS & ELECTRIC CO	MDSN	20.25	-0.05814	0	0.0059	-0.0640	Mar-97
38	Apr-97	MADISON GAS & ELECTRIC CO	MDSN	20	-0.01235	0	0.0059	-0.0182	Apr-97
38	May-97	MADISON GAS & ELECTRIC CO	MDSN	20	0.016	0.32	0.0058	0.0102	May-97
38	Jun-97	MADISON GAS & ELECTRIC CO	MDSN	20.5	0.025	0	0.0059	0.0191	Jun-97
38	Jul-97	MADISON GAS & ELECTRIC CO	MDSN	20.25	-0.0122	0	0.0058	-0.0180	Jul-97
38	Aug-97	MADISON GAS & ELECTRIC CO	MDSN	20.25	0.015967	0.32333	0.0049	0.0111	Aug-97
38	Sep-97	MADISON GAS & ELECTRIC CO	MDSN	20.4375	0.009259	0	0.0058	0.0035	Sep-97
38	Oct-97	MADISON GAS & ELECTRIC CO	MDSN	20.125	-0.01529	0	0.0054	-0.0207	Oct-97
38	Nov-97	MADISON GAS & ELECTRIC CO	MDSN	20.375	0.028472	0.323	0.0047	0.0238	Nov-97
38	Dec-97	MADISON GAS & ELECTRIC CO	MDSN	23	0.128834	0	0.0054	0.1234	Dec-97
38	Jan-98	MADISON GAS & ELECTRIC CO	MDSN	22	-0.04348	0	0.0048	-0.0483	Jan-98
38	Feb-98	MADISON GAS & ELECTRIC CO	MDSN	22.375	0.031741	0.3233	0.0044	0.0273	Feb-98
38	Mar-98	MADISON GAS & ELECTRIC CO	MDSN	21.75	-0.02793	0	0.0052	-0.0331	Mar-98
38	Apr-98	MADISON GAS & ELECTRIC CO	MDSN	21.625	-0.00575	0	0.0049	-0.0106	Apr-98
38	May-98	MADISON GAS & ELECTRIC CO	MDSN	21.25	-0.00239	0.32333	0.0048	-0.0072	May-98
38	Jun-98	MADISON GAS & ELECTRIC CO	MDSN	22.875	0.076471	0	0.0052	0.0713	Jun-98
38	Jul-98	MADISON GAS & ELECTRIC CO	MDSN	22.25	-0.02732	0	0.0049	-0.0322	Jul-98
38	Aug-98	MADISON GAS & ELECTRIC CO	MDSN	23	0.048351	0.3258	0.0048	0.0436	Aug-98
38	Sep-98	MADISON GAS & ELECTRIC CO	MDSN	23	0	0	0.0044	-0.0044	Sep-98
38	Oct-98	MADISON GAS & ELECTRIC CO	MDSN	23.125	0.005435	0	0.0042	0.0012	Oct-98
38	Nov-98	MADISON GAS & ELECTRIC CO	MDSN	23.125	0.014089	0.3258	0.0045	0.0096	Nov-98
38	Dec-98	MADISON GAS & ELECTRIC CO	MDSN	22.75	-0.01622	0	0.0045	-0.0207	Dec-98
38	Jan-99	MADISON GAS & ELECTRIC CO	MDSN	21.25	-0.06593	0	0.0042	-0.0701	Jan-99
38	Feb-99	MADISON GAS & ELECTRIC CO	MDSN	20.125	-0.0376	0.326	0.0040	-0.0416	Feb-99
38	Mar-99	MADISON GAS & ELECTRIC CO	MDSN	19.5	-0.03106	0	0.0053	-0.0364	Mar-99
38	Apr-99	MADISON GAS & ELECTRIC CO	MDSN	18.625	-0.04487	0	0.0048	-0.0497	Apr-99
38	May-99	MADISON GAS & ELECTRIC CO	MDSN	21.25	0.158432	0.3258	0.0045	0.1539	May-99
38	Jun-99	MADISON GAS & ELECTRIC CO	MDSN	20.5	-0.03529	0	0.0055	-0.0408	Jun-99
38	Jul-99	MADISON GAS & ELECTRIC CO	MDSN	20.75	0.012195	0	0.0051	0.0071	Jul-99
38	Aug-99	MADISON GAS & ELECTRIC CO	MDSN	19.75	-0.03239	0.328	0.0054	-0.0378	Aug-99
38	Sep-99	MADISON GAS & ELECTRIC CO	MDSN	19.875	0.006329	0	0.0052	0.0011	Sep-99

38	Oct-99	MADISON GAS & ELECTRIC CO	MDSN	20.875	0.050314	0	0.0050	0.0453	Oct-99
38	Nov-99	MADISON GAS & ELECTRIC CO	MDSN	19.5	-0.05016	0.328	0.0056	-0.0558	Nov-99
38	Dec-99	MADISON GAS & ELECTRIC CO	MDSN	20.125	0.032051	0	0.0055	0.0266	Dec-99
38	Jan-00	MADISON GAS & ELECTRIC CO	MDSN	18.125	-0.09938	0	0.0057	-0.1051	Jan-00
38	Feb-00	MADISON GAS & ELECTRIC CO	MDSN	17.375	-0.02327	0.3283	0.0051	-0.0284	Feb-00
38	Mar-00	MADISON GAS & ELECTRIC CO	MDSN	17.875	0.028777	0	0.0054	0.0234	Mar-00
38	Apr-00	MADISON GAS & ELECTRIC CO	MDSN	18.125	0.013986	0	0.0047	0.0093	Apr-00
38	May-00	MADISON GAS & ELECTRIC CO	MDSN	18.6875	0.049148	0.3283	0.0056	0.0435	May-00
38	Jun-00	MADISON GAS & ELECTRIC CO	MDSN	19.75	0.056856	0	0.0052	0.0517	Jun-00
38	Jul-00	MADISON GAS & ELECTRIC CO	MDSN	20.5	0.037975	0	0.0052	0.0328	Jul-00
38	Aug-00	MADISON GAS & ELECTRIC CO	MDSN	19.875	-0.01434	0.331	0.0050	-0.0193	Aug-00
38	Sep-00	MADISON GAS & ELECTRIC CO	MDSN	22.75	0.144654	0	0.0046	0.1401	Sep-00
38	Oct-00	MADISON GAS & ELECTRIC CO	MDSN	21.75	-0.04396	0	0.0053	-0.0493	Oct-00
38	Nov-00	MADISON GAS & ELECTRIC CO	MDSN	21.625	0.009462	0.3308	0.0048	0.0047	Nov-00
38	Dec-00	MADISON GAS & ELECTRIC CO	MDSN	22.625	0.046243	0	0.0045	0.0417	Dec-00
38	Jan-01	MADISON GAS & ELECTRIC CO	MDSN	22.375	-0.01105	0	0.0049	-0.0160	Jan-01
38	Feb-01	MADISON GAS & ELECTRIC CO	MDSN	22.8125	0.034337	0.3308	0.0042	0.0301	Feb-01
38	Mar-01	MADISON GAS & ELECTRIC CO	MDSN	23.375	0.024658	0	0.0045	0.0202	Mar-01
38	Apr-01	MADISON GAS & ELECTRIC CO	MDSN	23.09	-0.01219	0	0.0047	-0.0169	Apr-01
38	May-01	MADISON GAS & ELECTRIC CO	MDSN	23.7	0.040745	0.3308	0.0050	0.0357	May-01
38	Jun-01	MADISON GAS & ELECTRIC CO	MDSN	27.8	0.172996	0	0.0047	0.1683	Jun-01
38	Jul-01	MADISON GAS & ELECTRIC CO	MDSN	24.39	-0.12266	0	0.0052	-0.1279	Jul-01
38	Aug-01	MADISON GAS & ELECTRIC CO	MDSN	24.01	-0.00193	0.333	0.0046	-0.0065	Aug-01
38	Sep-01	MADISON GAS & ELECTRIC CO	MDSN	25.15	0.04748	0	0.0041	0.0434	Sep-01
38	Oct-01	MADISON GAS & ELECTRIC CO	MDSN	24.41	-0.02942	0	0.0048	-0.0342	Oct-01
38	Nov-01	MADISON GAS & ELECTRIC CO	MDSN	26.59	0.102962	0.3333	0.0041	0.0989	Nov-01
38	Dec-01	MADISON GAS & ELECTRIC CO	MDSN	26.45	-0.00527	0	0.0046	-0.0099	Dec-01
38	Jan-02	MADISON GAS & ELECTRIC CO	MDSN	25.639	-0.03066	0	0.0048	-0.0355	Jan-02
38	Feb-02	MADISON GAS & ELECTRIC CO	MDSN	26.58	0.049702	0.3333	0.0043	0.0454	Feb-02
38	Mar-02	MADISON GAS & ELECTRIC CO	MDSN	28.42	0.069225	0	0.0043	0.0649	Mar-02
38	Apr-02	MADISON GAS & ELECTRIC CO	MDSN	28.34	-0.00282	0	0.0054	-0.0082	Apr-02
38	May-02	MADISON GAS & ELECTRIC CO	MDSN	27.2	-0.02847	0.3333	0.0049	-0.0334	May-02
38	Jun-02	MADISON GAS & ELECTRIC CO	MDSN	27.85	0.023897	0	0.0044	0.0195	Jun-02
38	Jul-02	MADISON GAS & ELECTRIC CO	MDSN	27.85	0	0	0.0051	-0.0051	Jul-02
38	Aug-02	M G E ENERGY INC	MGEE	27.15	-0.01308	0.3358	0.0044	-0.0175	Aug-02
38	Sep-02	M G E ENERGY INC	MGEE	25.66	-0.05488	0	0.0042	-0.0591	Sep-02
38	Oct-02	M G E ENERGY INC	MGEE	26.95	0.050273	0	0.0040	0.0463	Oct-02

38	Nov-02	M G E ENERGY INC	MGEE	26.91	0.010976	0.3358	0.0040	0.0070	Nov-02
38	Dec-02	M G E ENERGY INC	MGEE	26.771	-0.00517	0	0.0045	-0.0097	Dec-02
38	Jan-03	M G E ENERGY INC	MGEE	27.06	0.010795	0	0.0041	0.0067	Jan-03
38	Feb-03	M G E ENERGY INC	MGEE	26.75	-0.01146	0	0.0038	-0.0153	Feb-03
38	Mar-03	M G E ENERGY INC	MGEE	26.48	0.002461	0.33583	0.0040	-0.0015	Mar-03
38	Apr-03	M G E ENERGY INC	MGEE	28.89	0.091012	0	0.0040	0.0870	Apr-03
38	May-03	M G E ENERGY INC	MGEE	31.349	0.09674	0.33583	0.0039	0.0928	May-03
38	Jun-03	M G E ENERGY INC	MGEE	31.37	0.00067	0	0.0036	-0.0029	Jun-03
38	Jul-03	M G E ENERGY INC	MGEE	31.33	-0.00128	0	0.0038	-0.0051	Jul-03
38	Aug-03	M G E ENERGY INC	MGEE	31.6	0.019417	0.33833	0.0042	0.0152	Aug-03
38	Sep-03	M G E ENERGY INC	MGEE	30.25	-0.04272	0	0.0046	-0.0473	Sep-03
38	Oct-03	M G E ENERGY INC	MGEE	31.59	0.044298	0	0.0041	0.0402	Oct-03
38	Nov-03	M G E ENERGY INC	MGEE	32.01	0.024005	0.33833	0.0039	0.0201	Nov-03
38	Dec-03	M G E ENERGY INC	MGEE	31.45	-0.01749	0	0.0047	-0.0222	Dec-03
38	Jan-04	M G E ENERGY INC	MGEE	31.32	-0.00413	0	0.0042	-0.0083	Jan-04
38	Feb-04	M G E ENERGY INC	MGEE	31.1	0.003778	0.33833	0.0038	0.0000	Feb-04
38	Mar-04	M G E ENERGY INC	MGEE	30.85	-0.00804	0	0.0043	-0.0123	Mar-04
38	Apr-04	M G E ENERGY INC	MGEE	31.12	0.008752	0	0.0039	0.0049	Apr-04
38	May-04	M G E ENERGY INC	MGEE	30.34	-0.01419	0.33833	0.0040	-0.0182	May-04
38	Jun-04	M G E ENERGY INC	MGEE	32.63	0.075478	0	0.0048	0.0707	Jun-04
38	Jul-04	M G E ENERGY INC	MGEE	31.53	-0.03371	0	0.0043	-0.0380	Jul-04
38	Aug-04	M G E ENERGY INC	MGEE	31.98	0.025108	0.34167	0.0045	0.0206	Aug-04
38	Sep-04	M G E ENERGY INC	MGEE	31.82	-0.005	0	0.0040	-0.0090	Sep-04
38	Oct-04	M G E ENERGY INC	MGEE	31.69	-0.00409	0	0.0038	-0.0079	Oct-04
38	Nov-04	M G E ENERGY INC	MGEE	34.27	0.092195	0.34167	0.0041	0.0881	Nov-04
38	Dec-04	M G E ENERGY INC	MGEE	36.03	0.051357	0	0.0043	0.0471	Dec-04
38	Jan-05	M G E ENERGY INC	MGEE	35.91	-0.00333	0	0.0041	-0.0074	Jan-05
38	Feb-05	M G E ENERGY INC	MGEE	35.81	0.00673	0.34167	0.0035	0.0032	Feb-05
38	Mar-05	M G E ENERGY INC	MGEE	33.15	-0.07428	0	0.0041	-0.0784	Mar-05
38	Apr-05	M G E ENERGY INC	MGEE	33.32	0.005128	0	0.0039	0.0012	Apr-05
38	May-05	M G E ENERGY INC	MGEE	36	0.090686	0.34167	0.0040	0.0867	May-05
38	Jun-05	M G E ENERGY INC	MGEE	36.38	0.010556	0	0.0036	0.0070	Jun-05
38	Jul-05	M G E ENERGY INC	MGEE	37.03	0.017867	0	0.0034	0.0145	Jul-05
38	Aug-05	M G E ENERGY INC	MGEE	37.19	0.013638	0.345	0.0040	0.0096	Aug-05
38	Sep-05	M G E ENERGY INC	MGEE	36.51	-0.01828	0	0.0035	-0.0218	Sep-05
38	Oct-05	M G E ENERGY INC	MGEE	35.44	-0.02931	0	0.0039	-0.0332	Oct-05
38	Nov-05	M G E ENERGY INC	MGEE	34.97	-0.00353	0.345	0.0039	-0.0074	Nov-05

38	Dec-05	M G E ENERGY INC	MGEE	33.91	-0.03031	0	0.0039	-0.0342	Dec-05
38	Jan-06	M G E ENERGY INC	MGEE	34.51	0.017694	0	0.0040	0.0137	Jan-06
38	Feb-06	M G E ENERGY INC	MGEE	33.52	-0.01869	0.345	0.0036	-0.0223	Feb-06
38	Mar-06	M G E ENERGY INC	MGEE	33.18	-0.01014	0	0.0039	-0.0140	Mar-06
38	Apr-06	M G E ENERGY INC	MGEE	31.9	-0.03858	0	0.0039	-0.0425	Apr-06
38	May-06	M G E ENERGY INC	MGEE	30.94	-0.01928	0.345	0.0048	-0.0241	May-06
38	Jun-06	M G E ENERGY INC	MGEE	31.15	0.006787	0	0.0044	0.0024	Jun-06
38	Jul-06	M G E ENERGY INC	MGEE	32.48	0.042697	0	0.0045	0.0382	Jul-06
38	Aug-06	M G E ENERGY INC	MGEE	33.61	0.045515	0.34833	0.0043	0.0412	Aug-06
38	Sep-06	M G E ENERGY INC	MGEE	32.38	-0.0366	0	0.0039	-0.0405	Sep-06
38	Oct-06	M G E ENERGY INC	MGEE	34.2	0.056208	0	0.0042	0.0520	Oct-06
38	Nov-06	M G E ENERGY INC	MGEE	34.36	0.014863	0.34833	0.0039	0.0110	Nov-06
38	Dec-06	M G E ENERGY INC	MGEE	36.58	0.06461	0	0.0036	0.0610	Dec-06
38	Jan-07	M G E ENERGY INC	MGEE	34.2	-0.06506	0	0.0043	-0.0694	Jan-07
38	Feb-07	M G E ENERGY INC	MGEE	33.41	-0.01291	0.34833	0.0038	-0.0167	Feb-07
38	Mar-07	M G E ENERGY INC	MGEE	35.46	0.061359	0	0.0039	0.0575	Mar-07
38	Apr-07	M G E ENERGY INC	MGEE	36.12	0.018613	0	0.0042	0.0144	Apr-07
38	May-07	M G E ENERGY INC	MGEE	33.92	-0.05126	0.34833	0.0041	-0.0554	May-07
38	Jun-07	M G E ENERGY INC	MGEE	32.67	-0.03685	0	0.0040	-0.0409	Jun-07
38	Jul-07	M G E ENERGY INC	MGEE	30.01	-0.08142	0	0.0046	-0.0860	Jul-07
38	Aug-07	M G E ENERGY INC	MGEE	32.94	0.109463	0.355	0.0042	0.1053	Aug-07
38	Sep-07	M G E ENERGY INC	MGEE	33.44	0.015179	0	0.0037	0.0115	Sep-07
38	Oct-07	M G E ENERGY INC	MGEE	33.5	0.001794	0	0.0043	-0.0025	Oct-07
38	Nov-07	M G E ENERGY INC	MGEE	35.07	0.057463	0.355	0.0039	0.0536	Nov-07
38	Dec-07	M G E ENERGY INC	MGEE	35.47	0.011406	0	0.0037	0.0077	Dec-07
38	Jan-08	M G E ENERGY INC	MGEE	32.76	-0.0764	0	0.0040	-0.0804	Jan-08
38	Feb-08	M G E ENERGY INC	MGEE	31.56	-0.02579	0.355	0.0034	-0.0292	Feb-08
38	Mar-08	M G E ENERGY INC	MGEE	34.06	0.079214	0	0.0037	0.0755	Mar-08
38	Apr-08	M G E ENERGY INC	MGEE	34.79	0.021433	0	0.0035	0.0179	Apr-08
38	May-08	M G E ENERGY INC	MGEE	34.35	-0.00244	0.355	0.0037	-0.0061	May-08
38	Jun-08	M G E ENERGY INC	MGEE	32.62	-0.05036	0	0.0040	-0.0544	Jun-08
38	Jul-08	M G E ENERGY INC	MGEE	35.11	0.076334	0	0.0039	0.0724	Jul-08
38	Aug-08	M G E ENERGY INC	MGEE	33.9	-0.02416	0.3617	0.0036	-0.0278	Aug-08
38	Sep-08	M G E ENERGY INC	MGEE	35.55	0.048672	0	0.0039	0.0448	Sep-08
38	Oct-08	M G E ENERGY INC	MGEE	35.63	0.00225	0	0.0037	-0.0015	Oct-08
38	Nov-08	M G E ENERGY INC	MGEE	35.4	0.003696	0.3617	0.0036	0.0001	Nov-08
38	Dec-08	M G E ENERGY INC	MGEE	33	-0.0678	0	0.0033	-0.0711	Dec-08

38	Jan-09	M G E ENERGY INC	MGEE	32.05	-0.02879	0	0.0024	-0.0312	Jan-09
38	Feb-09	M G E ENERGY INC	MGEE	30.08	-0.05018	0.3617	0.0030	-0.0532	Feb-09
38	Mar-09	M G E ENERGY INC	MGEE	31.37	0.042886	0	0.0035	0.0394	Mar-09
38	Apr-09	M G E ENERGY INC	MGEE	30.68	-0.022	0	0.0029	-0.0249	Apr-09
38	May-09	M G E ENERGY INC	MGEE	31.03	0.023198	0.3617	0.0033	0.0199	May-09
38	Jun-09	M G E ENERGY INC	MGEE	33.55	0.081212	0	0.0038	0.0774	Jun-09
38	Jul-09	M G E ENERGY INC	MGEE	35.87	0.069151	0	0.0036	0.0656	Jul-09
38	Aug-09	M G E ENERGY INC	MGEE	35.43	-0.002	0.3684	0.0036	-0.0056	Aug-09
38	Sep-09	M G E ENERGY INC	MGEE	36.48	0.029636	0	0.0034	0.0262	Sep-09
38	Oct-09	M G E ENERGY INC	MGEE	35.02	-0.04002	0	0.0033	-0.0433	Oct-09
38	Nov-09	M G E ENERGY INC	MGEE	34.34	-0.0089	0.3684	0.0035	-0.0124	Nov-09
38	Dec-09	M G E ENERGY INC	MGEE	35.74	0.040769	0	0.0034	0.0374	Dec-09
38	Jan-10	M G E ENERGY INC	MGEE	33.43	-0.06463	0	0.0036	-0.0682	Jan-10
38	Feb-10	M G E ENERGY INC	MGEE	33.1899	0.003838	0.3684	0.0033	0.0005	Feb-10
38	Mar-10	M G E ENERGY INC	MGEE	35.36	0.065384	0	0.0040	0.0614	Mar-10
38	Apr-10	M G E ENERGY INC	MGEE	36.76	0.039593	0	0.0038	0.0358	Apr-10
38	May-10	M G E ENERGY INC	MGEE	35.32	-0.02915	0.3684	0.0034	-0.0326	May-10
38	Jun-10	M G E ENERGY INC	MGEE	36.04	0.020385	0	0.0037	0.0167	Jun-10
38	Jul-10	M G E ENERGY INC	MGEE	37.47	0.039678	0	0.0031	0.0366	Jul-10
38	Aug-10	M G E ENERGY INC	MGEE	37.32	0.006007	0.3751	0.0032	0.0028	Aug-10
38	Sep-10	M G E ENERGY INC	MGEE	39.59	0.060825	0	0.0026	0.0582	Sep-10
38	Oct-10	M G E ENERGY INC	MGEE	40.55	0.024249	0	0.0027	0.0215	Oct-10
38	Nov-10	M G E ENERGY INC	MGEE	41.29	0.027499	0.3751	0.0032	0.0243	Nov-10
38	Dec-10	M G E ENERGY INC	MGEE	42.76	0.035602	0	0.0032	0.0324	Dec-10
38	Jan-11	M G E ENERGY INC	MGEE	40.7	-0.04818	0	0.0035667	-0.0517	Jan-11
38	Feb-11	M G E ENERGY INC	MGEE	40.97	0.01585	0.3751	0.0036833	0.0122	Feb-11
38	Mar-11	M G E ENERGY INC	MGEE	40.49	-0.01172	0	0.0035583	-0.0153	Mar-11
38	Apr-11	M G E ENERGY INC	MGEE	42.01	0.03754	0	0.0035667	0.0340	Apr-11
38	May-11	M G E ENERGY INC	MGEE	41.64	0.000121	0.3751	0.0033417	-0.0032	May-11
38	Jun-11	M G E ENERGY INC	MGEE	40.53	-0.02666	0	0.0032583	-0.0299	Jun-11
38	Jul-11	M G E ENERGY INC	MGEE	41.08	0.01357	0	0.0032917	0.0103	Jul-11
38	Aug-11	M G E ENERGY INC	MGEE	42.15	0.03536	0.3826	0.0030417	0.0323	Aug-11
38	Sep-11	M G E ENERGY INC	MGEE	40.67	-0.03511	0	0.0023583	-0.0375	Sep-11
38	Oct-11	M G E ENERGY INC	MGEE	43.64	0.073027	0	0.0023917	0.0706	Oct-11
38	Nov-11	M G E ENERGY INC	MGEE	44.74	0.033973	0.3826	0.0022667	0.0317	Nov-11
38	Dec-11	M G E ENERGY INC	MGEE	46.77	0.045373	0	0.0024833	0.0429	Dec-11
38	Jan-12	M G E ENERGY INC	MGEE	44.86	-0.04084	0	0.0021	-0.0429	Jan-12

38	Feb-12	M G E ENERGY INC	MGEE	43.86	-0.01376	0.3826	0.002	-0.0158	Feb-12
38	Mar-12	M G E ENERGY INC	MGEE	44.39	0.012084	0	0.0022	0.0099	Mar-12
38	Apr-12	M G E ENERGY INC	MGEE	45.74	0.030412	0	0.0025	0.0279	Apr-12
38	May-12	M G E ENERGY INC	MGEE	45.13	-0.00497	0.3826	0.0023	-0.0073	May-12
38	Jun-12	M G E ENERGY INC	MGEE	47.3	0.048083	0	0.0018	0.0463	Jun-12
	Jul-12	M G E ENERGY INC	MGEE	47.94	0.013531	0	0.002	0.0115	Jul-12
	Aug-12	M G E ENERGY INC	MGEE	49.44	0.039529	0.395	0.0018	0.0377	Aug-12
	Sep-12	M G E ENERGY INC	MGEE	52.99	0.071804	0	0.0017	0.0701	Sep-12
	Oct-12	M G E ENERGY INC	MGEE	52.64	-0.00661	0	0.0021	-0.0087	Oct-12
	Nov-12	M G E ENERGY INC	MGEE	50.55	-0.0322	0.395	0.0019	-0.0341	Nov-12
	Dec-12	M G E ENERGY INC	MGEE	50.95	0.007913	0	0.0019	0.0060	Dec-12
	Jan-13	M G E ENERGY INC	MGEE	52.39	0.028263	0	0.0022	0.0261	Jan-13
	Feb-13	M G E ENERGY INC	MGEE	53.68	0.032163	0.395	0.0022	0.0300	Feb-13
	Mar-13	M G E ENERGY INC	MGEE	55.44	0.032787	0	0.0021	0.0307	Mar-13
	Apr-13	M G E ENERGY INC	MGEE	55.85	0.007395	0	0.0026	0.0048	Apr-13
	May-13	M G E ENERGY INC	MGEE	53.37	-0.03733	0.395	0.0023	-0.0396	May-13
	Jun-13	M G E ENERGY INC	MGEE	54.76	0.026045	0	0.0024	0.0236	Jun-13
	Jul-13	M G E ENERGY INC	MGEE	58.71	0.072133	0	0.003	0.0691	Jul-13
	Aug-13	M G E ENERGY INC	MGEE	52.11	-0.10547	0.4076	0.0028	-0.1083	Aug-13
	Sep-13	M G E ENERGY INC	MGEE	54.55	0.046824	0	0.0029	0.0439	Sep-13
	Oct-13	M G E ENERGY INC	MGEE	56.31	0.032264	0	0.0029	0.0294	Oct-13
	Nov-13	M G E ENERGY INC	MGEE	55.95	0.000852	0.408	0.0027	-0.0018	Nov-13
	Dec-13	M G E ENERGY INC	MGEE	57.71	0.031457	0	0.0031	0.0284	Dec-13
	Jan-14	M G E ENERGY INC	MGEE	56.94	-0.01334	0	0.0032	-0.0165	Jan-14
	Feb-14	M G E ENERGY INC	MGEE	38.58	0.023491	0.2717	0.0026	0.0209	Feb-14
	Mar-14	M G E ENERGY INC	MGEE	39.23	0.016848	0	0.0029	0.0139	Mar-14
	Apr-14	M G E ENERGY INC	MGEE	38.22	-0.02575	0	0.0028	-0.0285	Apr-14
	May-14	M G E ENERGY INC	MGEE	37.54	-0.01068	0.2717	0.0028	-0.0135	May-14
	Jun-14	M G E ENERGY INC	MGEE	39.51	0.052477	0	0.0025	0.0500	Jun-14
	Jul-14	M G E ENERGY INC	MGEE	37.62	-0.04784	0	0.0027	-0.0505	Jul-14
	Aug-14	M G E ENERGY INC	MGEE	40.23	0.076887	0.2825	0.0026	0.0743	Aug-14
	Sep-14	M G E ENERGY INC	MGEE	37.26	-0.07383	0	0.0023	-0.0761	Sep-14
	Oct-14	M G E ENERGY INC	MGEE	44.47	0.193505	0	0.0025	0.1910	Oct-14
	Nov-14	M G E ENERGY INC	MGEE	44.01	-0.00399	0.2825	0.0023	-0.0063	Nov-14
	Dec-14	M G E ENERGY INC	MGEE	45.61	0.036355	0	0.0022	0.0342	Dec-14
	Jan-15	M G E ENERGY INC	MGEE	45.9	0.006358	0	0.002	0.0044	Jan-15

Feb-15	M G E ENERGY INC	MGEE	43.09	-0.05507	0.2825	0.0015	-0.0566	Feb-15
Mar-15	M G E ENERGY INC	MGEE	44.32	0.028545	0	0.0021	0.0264	Mar-15
Apr-15	M G E ENERGY INC	MGEE	41.48	-0.06408	0	0.0019	-0.0660	Apr-15
May-15	M G E ENERGY INC	MGEE	38.73	-0.05949	0.2825	0.002	-0.0615	May-15
Jun-15	M G E ENERGY INC	MGEE	38.73	0	0	0.0023	-0.0023	Jun-15
Jul-15	M G E ENERGY INC	MGEE	39.68	0.024529	0	0.0024	0.0221288	Jul-15
Aug-15	M G E ENERGY INC	MGEE	38.46	-0.02331	0.295	0.0022	-0.025511	Aug-15
Sep-15	M G E ENERGY INC	MGEE	41.19	0.070983	0	0.0021	0.0688828	Sep-15
Oct-15	M G E ENERGY INC	MGEE	41.27	0.001942	0	0.0021	-0.000158	Oct-15
Nov-15	M G E ENERGY INC	MGEE	43.47	0.060456	0.295	0.0022	0.0582555	Nov-15
Dec-15	M G E ENERGY INC	MGEE	46.4	0.067403	0	0.0022	0.0652028	Dec-15
Jan-16	M G E ENERGY INC	MGEE	48.45	0.044181	0	0.0021	0.042081	Jan-16
Feb-16	M G E ENERGY INC	MGEE	48.54	0.007946	0.295	0.002	0.0059463	Feb-16
Mar-16	M G E ENERGY INC	MGEE	52.25	0.076432	0	0.0018	0.0746318	Mar-16
Apr-16	M G E ENERGY INC	MGEE	49.85	-0.04593	0	0.0017	-0.047633	Apr-16
May-16	M G E ENERGY INC	MGEE	50.71	0.02317	0.295	0.002	0.0211695	May-16
Jun-16	M G E ENERGY INC	MGEE	56.515	0.114474	0	0.0018	0.1126745	Jun-16
Jul-16	M G E ENERGY INC	MGEE	56.15	-0.00646	0	0.0014	-0.007858	Jul-16
Aug-16	M G E ENERGY INC	MGEE	54.94	-0.01607	0.3075	0.0016	-0.017673	Aug-16
Sep-16	M G E ENERGY INC	MGEE	56.51	0.028577	0	0.0015	0.0270766	Sep-16
Oct-16	M G E ENERGY INC	MGEE	58.45	0.03433	0	0.0016	0.0327302	Oct-16
Nov-16	M G E ENERGY INC	MGEE	59.2	0.018092	0.3075	0.0018	0.0162924	Nov-16
Dec-16	M G E ENERGY INC	MGEE	65.3	0.103041	0	0.0022	0.1008405	Dec-16
Jan-17	M G E ENERGY INC	MGEE	63.65	-0.02527	0	0.0024	-0.027668	Jan-17
Feb-17	M G E ENERGY INC	MGEE	63.95	0.009544	0.3075	0.0021	0.0074444	Feb-17
Mar-17	M G E ENERGY INC	MGEE	65	0.016419	0	0.0023	0.0141191	Mar-17
Apr-17	M G E ENERGY INC	MGEE	64.3	-0.01077	0	0.0021	-0.012869	Apr-17
May-17	M G E ENERGY INC	MGEE	65.1	0.017224	0.3075	0.0024	0.014824	May-17
Jun-17	M G E ENERGY INC	MGEE	64.35	-0.01152	0	0.0021	-0.013621	Jun-17
Jul-17	M G E ENERGY INC	MGEE	66.55	0.034188	0	0.0022	0.031988	Jul-17
Aug-17	M G E ENERGY INC	MGEE	63.6	-0.03948	0.3225	0.0022	-0.041682	Aug-17
Sep-17	M G E ENERGY INC	MGEE	64.6	0.015723	0	0.0019	0.0138233	Sep-17
Oct-17	M G E ENERGY INC	MGEE	66.05	0.022446	0	0.0022	0.0202458	Oct-17
Nov-17	M G E ENERGY INC	MGEE	66	0.004126	0.3225	0.0021	0.0020257	Nov-17
Dec-17	M G E ENERGY INC	MGEE	63.1	-0.04394	0	0.002	-0.045939	Dec-17
Jan-18	M G E ENERGY INC	MGEE	59.8	-0.0523	0	0.0024	-0.054698	Jan-18
Feb-18	M G E ENERGY INC	MGEE	52.5	-0.11668	0.3225	0.0022	-0.118881	Feb-18

Mar-18	M G E ENERGY INC	MGEE	56.1	0.068571	0	0.0024	0.0661714	Mar-18
Apr-18	M G E ENERGY INC	MGEE	58.05	0.034759	0	0.0025	0.0322594	Apr-18
May-18	M G E ENERGY INC	MGEE	59.65	0.033118	0.3225	0.0025	0.030618	May-18
Jun-18	M G E ENERGY INC	MGEE	63.05	0.056999	0	0.0023	0.0546992	Jun-18
Jul-18	M G E ENERGY INC	MGEE	64	0.015067	0	0.0025	0.0125674	Jul-18
Aug-18	M G E ENERGY INC	MGEE	65.45	0.02793	0.3375	0.0025	0.0254297	Aug-18
Sep-18	M G E ENERGY INC	MGEE	63.85	-0.02445	0	0.0022	-0.026646	Sep-18
Oct-18	M G E ENERGY INC	MGEE	62.48	-0.02146	0	0.003	-0.024457	Oct-18
Nov-18	M G E ENERGY INC	MGEE	66.09	0.06318	0.3375	0.0028	0.0603802	Nov-18
Dec-18	M G E ENERGY INC	MGEE	59.96	-0.09275	0	0.0027	-0.095452	Dec-18
Jan-19	M G E ENERGY INC	MGEE	64.31	0.072548	0	0.0025	0.0700484	Jan-19
Feb-19	M G E ENERGY INC	MGEE	63.92	-0.00082	0.3375	0.0022	-0.003016	Feb-19
Mar-19	M G E ENERGY INC	MGEE	67.97	0.06336	0	0.0023	0.0610605	Mar-19
Apr-19	M G E ENERGY INC	MGEE	67.79	-0.00265	0	0.0023	-0.004948	Apr-19
May-19	M G E ENERGY INC	MGEE	66.24	-0.01789	0.3375	0.0023	-0.020186	May-19
Jun-19	M G E ENERGY INC	MGEE	73.08	0.103261	0	0.0018	0.1014609	Jun-19
Jul-19	M G E ENERGY INC	MGEE	74.15	0.014641	0	0.0021	0.0125415	Jul-19
Aug-19	M G E ENERGY INC	MGEE	75.85	0.02768	0.3525	0.0019	0.0257804	Aug-19
Sep-19	M G E ENERGY INC	MGEE	79.87	0.052999	0	0.0015	0.0514993	Sep-19
Oct-19	M G E ENERGY INC	MGEE	77.04	-0.03543	0	0.0016	-0.037033	Oct-19
Nov-19	M G E ENERGY INC	MGEE	77.52	0.010806	0.3525	0.0016	0.0092061	Nov-19
Dec-19	M G E ENERGY INC	MGEE	78.82	0.01677	0	0.0018	0.0149699	Dec-19
Jan-20	M G E ENERGY INC	MGEE	79.93	0.014083	0	0.002	0.0120827	Jan-20
Feb-20	M G E ENERGY INC	MGEE	71.34	-0.10306	0.3525	0.0015	-0.104559	Feb-20
Mar-20	M G E ENERGY INC	MGEE	65.47	-0.08228	0	0.00123	-0.083512	Mar-20
Apr-20	M G E ENERGY INC	MGEE	64.66	-0.01237	0	0.0009	-0.013272	Apr-20
May-20	M G E ENERGY INC	MGEE	67.89	0.055405	0.3525	0.0009	0.0545052	May-20
Jun-20	M G E ENERGY INC	MGEE	64.51	-0.04979	0	0.0009	-0.050686	Jun-20
Jul-20	M G E ENERGY INC	MGEE	66.33	0.028213	0	0.001	0.0272127	Jul-20
Aug-20	M G E ENERGY INC	MGEE	64.99	-0.01462	0.37	0.0008	-0.015424	Aug-20
Sep-20	M G E ENERGY INC	MGEE	62.66	-0.03585	0	0	-0.035852	Sep-20
Oct-20	M G E ENERGY INC	MGEE	65.02	0.037664	0	0.0009	0.0367636	Oct-20
Nov-20	M G E ENERGY INC	MGEE	68.67	0.061827	0.37	0.0011	0.0607271	Nov-20
Dec-20	M G E ENERGY INC	MGEE	70.03	0.019805	0	0.0011	0.0187049	Dec-20
Jan-21	M G E ENERGY INC	MGEE	63.68	-0.09068	0	0.0015167	-0.092192	Jan-21
Feb-21	M G E ENERGY INC	MGEE	63.7	0.006124	0.37	0.0017	0.0044244	Feb-21
Mar-21	M G E ENERGY INC	MGEE	71.39	0.120722	0	0.00195	0.1187721	Mar-21

Apr-21	M G E ENERGY INC	MGEE	74.81	0.047906	0	0.0019167	0.0459892	Apr-21
May-21	M G E ENERGY INC	MGEE	75.02	0.007753	0.37	0.0019333	0.0058196	May-21
Jun-21	M G E ENERGY INC	MGEE	74.44	-0.00773	0	0.0018	-0.009531	Jun-21
Jul-21	M G E ENERGY INC	MGEE	78.12	0.049436	0	0.0016167	0.0478191	Jul-21
Aug-21	M G E ENERGY INC	MGEE	80.54	0.035938	0.3875	0.0016	0.0343383	Aug-21

Unique Index Number	Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP	Trading Date
	Jan-26						0.0031		Jan-26
	Feb-26						0.0028		Feb-26
	Mar-26						0.0032		Mar-26
	Apr-26						0.0030		Apr-26
	May-26						0.0028		May-26
	Jun-26						0.0033		Jun-26
	Jul-26						0.0031		Jul-26
	Aug-26						0.0031		Aug-26
	Sep-26						0.0030		Sep-26
	Oct-26						0.0030		Oct-26
	Nov-26						0.0031		Nov-26
	Dec-26						0.0030		Dec-26
	Jan-27						0.0030		Jan-27
	Feb-27						0.0027		Feb-27
	Mar-27						0.0029		Mar-27
	Apr-27						0.0027		Apr-27
	May-27						0.0028		May-27
	Jun-27						0.0027		Jun-27
	Jul-27						0.0027		Jul-27
	Aug-27						0.0029		Aug-27
	Sep-27						0.0027		Sep-27
	Oct-27						0.0028		Oct-27
	Nov-27						0.0027		Nov-27
	Dec-27						0.0027		Dec-27
	Jan-28						0.0027		Jan-28
	Feb-28						0.0025		Feb-28
	Mar-28						0.0027		Mar-28
	Apr-28						0.0026		Apr-28
	May-28						0.0027		May-28
	Jun-28						0.0027		Jun-28
	Jul-28						0.0027		Jul-28
	Aug-28						0.0029		Aug-28
	Sep-28						0.0027		Sep-28

Oct-28	0.0030	Oct-28
Nov-28	0.0027	Nov-28
Dec-28	0.0029	Dec-28
Jan-29	0.0029	Jan-29
Feb-29	0.0027	Feb-29
Mar-29	0.0028	Mar-29
Apr-29	0.0034	Apr-29
May-29	0.0030	May-29
Jun-29	0.0029	Jun-29
Jul-29	0.0032	Jul-29
Aug-29	0.0030	Aug-29
Sep-29	0.0032	Sep-29
Oct-29	0.0031	Oct-29
Nov-29	0.0026	Nov-29
Dec-29	0.0031	Dec-29
Jan-30	0.0029	Jan-30
Feb-30	0.0026	Feb-30
Mar-30	0.0029	Mar-30
Apr-30	0.0027	Apr-30
May-30	0.0027	May-30
Jun-30	0.0029	Jun-30
Jul-30	0.0028	Jul-30
Aug-30	0.0026	Aug-30
Sep-30	0.0029	Sep-30
Oct-30	0.0027	Oct-30
Nov-30	0.0026	Nov-30
Dec-30	0.0028	Dec-30
Jan-31	0.0028	Jan-31
Feb-31	0.0026	Feb-31
Mar-31	0.0029	Mar-31
Apr-31	0.0027	Apr-31
May-31	0.0026	May-31
Jun-31	0.0028	Jun-31
Jul-31	0.0027	Jul-31
Aug-31	0.0027	Aug-31
Sep-31	0.0027	Sep-31

Oct-31	0.0029	Oct-31
Nov-31	0.0031	Nov-31
Dec-31	0.0032	Dec-31
Jan-32	0.0032	Jan-32
Feb-32	0.0032	Feb-32
Mar-32	0.0031	Mar-32
Apr-32	0.0030	Apr-32
May-32	0.0028	May-32
Jun-32	0.0028	Jun-32
Jul-32	0.0028	Jul-32
Aug-32	0.0028	Aug-32
Sep-32	0.0026	Sep-32
Oct-32	0.0027	Oct-32
Nov-32	0.0026	Nov-32
Dec-32	0.0027	Dec-32
Jan-33	0.0027	Jan-33
Feb-33	0.0023	Feb-33
Mar-33	0.0027	Mar-33
Apr-33	0.0025	Apr-33
May-33	0.0028	May-33
Jun-33	0.0025	Jun-33
Jul-33	0.0026	Jul-33
Aug-33	0.0026	Aug-33
Sep-33	0.0025	Sep-33
Oct-33	0.0026	Oct-33
Nov-33	0.0025	Nov-33
Dec-33	0.0028	Dec-33
Jan-34	0.0029	Jan-34
Feb-34	0.0024	Feb-34
Mar-34	0.0027	Mar-34
Apr-34	0.0025	Apr-34
May-34	0.0025	May-34
Jun-34	0.0024	Jun-34
Jul-34	0.0024	Jul-34
Aug-34	0.0024	Aug-34
Sep-34	0.0023	Sep-34

Oct-34	0.0027	Oct-34
Nov-34	0.0025	Nov-34
Dec-34	0.0025	Dec-34
Jan-35	0.0025	Jan-35
Feb-35	0.0021	Feb-35
Mar-35	0.0022	Mar-35
Apr-35	0.0023	Apr-35
May-35	0.0023	May-35
Jun-35	0.0022	Jun-35
Jul-35	0.0024	Jul-35
Aug-35	0.0023	Aug-35
Sep-35	0.0023	Sep-35
Oct-35	0.0023	Oct-35
Nov-35	0.0024	Nov-35
Dec-35	0.0024	Dec-35
Jan-36	0.0024	Jan-36
Feb-36	0.0023	Feb-36
Mar-36	0.0024	Mar-36
Apr-36	0.0022	Apr-36
May-36	0.0022	May-36
Jun-36	0.0024	Jun-36
Jul-36	0.0023	Jul-36
Aug-36	0.0023	Aug-36
Sep-36	0.0021	Sep-36
Oct-36	0.0023	Oct-36
Nov-36	0.0022	Nov-36
Dec-36	0.0022	Dec-36
Jan-37	0.0021	Jan-37
Feb-37	0.0020	Feb-37
Mar-37	0.0022	Mar-37
Apr-37	0.0023	Apr-37
May-37	0.0022	May-37
Jun-37	0.0025	Jun-37
Jul-37	0.0024	Jul-37
Aug-37	0.0023	Aug-37
Sep-37	0.0023	Sep-37

Oct-37	0.0023	Oct-37
Nov-37	0.0024	Nov-37
Dec-37	0.0023	Dec-37
Jan-38	0.0023	Jan-38
Feb-38	0.0021	Feb-38
Mar-38	0.0023	Mar-38
Apr-38	0.0022	Apr-38
May-38	0.0022	May-38
Jun-38	0.0021	Jun-38
Jul-38	0.0021	Jul-38
Aug-38	0.0022	Aug-38
Sep-38	0.0021	Sep-38
Oct-38	0.0022	Oct-38
Nov-38	0.0021	Nov-38
Dec-38	0.0022	Dec-38
Jan-39	0.0021	Jan-39
Feb-39	0.0019	Feb-39
Mar-39	0.0021	Mar-39
Apr-39	0.0019	Apr-39
May-39	0.0020	May-39
Jun-39	0.0018	Jun-39
Jul-39	0.0019	Jul-39
Aug-39	0.0018	Aug-39
Sep-39	0.0019	Sep-39
Oct-39	0.0023	Oct-39
Nov-39	0.0020	Nov-39
Dec-39	0.0019	Dec-39
Jan-40	0.0020	Jan-40
Feb-40	0.0018	Feb-40
Mar-40	0.0019	Mar-40
Apr-40	0.0018	Apr-40
May-40	0.0019	May-40
Jun-40	0.0019	Jun-40
Jul-40	0.0020	Jul-40
Aug-40	0.0019	Aug-40
Sep-40	0.0018	Sep-40

Oct-40	0.0018	Oct-40
Nov-40	0.0018	Nov-40
Dec-40	0.0017	Dec-40
Jan-41	0.0016	Jan-41
Feb-41	0.0016	Feb-41
Mar-41	0.0018	Mar-41
Apr-41	0.0017	Apr-41
May-41	0.0017	May-41
Jun-41	0.0016	Jun-41
Jul-41	0.0016	Jul-41
Aug-41	0.0016	Aug-41
Sep-41	0.0016	Sep-41
Oct-41	0.0016	Oct-41
Nov-41	0.0014	Nov-41
Dec-41	0.0016	Dec-41
Jan-42	0.0021	Jan-42
Feb-42	0.0019	Feb-42
Mar-42	0.0021	Mar-42
Apr-42	0.0020	Apr-42
May-42	0.0019	May-42
Jun-42	0.0021	Jun-42
Jul-42	0.0021	Jul-42
Aug-42	0.0021	Aug-42
Sep-42	0.0020	Sep-42
Oct-42	0.0021	Oct-42
Nov-42	0.0020	Nov-42
Dec-42	0.0021	Dec-42
Jan-43	0.0020	Jan-43
Feb-43	0.0019	Feb-43
Mar-43	0.0021	Mar-43
Apr-43	0.0020	Apr-43
May-43	0.0019	May-43
Jun-43	0.0021	Jun-43
Jul-43	0.0021	Jul-43
Aug-43	0.0021	Aug-43
Sep-43	0.0020	Sep-43

Oct-43	0.0020	Oct-43
Nov-43	0.0021	Nov-43
Dec-43	0.0021	Dec-43
Jan-44	0.0021	Jan-44
Feb-44	0.0020	Feb-44
Mar-44	0.0021	Mar-44
Apr-44	0.0020	Apr-44
May-44	0.0022	May-44
Jun-44	0.0020	Jun-44
Jul-44	0.0021	Jul-44
Aug-44	0.0021	Aug-44
Sep-44	0.0020	Sep-44
Oct-44	0.0021	Oct-44
Nov-44	0.0020	Nov-44
Dec-44	0.0020	Dec-44
Jan-45	0.0021	Jan-45
Feb-45	0.0018	Feb-45
Mar-45	0.0020	Mar-45
Apr-45	0.0019	Apr-45
May-45	0.0019	May-45
Jun-45	0.0019	Jun-45
Jul-45	0.0018	Jul-45
Aug-45	0.0019	Aug-45
Sep-45	0.0018	Sep-45
Oct-45	0.0019	Oct-45
Nov-45	0.0018	Nov-45
Dec-45	0.0018	Dec-45
Jan-46	0.0017	Jan-46
Feb-46	0.0015	Feb-46
Mar-46	0.0016	Mar-46
Apr-46	0.0017	Apr-46
May-46	0.0018	May-46
Jun-46	0.0016	Jun-46
Jul-46	0.0019	Jul-46
Aug-46	0.0017	Aug-46
Sep-46	0.0018	Sep-46

Oct-46	0.0019	Oct-46
Nov-46	0.0018	Nov-46
Dec-46	0.0019	Dec-46
Jan-47	0.0018	Jan-47
Feb-47	0.0016	Feb-47
Mar-47	0.0018	Mar-47
Apr-47	0.0017	Apr-47
May-47	0.0017	May-47
Jun-47	0.0019	Jun-47
Jul-47	0.0018	Jul-47
Aug-47	0.0017	Aug-47
Sep-47	0.0018	Sep-47
Oct-47	0.0018	Oct-47
Nov-47	0.0017	Nov-47
Dec-47	0.0021	Dec-47
Jan-48	0.0020	Jan-48
Feb-48	0.0019	Feb-48
Mar-48	0.0022	Mar-48
Apr-48	0.0020	Apr-48
May-48	0.0018	May-48
Jun-48	0.0021	Jun-48
Jul-48	0.0019	Jul-48
Aug-48	0.0021	Aug-48
Sep-48	0.0020	Sep-48
Oct-48	0.0019	Oct-48
Nov-48	0.0021	Nov-48
Dec-48	0.0020	Dec-48
Jan-49	0.0020	Jan-49
Feb-49	0.0018	Feb-49
Mar-49	0.0019	Mar-49
Apr-49	0.0018	Apr-49
May-49	0.0020	May-49
Jun-49	0.0019	Jun-49
Jul-49	0.0017	Jul-49
Aug-49	0.0019	Aug-49
Sep-49	0.0017	Sep-49

Oct-49	0.0018	Oct-49
Nov-49	0.0017	Nov-49
Dec-49	0.0017	Dec-49
Jan-50	0.0018	Jan-50
Feb-50	0.0016	Feb-50
Mar-50	0.0018	Mar-50
Apr-50	0.0016	Apr-50
May-50	0.0019	May-50
Jun-50	0.0017	Jun-50
Jul-50	0.0018	Jul-50
Aug-50	0.0018	Aug-50
Sep-50	0.0017	Sep-50
Oct-50	0.0019	Oct-50
Nov-50	0.0018	Nov-50
Dec-50	0.0018	Dec-50
Jan-51	0.0020	Jan-51
Feb-51	0.0017	Feb-51
Mar-51	0.0019	Mar-51
Apr-51	0.0020	Apr-51
May-51	0.0021	May-51
Jun-51	0.0020	Jun-51
Jul-51	0.0023	Jul-51
Aug-51	0.0021	Aug-51
Sep-51	0.0019	Sep-51
Oct-51	0.0023	Oct-51
Nov-51	0.0021	Nov-51
Dec-51	0.0022	Dec-51
Jan-52	0.0023	Jan-52
Feb-52	0.0021	Feb-52
Mar-52	0.0023	Mar-52
Apr-52	0.0022	Apr-52
May-52	0.0020	May-52
Jun-52	0.0022	Jun-52
Jul-52	0.0022	Jul-52
Aug-52	0.0021	Aug-52
Sep-52	0.0023	Sep-52

Oct-52	0.0023	Oct-52
Nov-52	0.0021	Nov-52
Dec-52	0.0024	Dec-52
Jan-53	0.0023	Jan-53
Feb-53	0.0021	Feb-53
Mar-53	0.0025	Mar-53
Apr-53	0.0024	Apr-53
May-53	0.0024	May-53
Jun-53	0.0027	Jun-53
Jul-53	0.0025	Jul-53
Aug-53	0.0025	Aug-53
Sep-53	0.0025	Sep-53
Oct-53	0.0023	Oct-53
Nov-53	0.0024	Nov-53
Dec-53	0.0024	Dec-53
Jan-54	0.0023	Jan-54
Feb-54	0.0022	Feb-54
Mar-54	0.0025	Mar-54
Apr-54	0.0022	Apr-54
May-54	0.0020	May-54
Jun-54	0.0025	Jun-54
Jul-54	0.0022	Jul-54
Aug-54	0.0023	Aug-54
Sep-54	0.0022	Sep-54
Oct-54	0.0021	Oct-54
Nov-54	0.0023	Nov-54
Dec-54	0.0023	Dec-54
Jan-55	0.0022	Jan-55
Feb-55	0.0022	Feb-55
Mar-55	0.0024	Mar-55
Apr-55	0.0022	Apr-55
May-55	0.0025	May-55
Jun-55	0.0023	Jun-55
Jul-55	0.0023	Jul-55
Aug-55	0.0027	Aug-55
Sep-55	0.0024	Sep-55

Oct-55	0.0025	Oct-55
Nov-55	0.0024	Nov-55
Dec-55	0.0024	Dec-55
Jan-56	0.0025	Jan-56
Feb-56	0.0023	Feb-56
Mar-56	0.0023	Mar-56
Apr-56	0.0026	Apr-56
May-56	0.0026	May-56
Jun-56	0.0023	Jun-56
Jul-56	0.0026	Jul-56
Aug-56	0.0026	Aug-56
Sep-56	0.0025	Sep-56
Oct-56	0.0029	Oct-56
Nov-56	0.0027	Nov-56
Dec-56	0.0028	Dec-56
Jan-57	0.0029	Jan-57
Feb-57	0.0025	Feb-57
Mar-57	0.0026	Mar-57
Apr-57	0.0029	Apr-57
May-57	0.0029	May-57
Jun-57	0.0025	Jun-57
Jul-57	0.0033	Jul-57
Aug-57	0.0030	Aug-57
Sep-57	0.0031	Sep-57
Oct-57	0.0031	Oct-57
Nov-57	0.0029	Nov-57
Dec-57	0.0029	Dec-57
Jan-58	0.0027	Jan-58
Feb-58	0.0025	Feb-58
Mar-58	0.0027	Mar-58
Apr-58	0.0026	Apr-58
May-58	0.0024	May-58
Jun-58	0.0027	Jun-58
Jul-58	0.0027	Jul-58
Aug-58	0.0027	Aug-58
Sep-58	0.0032	Sep-58

Oct-58	0.0032	Oct-58
Nov-58	0.0028	Nov-58
Dec-58	0.0033	Dec-58
Jan-59	0.0031	Jan-59
Feb-59	0.0031	Feb-59
Mar-59	0.0035	Mar-59
Apr-59	0.0033	Apr-59
May-59	0.0033	May-59
Jun-59	0.0036	Jun-59
Jul-59	0.0035	Jul-59
Aug-59	0.0035	Aug-59
Sep-59	0.0034	Sep-59
Oct-59	0.0035	Oct-59
Nov-59	0.0035	Nov-59
Dec-59	0.0036	Dec-59
Jan-60	0.0035	Jan-60
Feb-60	0.0037	Feb-60
Mar-60	0.0036	Mar-60
Apr-60	0.0032	Apr-60
May-60	0.0037	May-60
Jun-60	0.0034	Jun-60
Jul-60	0.0032	Jul-60
Aug-60	0.0034	Aug-60
Sep-60	0.0032	Sep-60
Oct-60	0.0033	Oct-60
Nov-60	0.0032	Nov-60
Dec-60	0.0033	Dec-60
Jan-61	0.0033	Jan-61
Feb-61	0.0030	Feb-61
Mar-61	0.0031	Mar-61
Apr-61	0.0031	Apr-61
May-61	0.0034	May-61
Jun-61	0.0032	Jun-61
Jul-61	0.0033	Jul-61
Aug-61	0.0033	Aug-61
Sep-61	0.0032	Sep-61

Oct-61	0.0034	Oct-61
Nov-61	0.0032	Nov-61
Dec-61	0.0031	Dec-61
Jan-62	0.0037	Jan-62
Feb-62	0.0032	Feb-62
Mar-62	0.0033	Mar-62
Apr-62	0.0033	Apr-62
May-62	0.0032	May-62
Jun-62	0.0030	Jun-62
Jul-62	0.0034	Jul-62
Aug-62	0.0034	Aug-62
Sep-62	0.0030	Sep-62
Oct-62	0.0035	Oct-62
Nov-62	0.0031	Nov-62
Dec-62	0.0032	Dec-62
Jan-63	0.0032	Jan-63
Feb-63	0.0029	Feb-63
Mar-63	0.0031	Mar-63
Apr-63	0.0034	Apr-63
May-63	0.0033	May-63
Jun-63	0.0030	Jun-63
Jul-63	0.0036	Jul-63
Aug-63	0.0033	Aug-63
Sep-63	0.0034	Sep-63
Oct-63	0.0034	Oct-63
Nov-63	0.0032	Nov-63
Dec-63	0.0036	Dec-63
Jan-64	0.0035	Jan-64
Feb-64	0.0032	Feb-64
Mar-64	0.0037	Mar-64
Apr-64	0.0035	Apr-64
May-64	0.0032	May-64
Jun-64	0.0038	Jun-64
Jul-64	0.0035	Jul-64
Aug-64	0.0035	Aug-64
Sep-64	0.0034	Sep-64

Oct-64	0.0034	Oct-64
Nov-64	0.0035	Nov-64
Dec-64	0.0035	Dec-64
Jan-65	0.0033	Jan-65
Feb-65	0.0032	Feb-65
Mar-65	0.0038	Mar-65
Apr-65	0.0033	Apr-65
May-65	0.0033	May-65
Jun-65	0.0038	Jun-65
Jul-65	0.0034	Jul-65
Aug-65	0.0037	Aug-65
Sep-65	0.0035	Sep-65
Oct-65	0.0034	Oct-65
Nov-65	0.0037	Nov-65
Dec-65	0.0037	Dec-65
Jan-66	0.0038	Jan-66
Feb-66	0.0034	Feb-66
Mar-66	0.0040	Mar-66
Apr-66	0.0036	Apr-66
May-66	0.0041	May-66
Jun-66	0.0039	Jun-66
Jul-66	0.0038	Jul-66
Aug-66	0.0043	Aug-66
Sep-66	0.0041	Sep-66
Oct-66	0.0040	Oct-66
Nov-66	0.0038	Nov-66
Dec-66	0.0039	Dec-66
Jan-67	0.0040	Jan-67
Feb-67	0.0034	Feb-67
Mar-67	0.0039	Mar-67
Apr-67	0.0035	Apr-67
May-67	0.0043	May-67
Jun-67	0.0039	Jun-67
Jul-67	0.0043	Jul-67
Aug-67	0.0042	Aug-67
Sep-67	0.0040	Sep-67

Oct-67	0.0045	Oct-67
Nov-67	0.0045	Nov-67
Dec-67	0.0044	Dec-67
Jan-68	0.0050	Jan-68
Feb-68	0.0042	Feb-68
Mar-68	0.0043	Mar-68
Apr-68	0.0049	Apr-68
May-68	0.0046	May-68
Jun-68	0.0042	Jun-68
Jul-68	0.0048	Jul-68
Aug-68	0.0042	Aug-68
Sep-68	0.0044	Sep-68
Oct-68	0.0045	Oct-68
Nov-68	0.0043	Nov-68
Dec-68	0.0049	Dec-68
Jan-69	0.0050	Jan-69
Feb-69	0.0046	Feb-69
Mar-69	0.0047	Mar-69
Apr-69	0.0055	Apr-69
May-69	0.0047	May-69
Jun-69	0.0055	Jun-69
Jul-69	0.0052	Jul-69
Aug-69	0.0048	Aug-69
Sep-69	0.0055	Sep-69
Oct-69	0.0057	Oct-69
Nov-69	0.0049	Nov-69
Dec-69	0.0060	Dec-69
Jan-70	0.0056	Jan-70
Feb-70	0.0052	Feb-70
Mar-70	0.0056	Mar-70
Apr-70	0.0054	Apr-70
May-70	0.0055	May-70
Jun-70	0.0064	Jun-70
Jul-70	0.0059	Jul-70
Aug-70	0.0057	Aug-70
Sep-70	0.0056	Sep-70

Oct-70	0.0055	Oct-70
Nov-70	0.0058	Nov-70
Dec-70	0.0053	Dec-70
Jan-71	0.0051	Jan-71
Feb-71	0.0046	Feb-71
Mar-71	0.0056	Mar-71
Apr-71	0.0048	Apr-71
May-71	0.0047	May-71
Jun-71	0.0056	Jun-71
Jul-71	0.0052	Jul-71
Aug-71	0.0055	Aug-71
Sep-71	0.0049	Sep-71
Oct-71	0.0047	Oct-71
Nov-71	0.0051	Nov-71
Dec-71	0.0050	Dec-71
Jan-72	0.0050	Jan-72
Feb-72	0.0047	Feb-72
Mar-72	0.0049	Mar-72
Apr-72	0.0048	Apr-72
May-72	0.0055	May-72
Jun-72	0.0049	Jun-72
Jul-72	0.0051	Jul-72
Aug-72	0.0049	Aug-72
Sep-72	0.0047	Sep-72
Oct-72	0.0052	Oct-72
Nov-72	0.0048	Nov-72
Dec-72	0.0045	Dec-72
Jan-73	0.0054	Jan-73
Feb-73	0.0051	Feb-73
Mar-73	0.0056	Mar-73
Apr-73	0.0057	Apr-73
May-73	0.0058	May-73
Jun-73	0.0055	Jun-73
Jul-73	0.0061	Jul-73
Aug-73	0.0062	Aug-73
Sep-73	0.0055	Sep-73

Oct-73	0.0063	Oct-73
Nov-73	0.0056	Nov-73
Dec-73	0.0060	Dec-73
Jan-74	0.0061	Jan-74
Feb-74	0.0055	Feb-74
Mar-74	0.0058	Mar-74
Apr-74	0.0068	Apr-74
May-74	0.0068	May-74
Jun-74	0.0061	Jun-74
Jul-74	0.0072	Jul-74
Aug-74	0.0065	Aug-74
Sep-74	0.0071	Sep-74
Oct-74	0.0070	Oct-74
Nov-74	0.0062	Nov-74
Dec-74	0.0067	Dec-74
Jan-75	0.0068	Jan-75
Feb-75	0.0060	Feb-75
Mar-75	0.0066	Mar-75
Apr-75	0.0067	Apr-75
May-75	0.0067	May-75
Jun-75	0.0070	Jun-75
Jul-75	0.0068	Jul-75
Aug-75	0.0065	Aug-75
Sep-75	0.0073	Sep-75
Oct-75	0.0072	Oct-75
Nov-75	0.0061	Nov-75
Dec-75	0.0074	Dec-75
Jan-76	0.0065	Jan-76
Feb-76	0.0060	Feb-76
Mar-76	0.0071	Mar-76
Apr-76	0.0064	Apr-76
May-76	0.0059	May-76
Jun-76	0.0073	Jun-76
Jul-76	0.0065	Jul-76
Aug-76	0.0069	Aug-76
Sep-76	0.0064	Sep-76

Oct-76	0.0061	Oct-76
Nov-76	0.0066	Nov-76
Dec-76	0.0063	Dec-76
Jan-77	0.0059	Jan-77
Feb-77	0.0057	Feb-77
Mar-77	0.0065	Mar-77
Apr-77	0.0061	Apr-77
May-77	0.0067	May-77
Jun-77	0.0062	Jun-77
Jul-77	0.0059	Jul-77
Aug-77	0.0067	Aug-77
Sep-77	0.0061	Sep-77
Oct-77	0.0063	Oct-77
Nov-77	0.0063	Nov-77
Dec-77	0.0062	Dec-77
Jan-78	0.0069	Jan-78
Feb-78	0.0060	Feb-78
Mar-78	0.0069	Mar-78
Apr-78	0.0063	Apr-78
May-78	0.0075	May-78
Jun-78	0.0069	Jun-78
Jul-78	0.0073	Jul-78
Aug-78	0.0070	Aug-78
Sep-78	0.0065	Sep-78
Oct-78	0.0073	Oct-78
Nov-78	0.0071	Nov-78
Dec-78	0.0068	Dec-78
Jan-79	0.0079	Jan-79
Feb-79	0.0065	Feb-79
Mar-79	0.0074	Mar-79
Apr-79	0.0076	Apr-79
May-79	0.0077	May-79
Jun-79	0.0071	Jun-79
Jul-79	0.0076	Jul-79
Aug-79	0.0073	Aug-79
Sep-79	0.0068	Sep-79

Oct-79	0.0082	Oct-79
Nov-79	0.0083	Nov-79
Dec-79	0.0083	Dec-79
Jan-80	0.0083	Jan-80
Feb-80	0.0084	Feb-80
Mar-80	0.0099	Mar-80
Apr-80	0.0100	Apr-80
May-80	0.0087	May-80
Jun-80	0.0086	Jun-80
Jul-80	0.0084	Jul-80
Aug-80	0.0081	Aug-80
Sep-80	0.0097	Sep-80
Oct-80	0.0097	Oct-80
Nov-80	0.0091	Nov-80
Dec-80	0.0108	Dec-80
Jan-81	0.0094	Jan-81
Feb-81	0.0088	Feb-81
Mar-81	0.0111	Mar-81
Apr-81	0.0101	Apr-81
May-81	0.0104	May-81
Jun-81	0.0109	Jun-81
Jul-81	0.0109	Jul-81
Aug-81	0.0110	Aug-81
Sep-81	0.0114	Sep-81
Oct-81	0.0117	Oct-81
Nov-81	0.0113	Nov-81
Dec-81	0.0100	Dec-81
Jan-82	0.0108	Jan-82
Feb-82	0.0103	Feb-82
Mar-82	0.0124	Mar-82
Apr-82	0.0112	Apr-82
May-82	0.0101	May-82
Jun-82	0.0120	Jun-82
Jul-82	0.0114	Jul-82
Aug-82	0.0112	Aug-82
Sep-82	0.0100	Sep-82

Oct-82	0.0091	Oct-82
Nov-82	0.0094	Nov-82
Dec-82	0.0093	Dec-82
Jan-83	0.0087	Jan-83
Feb-83	0.0081	Feb-83
Mar-83	0.0089	Mar-83
Apr-83	0.0085	Apr-83
May-83	0.0091	May-83
Jun-83	0.0090	Jun-83
Jul-83	0.0088	Jul-83
Aug-83	0.0103	Aug-83
Sep-83	0.0096	Sep-83
Oct-83	0.0095	Oct-83
Nov-83	0.0094	Nov-83
Dec-83	0.0094	Dec-83
Jan-84	0.0103	Jan-84
Feb-84	0.0092	Feb-84
Mar-84	0.0098	Mar-84
Apr-84	0.0104	Apr-84
May-84	0.0103	May-84
Jun-84	0.0106	Jun-84
Jul-84	0.0116	Jul-84
Aug-84	0.0106	Aug-84
Sep-84	0.0094	Sep-84
Oct-84	0.0108	Oct-84
Nov-84	0.0091	Nov-84
Dec-84	0.0098	Dec-84
Jan-85	0.0096	Jan-85
Feb-85	0.0082	Feb-85
Mar-85	0.0094	Mar-85
Apr-85	0.0102	Apr-85
May-85	0.0097	May-85
Jun-85	0.0080	Jun-85
Jul-85	0.0094	Jul-85
Aug-85	0.0085	Aug-85
Sep-85	0.0088	Sep-85

Oct-85	0.0089	Oct-85
Nov-85	0.0081	Nov-85
Dec-85	0.0086	Dec-85
Jan-86	0.0079	Jan-86
Feb-86	0.0073	Feb-86
Mar-86	0.0071	Mar-86
Apr-86	0.0063	Apr-86
May-86	0.0062	May-86
Jun-86	0.0070	Jun-86
Jul-86	0.0066	Jul-86
Aug-86	0.0063	Aug-86
Sep-86	0.0065	Sep-86
Oct-86	0.0069	Oct-86
Nov-86	0.0059	Nov-86
Dec-86	0.0070	Dec-86
Jan-87	0.0064	Jan-87
Feb-87	0.0059	Feb-87
Mar-87	0.0066	Mar-87
Apr-87	0.0065	Apr-87
May-87	0.0066	May-87
Jun-87	0.0075	Jun-87
Jul-87	0.0073	Jul-87
Aug-87	0.0075	Aug-87
Sep-87	0.0075	Sep-87
Oct-87	0.0079	Oct-87
Nov-87	0.0075	Nov-87
Dec-87	0.0078	Dec-87
Jan-88	0.0072	Jan-88
Feb-88	0.0071	Feb-88
Mar-88	0.0072	Mar-88
Apr-88	0.0070	Apr-88
May-88	0.0078	May-88
Jun-88	0.0076	Jun-88
Jul-88	0.0071	Jul-88
Aug-88	0.0083	Aug-88
Sep-88	0.0076	Sep-88

Oct-88	0.0076	Oct-88
Nov-88	0.0070	Nov-88
Dec-88	0.0075	Dec-88
Jan-89	0.0080	Jan-89
Feb-89	0.0069	Feb-89
Mar-89	0.0079	Mar-89
Apr-89	0.0070	Apr-89
May-89	0.0080	May-89
Jun-89	0.0070	Jun-89
Jul-89	0.0068	Jul-89
Aug-89	0.0066	Aug-89
Sep-89	0.0065	Sep-89
Oct-89	0.0072	Oct-89
Nov-89	0.0064	Nov-89
Dec-89	0.0064	Dec-89
Jan-90	0.0073	Jan-90
Feb-90	0.0066	Feb-90
Mar-90	0.0071	Mar-90
Apr-90	0.0075	Apr-90
May-90	0.0075	May-90
Jun-90	0.0068	Jun-90
Jul-90	0.0074	Jul-90
Aug-90	0.0071	Aug-90
Sep-90	0.0069	Sep-90
Oct-90	0.0081	Oct-90
Nov-90	0.0071	Nov-90
Dec-90	0.0072	Dec-90
Jan-91	0.0071	Jan-91
Feb-91	0.0064	Feb-91
Mar-91	0.0064	Mar-91
Apr-91	0.0076	Apr-91
May-91	0.0068	May-91
Jun-91	0.0063	Jun-91
Jul-91	0.0076	Jul-91
Aug-91	0.0068	Aug-91
Sep-91	0.0068	Sep-91

Oct-91	0.0065	Oct-91
Nov-91	0.0060	Nov-91
Dec-91	0.0068	Dec-91
Jan-92	0.0061	Jan-92
Feb-92	0.0059	Feb-92
Mar-92	0.0067	Mar-92
Apr-92	0.0065	Apr-92
May-92	0.0061	May-92
Jun-92	0.0067	Jun-92
Jul-92	0.0063	Jul-92
Aug-92	0.0060	Aug-92
Sep-92	0.0058	Sep-92
Oct-92	0.0057	Oct-92
Nov-92	0.0061	Nov-92
Dec-92	0.0063	Dec-92
Jan-93	0.0059	Jan-93
Feb-93	0.0055	Feb-93
Mar-93	0.0063	Mar-93
Apr-93	0.0057	Apr-93
May-93	0.0052	May-93
Jun-93	0.0062	Jun-93
Jul-93	0.0054	Jul-93
Aug-93	0.0056	Aug-93
Sep-93	0.0050	Sep-93
Oct-93	0.0049	Oct-93
Nov-93	0.0053	Nov-93
Dec-93	0.0055	Dec-93
Jan-94	0.0055	Jan-94
Feb-94	0.0049	Feb-94
Mar-94	0.0058	Mar-94
Apr-94	0.0057	Apr-94
May-94	0.0063	May-94
Jun-94	0.0061	Jun-94
Jul-94	0.0060	Jul-94
Aug-94	0.0066	Aug-94
Sep-94	0.0061	Sep-94

Oct-94	0.0066	Oct-94
Nov-94	0.0064	Nov-94
Dec-94	0.0066	Dec-94
Jan-95	0.0070	Jan-95
Feb-95	0.0059	Feb-95
Mar-95	0.0064	Mar-95
Apr-95	0.0058	Apr-95
May-95	0.0065	May-95
Jun-95	0.0054	Jun-95
Jul-95	0.0056	Jul-95
Aug-95	0.0057	Aug-95
Sep-95	0.0052	Sep-95
Oct-95	0.0057	Oct-95
Nov-95	0.0051	Nov-95
Dec-95	0.0049	Dec-95
Jan-96	0.0054	Jan-96
Feb-96	0.0048	Feb-96
Mar-96	0.0052	Mar-96
Apr-96	0.0059	Apr-96
May-96	0.0058	May-96
Jun-96	0.0054	Jun-96
Jul-96	0.0062	Jul-96
Aug-96	0.0057	Aug-96
Sep-96	0.0060	Sep-96
Oct-96	0.0058	Oct-96
Nov-96	0.0052	Nov-96
Dec-96	0.0056	Dec-96
Jan-97	0.0056	Jan-97
Feb-97	0.0051	Feb-97
Mar-97	0.0059	Mar-97
Apr-97	0.0059	Apr-97
May-97	0.0058	May-97
Jun-97	0.0059	Jun-97
Jul-97	0.0058	Jul-97
Aug-97	0.0049	Aug-97
Sep-97	0.0058	Sep-97

Oct-97	0.0054	Oct-97
Nov-97	0.0047	Nov-97
Dec-97	0.0054	Dec-97
Jan-98	0.0048	Jan-98
Feb-98	0.0044	Feb-98
Mar-98	0.0052	Mar-98
Apr-98	0.0049	Apr-98
May-98	0.0048	May-98
Jun-98	0.0052	Jun-98
Jul-98	0.0049	Jul-98
Aug-98	0.0048	Aug-98
Sep-98	0.0044	Sep-98
Oct-98	0.0042	Oct-98
Nov-98	0.0045	Nov-98
Dec-98	0.0045	Dec-98
Jan-99	0.0042	Jan-99
Feb-99	0.0040	Feb-99
Mar-99	0.0053	Mar-99
Apr-99	0.0048	Apr-99
May-99	0.0045	May-99
Jun-99	0.0055	Jun-99
Jul-99	0.0051	Jul-99
Aug-99	0.0054	Aug-99
Sep-99	0.0052	Sep-99
Oct-99	0.0050	Oct-99
Nov-99	0.0056	Nov-99
Dec-99	0.0055	Dec-99
Jan-00	0.0057	Jan-00
Feb-00	0.0051	Feb-00
Mar-00	0.0054	Mar-00
Apr-00	0.0047	Apr-00
May-00	0.0056	May-00
Jun-00	0.0052	Jun-00
Jul-00	0.0052	Jul-00
Aug-00	0.0050	Aug-00
Sep-00	0.0046	Sep-00

Oct-00	0.0053	Oct-00
Nov-00	0.0048	Nov-00
Dec-00	0.0045	Dec-00
Jan-01	0.0049	Jan-01
Feb-01	0.0042	Feb-01
Mar-01	0.0045	Mar-01
Apr-01	0.0047	Apr-01
May-01	0.0050	May-01
Jun-01	0.0047	Jun-01
Jul-01	0.0052	Jul-01
Aug-01	0.0046	Aug-01
Sep-01	0.0041	Sep-01
Oct-01	0.0048	Oct-01
Nov-01	0.0041	Nov-01
Dec-01	0.0046	Dec-01
Jan-02	0.0048	Jan-02
Feb-02	0.0043	Feb-02
Mar-02	0.0043	Mar-02
Apr-02	0.0054	Apr-02
May-02	0.0049	May-02
Jun-02	0.0044	Jun-02
Jul-02	0.0051	Jul-02
Aug-02	0.0044	Aug-02
Sep-02	0.0042	Sep-02
Oct-02	0.0040	Oct-02
Nov-02	0.0040	Nov-02
Dec-02	0.0045	Dec-02
Jan-03	0.0041	Jan-03
Feb-03	0.0038	Feb-03
Mar-03	0.0040	Mar-03
Apr-03	0.0040	Apr-03
May-03	0.0039	May-03
Jun-03	0.0036	Jun-03
Jul-03	0.0038	Jul-03
Aug-03	0.0042	Aug-03
Sep-03	0.0046	Sep-03

	Oct-03						0.0041		Oct-03
	Nov-03						0.0039		Nov-03
	Dec-03						0.0047		Dec-03
	Jan-04						0.0042		Jan-04
	Feb-04						0.0038		Feb-04
	Mar-04						0.0043		Mar-04
	Apr-04						0.0039		Apr-04
	May-04						0.0040		May-04
	Jun-04						0.0048		Jun-04
	Jul-04						0.0043		Jul-04
	Aug-04						0.0045		Aug-04
	Sep-04						0.0040		Sep-04
	Oct-04						0.0038		Oct-04
41	Nov-04	NORTHWESTERN CORP	NWEC	25.65	-66	0	0.0041		Nov-04
41	Dec-04	NORTHWESTERN CORP	NWEC	28	0.091618	0	0.0043	0.0873	Dec-04
41	Jan-05	NORTHWESTERN CORP	NWEC	28.36	0.012857	0	0.0041	0.0088	Jan-05
41	Feb-05	NORTHWESTERN CORP	NWEC	27.94	-0.01481	0	0.0035	-0.0183	Feb-05
41	Mar-05	NORTHWESTERN CORP	NWEC	26.37	-0.04832	0.22	0.0041	-0.0524	Mar-05
41	Apr-05	NORTHWESTERN CORP	NWEC	28.02	0.062571	0	0.0039	0.0587	Apr-05
41	May-05	NORTHWESTERN CORP	NWEC	28.98	0.034261	0	0.0040	0.0303	May-05
41	Jun-05	NORTHWESTERN CORP	NWEC	31.52	0.095238	0.22	0.0036	0.0916	Jun-05
41	Jul-05	NORTHWESTERN CORP	NWEC	31.6	0.002538	0	0.0034	-0.0009	Jul-05
41	Aug-05	NORTHWESTERN CORP	NWEC	31.18	-0.01329	0	0.0040	-0.0173	Aug-05
41	Sep-05	NORTHWESTERN CORP	NWEC	30.19	-0.02373	0.25	0.0035	-0.0272	Sep-05
41	Oct-05	NORTHWESTERN CORP	NWEC	29.75	-0.01457	0	0.0039	-0.0185	Oct-05
41	Nov-05	NORTHWESTERN CORP	NWEC	30.98	0.041345	0	0.0039	0.0374	Nov-05
41	Dec-05	NORTHWESTERN CORP	NWEC	31.07	0.012912	0.31	0.0039	0.0090	Dec-05
41	Jan-06	NORTHWESTERN CORP	NWEC	31.34	0.00869	0	0.0040	0.0047	Jan-06
41	Feb-06	NORTHWESTERN CORP	NWEC	32.43	0.03478	0	0.0036	0.0312	Feb-06
41	Mar-06	NORTHWESTERN CORP	NWEC	31.14	-0.03022	0.31	0.0039	-0.0341	Mar-06
41	Apr-06	NORTHWESTERN CORP	NWEC	35.13	0.128131	0	0.0039	0.1242	Apr-06
41	May-06	NORTHWESTERN CORP	NWEC	34.8	-0.00939	0	0.0048	-0.0142	May-06
41	Jun-06	NORTHWESTERN CORP	NWEC	34.35	-0.00402	0.31	0.0044	-0.0084	Jun-06
41	Jul-06	NORTHWESTERN CORP	NWEC	34.7	0.010189	0	0.0045	0.0057	Jul-06
41	Aug-06	NORTHWESTERN CORP	NWEC	34.84	0.004035	0	0.0043	-0.0003	Aug-06
41	Sep-06	NORTHWESTERN CORP	NWEC	34.98	0.012916	0.31	0.0039	0.0090	Sep-06

41	Oct-06	NORTHWESTERN CORP	NWEC	35.38	0.011435	0	0.0042	0.0072	Oct-06
41	Nov-06	NORTHWESTERN CORP	NWEC	35.76	0.01074	0	0.0039	0.0068	Nov-06
41	Dec-06	NORTHWESTERN CORP	NWEC	35.38	-0.00196	0.31	0.0036	-0.0056	Dec-06
41	Jan-07	NORTHWESTERN CORP	NWEC	35.86	0.013567	0	0.0043	0.0093	Jan-07
41	Feb-07	NORTHWESTERN CORP	NWEC	36.06	0.005577	0	0.0038	0.0018	Feb-07
41	Mar-07	NORTHWESTERN CORP	NWEC	35.43	-0.00887	0.31	0.0039	-0.0128	Mar-07
41	Apr-07	NORTHWESTERN CORP	NWEC	35.14	-0.00819	0	0.0042	-0.0124	Apr-07
41	May-07	NORTHWESTERN CORP	NWEC	32.96	-0.06204	0	0.0041	-0.0661	May-07
41	Jun-07	NORTHWESTERN CORP	NWEC	31.81	-0.02549	0.31	0.0040	-0.0295	Jun-07
41	Jul-07	NORTHWESTERN CORP	NWEC	27.06	-0.14932	0	0.0046	-0.1539	Jul-07
41	Aug-07	NORTHWESTERN CORP	NWEC	26.84	-0.00813	0	0.0042	-0.0123	Aug-07
41	Sep-07	NORTHWESTERN CORP	NWEC	27.17	0.02459	0.33	0.0037	0.0209	Sep-07
41	Oct-07	NORTHWESTERN CORP	NWEC	27.58	0.01509	0	0.0043	0.0108	Oct-07
41	Nov-07	NORTHWESTERN CORP	NWEC	27.85	0.00979	0	0.0039	0.0059	Nov-07
41	Dec-07	NORTHWESTERN CORP	NWEC	29.5	0.071095	0.33	0.0037	0.0674	Dec-07
41	Jan-08	NORTHWESTERN CORP	NWEC	28.9	-0.02034	0	0.0040	-0.0243	Jan-08
41	Feb-08	NORTHWESTERN CORP	NWEC	25.79	-0.10761	0	0.0034	-0.1110	Feb-08
41	Mar-08	NORTHWESTERN CORP	NWEC	24.37	-0.04226	0.33	0.0037	-0.0460	Mar-08
41	Apr-08	NORTHWESTERN CORP	NWEC	24.82	0.018465	0	0.0035	0.0150	Apr-08
41	May-08	NORTHWESTERN CORP	NWE	26.51	0.06809	0	0.0037	0.0644	May-08
41	Jun-08	NORTHWESTERN CORP	NWE	25.42	-0.02867	0.33	0.0040	-0.0327	Jun-08
41	Jul-08	NORTHWESTERN CORP	NWE	24.77	-0.02557	0	0.0039	-0.0295	Jul-08
41	Aug-08	NORTHWESTERN CORP	NWE	26.3	0.061768	0	0.0036	0.0582	Aug-08
41	Sep-08	NORTHWESTERN CORP	NWE	25.13	-0.03194	0.33	0.0039	-0.0358	Sep-08
41	Oct-08	NORTHWESTERN CORP	NWE	19.54	-0.22244	0	0.0037	-0.2261	Oct-08
41	Nov-08	NORTHWESTERN CORP	NWE	20.66	0.057318	0	0.0036	0.0537	Nov-08
41	Dec-08	NORTHWESTERN CORP	NWE	23.47	0.151984	0.33	0.0033	0.1487	Dec-08
41	Jan-09	NORTHWESTERN CORP	NWE	24.21	0.03153	0	0.0024	0.0291	Jan-09
41	Feb-09	NORTHWESTERN CORP	NWE	20.49	-0.15366	0	0.0030	-0.1567	Feb-09
41	Mar-09	NORTHWESTERN CORP	NWE	21.48	0.064666	0.335	0.0035	0.0612	Mar-09
41	Apr-09	NORTHWESTERN CORP	NWE	20.92	-0.02607	0	0.0029	-0.0290	Apr-09
41	May-09	NORTHWESTERN CORP	NWE	21.43	0.024379	0	0.0033	0.0211	May-09
41	Jun-09	NORTHWESTERN CORP	NWE	22.76	0.077695	0.335	0.0038	0.0739	Jun-09
41	Jul-09	NORTHWESTERN CORP	NWE	24.2	0.063269	0	0.0036	0.0597	Jul-09
41	Aug-09	NORTHWESTERN CORP	NWE	23.99	-0.00868	0	0.0036	-0.0123	Aug-09
41	Sep-09	NORTHWESTERN CORP	NWE	24.43	0.032305	0.335	0.0034	0.0289	Sep-09

41	Oct-09	NORTHWESTERN CORP	NWE	24.15	-0.01146	0	0.0033	-0.0148	Oct-09
41	Nov-09	NORTHWESTERN CORP	NWE	25.79	0.067909	0	0.0035	0.0644	Nov-09
41	Dec-09	NORTHWESTERN CORP	NWE	26.02	0.021908	0.335	0.0034	0.0185	Dec-09
41	Jan-10	NORTHWESTERN CORP	NWE	24.45	-0.06034	0	0.0036	-0.0639	Jan-10
41	Feb-10	NORTHWESTERN CORP	NWE	25.05	0.02454	0	0.0033	0.0212	Feb-10
41	Mar-10	NORTHWESTERN CORP	NWE	26.81	0.083832	0.34	0.0040	0.0798	Mar-10
41	Apr-10	NORTHWESTERN CORP	NWE	30.22	0.127191	0	0.0038	0.1234	Apr-10
41	May-10	NORTHWESTERN CORP	NWE	26.34	-0.12839	0	0.0034	-0.1318	May-10
41	Jun-10	NORTHWESTERN CORP	NWE	26.2	0.007593	0.34	0.0037	0.0039	Jun-10
41	Jul-10	NORTHWESTERN CORP	NWE	28.2	0.076336	0	0.0031	0.0732	Jul-10
41	Aug-10	NORTHWESTERN CORP	NWE	28.12	-0.00284	0	0.0032	-0.0060	Aug-10
41	Sep-10	NORTHWESTERN CORP	NWE	28.5	0.025605	0.34	0.0026	0.0230	Sep-10
41	Oct-10	NORTHWESTERN CORP	NWE	29.77	0.044561	0	0.0027	0.0419	Oct-10
41	Nov-10	NORTHWESTERN CORP	NWE	28.81	-0.03225	0	0.0032	-0.0354	Nov-10
41	Dec-10	NORTHWESTERN CORP	NWE	28.83	0.012496	0.34	0.0032	0.0093	Dec-10
41	Jan-11	NORTHWESTERN CORP	NWE	28.24	-0.02047	0	0.0035667	-0.0240	Jan-11
41	Feb-11	NORTHWESTERN CORP	NWE	29.71	0.052054	0	0.0036833	0.0484	Feb-11
41	Mar-11	NORTHWESTERN CORP	NWE	30.3	0.031976	0.36	0.0035583	0.0284	Mar-11
41	Apr-11	NORTHWESTERN CORP	NWE	32.55	0.074257	0	0.0035667	0.0707	Apr-11
41	May-11	NORTHWESTERN CORP	NWE	33.07	0.015975	0	0.0033417	0.0126	May-11
41	Jun-11	NORTHWESTERN CORP	NWE	33.11	0.012096	0.36	0.0032583	0.0088	Jun-11
41	Jul-11	NORTHWESTERN CORP	NWE	32.02	-0.03292	0	0.0032917	-0.0362	Jul-11
41	Aug-11	NORTHWESTERN CORP	NWE	33.91	0.059026	0	0.0030417	0.0560	Aug-11
41	Sep-11	NORTHWESTERN CORP	NWE	31.94	-0.04748	0.36	0.0023583	-0.0498	Sep-11
41	Oct-11	NORTHWESTERN CORP	NWE	34.45	0.078585	0	0.0023917	0.0762	Oct-11
41	Nov-11	NORTHWESTERN CORP	NWE	34.88	0.012482	0	0.0022667	0.0102	Nov-11
41	Dec-11	NORTHWESTERN CORP	NWE	35.79	0.036411	0.36	0.0024833	0.0339	Dec-11
41	Jan-12	NORTHWESTERN CORP	NWE	35.14	-0.01816	0	0.0021	-0.0203	Jan-12
41	Feb-12	NORTHWESTERN CORP	NWE	34.73	-0.01167	0	0.002	-0.0137	Feb-12
41	Mar-12	NORTHWESTERN CORP	NWE	35.46	0.031673	0.37	0.0022	0.0295	Mar-12
41	Apr-12	NORTHWESTERN CORP	NWE	35.52	0.001692	0	0.0025	-0.0008	Apr-12
41	May-12	NORTHWESTERN CORP	NWE	35.51	-0.00028	0	0.0023	-0.0026	May-12
41	Jun-12	NORTHWESTERN CORP	NWE	36.7	0.043931	0.37	0.0018	0.0421	Jun-12
	Jul-12	NORTHWESTERN CORP	NWE	36.93	0.006267	0	0.002	0.0043	Jul-12
	Aug-12	NORTHWESTERN CORP	NWE	36.6	-0.00894	0	0.0018	-0.0107	Aug-12
	Sep-12	NORTHWESTERN CORP	NWE	36.23	-1.2E-16	0.37	0.0017	-0.0017	Sep-12

Oct-12	NORTHWESTERN CORP	NWE	35.81	-0.01159	0	0.0021	-0.0137	Oct-12
Nov-12	NORTHWESTERN CORP	NWE	34.69	-0.03128	0	0.0019	-0.0332	Nov-12
Dec-12	NORTHWESTERN CORP	NWE	34.73	0.011819	0.37	0.0019	0.0099	Dec-12
Jan-13	NORTHWESTERN CORP	NWE	36.99	0.065073	0	0.0022	0.0629	Jan-13
Feb-13	NORTHWESTERN CORP	NWE	38.98	0.053798	0	0.0022	0.0516	Feb-13
Mar-13	NORTHWESTERN CORP	NWE	39.86	0.032324	0.38	0.0021	0.0302	Mar-13
Apr-13	NORTHWESTERN CORP	NWE	43.02	0.079277	0	0.0026	0.0767	Apr-13
May-13	NORTHWESTERN CORP	NWE	41.16	-0.04324	0	0.0023	-0.0455	May-13
Jun-13	NORTHWESTERN CORP	NWE	39.9	-0.02138	0.38	0.0024	-0.0238	Jun-13
Jul-13	NORTHWESTERN CORP	NWE	42.2	0.057644	0	0.003	0.0546	Jul-13
Aug-13	NORTHWESTERN CORP	NWE	40.17	-0.0481	0	0.0028	-0.0509	Aug-13
Sep-13	NORTHWESTERN CORP	NWE	44.92	0.127707	0.38	0.0029	0.1248	Sep-13
Oct-13	NORTHWESTERN CORP	NWE	45.84	0.020481	0	0.0029	0.0176	Oct-13
Nov-13	NORTHWESTERN CORP	NWE	43.98	-0.04058	0	0.0027	-0.0433	Nov-13
Dec-13	NORTHWESTERN CORP	NWE	43.32	-0.00637	0.38	0.0031	-0.0095	Dec-13
Jan-14	NORTHWESTERN CORP	NWE	45.21	0.043629	0	0.0032	0.0404	Jan-14
Feb-14	NORTHWESTERN CORP	NWE	45.94	0.016147	0	0.0026	0.0135	Feb-14
Mar-14	NORTHWESTERN CORP	NWE	47.43	0.041141	0.4	0.0029	0.0382	Mar-14
Apr-14	NORTHWESTERN CORP	NWE	48.38	0.02003	0	0.0028	0.0172	Apr-14
May-14	NORTHWESTERN CORP	NWE	48	-0.00785	0	0.0028	-0.0107	May-14
Jun-14	NORTHWESTERN CORP	NWE	52.19	0.095625	0.4	0.0025	0.0931	Jun-14
Jul-14	NORTHWESTERN CORP	NWE	46.22	-0.11439	0	0.0027	-0.1171	Jul-14
Aug-14	NORTHWESTERN CORP	NWE	48.28	0.044569	0	0.0026	0.0420	Aug-14
Sep-14	NORTHWESTERN CORP	NWE	45.36	-0.0522	0.4	0.0023	-0.0545	Sep-14
Oct-14	NORTHWESTERN CORP	NWE	52.84	0.164903	0	0.0025	0.1624	Oct-14
Nov-14	NORTHWESTERN CORP	NWE	53.23	0.007381	0	0.0023	0.0051	Nov-14
Dec-14	NORTHWESTERN CORP	NWE	56.58	0.070449	0.4	0.0022	0.0682	Dec-14
Jan-15	NORTHWESTERN CORP	NWE	57.76	0.020855	0	0.002	0.0189	Jan-15
Feb-15	NORTHWESTERN CORP	NWE	54.19	-0.06181	0	0.0015	-0.0633	Feb-15
Mar-15	NORTHWESTERN CORP	NWE	53.79	0.001476	0.48	0.0021	-0.0006	Mar-15
Apr-15	NORTHWESTERN CORP	NWE	52.09	-0.0316	0	0.0019	-0.0335	Apr-15
May-15	NORTHWESTERN CORP	NWE	52.02	-0.00134	0	0.002	-0.0033	May-15
Jun-15	NORTHWESTERN CORP	NWE	48.75	-0.05363	0.48	0.0023	-0.055933	Jun-15
Jul-15	NORTHWESTERN CORP	NWE	53.84	0.10441	0	0.0024	0.1020103	Jul-15
Aug-15	NORTHWESTERN CORP	NWE	51.64	-0.04086	0	0.0022	-0.043062	Aug-15
Sep-15	NORTHWESTERN CORP	NWE	53.83	0.051704	0.48	0.0021	0.0496041	Sep-15

Oct-15	NORTHWESTERN CORP	NWE	54.19	0.006688	0	0.0021	0.0045877	Oct-15
Nov-15	NORTHWESTERN CORP	NWE	54.53	0.006274	0	0.0022	0.0040742	Nov-15
Dec-15	NORTHWESTERN CORP	NWE	54.25	0.003668	0.48	0.0022	0.0014677	Dec-15
Jan-16	NORTHWESTERN CORP	NWE	55.84	0.029309	0	0.0021	0.0272088	Jan-16
Feb-16	NORTHWESTERN CORP	NWE	59.37	0.063216	0	0.002	0.0612163	Feb-16
Mar-16	NORTHWESTERN CORP	NWE	61.75	0.048509	0.5	0.0018	0.0467093	Mar-16
Apr-16	NORTHWESTERN CORP	NWE	56.84	-0.07951	0	0.0017	-0.081214	Apr-16
May-16	NORTHWESTERN CORP	NWE	57.96	0.019704	0	0.002	0.0177044	May-16
Jun-16	NORTHWESTERN CORP	NWE	63.07	0.096791	0.5	0.0018	0.0949909	Jun-16
Jul-16	NORTHWESTERN CORP	NWE	60.74	-0.03694	0	0.0014	-0.038343	Jul-16
Aug-16	NORTHWESTERN CORP	NWE	57.82	-0.04807	0	0.0016	-0.049674	Aug-16
Sep-16	NORTHWESTERN CORP	NWE	57.53	0.003632	0.5	0.0015	0.002132	Sep-16
Oct-16	NORTHWESTERN CORP	NWE	57.55	0.000348	0	0.0016	-0.001252	Oct-16
Nov-16	NORTHWESTERN CORP	NWE	56.1	-0.0252	0	0.0018	-0.026995	Nov-16
Dec-16	NORTHWESTERN CORP	NWE	56.87	0.022638	0.5	0.0022	0.0204381	Dec-16
Jan-17	NORTHWESTERN CORP	NWE	57.11	0.00422	0	0.0024	0.0018202	Jan-17
Feb-17	NORTHWESTERN CORP	NWE	58.5	0.024339	0	0.0021	0.022239	Feb-17
Mar-17	NORTHWESTERN CORP	NWE	58.7	0.012393	0.525	0.0023	0.0100932	Mar-17
Apr-17	NORTHWESTERN CORP	NWE	59.78	0.018399	0	0.0021	0.0162986	Apr-17
May-17	NORTHWESTERN CORP	NWE	61.96	0.036467	0	0.0024	0.034067	May-17
Jun-17	NORTHWESTERN CORP	NWE	61.02	-0.0067	0.525	0.0021	-0.008798	Jun-17
Jul-17	NORTHWESTERN CORP	NWE	57.79	-0.05293	0	0.0022	-0.055133	Jul-17
Aug-17	NORTHWESTERN CORP	NWE	60.32	0.043779	0	0.0022	0.0415792	Aug-17
Sep-17	NORTHWESTERN CORP	NWE	56.94	-0.04733	0.525	0.0019	-0.049231	Sep-17
Oct-17	NORTHWESTERN CORP	NWE	59.28	0.041096	0	0.0022	0.0388959	Oct-17
Nov-17	NORTHWESTERN CORP	NWE	64.26	0.084008	0	0.0021	0.0819081	Nov-17
Dec-17	NORTHWESTERN CORP	NWE	59.7	-0.06279	0.525	0.002	-0.064792	Dec-17
Jan-18	NORTHWESTERN CORP	NWE	54.34	-0.08978	0	0.0024	-0.092182	Jan-18
Feb-18	NORTHWESTERN CORP	NWE	51.08	-0.05999	0	0.0022	-0.062193	Feb-18
Mar-18	NORTHWESTERN CORP	NWE	53.8	0.064017	0.55	0.0024	0.0616172	Mar-18
Apr-18	NORTHWESTERN CORP	NWE	54.94	0.02119	0	0.0025	0.0186896	Apr-18
May-18	NORTHWESTERN CORP	NWE	54.48	-0.00837	0	0.0025	-0.010873	May-18
Jun-18	NORTHWESTERN CORP	NWE	57.25	0.06094	0.55	0.0023	0.0586398	Jun-18
Jul-18	NORTHWESTERN CORP	NWE	59.33	0.036332	0	0.0025	0.0338319	Jul-18
Aug-18	NORTHWESTERN CORP	NWE	59.96	0.010619	0	0.0025	0.0081186	Aug-18
Sep-18	NORTHWESTERN CORP	NWE	58.66	-0.01251	0.55	0.0022	-0.014708	Sep-18

Oct-18	NORTHWESTERN CORP	NWE	58.76	0.001705	0	0.003	-0.001295	Oct-18
Nov-18	NORTHWESTERN CORP	NWE	63.96	0.088496	0	0.0028	0.0856956	Nov-18
Dec-18	NORTHWESTERN CORP	NWE	59.44	-0.06207	0.55	0.0027	-0.06477	Dec-18
Jan-19	NORTHWESTERN CORP	NWE	63.91	0.075202	0	0.0025	0.0727019	Jan-19
Feb-19	NORTHWESTERN CORP	NWE	68.54	0.072446	0	0.0022	0.0702456	Feb-19
Mar-19	NORTHWESTERN CORP	NWE	70.41	0.035673	0.575	0.0023	0.0333726	Mar-19
Apr-19	NORTHWESTERN CORP	NWE	69.85	-0.00795	0	0.0023	-0.010253	Apr-19
May-19	NORTHWESTERN CORP	NWE	70.94	0.015605	0	0.0023	0.0133049	May-19
Jun-19	NORTHWESTERN CORP	NWE	72.15	0.025162	0.575	0.0018	0.0233621	Jun-19
Jul-19	NORTHWESTERN CORP	NWE	69.92	-0.03091	0	0.0021	-0.033008	Jul-19
Aug-19	NORTHWESTERN CORP	NWE	72.44	0.036041	0	0.0019	0.0341412	Aug-19
Sep-19	NORTHWESTERN CORP	NWE	75.05	0.043967	0.575	0.0015	0.0424674	Sep-19
Oct-19	NORTHWESTERN CORP	NWE	72.52	-0.03371	0	0.0016	-0.035311	Oct-19
Nov-19	NORTHWESTERN CORP	NWE	71.57	-0.0131	0	0.0016	-0.0147	Nov-19
Dec-19	NORTHWESTERN CORP	NWE	71.67	0.009431	0.575	0.0018	0.0076313	Dec-19
Jan-20	NORTHWESTERN CORP	NWE	76.97	0.07395	0	0.002	0.07195	Jan-20
Feb-20	NORTHWESTERN CORP	NWE	70.34	-0.08614	0	0.0015	-0.087637	Feb-20
Mar-20	NORTHWESTERN CORP	NWE	59.83	-0.14089	0.6	0.00123	-0.142117	Mar-20
Apr-20	NORTHWESTERN CORP	NWE	57.69	-0.03577	0	0.0009	-0.036668	Apr-20
May-20	NORTHWESTERN CORP	NWE	60.12	0.042122	0	0.0009	0.0412217	May-20
Jun-20	NORTHWESTERN CORP	NWE	54.52	-0.08317	0.6	0.0009	-0.084067	Jun-20
Jul-20	NORTHWESTERN CORP	NWE	56.26	0.031915	0	0.001	0.0309149	Jul-20
Aug-20	NORTHWESTERN CORP	NWE	51.64	-0.08212	0	0.0008	-0.082919	Aug-20
Sep-20	NORTHWESTERN CORP	NWE	48.64	-0.04648	0.6	0	-0.046476	Sep-20
Oct-20	NORTHWESTERN CORP	NWE	52.13	0.071752	0	0.0009	0.0708516	Oct-20
Nov-20	NORTHWESTERN CORP	NWE	58	0.112603	0	0.0011	0.1115031	Nov-20
Dec-20	NORTHWESTERN CORP	NWE	58.31	0.01569	0.6	0.0011	0.0145897	Dec-20
Jan-21	NORTHWESTERN CORP	NWE	54.47	-0.06585	0	0.0015167	-0.067372	Jan-21
Feb-21	NORTHWESTERN CORP	NWE	58.48	0.073619	0	0.0017	0.0719185	Feb-21
Mar-21	NORTHWESTERN CORP	NWE	65.2	0.125513	0.62	0.00195	0.123563	Mar-21
Apr-21	NORTHWESTERN CORP	NWE	68.03	0.043405	0	0.0019167	0.0414882	Apr-21
May-21	NORTHWESTERN CORP	NWE	63.35	-0.06879	0	0.0019333	-0.070727	May-21
Jun-21	NORTHWESTERN CORP	NWE	60.22	-0.03962	0.62	0.0018	-0.041421	Jun-21
Jul-21	NORTHWESTERN CORP	NWE	61.99	0.029392	0	0.0016167	0.0277756	Jul-21
Aug-21	NORTHWESTERN CORP	NWE	63.6	0.025972	0	0.0016	0.0243719	Aug-21

Unique Index Number	Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP	Trading Date
	Jan-26						0.0031		Jan-26
	Feb-26						0.0028		Feb-26
	Mar-26						0.0032		Mar-26
	Apr-26						0.0030		Apr-26
	May-26						0.0028		May-26
	Jun-26						0.0033		Jun-26
	Jul-26						0.0031		Jul-26
	Aug-26						0.0031		Aug-26
	Sep-26						0.0030		Sep-26
	Oct-26						0.0030		Oct-26
	Nov-26						0.0031		Nov-26
	Dec-26						0.0030		Dec-26
	Jan-27						0.0030		Jan-27
	Feb-27						0.0027		Feb-27
	Mar-27						0.0029		Mar-27
	Apr-27						0.0027		Apr-27
	May-27						0.0028		May-27
	Jun-27						0.0027		Jun-27
	Jul-27						0.0027		Jul-27
	Aug-27						0.0029		Aug-27
	Sep-27						0.0027		Sep-27
	Oct-27						0.0028		Oct-27
	Nov-27						0.0027		Nov-27
	Dec-27						0.0027		Dec-27
	Jan-28						0.0027		Jan-28
	Feb-28						0.0025		Feb-28
	Mar-28						0.0027		Mar-28
	Apr-28						0.0026		Apr-28
	May-28						0.0027		May-28
	Jun-28						0.0027		Jun-28
	Jul-28						0.0027		Jul-28
	Aug-28						0.0029		Aug-28
	Sep-28						0.0027		Sep-28

Oct-28	0.0030	Oct-28
Nov-28	0.0027	Nov-28
Dec-28	0.0029	Dec-28
Jan-29	0.0029	Jan-29
Feb-29	0.0027	Feb-29
Mar-29	0.0028	Mar-29
Apr-29	0.0034	Apr-29
May-29	0.0030	May-29
Jun-29	0.0029	Jun-29
Jul-29	0.0032	Jul-29
Aug-29	0.0030	Aug-29
Sep-29	0.0032	Sep-29
Oct-29	0.0031	Oct-29
Nov-29	0.0026	Nov-29
Dec-29	0.0031	Dec-29
Jan-30	0.0029	Jan-30
Feb-30	0.0026	Feb-30
Mar-30	0.0029	Mar-30
Apr-30	0.0027	Apr-30
May-30	0.0027	May-30
Jun-30	0.0029	Jun-30
Jul-30	0.0028	Jul-30
Aug-30	0.0026	Aug-30
Sep-30	0.0029	Sep-30
Oct-30	0.0027	Oct-30
Nov-30	0.0026	Nov-30
Dec-30	0.0028	Dec-30
Jan-31	0.0028	Jan-31
Feb-31	0.0026	Feb-31
Mar-31	0.0029	Mar-31
Apr-31	0.0027	Apr-31
May-31	0.0026	May-31
Jun-31	0.0028	Jun-31
Jul-31	0.0027	Jul-31
Aug-31	0.0027	Aug-31
Sep-31	0.0027	Sep-31

Oct-31	0.0029	Oct-31
Nov-31	0.0031	Nov-31
Dec-31	0.0032	Dec-31
Jan-32	0.0032	Jan-32
Feb-32	0.0032	Feb-32
Mar-32	0.0031	Mar-32
Apr-32	0.0030	Apr-32
May-32	0.0028	May-32
Jun-32	0.0028	Jun-32
Jul-32	0.0028	Jul-32
Aug-32	0.0028	Aug-32
Sep-32	0.0026	Sep-32
Oct-32	0.0027	Oct-32
Nov-32	0.0026	Nov-32
Dec-32	0.0027	Dec-32
Jan-33	0.0027	Jan-33
Feb-33	0.0023	Feb-33
Mar-33	0.0027	Mar-33
Apr-33	0.0025	Apr-33
May-33	0.0028	May-33
Jun-33	0.0025	Jun-33
Jul-33	0.0026	Jul-33
Aug-33	0.0026	Aug-33
Sep-33	0.0025	Sep-33
Oct-33	0.0026	Oct-33
Nov-33	0.0025	Nov-33
Dec-33	0.0028	Dec-33
Jan-34	0.0029	Jan-34
Feb-34	0.0024	Feb-34
Mar-34	0.0027	Mar-34
Apr-34	0.0025	Apr-34
May-34	0.0025	May-34
Jun-34	0.0024	Jun-34
Jul-34	0.0024	Jul-34
Aug-34	0.0024	Aug-34
Sep-34	0.0023	Sep-34

Oct-34	0.0027	Oct-34
Nov-34	0.0025	Nov-34
Dec-34	0.0025	Dec-34
Jan-35	0.0025	Jan-35
Feb-35	0.0021	Feb-35
Mar-35	0.0022	Mar-35
Apr-35	0.0023	Apr-35
May-35	0.0023	May-35
Jun-35	0.0022	Jun-35
Jul-35	0.0024	Jul-35
Aug-35	0.0023	Aug-35
Sep-35	0.0023	Sep-35
Oct-35	0.0023	Oct-35
Nov-35	0.0024	Nov-35
Dec-35	0.0024	Dec-35
Jan-36	0.0024	Jan-36
Feb-36	0.0023	Feb-36
Mar-36	0.0024	Mar-36
Apr-36	0.0022	Apr-36
May-36	0.0022	May-36
Jun-36	0.0024	Jun-36
Jul-36	0.0023	Jul-36
Aug-36	0.0023	Aug-36
Sep-36	0.0021	Sep-36
Oct-36	0.0023	Oct-36
Nov-36	0.0022	Nov-36
Dec-36	0.0022	Dec-36
Jan-37	0.0021	Jan-37
Feb-37	0.0020	Feb-37
Mar-37	0.0022	Mar-37
Apr-37	0.0023	Apr-37
May-37	0.0022	May-37
Jun-37	0.0025	Jun-37
Jul-37	0.0024	Jul-37
Aug-37	0.0023	Aug-37
Sep-37	0.0023	Sep-37

Oct-37	0.0023	Oct-37
Nov-37	0.0024	Nov-37
Dec-37	0.0023	Dec-37
Jan-38	0.0023	Jan-38
Feb-38	0.0021	Feb-38
Mar-38	0.0023	Mar-38
Apr-38	0.0022	Apr-38
May-38	0.0022	May-38
Jun-38	0.0021	Jun-38
Jul-38	0.0021	Jul-38
Aug-38	0.0022	Aug-38
Sep-38	0.0021	Sep-38
Oct-38	0.0022	Oct-38
Nov-38	0.0021	Nov-38
Dec-38	0.0022	Dec-38
Jan-39	0.0021	Jan-39
Feb-39	0.0019	Feb-39
Mar-39	0.0021	Mar-39
Apr-39	0.0019	Apr-39
May-39	0.0020	May-39
Jun-39	0.0018	Jun-39
Jul-39	0.0019	Jul-39
Aug-39	0.0018	Aug-39
Sep-39	0.0019	Sep-39
Oct-39	0.0023	Oct-39
Nov-39	0.0020	Nov-39
Dec-39	0.0019	Dec-39
Jan-40	0.0020	Jan-40
Feb-40	0.0018	Feb-40
Mar-40	0.0019	Mar-40
Apr-40	0.0018	Apr-40
May-40	0.0019	May-40
Jun-40	0.0019	Jun-40
Jul-40	0.0020	Jul-40
Aug-40	0.0019	Aug-40
Sep-40	0.0018	Sep-40

Oct-40	0.0018	Oct-40
Nov-40	0.0018	Nov-40
Dec-40	0.0017	Dec-40
Jan-41	0.0016	Jan-41
Feb-41	0.0016	Feb-41
Mar-41	0.0018	Mar-41
Apr-41	0.0017	Apr-41
May-41	0.0017	May-41
Jun-41	0.0016	Jun-41
Jul-41	0.0016	Jul-41
Aug-41	0.0016	Aug-41
Sep-41	0.0016	Sep-41
Oct-41	0.0016	Oct-41
Nov-41	0.0014	Nov-41
Dec-41	0.0016	Dec-41
Jan-42	0.0021	Jan-42
Feb-42	0.0019	Feb-42
Mar-42	0.0021	Mar-42
Apr-42	0.0020	Apr-42
May-42	0.0019	May-42
Jun-42	0.0021	Jun-42
Jul-42	0.0021	Jul-42
Aug-42	0.0021	Aug-42
Sep-42	0.0020	Sep-42
Oct-42	0.0021	Oct-42
Nov-42	0.0020	Nov-42
Dec-42	0.0021	Dec-42
Jan-43	0.0020	Jan-43
Feb-43	0.0019	Feb-43
Mar-43	0.0021	Mar-43
Apr-43	0.0020	Apr-43
May-43	0.0019	May-43
Jun-43	0.0021	Jun-43
Jul-43	0.0021	Jul-43
Aug-43	0.0021	Aug-43
Sep-43	0.0020	Sep-43

Oct-43	0.0020	Oct-43
Nov-43	0.0021	Nov-43
Dec-43	0.0021	Dec-43
Jan-44	0.0021	Jan-44
Feb-44	0.0020	Feb-44
Mar-44	0.0021	Mar-44
Apr-44	0.0020	Apr-44
May-44	0.0022	May-44
Jun-44	0.0020	Jun-44
Jul-44	0.0021	Jul-44
Aug-44	0.0021	Aug-44
Sep-44	0.0020	Sep-44
Oct-44	0.0021	Oct-44
Nov-44	0.0020	Nov-44
Dec-44	0.0020	Dec-44
Jan-45	0.0021	Jan-45
Feb-45	0.0018	Feb-45
Mar-45	0.0020	Mar-45
Apr-45	0.0019	Apr-45
May-45	0.0019	May-45
Jun-45	0.0019	Jun-45
Jul-45	0.0018	Jul-45
Aug-45	0.0019	Aug-45
Sep-45	0.0018	Sep-45
Oct-45	0.0019	Oct-45
Nov-45	0.0018	Nov-45
Dec-45	0.0018	Dec-45
Jan-46	0.0017	Jan-46
Feb-46	0.0015	Feb-46
Mar-46	0.0016	Mar-46
Apr-46	0.0017	Apr-46
May-46	0.0018	May-46
Jun-46	0.0016	Jun-46
Jul-46	0.0019	Jul-46
Aug-46	0.0017	Aug-46
Sep-46	0.0018	Sep-46

	Oct-46					0.0019		Oct-46
	Nov-46					0.0018		Nov-46
	Dec-46					0.0019		Dec-46
	Jan-47					0.0018		Jan-47
	Feb-47					0.0016		Feb-47
	Mar-47					0.0018		Mar-47
	Apr-47					0.0017		Apr-47
	May-47					0.0017		May-47
	Jun-47					0.0019		Jun-47
	Jul-47					0.0018		Jul-47
	Aug-47					0.0017		Aug-47
	Sep-47					0.0018		Sep-47
	Oct-47					0.0018		Oct-47
	Nov-47					0.0017		Nov-47
	Dec-47					0.0021		Dec-47
	Jan-48					0.0020		Jan-48
	Feb-48					0.0019		Feb-48
48	Mar-48	PUBLIC SERVICE ELECTRIC & GAS	**-22.75**	-66	0	0.0022		Mar-48
48	Apr-48	PUBLIC SERVICE ELECTRIC & GAS	**-23.625**	0.0385	0	0.0020	0.0365	Apr-48
48	May-48	PUBLIC SERVICE ELECTRIC & GAS	**-24**	0.0159	0	0.0018	0.0141	May-48
48	Jun-48	PUBLIC SERVICE ELECTRIC & GAS	**-23.5**	-0.0208	0	0.0021	-0.0229	Jun-48
48	Jul-48	PUBLIC SERVICE ELECTRIC & GAS	21.25	-0.0957	0	0.0019	-0.0976	Jul-48
48	Aug-48	PUBLIC SERVICE ELECTRIC & GAS	22.375	0.0718	0.4	0.0021	0.0697	Aug-48
48	Sep-48	PUBLIC SERVICE ELECTRIC & GAS	21	-0.0615	0	0.0020	-0.0635	Sep-48
48	Oct-48	PUBLIC SERVICE ELECTRIC & GAS	22	0.0476	0	0.0019	0.0457	Oct-48
48	Nov-48	PUBLIC SERVICE ELECTRIC & GAS	20.875	-0.033	0.4	0.0021	-0.0351	Nov-48
48	Dec-48	PUBLIC SERVICE ELECTRIC & GAS	20.125	-0.0359	0	0.0020	-0.0379	Dec-48
48	Jan-49	PUBLIC SERVICE ELECTRIC & GAS	21.5	0.0683	0	0.0020	0.0663	Jan-49
48	Feb-49	PUBLIC SERVICE ELECTRIC & GAS	21.125	0.0012	0.4	0.0018	-0.0006	Feb-49
48	Mar-49	PUBLIC SERVICE ELECTRIC & GAS	22.5	0.0651	0	0.0019	0.0632	Mar-49
48	Apr-49	PUBLIC SERVICE ELECTRIC & GAS	21.625	-0.0389	0	0.0018	-0.0407	Apr-49
48	May-49	PUBLIC SERVICE ELECTRIC & GAS	21.75	0.0243	0.4	0.0020	0.0223	May-49
48	Jun-49	PUBLIC SERVICE ELECTRIC & GAS	21.25	-0.023	0	0.0019	-0.0249	Jun-49
48	Jul-49	PUBLIC SERVICE ELECTRIC & GAS	23	0.0824	0	0.0017	0.0807	Jul-49
48	Aug-49	PUBLIC SERVICE ELECTRIC & GAS	23.375	0.0337	0.4	0.0019	0.0318	Aug-49
48	Sep-49	PUBLIC SERVICE ELECTRIC & GAS	24.25	0.0374	0	0.0017	0.0357	Sep-49

48	Oct-49	PUBLIC SERVICE ELECTRIC & GAS	24.625	0.0155	0	0.0018	0.0137	Oct-49
48	Nov-49	PUBLIC SERVICE ELECTRIC & GAS	24.5	0.0112	0.4	0.0017	0.0095	Nov-49
48	Dec-49	PUBLIC SERVICE ELECTRIC & GAS	25.625	0.0459	0	0.0017	0.0442	Dec-49
48	Jan-50	PUBLIC SERVICE ELECTRIC & GAS	25.75	0.0049	0	0.0018	0.0031	Jan-50
48	Feb-50	PUBLIC SERVICE ELECTRIC & GAS	24.75	-0.0388	0	0.0016	-0.0404	Feb-50
48	Mar-50	PUBLIC SERVICE ELECTRIC & GAS	25.25	0.0364	0.4	0.0018	0.0346	Mar-50
48	Apr-50	PUBLIC SERVICE ELECTRIC & GAS	24.875	-0.0149	0	0.0016	-0.0165	Apr-50
48	May-50	PUBLIC SERVICE ELECTRIC & GAS	24.875	0.0161	0.4	0.0019	0.0142	May-50
48	Jun-50	PUBLIC SERVICE ELECTRIC & GAS	22.75	-0.0854	0	0.0017	-0.0871	Jun-50
48	Jul-50	PUBLIC SERVICE ELECTRIC & GAS	21	-0.0769	0	0.0018	-0.0787	Jul-50
48	Aug-50	PUBLIC SERVICE ELECTRIC & GAS	21.75	0.0548	0.4	0.0018	0.0530	Aug-50
48	Sep-50	PUBLIC SERVICE ELECTRIC & GAS	22.5	0.0345	0	0.0017	0.0328	Sep-50
48	Oct-50	PUBLIC SERVICE ELECTRIC & GAS	21.875	-0.0278	0	0.0019	-0.0297	Oct-50
48	Nov-50	PUBLIC SERVICE ELECTRIC & GAS	21.25	-0.0103	0.4	0.0018	-0.0121	Nov-50
48	Dec-50	PUBLIC SERVICE ELECTRIC & GAS	21.5	0.0118	0	0.0018	0.0100	Dec-50
48	Jan-51	PUBLIC SERVICE ELECTRIC & GAS	23.125	0.0756	0	0.0020	0.0736	Jan-51
48	Feb-51	PUBLIC SERVICE ELECTRIC & GAS	23.25	0.0227	0.4	0.0017	0.0210	Feb-51
48	Mar-51	PUBLIC SERVICE ELECTRIC & GAS	22.5	-0.0323	0	0.0019	-0.0342	Mar-51
48	Apr-51	PUBLIC SERVICE ELECTRIC & GAS	22.375	-0.0056	0	0.0020	-0.0076	Apr-51
48	May-51	PUBLIC SERVICE ELECTRIC & GAS	22.125	0.0067	0.4	0.0021	0.0046	May-51
48	Jun-51	PUBLIC SERVICE ELECTRIC & GAS	22	-0.0057	0	0.0020	-0.0077	Jun-51
48	Jul-51	PUBLIC SERVICE ELECTRIC & GAS	23.875	0.0852	0	0.0023	0.0829	Jul-51
48	Aug-51	PUBLIC SERVICE ELECTRIC & GAS	23.5	0.001	0.4	0.0021	-0.0011	Aug-51
48	Sep-51	PUBLIC SERVICE ELECTRIC & GAS	23.25	-0.0106	0	0.0019	-0.0125	Sep-51
48	Oct-51	PUBLIC SERVICE ELECTRIC & GAS	23.75	0.0215	0	0.0023	0.0192	Oct-51
48	Nov-51	PUBLIC SERVICE ELECTRIC & GAS	23.75	0.0168	0.4	0.0021	0.0147	Nov-51
48	Dec-51	PUBLIC SERVICE ELECTRIC & GAS	24.25	0.0211	0	0.0022	0.0189	Dec-51
48	Jan-52	PUBLIC SERVICE ELECTRIC & GAS	25.375	0.0464	0	0.0023	0.0441	Jan-52
48	Feb-52	PUBLIC SERVICE ELECTRIC & GAS	25.125	0.0059	0.4	0.0021	0.0038	Feb-52
48	Mar-52	PUBLIC SERVICE ELECTRIC & GAS	25.75	0.0249	0	0.0023	0.0226	Mar-52
48	Apr-52	PUBLIC SERVICE ELECTRIC & GAS	25.875	0.0049	0	0.0022	0.0027	Apr-52
48	May-52	PUBLIC SERVICE ELECTRIC & GAS	25.875	0.0155	0.4	0.0020	0.0135	May-52
48	Jun-52	PUBLIC SERVICE ELECTRIC & GAS	25.625	-0.0097	0	0.0022	-0.0119	Jun-52
48	Jul-52	PUBLIC SERVICE ELECTRIC & GAS	26.125	0.0195	0	0.0022	0.0173	Jul-52
48	Aug-52	PUBLIC SERVICE ELECTRIC & GAS	26.25	0.0201	0.4	0.0021	0.0180	Aug-52
48	Sep-52	PUBLIC SERVICE ELECTRIC & GAS	26	-0.0095	0	0.0023	-0.0118	Sep-52

48	Oct-52	PUBLIC SERVICE ELECTRIC & GAS	26.125	0.0048	0	0.0023	0.0025	Oct-52
48	Nov-52	PUBLIC SERVICE ELECTRIC & GAS	26.875	0.044	0.4	0.0021	0.0419	Nov-52
48	Dec-52	PUBLIC SERVICE ELECTRIC & GAS	26.75	-0.0047	0	0.0024	-0.0071	Dec-52
48	Jan-53	PUBLIC SERVICE ELECTRIC & GAS	27	0.0093	0	0.0023	0.0070	Jan-53
48	Feb-53	PUBLIC SERVICE ELECTRIC & GAS	26.875	0.0102	0.4	0.0021	0.0081	Feb-53
48	Mar-53	PUBLIC SERVICE ELECTRIC & GAS	26.75	-0.0047	0	0.0025	-0.0072	Mar-53
48	Apr-53	PUBLIC SERVICE ELECTRIC & GAS	26.375	-0.014	0	0.0024	-0.0164	Apr-53
48	May-53	PUBLIC SERVICE ELECTRIC & GAS	26	0.0009	0.4	0.0024	-0.0015	May-53
48	Jun-53	PUBLIC SERVICE ELECTRIC & GAS	25	-0.0385	0	0.0027	-0.0412	Jun-53
48	Jul-53	PUBLIC SERVICE ELECTRIC & GAS	25.875	0.035	0	0.0025	0.0325	Jul-53
48	Aug-53	PUBLIC SERVICE ELECTRIC & GAS	24.75	-0.028	0.4	0.0025	-0.0305	Aug-53
48	Sep-53	PUBLIC SERVICE ELECTRIC & GAS	25	0.0101	0	0.0025	0.0076	Sep-53
48	Oct-53	PUBLIC SERVICE ELECTRIC & GAS	25.875	0.035	0	0.0023	0.0327	Oct-53
48	Nov-53	PUBLIC SERVICE ELECTRIC & GAS	25.75	0.0106	0.4	0.0024	0.0082	Nov-53
48	Dec-53	PUBLIC SERVICE ELECTRIC & GAS	25.625	-0.0049	0	0.0024	-0.0073	Dec-53
48	Jan-54	PUBLIC SERVICE ELECTRIC & GAS	26.625	0.039	0	0.0023	0.0367	Jan-54
48	Feb-54	PUBLIC SERVICE ELECTRIC & GAS	26.75	0.0197	0.4	0.0022	0.0175	Feb-54
48	Mar-54	PUBLIC SERVICE ELECTRIC & GAS	27.125	0.014	0	0.0025	0.0115	Mar-54
48	Apr-54	PUBLIC SERVICE ELECTRIC & GAS	27.125	0	0	0.0022	-0.0022	Apr-54
48	May-54	PUBLIC SERVICE ELECTRIC & GAS	27	0.0101	0.4	0.0020	0.0081	May-54
48	Jun-54	PUBLIC SERVICE ELECTRIC & GAS	27.25	0.0093	0	0.0025	0.0068	Jun-54
48	Jul-54	PUBLIC SERVICE ELECTRIC & GAS	28.125	0.0321	0	0.0022	0.0299	Jul-54
48	Aug-54	PUBLIC SERVICE ELECTRIC & GAS	28.25	0.0187	0.4	0.0023	0.0164	Aug-54
48	Sep-54	PUBLIC SERVICE ELECTRIC & GAS	28.375	0.0044	0	0.0022	0.0022	Sep-54
48	Oct-54	PUBLIC SERVICE ELECTRIC & GAS	27.75	-0.022	0	0.0021	-0.0241	Oct-54
48	Nov-54	PUBLIC SERVICE ELECTRIC & GAS	28.5	0.0414	0.4	0.0023	0.0391	Nov-54
48	Dec-54	PUBLIC SERVICE ELECTRIC & GAS	28.625	0.0044	0	0.0023	0.0021	Dec-54
48	Jan-55	PUBLIC SERVICE ELECTRIC & GAS	29.625	0.0349	0	0.0022	0.0327	Jan-55
48	Feb-55	PUBLIC SERVICE ELECTRIC & GAS	31.125	0.0641	0.4	0.0022	0.0619	Feb-55
48	Mar-55	PUBLIC SERVICE ELECTRIC & GAS	29.75	-0.0442	0	0.0024	-0.0466	Mar-55
48	Apr-55	PUBLIC SERVICE ELECTRIC & GAS	31	0.042	0	0.0022	0.0398	Apr-55
48	May-55	PUBLIC SERVICE ELECTRIC & GAS	31.25	0.021	0.4	0.0025	0.0185	May-55
48	Jun-55	PUBLIC SERVICE ELECTRIC & GAS	31.375	0.004	0	0.0023	0.0017	Jun-55
48	Jul-55	PUBLIC SERVICE ELECTRIC & GAS	33.25	0.0598	0	0.0023	0.0575	Jul-55
48	Aug-55	PUBLIC SERVICE ELECTRIC & GAS	32.25	-0.018	0.4	0.0027	-0.0207	Aug-55
48	Sep-55	PUBLIC SERVICE ELECTRIC & GAS	31.625	-0.0194	0	0.0024	-0.0218	Sep-55

48	Oct-55	PUBLIC SERVICE ELECTRIC & GAS	32.5	0.0277	0	0.0025	0.0252	Oct-55
48	Nov-55	PUBLIC SERVICE ELECTRIC & GAS	33.75	0.0523	0.45	0.0024	0.0499	Nov-55
48	Dec-55	PUBLIC SERVICE ELECTRIC & GAS	33.75	0	0	0.0024	-0.0024	Dec-55
48	Jan-56	PUBLIC SERVICE ELECTRIC & GAS	33.375	-0.0111	0	0.0025	-0.0136	Jan-56
48	Feb-56	PUBLIC SERVICE ELECTRIC & GAS	33.375	0.0135	0.45	0.0023	0.0112	Feb-56
48	Mar-56	PUBLIC SERVICE ELECTRIC & GAS	34.875	0.0449	0	0.0023	0.0426	Mar-56
48	Apr-56	PUBLIC SERVICE ELECTRIC & GAS	33.25	-0.0466	0	0.0026	-0.0492	Apr-56
48	May-56	PUBLIC SERVICE ELECTRIC & GAS	33	0.006	0.45	0.0026	0.0034	May-56
48	Jun-56	PUBLIC SERVICE ELECTRIC & GAS	33.25	0.0076	0	0.0023	0.0053	Jun-56
48	Jul-56	PUBLIC SERVICE ELECTRIC & GAS	34.75	0.0451	0	0.0026	0.0425	Jul-56
48	Aug-56	PUBLIC SERVICE ELECTRIC & GAS	33.875	-0.0122	0.45	0.0026	-0.0148	Aug-56
48	Sep-56	PUBLIC SERVICE ELECTRIC & GAS	32.5	-0.0406	0	0.0025	-0.0431	Sep-56
48	Oct-56	PUBLIC SERVICE ELECTRIC & GAS	32.125	-0.0115	0	0.0029	-0.0144	Oct-56
48	Nov-56	PUBLIC SERVICE ELECTRIC & GAS	31.125	-0.0171	0.45	0.0027	-0.0198	Nov-56
48	Dec-56	PUBLIC SERVICE ELECTRIC & GAS	31.5	0.012	0	0.0028	0.0092	Dec-56
48	Jan-57	PUBLIC SERVICE ELECTRIC & GAS	32.375	0.0278	0	0.0029	0.0249	Jan-57
48	Feb-57	PUBLIC SERVICE ELECTRIC & GAS	31.75	-0.0054	0.45	0.0025	-0.0079	Feb-57
48	Mar-57	PUBLIC SERVICE ELECTRIC & GAS	31.625	-0.0039	0	0.0026	-0.0065	Mar-57
48	Apr-57	PUBLIC SERVICE ELECTRIC & GAS	31.625	0	0	0.0029	-0.0029	Apr-57
48	May-57	PUBLIC SERVICE ELECTRIC & GAS	30.25	-0.0292	0.45	0.0029	-0.0321	May-57
48	Jun-57	PUBLIC SERVICE ELECTRIC & GAS	29.5	-0.0248	0	0.0025	-0.0273	Jun-57
48	Jul-57	PUBLIC SERVICE ELECTRIC & GAS	30.125	0.0212	0	0.0033	0.0179	Jul-57
48	Aug-57	PUBLIC SERVICE ELECTRIC & GAS	29.75	0.0025	0.45	0.0030	-0.0005	Aug-57
48	Sep-57	PUBLIC SERVICE ELECTRIC & GAS	29.5	-0.0084	0	0.0031	-0.0115	Sep-57
48	Oct-57	PUBLIC SERVICE ELECTRIC & GAS	28.625	-0.0297	0	0.0031	-0.0328	Oct-57
48	Nov-57	PUBLIC SERVICE ELECTRIC & GAS	29.5	0.0463	0.45	0.0029	0.0434	Nov-57
48	Dec-57	PUBLIC SERVICE ELECTRIC & GAS	29.75	0.0085	0	0.0029	0.0056	Dec-57
48	Jan-58	PUBLIC SERVICE ELECTRIC & GAS	31.875	0.0714	0	0.0027	0.0687	Jan-58
48	Feb-58	PUBLIC SERVICE ELECTRIC & GAS	32.375	0.0298	0.45	0.0025	0.0273	Feb-58
48	Mar-58	PUBLIC SERVICE ELECTRIC & GAS	33	0.0193	0	0.0027	0.0166	Mar-58
48	Apr-58	PUBLIC SERVICE ELECTRIC & GAS	34.75	0.053	0	0.0026	0.0504	Apr-58
48	May-58	PUBLIC SERVICE ELECTRIC & GAS	35.5	0.0345	0.45	0.0024	0.0321	May-58
48	Jun-58	PUBLIC SERVICE ELECTRIC & GAS	36.375	0.0246	0	0.0027	0.0219	Jun-58
48	Jul-58	PUBLIC SERVICE ELECTRIC & GAS	35.25	-0.0309	0	0.0027	-0.0336	Jul-58
48	Aug-58	PUBLIC SERVICE ELECTRIC & GAS	34.5	-0.0085	0.45	0.0027	-0.0112	Aug-58
48	Sep-58	PUBLIC SERVICE ELECTRIC & GAS	34.625	0.0036	0	0.0032	0.0004	Sep-58

48	Oct-58	PUBLIC SERVICE ELECTRIC & GAS	35.25	0.0181	0	0.0032	0.0149	Oct-58
48	Nov-58	PUBLIC SERVICE ELECTRIC & GAS	37.625	0.0801	0.45	0.0028	0.0773	Nov-58
48	Dec-58	PUBLIC SERVICE ELECTRIC & GAS	38.5	0.0233	0	0.0033	0.0200	Dec-58
48	Jan-59	PUBLIC SERVICE ELECTRIC & GAS	39.625	0.0292	0	0.0031	0.0261	Jan-59
48	Feb-59	PUBLIC SERVICE ELECTRIC & GAS	40.75	0.0397	0.45	0.0031	0.0366	Feb-59
48	Mar-59	PUBLIC SERVICE ELECTRIC & GAS	42.625	0.046	0	0.0035	0.0425	Mar-59
48	Apr-59	PUBLIC SERVICE ELECTRIC & GAS	40.75	-0.044	0	0.0033	-0.0473	Apr-59
48	May-59	PUBLIC SERVICE ELECTRIC & GAS	38.75	-0.038	0.45	0.0033	-0.0413	May-59
48	Jun-59	PUBLIC SERVICE ELECTRIC & GAS	38.75	0	0	0.0036	-0.0036	Jun-59
48	Jul-59	PUBLIC SERVICE ELECTRIC & GAS	39.875	0.029	0	0.0035	0.0255	Jul-59
48	Aug-59	PUBLIC SERVICE ELECTRIC & GAS	38	-0.0357	0.45	0.0035	-0.0392	Aug-59
48	Sep-59	PUBLIC SERVICE ELECTRIC & GAS	37	-0.0263	0	0.0034	-0.0297	Sep-59
48	Oct-59	PUBLIC SERVICE ELECTRIC & GAS	37.125	0.0034	0	0.0035	-0.0001	Oct-59
48	Nov-59	PUBLIC SERVICE ELECTRIC & GAS	36.125	-0.0148	0.45	0.0035	-0.0183	Nov-59
48	Dec-59	PUBLIC SERVICE ELECTRIC & GAS	37.5	0.0381	0	0.0036	0.0345	Dec-59
48	Jan-60	PUBLIC SERVICE ELECTRIC & GAS	36.75	-0.02	0	0.0035	-0.0235	Jan-60
48	Feb-60	PUBLIC SERVICE ELECTRIC & GAS	37	0.019	0.45	0.0037	0.0153	Feb-60
48	Mar-60	PUBLIC SERVICE ELECTRIC & GAS	38	0.027	0	0.0036	0.0234	Mar-60
48	Apr-60	PUBLIC SERVICE ELECTRIC & GAS	38.875	0.023	0	0.0032	0.0198	Apr-60
48	May-60	PUBLIC SERVICE ELECTRIC & GAS	36.5	-0.0495	0.45	0.0037	-0.0532	May-60
48	Jun-60	PUBLIC SERVICE ELECTRIC & GAS	40	0.0959	0	0.0034	0.0925	Jun-60
48	Jul-60	PUBLIC SERVICE ELECTRIC & GAS	40	0	0	0.0032	-0.0032	Jul-60
48	Aug-60	PUBLIC SERVICE ELECTRIC & GAS	40.25	0.0175	0.45	0.0034	0.0141	Aug-60
48	Sep-60	PUBLIC SERVICE ELECTRIC & GAS	39.75	-0.0124	0	0.0032	-0.0156	Sep-60
48	Oct-60	PUBLIC SERVICE ELECTRIC & GAS	40.125	0.0094	0	0.0033	0.0061	Oct-60
48	Nov-60	PUBLIC SERVICE ELECTRIC & GAS	41.125	0.0374	0.5	0.0032	0.0342	Nov-60
48	Dec-60	PUBLIC SERVICE ELECTRIC & GAS	44.375	0.079	0	0.0033	0.0757	Dec-60
48	Jan-61	PUBLIC SERVICE ELECTRIC & GAS	47.375	0.0676	0	0.0033	0.0643	Jan-61
48	Feb-61	PUBLIC SERVICE ELECTRIC & GAS	49.875	0.0633	0.5	0.0030	0.0603	Feb-61
48	Mar-61	PUBLIC SERVICE ELECTRIC & GAS	52.75	0.0576	0	0.0031	0.0545	Mar-61
48	Apr-61	PUBLIC SERVICE ELECTRIC & GAS	53.375	0.0118	0	0.0031	0.0087	Apr-61
48	May-61	PUBLIC SERVICE ELECTRIC & GAS	52.5	-0.007	0.5	0.0034	-0.0104	May-61
48	Jun-61	PUBLIC SERVICE ELECTRIC & GAS	52.375	-0.0024	0	0.0032	-0.0056	Jun-61
48	Jul-61	PUBLIC SERVICE ELECTRIC & GAS	56.625	0.0811	0	0.0033	0.0778	Jul-61
48	Aug-61	PUBLIC SERVICE ELECTRIC & GAS	59.25	0.0552	0.5	0.0033	0.0519	Aug-61
48	Sep-61	PUBLIC SERVICE ELECTRIC & GAS	60	0.0127	0	0.0032	0.0095	Sep-61

48	Oct-61	PUBLIC SERVICE ELECTRIC & GAS		66.75	0.1125	0	0.0034	0.1091	Oct-61
48	Nov-61	PUBLIC SERVICE ELECTRIC & GAS		66.5	0.0045	0.55	0.0032	0.0013	Nov-61
48	Dec-61	PUBLIC SERVICE ELECTRIC & GAS		64	-0.0376	0	0.0031	-0.0407	Dec-61
48	Jan-62	PUBLIC SERVICE ELECTRIC & GAS		62.25	-0.0273	0	0.0037	-0.0310	Jan-62
48	Feb-62	PUBLIC SERVICE ELECTRIC & GAS		64.75	0.049	0.55005	0.0032	0.0458	Feb-62
48	Mar-62	PUBLIC SERVICE ELECTRIC & GAS		68.25	0.0541	0	0.0033	0.0508	Mar-62
48	Apr-62	PUBLIC SERVICE ELECTRIC & GAS		66.875	-0.0201	0	0.0033	-0.0234	Apr-62
48	May-62	PUBLIC SERVICE ELECTRIC & GAS		58	-0.1245	0.55005	0.0032	-0.1277	May-62
48	Jun-62	PUBLIC SERVICE ELECTRIC & GAS		56.75	-0.0216	0	0.0030	-0.0246	Jun-62
48	Jul-62	PUBLIC SERVICE ELECTRIC & GAS	PEG	61.875	0.0903	0	0.0034	0.0869	Jul-62
48	Aug-62	PUBLIC SERVICE ELECTRIC & GAS	PEG	67	0.0917	0.55	0.0034	0.0883	Aug-62
48	Sep-62	PUBLIC SERVICE ELECTRIC & GAS	PEG	63.125	-0.0578	0	0.0030	-0.0608	Sep-62
48	Oct-62	PUBLIC SERVICE ELECTRIC & GAS	PEG	62.5	-0.0099	0	0.0035	-0.0134	Oct-62
48	Nov-62	PUBLIC SERVICE ELECTRIC & GAS	PEG	64.375	0.0388	0.55	0.0031	0.0357	Nov-62
48	Dec-62	PUBLIC SERVICE ELECTRIC & GAS	PEG	69	0.0718	0	0.0032	0.0686	Dec-62
48	Jan-63	PUBLIC SERVICE ELECTRIC & GAS	PEG	71.625	0.038	0	0.0032	0.0348	Jan-63
48	Feb-63	PUBLIC SERVICE ELECTRIC & GAS	PEG	71	-0.0003	0.6	0.0029	-0.0032	Feb-63
48	Mar-63	PUBLIC SERVICE ELECTRIC & GAS	PEG	72.75	0.0246	0	0.0031	0.0215	Mar-63
48	Apr-63	PUBLIC SERVICE ELECTRIC & GAS	PEG	73.25	0.0069	0	0.0034	0.0035	Apr-63
48	May-63	PUBLIC SERVICE ELECTRIC & GAS	PEG	75.375	0.0372	0.6	0.0033	0.0339	May-63
48	Jun-63	PUBLIC SERVICE ELECTRIC & GAS	PEG	74.125	-0.0166	0	0.0030	-0.0196	Jun-63
48	Jul-63	PUBLIC SERVICE ELECTRIC & GAS	PEG	75.25	0.0152	0	0.0036	0.0116	Jul-63
48	Aug-63	PUBLIC SERVICE ELECTRIC & GAS	PEG	76.625	0.0262	0.6	0.0033	0.0229	Aug-63
48	Sep-63	PUBLIC SERVICE ELECTRIC & GAS	PEG	73	-0.0473	0	0.0034	-0.0507	Sep-63
48	Oct-63	PUBLIC SERVICE ELECTRIC & GAS	PEG	74.125	0.0154	0	0.0034	0.0120	Oct-63
48	Nov-63	PUBLIC SERVICE ELECTRIC & GAS	PEG	74.125	0.0088	0.65	0.0032	0.0056	Nov-63
48	Dec-63	PUBLIC SERVICE ELECTRIC & GAS	PEG	74	-0.0017	0	0.0036	-0.0053	Dec-63
48	Jan-64	PUBLIC SERVICE ELECTRIC & GAS	PEG	75.75	0.0236	0	0.0035	0.0201	Jan-64
48	Feb-64	PUBLIC SERVICE ELECTRIC & GAS	PEG	78.125	0.0399	0.65	0.0032	0.0367	Feb-64
48	Mar-64	PUBLIC SERVICE ELECTRIC & GAS	PEG	74.5	-0.0464	0	0.0037	-0.0501	Mar-64
48	Apr-64	PUBLIC SERVICE ELECTRIC & GAS	PEG	77.625	0.0419	0	0.0035	0.0384	Apr-64
48	May-64	PUBLIC SERVICE ELECTRIC & GAS	PEG	37.25	-0.0319	0.65	0.0032	-0.0351	May-64
48	Jun-64	PUBLIC SERVICE ELECTRIC & GAS	PEG	37.75	0.0134	0	0.0038	0.0096	Jun-64
48	Jul-64	PUBLIC SERVICE ELECTRIC & GAS	PEG	38.875	0.0298	0	0.0035	0.0263	Jul-64
48	Aug-64	PUBLIC SERVICE ELECTRIC & GAS	PEG	38.125	-0.0109	0.325	0.0035	-0.0144	Aug-64
48	Sep-64	PUBLIC SERVICE ELECTRIC & GAS	PEG	38.875	0.0197	0	0.0034	0.0163	Sep-64

48	Oct-64	PUBLIC SERVICE ELECTRIC & GAS	PEG	37.75	-0.0289	0	0.0034	-0.0323	Oct-64
48	Nov-64	PUBLIC SERVICE ELECTRIC & GAS	PEG	38.75	0.0355	0.34	0.0035	0.0320	Nov-64
48	Dec-64	PUBLIC SERVICE ELECTRIC & GAS	PEG	40	0.0323	0	0.0035	0.0288	Dec-64
48	Jan-65	PUBLIC SERVICE ELECTRIC & GAS	PEG	43	0.075	0	0.0033	0.0717	Jan-65
48	Feb-65	PUBLIC SERVICE ELECTRIC & GAS	PEG	41.375	-0.0299	0.34	0.0032	-0.0331	Feb-65
48	Mar-65	PUBLIC SERVICE ELECTRIC & GAS	PEG	40.375	-0.0242	0	0.0038	-0.0280	Mar-65
48	Apr-65	PUBLIC SERVICE ELECTRIC & GAS	PEG	40.5	0.0031	0	0.0033	-0.0002	Apr-65
48	May-65	PUBLIC SERVICE ELECTRIC & GAS	PEG	41.625	0.0362	0.34	0.0033	0.0329	May-65
48	Jun-65	PUBLIC SERVICE ELECTRIC & GAS	PEG	39.25	-0.0571	0	0.0038	-0.0609	Jun-65
48	Jul-65	PUBLIC SERVICE ELECTRIC & GAS	PEG	40.25	0.0255	0	0.0034	0.0221	Jul-65
48	Aug-65	PUBLIC SERVICE ELECTRIC & GAS	PEG	40.25	0.0084	0.34	0.0037	0.0047	Aug-65
48	Sep-65	PUBLIC SERVICE ELECTRIC & GAS	PEG	40	-0.0062	0	0.0035	-0.0097	Sep-65
48	Oct-65	PUBLIC SERVICE ELECTRIC & GAS	PEG	40.5	0.0125	0	0.0034	0.0091	Oct-65
48	Nov-65	PUBLIC SERVICE ELECTRIC & GAS	PEG	39.875	-0.0064	0.365	0.0037	-0.0101	Nov-65
48	Dec-65	PUBLIC SERVICE ELECTRIC & GAS	PEG	39.25	-0.0157	0	0.0037	-0.0194	Dec-65
48	Jan-66	PUBLIC SERVICE ELECTRIC & GAS	PEG	37.5	-0.0446	0	0.0038	-0.0484	Jan-66
48	Feb-66	PUBLIC SERVICE ELECTRIC & GAS	PEG	36.5	-0.0169	0.365	0.0034	-0.0203	Feb-66
48	Mar-66	PUBLIC SERVICE ELECTRIC & GAS	PEG	36.5	0	0	0.0040	-0.0040	Mar-66
48	Apr-66	PUBLIC SERVICE ELECTRIC & GAS	PEG	36.25	-0.0068	0	0.0036	-0.0104	Apr-66
48	May-66	PUBLIC SERVICE ELECTRIC & GAS	PEG	33.5	-0.0658	0.365	0.0041	-0.0699	May-66
48	Jun-66	PUBLIC SERVICE ELECTRIC & GAS	PEG	32.625	-0.0261	0	0.0039	-0.0300	Jun-66
48	Jul-66	PUBLIC SERVICE ELECTRIC & GAS	PEG	34.5	0.0575	0	0.0038	0.0537	Jul-66
48	Aug-66	PUBLIC SERVICE ELECTRIC & GAS	PEG	28.75	-0.1561	0.365	0.0043	-0.1604	Aug-66
48	Sep-66	PUBLIC SERVICE ELECTRIC & GAS	PEG	31	0.0783	0	0.0041	0.0742	Sep-66
48	Oct-66	PUBLIC SERVICE ELECTRIC & GAS	PEG	34.5	0.1129	0	0.0040	0.1089	Oct-66
48	Nov-66	PUBLIC SERVICE ELECTRIC & GAS	PEG	35.75	0.0474	0.385	0.0038	0.0436	Nov-66
48	Dec-66	PUBLIC SERVICE ELECTRIC & GAS	PEG	36	0.007	0	0.0039	0.0031	Dec-66
48	Jan-67	PUBLIC SERVICE ELECTRIC & GAS	PEG	35.875	-0.0035	0	0.0040	-0.0075	Jan-67
48	Feb-67	PUBLIC SERVICE ELECTRIC & GAS	PEG	35.625	0.0038	0.385	0.0034	0.0004	Feb-67
48	Mar-67	PUBLIC SERVICE ELECTRIC & GAS	PEG	35.625	0	0	0.0039	-0.0039	Mar-67
48	Apr-67	PUBLIC SERVICE ELECTRIC & GAS	PEG	35	-0.0175	0	0.0035	-0.0210	Apr-67
48	May-67	PUBLIC SERVICE ELECTRIC & GAS	PEG	34.5	-0.0033	0.385	0.0043	-0.0076	May-67
48	Jun-67	PUBLIC SERVICE ELECTRIC & GAS	PEG	34.75	0.0072	0	0.0039	0.0033	Jun-67
48	Jul-67	PUBLIC SERVICE ELECTRIC & GAS	PEG	32.875	-0.054	0	0.0043	-0.0583	Jul-67
48	Aug-67	PUBLIC SERVICE ELECTRIC & GAS	PEG	32.875	0.0117	0.385	0.0042	0.0075	Aug-67
48	Sep-67	PUBLIC SERVICE ELECTRIC & GAS	PEG	31.875	-0.0304	0	0.0040	-0.0344	Sep-67

48	Oct-67	PUBLIC SERVICE ELECTRIC & GAS	PEG	30.125	-0.0549	0	0.0045	-0.0594	Oct-67
48	Nov-67	PUBLIC SERVICE ELECTRIC & GAS	PEG	31.625	0.0631	0.4	0.0045	0.0586	Nov-67
48	Dec-67	PUBLIC SERVICE ELECTRIC & GAS	PEG	32.875	0.0395	0	0.0044	0.0351	Dec-67
48	Jan-68	PUBLIC SERVICE ELECTRIC & GAS	PEG	33.375	0.0152	0	0.0050	0.0102	Jan-68
48	Feb-68	PUBLIC SERVICE ELECTRIC & GAS	PEG	33	0.0007	0.4	0.0042	-0.0035	Feb-68
48	Mar-68	PUBLIC SERVICE ELECTRIC & GAS	PEG	31.125	-0.0568	0	0.0043	-0.0611	Mar-68
48	Apr-68	PUBLIC SERVICE ELECTRIC & GAS	PEG	30.875	-0.008	0	0.0049	-0.0129	Apr-68
48	May-68	PUBLIC SERVICE ELECTRIC & GAS	PEG	30.25	-0.0073	0.4	0.0046	-0.0119	May-68
48	Jun-68	PUBLIC SERVICE ELECTRIC & GAS	PEG	33.5	0.1074	0	0.0042	0.1032	Jun-68
48	Jul-68	PUBLIC SERVICE ELECTRIC & GAS	PEG	32.875	-0.0187	0	0.0048	-0.0235	Jul-68
48	Aug-68	PUBLIC SERVICE ELECTRIC & GAS	PEG	32.875	0.0122	0.4	0.0042	0.0080	Aug-68
48	Sep-68	PUBLIC SERVICE ELECTRIC & GAS	PEG	32.25	-0.019	0	0.0044	-0.0234	Sep-68
48	Oct-68	PUBLIC SERVICE ELECTRIC & GAS	PEG	32.375	0.0039	0	0.0045	-0.0006	Oct-68
48	Nov-68	PUBLIC SERVICE ELECTRIC & GAS	PEG	37.75	0.1787	0.41	0.0043	0.1744	Nov-68
48	Dec-68	PUBLIC SERVICE ELECTRIC & GAS	PEG	35.125	-0.0695	0	0.0049	-0.0744	Dec-68
48	Jan-69	PUBLIC SERVICE ELECTRIC & GAS	PEG	36.25	0.032	0	0.0050	0.0270	Jan-69
48	Feb-69	PUBLIC SERVICE ELECTRIC & GAS	PEG	33.75	-0.0577	0.41	0.0046	-0.0623	Feb-69
48	Mar-69	PUBLIC SERVICE ELECTRIC & GAS	PEG	33.75	0	0	0.0047	-0.0047	Mar-69
48	Apr-69	PUBLIC SERVICE ELECTRIC & GAS	PEG	33.75	0	0	0.0055	-0.0055	Apr-69
48	May-69	PUBLIC SERVICE ELECTRIC & GAS	PEG	32.875	-0.0138	0.41	0.0047	-0.0185	May-69
48	Jun-69	PUBLIC SERVICE ELECTRIC & GAS	PEG	31.5	-0.0418	0	0.0055	-0.0473	Jun-69
48	Jul-69	PUBLIC SERVICE ELECTRIC & GAS	PEG	30.25	-0.0397	0	0.0052	-0.0449	Jul-69
48	Aug-69	PUBLIC SERVICE ELECTRIC & GAS	PEG	28.375	-0.0484	0.41	0.0048	-0.0532	Aug-69
48	Sep-69	PUBLIC SERVICE ELECTRIC & GAS	PEG	26.5	-0.0661	0	0.0055	-0.0716	Sep-69
48	Oct-69	PUBLIC SERVICE ELECTRIC & GAS	PEG	28.25	0.066	0	0.0057	0.0603	Oct-69
48	Nov-69	PUBLIC SERVICE ELECTRIC & GAS	PEG	26.125	-0.0607	0.41	0.0049	-0.0656	Nov-69
48	Dec-69	PUBLIC SERVICE ELECTRIC & GAS	PEG	26.625	0.0191	0	0.0060	0.0131	Dec-69
48	Jan-70	PUBLIC SERVICE ELECTRIC & GAS	PEG	24.5	-0.0798	0	0.0056	-0.0854	Jan-70
48	Feb-70	PUBLIC SERVICE ELECTRIC & GAS	PEG	26	0.078	0.41	0.0052	0.0728	Feb-70
48	Mar-70	PUBLIC SERVICE ELECTRIC & GAS	PEG	26.25	0.0096	0	0.0056	0.0040	Mar-70
48	Apr-70	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.75	-0.0952	0	0.0054	-0.1006	Apr-70
48	May-70	PUBLIC SERVICE ELECTRIC & GAS	PEG	23	-0.0143	0.41	0.0055	-0.0198	May-70
48	Jun-70	PUBLIC SERVICE ELECTRIC & GAS	PEG	21.25	-0.0761	0	0.0064	-0.0825	Jun-70
48	Jul-70	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.125	0.0412	0	0.0059	0.0353	Jul-70
48	Aug-70	PUBLIC SERVICE ELECTRIC & GAS	PEG	23	0.0581	0.41	0.0057	0.0524	Aug-70
48	Sep-70	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.75	-0.0053	0	0.0056	-0.0109	Sep-70

48	Oct-70	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.625	0.0385	0	0.0055	0.0330	Oct-70
48	Nov-70	PUBLIC SERVICE ELECTRIC & GAS	PEG	25.75	0.1073	0.41	0.0058	0.1015	Nov-70
48	Dec-70	PUBLIC SERVICE ELECTRIC & GAS	PEG	28	0.0874	0	0.0053	0.0821	Dec-70
48	Jan-71	PUBLIC SERVICE ELECTRIC & GAS	PEG	28.125	0.0045	0	0.0051	-0.0006	Jan-71
48	Feb-71	PUBLIC SERVICE ELECTRIC & GAS	PEG	27.25	-0.0165	0.41	0.0046	-0.0211	Feb-71
48	Mar-71	PUBLIC SERVICE ELECTRIC & GAS	PEG	28.75	0.055	0	0.0056	0.0494	Mar-71
48	Apr-71	PUBLIC SERVICE ELECTRIC & GAS	PEG	28.25	-0.0174	0	0.0048	-0.0222	Apr-71
48	May-71	PUBLIC SERVICE ELECTRIC & GAS	PEG	26.625	-0.043	0.41	0.0047	-0.0477	May-71
48	Jun-71	PUBLIC SERVICE ELECTRIC & GAS	PEG	28.125	0.0563	0	0.0056	0.0507	Jun-71
48	Jul-71	PUBLIC SERVICE ELECTRIC & GAS	PEG	26.75	-0.0489	0	0.0052	-0.0541	Jul-71
48	Aug-71	PUBLIC SERVICE ELECTRIC & GAS	PEG	25.625	-0.0267	0.41	0.0055	-0.0322	Aug-71
48	Sep-71	PUBLIC SERVICE ELECTRIC & GAS	PEG	25.625	0	0	0.0049	-0.0049	Sep-71
48	Oct-71	PUBLIC SERVICE ELECTRIC & GAS	PEG	26	0.0146	0	0.0047	0.0099	Oct-71
48	Nov-71	PUBLIC SERVICE ELECTRIC & GAS	PEG	25.5	-0.0035	0.41	0.0051	-0.0086	Nov-71
48	Dec-71	PUBLIC SERVICE ELECTRIC & GAS	PEG	27.5	0.0784	0	0.0050	0.0734	Dec-71
48	Jan-72	PUBLIC SERVICE ELECTRIC & GAS	PEG	26.875	-0.0227	0	0.0050	-0.0277	Jan-72
48	Feb-72	PUBLIC SERVICE ELECTRIC & GAS	PEG	25.375	-0.0406	0.41	0.0047	-0.0453	Feb-72
48	Mar-72	PUBLIC SERVICE ELECTRIC & GAS	PEG	25.125	-0.0099	0	0.0049	-0.0148	Mar-72
48	Apr-72	PUBLIC SERVICE ELECTRIC & GAS	PEG	24.25	-0.0348	0	0.0048	-0.0396	Apr-72
48	May-72	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.25	-0.0235	0.43	0.0055	-0.0290	May-72
48	Jun-72	PUBLIC SERVICE ELECTRIC & GAS	PEG	23	-0.0053	0	0.0049	-0.0102	Jun-72
48	Jul-72	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.125	0.0054	0	0.0051	0.0003	Jul-72
48	Aug-72	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.375	0.0294	0.43	0.0049	0.0245	Aug-72
48	Sep-72	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.5	0.0053	0	0.0047	0.0006	Sep-72
48	Oct-72	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.75	0.0106	0	0.0052	0.0054	Oct-72
48	Nov-72	PUBLIC SERVICE ELECTRIC & GAS	PEG	25.875	0.1076	0.43	0.0048	0.1028	Nov-72
48	Dec-72	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.75	-0.0821	0	0.0045	-0.0866	Dec-72
48	Jan-73	PUBLIC SERVICE ELECTRIC & GAS	PEG	24.5	0.0316	0	0.0054	0.0262	Jan-73
48	Feb-73	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.75	-0.0131	0.43	0.0051	-0.0182	Feb-73
48	Mar-73	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.5	-0.0105	0	0.0056	-0.0161	Mar-73
48	Apr-73	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.375	-0.0053	0	0.0057	-0.0110	Apr-73
48	May-73	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.875	-0.003	0.43	0.0058	-0.0088	May-73
48	Jun-73	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.25	-0.0273	0	0.0055	-0.0328	Jun-73
48	Jul-73	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.125	-0.0056	0	0.0061	-0.0117	Jul-73
48	Aug-73	PUBLIC SERVICE ELECTRIC & GAS	PEG	21.5	-0.0088	0.43	0.0062	-0.0150	Aug-73
48	Sep-73	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.625	0.0523	0	0.0055	0.0468	Sep-73

48	Oct-73	PUBLIC SERVICE ELECTRIC & GAS	PEG	21.75	-0.0387	0	0.0063	-0.0450	Oct-73
48	Nov-73	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.25	-0.0952	0.43	0.0056	-0.1008	Nov-73
48	Dec-73	PUBLIC SERVICE ELECTRIC & GAS	PEG	18.375	-0.0455	0	0.0060	-0.0515	Dec-73
48	Jan-74	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.75	0.0748	0	0.0061	0.0687	Jan-74
48	Feb-74	PUBLIC SERVICE ELECTRIC & GAS	PEG	20.125	0.0408	0.43	0.0055	0.0353	Feb-74
48	Mar-74	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.625	-0.0248	0	0.0058	-0.0306	Mar-74
48	Apr-74	PUBLIC SERVICE ELECTRIC & GAS	PEG	16.75	-0.1465	0	0.0068	-0.1533	Apr-74
48	May-74	PUBLIC SERVICE ELECTRIC & GAS	PEG	15.125	-0.0713	0.43	0.0068	-0.0781	May-74
48	Jun-74	PUBLIC SERVICE ELECTRIC & GAS	PEG	13	-0.1405	0	0.0061	-0.1466	Jun-74
48	Jul-74	PUBLIC SERVICE ELECTRIC & GAS	PEG	13	0	0	0.0072	-0.0072	Jul-74
48	Aug-74	PUBLIC SERVICE ELECTRIC & GAS	PEG	12.25	-0.0246	0.43	0.0065	-0.0311	Aug-74
48	Sep-74	PUBLIC SERVICE ELECTRIC & GAS	PEG	11.875	-0.0306	0	0.0071	-0.0377	Sep-74
48	Oct-74	PUBLIC SERVICE ELECTRIC & GAS	PEG	12.5	0.0526	0	0.0070	0.0456	Oct-74
48	Nov-74	PUBLIC SERVICE ELECTRIC & GAS	PEG	12	-0.0056	0.43	0.0062	-0.0118	Nov-74
48	Dec-74	PUBLIC SERVICE ELECTRIC & GAS	PEG	11.5	-0.0417	0	0.0067	-0.0484	Dec-74
48	Jan-75	PUBLIC SERVICE ELECTRIC & GAS	PEG	16.25	0.413	0	0.0068	0.4062	Jan-75
48	Feb-75	PUBLIC SERVICE ELECTRIC & GAS	PEG	15.375	-0.0274	0.43	0.0060	-0.0334	Feb-75
48	Mar-75	PUBLIC SERVICE ELECTRIC & GAS	PEG	15.125	-0.0163	0	0.0066	-0.0229	Mar-75
48	Apr-75	PUBLIC SERVICE ELECTRIC & GAS	PEG	14.75	-0.0248	0	0.0067	-0.0315	Apr-75
48	May-75	PUBLIC SERVICE ELECTRIC & GAS	PEG	15.25	0.0631	0.43	0.0067	0.0564	May-75
48	Jun-75	PUBLIC SERVICE ELECTRIC & GAS	PEG	16.625	0.0987	0	0.0070	0.0917	Jun-75
48	Jul-75	PUBLIC SERVICE ELECTRIC & GAS	PEG	15.875	-0.0451	0	0.0068	-0.0519	Jul-75
48	Aug-75	PUBLIC SERVICE ELECTRIC & GAS	PEG	15.5	0.0035	0.43	0.0065	-0.0030	Aug-75
48	Sep-75	PUBLIC SERVICE ELECTRIC & GAS	PEG	16.125	0.0403	0	0.0073	0.0330	Sep-75
48	Oct-75	PUBLIC SERVICE ELECTRIC & GAS	PEG	17.75	0.1008	0	0.0072	0.0936	Oct-75
48	Nov-75	PUBLIC SERVICE ELECTRIC & GAS	PEG	18	0.0383	0.43	0.0061	0.0322	Nov-75
48	Dec-75	PUBLIC SERVICE ELECTRIC & GAS	PEG	18.125	0.0069	0	0.0074	-0.0005	Dec-75
48	Jan-76	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.625	0.0828	0	0.0065	0.0763	Jan-76
48	Feb-76	PUBLIC SERVICE ELECTRIC & GAS	PEG	18.25	-0.0482	0.43	0.0060	-0.0542	Feb-76
48	Mar-76	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.125	0.0479	0	0.0071	0.0408	Mar-76
48	Apr-76	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.125	0	0	0.0064	-0.0064	Apr-76
48	May-76	PUBLIC SERVICE ELECTRIC & GAS	PEG	18.375	-0.0157	0.45	0.0059	-0.0216	May-76
48	Jun-76	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.25	0.0476	0	0.0073	0.0403	Jun-76
48	Jul-76	PUBLIC SERVICE ELECTRIC & GAS	PEG	20.25	0.0519	0	0.0065	0.0454	Jul-76
48	Aug-76	PUBLIC SERVICE ELECTRIC & GAS	PEG	20.75	0.0469	0.45	0.0069	0.0400	Aug-76
48	Sep-76	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.5	0.0843	0	0.0064	0.0779	Sep-76

48	Oct-76	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.75	0.0111	0	0.0061	0.0050	Oct-76
48	Nov-76	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.25	-0.0022	0.45	0.0066	-0.0088	Nov-76
48	Dec-76	PUBLIC SERVICE ELECTRIC & GAS	PEG	23	0.0337	0	0.0063	0.0274	Dec-76
48	Jan-77	PUBLIC SERVICE ELECTRIC & GAS	PEG	23	0	0	0.0059	-0.0059	Jan-77
48	Feb-77	PUBLIC SERVICE ELECTRIC & GAS	PEG	22	-0.0239	0.45	0.0057	-0.0296	Feb-77
48	Mar-77	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.25	0.0114	0	0.0065	0.0049	Mar-77
48	Apr-77	PUBLIC SERVICE ELECTRIC & GAS	PEG	24	0.0787	0	0.0061	0.0726	Apr-77
48	May-77	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.75	0.01	0.49	0.0067	0.0033	May-77
48	Jun-77	PUBLIC SERVICE ELECTRIC & GAS	PEG	24.625	0.0368	0	0.0062	0.0306	Jun-77
48	Jul-77	PUBLIC SERVICE ELECTRIC & GAS	PEG	25.625	0.0406	0	0.0059	0.0347	Jul-77
48	Aug-77	PUBLIC SERVICE ELECTRIC & GAS	PEG	24.25	-0.0345	0.49	0.0067	-0.0412	Aug-77
48	Sep-77	PUBLIC SERVICE ELECTRIC & GAS	PEG	25	0.0309	0	0.0061	0.0248	Sep-77
48	Oct-77	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.125	-0.075	0	0.0063	-0.0813	Oct-77
48	Nov-77	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.625	0.0428	0.49	0.0063	0.0365	Nov-77
48	Dec-77	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.875	-0.0317	0	0.0062	-0.0379	Dec-77
48	Jan-78	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.375	-0.0219	0	0.0069	-0.0288	Jan-78
48	Feb-78	PUBLIC SERVICE ELECTRIC & GAS	PEG	21.625	-0.0116	0.49	0.0060	-0.0176	Feb-78
48	Mar-78	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.5	0.0405	0	0.0069	0.0336	Mar-78
48	Apr-78	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.375	0.0389	0	0.0063	0.0326	Apr-78
48	May-78	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.375	-0.0201	0.53	0.0075	-0.0276	May-78
48	Jun-78	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.375	0	0	0.0069	-0.0069	Jun-78
48	Jul-78	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.25	0.0391	0	0.0073	0.0318	Jul-78
48	Aug-78	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.375	0.0282	0.53	0.0070	0.0212	Aug-78
48	Sep-78	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.5	0.0053	0	0.0065	-0.0012	Sep-78
48	Oct-78	PUBLIC SERVICE ELECTRIC & GAS	PEG	21.5	-0.0851	0	0.0073	-0.0924	Oct-78
48	Nov-78	PUBLIC SERVICE ELECTRIC & GAS	PEG	21.625	0.0305	0.53	0.0071	0.0234	Nov-78
48	Dec-78	PUBLIC SERVICE ELECTRIC & GAS	PEG	20.25	-0.0636	0	0.0068	-0.0704	Dec-78
48	Jan-79	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.375	0.1049	0	0.0079	0.0970	Jan-79
48	Feb-79	PUBLIC SERVICE ELECTRIC & GAS	PEG	21.25	-0.0257	0.55	0.0065	-0.0322	Feb-79
48	Mar-79	PUBLIC SERVICE ELECTRIC & GAS	PEG	21.875	0.0294	0	0.0074	0.0220	Mar-79
48	Apr-79	PUBLIC SERVICE ELECTRIC & GAS	PEG	20.25	-0.0743	0	0.0076	-0.0819	Apr-79
48	May-79	PUBLIC SERVICE ELECTRIC & GAS	PEG	20.5	0.0395	0.55	0.0077	0.0318	May-79
48	Jun-79	PUBLIC SERVICE ELECTRIC & GAS	PEG	21.375	0.0427	0	0.0071	0.0356	Jun-79
48	Jul-79	PUBLIC SERVICE ELECTRIC & GAS	PEG	21.25	-0.0058	0	0.0076	-0.0134	Jul-79
48	Aug-79	PUBLIC SERVICE ELECTRIC & GAS	PEG	21	0.0141	0.55	0.0073	0.0068	Aug-79
48	Sep-79	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.875	-0.0536	0	0.0068	-0.0604	Sep-79

48	Oct-79	PUBLIC SERVICE ELECTRIC & GAS	PEG	19	-0.044	0	0.0082	-0.0522	Oct-79
48	Nov-79	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.375	0.0487	0.55	0.0083	0.0404	Nov-79
48	Dec-79	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.25	-0.0065	0	0.0083	-0.0148	Dec-79
48	Jan-80	PUBLIC SERVICE ELECTRIC & GAS	PEG	17.875	-0.0714	0	0.0083	-0.0797	Jan-80
48	Feb-80	PUBLIC SERVICE ELECTRIC & GAS	PEG	17	-0.0182	0.55	0.0084	-0.0266	Feb-80
48	Mar-80	PUBLIC SERVICE ELECTRIC & GAS	PEG	16.625	-0.0221	0	0.0099	-0.0320	Mar-80
48	Apr-80	PUBLIC SERVICE ELECTRIC & GAS	PEG	20	0.203	0	0.0100	0.1930	Apr-80
48	May-80	PUBLIC SERVICE ELECTRIC & GAS	PEG	20.125	0.0353	0.58	0.0087	0.0266	May-80
48	Jun-80	PUBLIC SERVICE ELECTRIC & GAS	PEG	20.625	0.0248	0	0.0086	0.0162	Jun-80
48	Jul-80	PUBLIC SERVICE ELECTRIC & GAS	PEG	20	-0.0303	0	0.0084	-0.0387	Jul-80
48	Aug-80	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.75	-0.0125	0	0.0081	-0.0206	Aug-80
48	Sep-80	PUBLIC SERVICE ELECTRIC & GAS	PEG	18	-0.0592	0.58	0.0097	-0.0689	Sep-80
48	Oct-80	PUBLIC SERVICE ELECTRIC & GAS	PEG	17.375	-0.0347	0	0.0097	-0.0444	Oct-80
48	Nov-80	PUBLIC SERVICE ELECTRIC & GAS	PEG	17.625	0.0144	0	0.0091	0.0053	Nov-80
48	Dec-80	PUBLIC SERVICE ELECTRIC & GAS	PEG	17	-0.0026	0.58	0.0108	-0.0134	Dec-80
48	Jan-81	PUBLIC SERVICE ELECTRIC & GAS	PEG	18.875	0.1103	0	0.0094	0.1009	Jan-81
48	Feb-81	PUBLIC SERVICE ELECTRIC & GAS	PEG	18.5	-0.0199	0	0.0088	-0.0287	Feb-81
48	Mar-81	PUBLIC SERVICE ELECTRIC & GAS	PEG	18	0.0059	0.61	0.0111	-0.0052	Mar-81
48	Apr-81	PUBLIC SERVICE ELECTRIC & GAS	PEG	18	0	0	0.0101	-0.0101	Apr-81
48	May-81	PUBLIC SERVICE ELECTRIC & GAS	PEG	18.375	0.0208	0	0.0104	0.0104	May-81
48	Jun-81	PUBLIC SERVICE ELECTRIC & GAS	PEG	18.375	0.0332	0.61	0.0109	0.0223	Jun-81
48	Jul-81	PUBLIC SERVICE ELECTRIC & GAS	PEG	18	-0.0204	0	0.0109	-0.0313	Jul-81
48	Aug-81	PUBLIC SERVICE ELECTRIC & GAS	PEG	18.5	0.0278	0	0.0110	0.0168	Aug-81
48	Sep-81	PUBLIC SERVICE ELECTRIC & GAS	PEG	16.875	-0.0549	0.61	0.0114	-0.0663	Sep-81
48	Oct-81	PUBLIC SERVICE ELECTRIC & GAS	PEG	18.625	0.1037	0	0.0117	0.0920	Oct-81
48	Nov-81	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.75	0.0604	0	0.0113	0.0491	Nov-81
48	Dec-81	PUBLIC SERVICE ELECTRIC & GAS	PEG	18	-0.0577	0.61	0.0100	-0.0677	Dec-81
48	Jan-82	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.25	0.0694	0	0.0108	0.0586	Jan-82
48	Feb-82	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.875	0.0325	0	0.0103	0.0222	Feb-82
48	Mar-82	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.375	0.0055	0.61	0.0124	-0.0069	Mar-82
48	Apr-82	PUBLIC SERVICE ELECTRIC & GAS	PEG	21	0.0839	0	0.0112	0.0727	Apr-82
48	May-82	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.75	-0.029	0.64	0.0101	-0.0391	May-82
48	Jun-82	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.75	0	0	0.0120	-0.0120	Jun-82
48	Jul-82	PUBLIC SERVICE ELECTRIC & GAS	PEG	19.875	0.0063	0	0.0114	-0.0051	Jul-82
48	Aug-82	PUBLIC SERVICE ELECTRIC & GAS	PEG	21.625	0.1203	0.64	0.0112	0.1091	Aug-82
48	Sep-82	PUBLIC SERVICE ELECTRIC & GAS	PEG	21.25	-0.0173	0	0.0100	-0.0273	Sep-82

48	Oct-82	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.5	0.0588	0	0.0091	0.0497	Oct-82
48	Nov-82	PUBLIC SERVICE ELECTRIC & GAS	PEG	21.75	-0.0333	0	0.0094	-0.0427	Nov-82
48	Dec-82	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.25	0.0984	0.64	0.0093	0.0891	Dec-82
48	Jan-83	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.5	0.0108	0	0.0087	0.0021	Jan-83
48	Feb-83	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.5	0.0272	0.64	0.0081	0.0191	Feb-83
48	Mar-83	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.375	-0.0479	0	0.0089	-0.0568	Mar-83
48	Apr-83	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.625	0.0559	0	0.0085	0.0474	Apr-83
48	May-83	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.375	0.0174	0.66	0.0091	0.0083	May-83
48	Jun-83	PUBLIC SERVICE ELECTRIC & GAS	PEG	22	-0.0588	0	0.0090	-0.0678	Jun-83
48	Jul-83	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.375	0.0625	0	0.0088	0.0537	Jul-83
48	Aug-83	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.625	-0.0039	0.66	0.0103	-0.0142	Aug-83
48	Sep-83	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.5	0.0387	0	0.0096	0.0291	Sep-83
48	Oct-83	PUBLIC SERVICE ELECTRIC & GAS	PEG	25.375	0.0798	0	0.0095	0.0703	Oct-83
48	Nov-83	PUBLIC SERVICE ELECTRIC & GAS	PEG	25.25	0.0211	0.66	0.0094	0.0117	Nov-83
48	Dec-83	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.75	-0.099	0	0.0094	-0.1084	Dec-83
48	Jan-84	PUBLIC SERVICE ELECTRIC & GAS	PEG	23.375	0.0275	0	0.0103	0.0172	Jan-84
48	Feb-84	PUBLIC SERVICE ELECTRIC & GAS	PEG	20.75	-0.0841	0.66	0.0092	-0.0933	Feb-84
48	Mar-84	PUBLIC SERVICE ELECTRIC & GAS	PEG	20.5	-0.012	0	0.0098	-0.0218	Mar-84
48	Apr-84	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.25	0.0854	0	0.0104	0.0750	Apr-84
48	May-84	PUBLIC SERVICE ELECTRIC & GAS	PEG	21.625	-0.0281	0	0.0103	-0.0384	May-84
48	Jun-84	PUBLIC SERVICE ELECTRIC & GAS	PEG	21.5	0.0257	0.68	0.0106	0.0151	Jun-84
48	Jul-84	PUBLIC SERVICE ELECTRIC & GAS	PEG	22.875	0.064	0	0.0116	0.0524	Jul-84
48	Aug-84	PUBLIC SERVICE ELECTRIC & GAS	PEG	24.25	0.0601	0	0.0106	0.0495	Aug-84
48	Sep-84	PUBLIC SERVICE ELECTRIC & GAS	PEG	25.125	0.0641	0.68	0.0094	0.0547	Sep-84
48	Oct-84	PUBLIC SERVICE ELECTRIC & GAS	PEG	25.375	0.01	0	0.0108	-0.0009	Oct-84
48	Nov-84	PUBLIC SERVICE ELECTRIC & GAS	PEG	26.25	0.0345	0	0.0091	0.0254	Nov-84
48	Dec-84	PUBLIC SERVICE ELECTRIC & GAS	PEG	26.75	0.045	0.68	0.0098	0.0352	Dec-84
48	Jan-85	PUBLIC SERVICE ELECTRIC & GAS	PEG	26.125	-0.0234	0	0.0096	-0.0330	Jan-85
48	Feb-85	PUBLIC SERVICE ELECTRIC & GAS	PEG	26.625	0.0191	0	0.0082	0.0109	Feb-85
48	Mar-85	PUBLIC SERVICE ELECTRIC & GAS	PEG	27.375	0.0537	0.68	0.0094	0.0443	Mar-85
48	Apr-85	PUBLIC SERVICE ELECTRIC & GAS	PEG	28.25	0.032	0	0.0102	0.0218	Apr-85
48	May-85	PUBLIC SERVICE ELECTRIC & GAS	PEG	31.25	0.1062	0	0.0097	0.0965	May-85
48	Jun-85	PUBLIC SERVICE ELECTRIC & GAS	PEG	30.5	-0.0013	0.71	0.0080	-0.0093	Jun-85
48	Jul-85	PUBLIC SERVICE ELECTRIC & GAS	PEG	29.25	-0.041	0	0.0094	-0.0504	Jul-85
48	Aug-85	PUBLIC SERVICE ELECTRIC & GAS	PEG	30.875	0.0556	0	0.0085	0.0471	Aug-85
48	Sep-85	PUBLIC SERVICE ELECTRIC & GAS	PEG	26.75	-0.1106	0.71	0.0088	-0.1194	Sep-85

48	Oct-85	PUBLIC SERVICE ELECTRIC & GAS	PEG	28.25	0.0803	0	0.0089	0.0714	Oct-85
48	Nov-85	PUBLIC SERVICE ELECTRIC & GAS	PEG	30.375	0.0752	0	0.0081	0.0671	Nov-85
48	Dec-85	PUBLIC SERVICE ELECTRIC & GAS	PEG	31.625	0.0645	0.71	0.0086	0.0559	Dec-85
48	Jan-86	PUBLIC SERVICE ELECTRIC & GAS	PEG	33.375	0.0553	0	0.0079	0.0474	Jan-86
48	Feb-86	PUBLIC SERVICE ELECTRIC & GAS	PEG	38	0.1386	0	0.0073	0.1313	Feb-86
48	Mar-86	PUBLIC SERVICE ELECTRIC & GAS	PEG	37.75	0.0121	0.71	0.0071	0.0050	Mar-86
48	Apr-86	PUBLIC SERVICE ELECTRIC & GAS	PEG	35	-0.0728	0	0.0063	-0.0791	Apr-86
48	May-86	PUBLIC SERVICE ENTERPRISE GP	PEG	37.25	0.0643	0	0.0062	0.0581	May-86
48	Jun-86	PUBLIC SERVICE ENTERPRISE GP	PEG	37.375	0.0232	0.74	0.0070	0.0162	Jun-86
48	Jul-86	PUBLIC SERVICE ENTERPRISE GP	PEG	42.75	0.1438	0	0.0066	0.1372	Jul-86
48	Aug-86	PUBLIC SERVICE ENTERPRISE GP	PEG	45.625	0.0673	0	0.0063	0.0610	Aug-86
48	Sep-86	PUBLIC SERVICE ENTERPRISE GP	PEG	40.375	-0.0988	0.74	0.0065	-0.1053	Sep-86
48	Oct-86	PUBLIC SERVICE ENTERPRISE GP	PEG	42.125	0.0433	0	0.0069	0.0364	Oct-86
48	Nov-86	PUBLIC SERVICE ENTERPRISE GP	PEG	42.25	0.003	0	0.0059	-0.0029	Nov-86
48	Dec-86	PUBLIC SERVICE ENTERPRISE GP	PEG	40.25	-0.0298	0.74	0.0070	-0.0368	Dec-86
48	Jan-87	PUBLIC SERVICE ENTERPRISE GP	PEG	42.875	0.0652	0	0.0064	0.0588	Jan-87
48	Feb-87	PUBLIC SERVICE ENTERPRISE GP	PEG	41.75	-0.0262	0	0.0059	-0.0321	Feb-87
48	Mar-87	PUBLIC SERVICE ENTERPRISE GP	PEG	39.25	-0.0422	0.74	0.0066	-0.0488	Mar-87
48	Apr-87	PUBLIC SERVICE ENTERPRISE GP	PEG	38.5	-0.0191	0	0.0065	-0.0256	Apr-87
48	May-87	PUBLIC SERVICE ENTERPRISE GP	PEG	38.625	0.0032	0	0.0066	-0.0034	May-87
48	Jun-87	PUBLIC SERVICE ENTERPRISE GP	PEG	38	0.0032	0.75	0.0075	-0.0043	Jun-87
48	Jul-87	PUBLIC SERVICE ENTERPRISE GP	PEG	24.375	-0.0378	0	0.0073	-0.0451	Jul-87
48	Aug-87	PUBLIC SERVICE ENTERPRISE GP	PEG	25.625	0.0513	0	0.0075	0.0438	Aug-87
48	Sep-87	PUBLIC SERVICE ENTERPRISE GP	PEG	24.75	-0.0146	0.5	0.0075	-0.0221	Sep-87
48	Oct-87	PUBLIC SERVICE ENTERPRISE GP	PEG	23.5	-0.0505	0	0.0079	-0.0584	Oct-87
48	Nov-87	PUBLIC SERVICE ENTERPRISE GP	PEG	23.375	-0.0053	0	0.0075	-0.0128	Nov-87
48	Dec-87	PUBLIC SERVICE ENTERPRISE GP	PEG	23.875	0.0428	0.5	0.0078	0.0350	Dec-87
48	Jan-88	PUBLIC SERVICE ENTERPRISE GP	PEG	26.875	0.1257	0	0.0072	0.1185	Jan-88
48	Feb-88	PUBLIC SERVICE ENTERPRISE GP	PEG	24.625	-0.0837	0	0.0071	-0.0908	Feb-88
48	Mar-88	PUBLIC SERVICE ENTERPRISE GP	PEG	23.25	-0.0355	0.5	0.0072	-0.0427	Mar-88
48	Apr-88	PUBLIC SERVICE ENTERPRISE GP	PEG	22.75	-0.0215	0	0.0070	-0.0285	Apr-88
48	May-88	PUBLIC SERVICE ENTERPRISE GP	PEG	23.875	0.0495	0	0.0078	0.0417	May-88
48	Jun-88	PUBLIC SERVICE ENTERPRISE GP	PEG	24.5	0.0471	0.5	0.0076	0.0395	Jun-88
48	Jul-88	PUBLIC SERVICE ENTERPRISE GP	PEG	23.625	-0.0357	0	0.0071	-0.0428	Jul-88
48	Aug-88	PUBLIC SERVICE ENTERPRISE GP	PEG	23.125	-0.0212	0	0.0083	-0.0295	Aug-88
48	Sep-88	PUBLIC SERVICE ENTERPRISE GP	PEG	24.375	0.0757	0.5	0.0076	0.0681	Sep-88

48	Oct-88	PUBLIC SERVICE ENTERPRISE GP	PEG	24.875	0.0205	0	0.0076	0.0129	Oct-88
48	Nov-88	PUBLIC SERVICE ENTERPRISE GP	PEG	25	0.005	0	0.0070	-0.0020	Nov-88
48	Dec-88	PUBLIC SERVICE ENTERPRISE GP	PEG	24.5	0.0004	0.51	0.0075	-0.0071	Dec-88
48	Jan-89	PUBLIC SERVICE ENTERPRISE GP	PEG	24.875	0.0153	0	0.0080	0.0073	Jan-89
48	Feb-89	PUBLIC SERVICE ENTERPRISE GP	PEG	23.875	-0.0402	0	0.0069	-0.0471	Feb-89
48	Mar-89	PUBLIC SERVICE ENTERPRISE GP	PEG	24.5	0.0475	0.51	0.0079	0.0396	Mar-89
48	Apr-89	PUBLIC SERVICE ENTERPRISE GP	PEG	24.5	0	0	0.0070	-0.0070	Apr-89
48	May-89	PUBLIC SERVICE ENTERPRISE GP	PEG	26	0.0612	0	0.0080	0.0532	May-89
48	Jun-89	PUBLIC SERVICE ENTERPRISE GP	PEG	26.875	0.0533	0.51	0.0070	0.0463	Jun-89
48	Jul-89	PUBLIC SERVICE ENTERPRISE GP	PEG	28.125	0.0465	0	0.0068	0.0397	Jul-89
48	Aug-89	PUBLIC SERVICE ENTERPRISE GP	PEG	27.125	-0.0356	0	0.0066	-0.0422	Aug-89
48	Sep-89	PUBLIC SERVICE ENTERPRISE GP	PEG	26.625	0.0004	0.51	0.0065	-0.0061	Sep-89
48	Oct-89	PUBLIC SERVICE ENTERPRISE GP	PEG	27.25	0.0235	0	0.0072	0.0163	Oct-89
48	Nov-89	PUBLIC SERVICE ENTERPRISE GP	PEG	28.125	0.0321	0	0.0064	0.0257	Nov-89
48	Dec-89	PUBLIC SERVICE ENTERPRISE GP	PEG	29.25	0.0585	0.52	0.0064	0.0521	Dec-89
48	Jan-90	PUBLIC SERVICE ENTERPRISE GP	PEG	27.25	-0.0684	0	0.0073	-0.0757	Jan-90
48	Feb-90	PUBLIC SERVICE ENTERPRISE GP	PEG	27.625	0.0138	0	0.0066	0.0072	Feb-90
48	Mar-90	PUBLIC SERVICE ENTERPRISE GP	PEG	26.5	-0.0219	0.52	0.0071	-0.0290	Mar-90
48	Apr-90	PUBLIC SERVICE ENTERPRISE GP	PEG	24.625	-0.0708	0	0.0075	-0.0783	Apr-90
48	May-90	PUBLIC SERVICE ENTERPRISE GP	PEG	26.75	0.0863	0	0.0075	0.0788	May-90
48	Jun-90	PUBLIC SERVICE ENTERPRISE GP	PEG	25.875	-0.0133	0.52	0.0068	-0.0201	Jun-90
48	Jul-90	PUBLIC SERVICE ENTERPRISE GP	PEG	25.5	-0.0145	0	0.0074	-0.0219	Jul-90
48	Aug-90	PUBLIC SERVICE ENTERPRISE GP	PEG	23.75	-0.0686	0	0.0071	-0.0757	Aug-90
48	Sep-90	PUBLIC SERVICE ENTERPRISE GP	PEG	23.25	0.0008	0.52	0.0069	-0.0061	Sep-90
48	Oct-90	PUBLIC SERVICE ENTERPRISE GP	PEG	26.375	0.1344	0	0.0081	0.1263	Oct-90
48	Nov-90	PUBLIC SERVICE ENTERPRISE GP	PEG	26.5	0.0047	0	0.0071	-0.0024	Nov-90
48	Dec-90	PUBLIC SERVICE ENTERPRISE GP	PEG	26.375	0.0153	0.53	0.0072	0.0081	Dec-90
48	Jan-91	PUBLIC SERVICE ENTERPRISE GP	PEG	26	-0.0142	0	0.0071	-0.0213	Jan-91
48	Feb-91	PUBLIC SERVICE ENTERPRISE GP	PEG	27.625	0.0625	0	0.0064	0.0561	Feb-91
48	Mar-91	PUBLIC SERVICE ENTERPRISE GP	PEG	27.25	0.0056	0.53	0.0064	-0.0008	Mar-91
48	Apr-91	PUBLIC SERVICE ENTERPRISE GP	PEG	27.125	-0.0046	0	0.0076	-0.0122	Apr-91
48	May-91	PUBLIC SERVICE ENTERPRISE GP	PEG	27.125	0	0	0.0068	-0.0068	May-91
48	Jun-91	PUBLIC SERVICE ENTERPRISE GP	PEG	25.875	-0.0265	0.53	0.0063	-0.0328	Jun-91
48	Jul-91	PUBLIC SERVICE ENTERPRISE GP	PEG	27.25	0.0531	0	0.0076	0.0455	Jul-91
48	Aug-91	PUBLIC SERVICE ENTERPRISE GP	PEG	28.375	0.0413	0	0.0068	0.0345	Aug-91
48	Sep-91	PUBLIC SERVICE ENTERPRISE GP	PEG	28.375	0.0187	0.53	0.0068	0.0119	Sep-91

48	Oct-91	PUBLIC SERVICE ENTERPRISE GP	PEG	28.375	0	0	0.0065	-0.0065	Oct-91
48	Nov-91	PUBLIC SERVICE ENTERPRISE GP	PEG	28.25	-0.0044	0	0.0060	-0.0104	Nov-91
48	Dec-91	PUBLIC SERVICE ENTERPRISE GP	PEG	29.375	0.0589	0.54	0.0068	0.0521	Dec-91
48	Jan-92	PUBLIC SERVICE ENTERPRISE GP	PEG	27.375	-0.0681	0	0.0061	-0.0742	Jan-92
48	Feb-92	PUBLIC SERVICE ENTERPRISE GP	PEG	28	0.0228	0	0.0059	0.0169	Feb-92
48	Mar-92	PUBLIC SERVICE ENTERPRISE GP	PEG	27	-0.0164	0.54	0.0067	-0.0231	Mar-92
48	Apr-92	PUBLIC SERVICE ENTERPRISE GP	PEG	26.125	-0.0324	0	0.0065	-0.0389	Apr-92
48	May-92	PUBLIC SERVICE ENTERPRISE GP	PEG	27.875	0.067	0	0.0061	0.0609	May-92
48	Jun-92	PUBLIC SERVICE ENTERPRISE GP	PEG	27.625	0.0104	0.54	0.0067	0.0037	Jun-92
48	Jul-92	PUBLIC SERVICE ENTERPRISE GP	PEG	28.25	0.0226	0	0.0063	0.0163	Jul-92
48	Aug-92	PUBLIC SERVICE ENTERPRISE GP	PEG	27.75	-0.0177	0	0.0060	-0.0237	Aug-92
48	Sep-92	PUBLIC SERVICE ENTERPRISE GP	PEG	28	0.0285	0.54	0.0058	0.0227	Sep-92
48	Oct-92	PUBLIC SERVICE ENTERPRISE GP	PEG	28.375	0.0134	0	0.0057	0.0077	Oct-92
48	Nov-92	PUBLIC SERVICE ENTERPRISE GP	PEG	29.375	0.0352	0	0.0061	0.0291	Nov-92
48	Dec-92	PUBLIC SERVICE ENTERPRISE GP	PEG	30.875	0.0694	0.54	0.0063	0.0631	Dec-92
48	Jan-93	PUBLIC SERVICE ENTERPRISE GP	PEG	31.75	0.0283	0	0.0059	0.0224	Jan-93
48	Feb-93	PUBLIC SERVICE ENTERPRISE GP	PEG	33.375	0.0512	0	0.0055	0.0457	Feb-93
48	Mar-93	PUBLIC SERVICE ENTERPRISE GP	PEG	33.5	0.0199	0.54	0.0063	0.0136	Mar-93
48	Apr-93	PUBLIC SERVICE ENTERPRISE GP	PEG	34.125	0.0187	0	0.0057	0.0130	Apr-93
48	May-93	PUBLIC SERVICE ENTERPRISE GP	PEG	33.625	-0.0147	0	0.0052	-0.0199	May-93
48	Jun-93	PUBLIC SERVICE ENTERPRISE GP	PEG	34.25	0.0346	0.54	0.0062	0.0284	Jun-93
48	Jul-93	PUBLIC SERVICE ENTERPRISE GP	PEG	35.125	0.0255	0	0.0054	0.0201	Jul-93
48	Aug-93	PUBLIC SERVICE ENTERPRISE GP	PEG	36	0.0249	0	0.0056	0.0193	Aug-93
48	Sep-93	PUBLIC SERVICE ENTERPRISE GP	PEG	35.125	-0.0093	0.54	0.0050	-0.0143	Sep-93
48	Oct-93	PUBLIC SERVICE ENTERPRISE GP	PEG	33.625	-0.0427	0	0.0049	-0.0476	Oct-93
48	Nov-93	PUBLIC SERVICE ENTERPRISE GP	PEG	32.375	-0.0372	0	0.0053	-0.0425	Nov-93
48	Dec-93	PUBLIC SERVICE ENTERPRISE GP	PEG	32	0.0051	0.54	0.0055	-0.0004	Dec-93
48	Jan-94	PUBLIC SERVICE ENTERPRISE GP	PEG	31.625	-0.0117	0	0.0055	-0.0172	Jan-94
48	Feb-94	PUBLIC SERVICE ENTERPRISE GP	PEG	30.375	-0.0395	0	0.0049	-0.0444	Feb-94
48	Mar-94	PUBLIC SERVICE ENTERPRISE GP	PEG	27.875	-0.0645	0.54	0.0058	-0.0703	Mar-94
48	Apr-94	PUBLIC SERVICE ENTERPRISE GP	PEG	28.625	0.0269	0	0.0057	0.0212	Apr-94
48	May-94	PUBLIC SERVICE ENTERPRISE GP	PEG	27.75	-0.0306	0	0.0063	-0.0369	May-94
48	Jun-94	PUBLIC SERVICE ENTERPRISE GP	PEG	26	-0.0436	0.54	0.0061	-0.0497	Jun-94
48	Jul-94	PUBLIC SERVICE ENTERPRISE GP	PEG	27.75	0.0673	0	0.0060	0.0613	Jul-94
48	Aug-94	PUBLIC SERVICE ENTERPRISE GP	PEG	27.75	0	0	0.0066	-0.0066	Aug-94
48	Sep-94	PUBLIC SERVICE ENTERPRISE GP	PEG	26.25	-0.0346	0.54	0.0061	-0.0407	Sep-94

48	Oct-94	PUBLIC SERVICE ENTERPRISE GP	PEG	26.25	0	0	0.0066	-0.0066	Oct-94
48	Nov-94	PUBLIC SERVICE ENTERPRISE GP	PEG	26.625	0.0143	0	0.0064	0.0079	Nov-94
48	Dec-94	PUBLIC SERVICE ENTERPRISE GP	PEG	26.5	0.0156	0.54	0.0066	0.0090	Dec-94
48	Jan-95	PUBLIC SERVICE ENTERPRISE GP	PEG	28.75	0.0849	0	0.0070	0.0779	Jan-95
48	Feb-95	PUBLIC SERVICE ENTERPRISE GP	PEG	29.125	0.013	0	0.0059	0.0071	Feb-95
48	Mar-95	PUBLIC SERVICE ENTERPRISE GP	PEG	27.375	-0.0415	0.54	0.0064	-0.0479	Mar-95
48	Apr-95	PUBLIC SERVICE ENTERPRISE GP	PEG	27.5	0.0046	0	0.0058	-0.0012	Apr-95
48	May-95	PUBLIC SERVICE ENTERPRISE GP	PEG	29.75	0.0818	0	0.0065	0.0753	May-95
48	Jun-95	PUBLIC SERVICE ENTERPRISE GP	PEG	27.75	-0.0491	0.54	0.0054	-0.0545	Jun-95
48	Jul-95	PUBLIC SERVICE ENTERPRISE GP	PEG	27.75	0	0	0.0056	-0.0056	Jul-95
48	Aug-95	PUBLIC SERVICE ENTERPRISE GP	PEG	27.5	-0.009	0	0.0057	-0.0147	Aug-95
48	Sep-95	PUBLIC SERVICE ENTERPRISE GP	PEG	29.75	0.1015	0.54	0.0052	0.0963	Sep-95
48	Oct-95	PUBLIC SERVICE ENTERPRISE GP	PEG	29.375	-0.0126	0	0.0057	-0.0183	Oct-95
48	Nov-95	PUBLIC SERVICE ENTERPRISE GP	PEG	29.625	0.0085	0	0.0051	0.0034	Nov-95
48	Dec-95	PUBLIC SERVICE ENTERPRISE GP	PEG	30.625	0.052	0.54	0.0049	0.0471	Dec-95
48	Jan-96	PUBLIC SERVICE ENTERPRISE GP	PEG	31.25	0.0204	0	0.0054	0.0150	Jan-96
48	Feb-96	PUBLIC SERVICE ENTERPRISE GP	PEG	28.125	-0.1	0	0.0048	-0.1048	Feb-96
48	Mar-96	PUBLIC SERVICE ENTERPRISE GP	PEG	27.375	-0.0075	0.54	0.0052	-0.0127	Mar-96
48	Apr-96	PUBLIC SERVICE ENTERPRISE GP	PEG	26.125	-0.0457	0	0.0059	-0.0516	Apr-96
48	May-96	PUBLIC SERVICE ENTERPRISE GP	PEG	26.5	0.0144	0	0.0058	0.0086	May-96
48	Jun-96	PUBLIC SERVICE ENTERPRISE GP	PEG	27.5	0.0581	0.54	0.0054	0.0527	Jun-96
48	Jul-96	PUBLIC SERVICE ENTERPRISE GP	PEG	26	-0.0545	0	0.0062	-0.0607	Jul-96
48	Aug-96	PUBLIC SERVICE ENTERPRISE GP	PEG	27.125	0.0433	0	0.0057	0.0376	Aug-96
48	Sep-96	PUBLIC SERVICE ENTERPRISE GP	PEG	26.75	0.0061	0.54	0.0060	0.0001	Sep-96
48	Oct-96	PUBLIC SERVICE ENTERPRISE GP	PEG	26.875	0.0047	0	0.0058	-0.0011	Oct-96
48	Nov-96	PUBLIC SERVICE ENTERPRISE GP	PEG	28.625	0.0651	0	0.0052	0.0599	Nov-96
48	Dec-96	PUBLIC SERVICE ENTERPRISE GP	PEG	27.25	-0.0292	0.54	0.0056	-0.0348	Dec-96
48	Jan-97	PUBLIC SERVICE ENTERPRISE GP	PEG	27.375	0.0046	0	0.0056	-0.0010	Jan-97
48	Feb-97	PUBLIC SERVICE ENTERPRISE GP	PEG	28.25	0.032	0	0.0051	0.0269	Feb-97
48	Mar-97	PUBLIC SERVICE ENTERPRISE GP	PEG	26.25	-0.0517	0.54	0.0059	-0.0576	Mar-97
48	Apr-97	PUBLIC SERVICE ENTERPRISE GP	PEG	24.125	-0.081	0	0.0059	-0.0869	Apr-97
48	May-97	PUBLIC SERVICE ENTERPRISE GP	PEG	24.75	0.0259	0	0.0058	0.0201	May-97
48	Jun-97	PUBLIC SERVICE ENTERPRISE GP	PEG	25	0.0319	0.54	0.0059	0.0260	Jun-97
48	Jul-97	PUBLIC SERVICE ENTERPRISE GP	PEG	24.75	-0.01	0	0.0058	-0.0158	Jul-97
48	Aug-97	PUBLIC SERVICE ENTERPRISE GP	PEG	24.813	0.0025	0	0.0049	-0.0024	Aug-97
48	Sep-97	PUBLIC SERVICE ENTERPRISE GP	PEG	25.75	0.0595	0.54	0.0058	0.0537	Sep-97

48	Oct-97	PUBLIC SERVICE ENTERPRISE GP	PEG	25.938	0.0073	0	0.0054	0.0019	Oct-97
48	Nov-97	PUBLIC SERVICE ENTERPRISE GP	PEG	29.188	0.1253	0	0.0047	0.1206	Nov-97
48	Dec-97	PUBLIC SERVICE ENTERPRISE GP	PEG	31.813	0.1084	0.54	0.0054	0.1030	Dec-97
48	Jan-98	PUBLIC SERVICE ENTERPRISE GP	PEG	31	-0.0255	0	0.0048	-0.0303	Jan-98
48	Feb-98	PUBLIC SERVICE ENTERPRISE GP	PEG	32.25	0.0403	0	0.0044	0.0359	Feb-98
48	Mar-98	PUBLIC SERVICE ENTERPRISE GP	PEG	37.75	0.1873	0.54	0.0052	0.1821	Mar-98
48	Apr-98	PUBLIC SERVICE ENTERPRISE GP	PEG	33.563	-0.1109	0	0.0049	-0.1158	Apr-98
48	May-98	PUBLIC SERVICE ENTERPRISE GP	PEG	33.125	-0.013	0	0.0048	-0.0178	May-98
48	Jun-98	PUBLIC SERVICE ENTERPRISE GP	PEG	34.438	0.0559	0.54	0.0052	0.0507	Jun-98
48	Jul-98	PUBLIC SERVICE ENTERPRISE GP	PEG	32.688	-0.0508	0	0.0049	-0.0557	Jul-98
48	Aug-98	PUBLIC SERVICE ENTERPRISE GP	PEG	36.5	0.1166	0	0.0048	0.1118	Aug-98
48	Sep-98	PUBLIC SERVICE ENTERPRISE GP	PEG	39.313	0.0918	0.54	0.0044	0.0874	Sep-98
48	Oct-98	PUBLIC SERVICE ENTERPRISE GP	PEG	38	-0.0334	0	0.0042	-0.0376	Oct-98
48	Nov-98	PUBLIC SERVICE ENTERPRISE GP	PEG	39	0.0263	0	0.0045	0.0218	Nov-98
48	Dec-98	PUBLIC SERVICE ENTERPRISE GP	PEG	40	0.0395	0.54	0.0045	0.0350	Dec-98
48	Jan-99	PUBLIC SERVICE ENTERPRISE GP	PEG	39.563	-0.0109	0	0.0042	-0.0151	Jan-99
48	Feb-99	PUBLIC SERVICE ENTERPRISE GP	PEG	38	-0.0395	0	0.0040	-0.0435	Feb-99
48	Mar-99	PUBLIC SERVICE ENTERPRISE GP	PEG	38.188	0.0191	0.54	0.0053	0.0138	Mar-99
48	Apr-99	PUBLIC SERVICE ENTERPRISE GP	PEG	40	0.0475	0	0.0048	0.0427	Apr-99
48	May-99	PUBLIC SERVICE ENTERPRISE GP	PEG	41.938	0.0484	0	0.0045	0.0439	May-99
48	Jun-99	PUBLIC SERVICE ENTERPRISE GP	PEG	40.813	-0.0139	0.54	0.0055	-0.0194	Jun-99
48	Jul-99	PUBLIC SERVICE ENTERPRISE GP	PEG	40.313	-0.0123	0	0.0051	-0.0174	Jul-99
48	Aug-99	PUBLIC SERVICE ENTERPRISE GP	PEG	41	0.0171	0	0.0054	0.0117	Aug-99
48	Sep-99	PUBLIC SERVICE ENTERPRISE GP	PEG	38.625	-0.0448	0.54	0.0052	-0.0500	Sep-99
48	Oct-99	PUBLIC SERVICE ENTERPRISE GP	PEG	39.563	0.0243	0	0.0050	0.0193	Oct-99
48	Nov-99	PUBLIC SERVICE ENTERPRISE GP	PEG	35	-0.1153	0	0.0056	-0.1209	Nov-99
48	Dec-99	PUBLIC SERVICE ENTERPRISE GP	PEG	34.813	0.0101	0.54	0.0055	0.0046	Dec-99
48	Jan-00	PUBLIC SERVICE ENTERPRISE GP	PEG	34.375	-0.0126	0	0.0057	-0.0183	Jan-00
48	Feb-00	PUBLIC SERVICE ENTERPRISE GP	PEG	29	-0.1564	0	0.0051	-0.1615	Feb-00
48	Mar-00	PUBLIC SERVICE ENTERPRISE GP	PEG	29.625	0.0402	0.54	0.0054	0.0348	Mar-00
48	Apr-00	PUBLIC SERVICE ENTERPRISE GP	PEG	35.875	0.211	0	0.0047	0.2063	Apr-00
48	May-00	PUBLIC SERVICE ENTERPRISE GP	PEG	37.25	0.0383	0	0.0056	0.0327	May-00
48	Jun-00	PUBLIC SERVICE ENTERPRISE GP	PEG	34.625	-0.056	0.54	0.0052	-0.0612	Jun-00
48	Jul-00	PUBLIC SERVICE ENTERPRISE GP	PEG	33.625	-0.0289	0	0.0052	-0.0341	Jul-00
48	Aug-00	PUBLIC SERVICE ENTERPRISE GP	PEG	36.25	0.0781	0	0.0050	0.0731	Aug-00
48	Sep-00	PUBLIC SERVICE ENTERPRISE GP	PEG	44.688	0.2477	0.54	0.0046	0.2431	Sep-00

48	Oct-00	PUBLIC SERVICE ENTERPRISE GP	PEG	41.5	-0.0713	0	0.0053	-0.0766	Oct-00
48	Nov-00	PUBLIC SERVICE ENTERPRISE GP	PEG	42.75	0.0301	0	0.0048	0.0253	Nov-00
48	Dec-00	PUBLIC SERVICE ENTERPRISE GP	PEG	48.625	0.1501	0.54	0.0045	0.1456	Dec-00
48	Jan-01	PUBLIC SERVICE ENTERPRISE GP	PEG	40.91	-0.1587	0	0.0049	-0.1636	Jan-01
48	Feb-01	PUBLIC SERVICE ENTERPRISE GP	PEG	44.81	0.0953	0	0.0042	0.0911	Feb-01
48	Mar-01	PUBLIC SERVICE ENTERPRISE GP	PEG	43.16	-0.0248	0.54	0.0045	-0.0293	Mar-01
48	Apr-01	PUBLIC SERVICE ENTERPRISE GP	PEG	46.44	0.076	0	0.0047	0.0713	Apr-01
48	May-01	PUBLIC SERVICE ENTERPRISE GP	PEG	51.41	0.107	0	0.0050	0.1020	May-01
48	Jun-01	PUBLIC SERVICE ENTERPRISE GP	PEG	48.9	-0.0383	0.54	0.0047	-0.0430	Jun-01
48	Jul-01	PUBLIC SERVICE ENTERPRISE GP	PEG	46.8	-0.0429	0	0.0052	-0.0481	Jul-01
48	Aug-01	PUBLIC SERVICE ENTERPRISE GP	PEG	46.3	-0.0107	0	0.0046	-0.0153	Aug-01
48	Sep-01	PUBLIC SERVICE ENTERPRISE GP	PEG	42.55	-0.0693	0.54	0.0041	-0.0734	Sep-01
48	Oct-01	PUBLIC SERVICE ENTERPRISE GP	PEG	39.36	-0.075	0	0.0048	-0.0798	Oct-01
48	Nov-01	PUBLIC SERVICE ENTERPRISE GP	PEG	40.55	0.0302	0	0.0041	0.0261	Nov-01
48	Dec-01	PUBLIC SERVICE ENTERPRISE GP	PEG	42.19	0.0538	0.54	0.0046	0.0492	Dec-01
48	Jan-02	PUBLIC SERVICE ENTERPRISE GP	PEG	42.08	-0.0026	0	0.0048	-0.0074	Jan-02
48	Feb-02	PUBLIC SERVICE ENTERPRISE GP	PEG	42.17	0.0021	0	0.0043	-0.0022	Feb-02
48	Mar-02	PUBLIC SERVICE ENTERPRISE GP	PEG	45.8	0.0989	0.54	0.0043	0.0946	Mar-02
48	Apr-02	PUBLIC SERVICE ENTERPRISE GP	PEG	46.35	0.012	0	0.0054	0.0066	Apr-02
48	May-02	PUBLIC SERVICE ENTERPRISE GP	PEG	45.28	-0.0231	0	0.0049	-0.0280	May-02
48	Jun-02	PUBLIC SERVICE ENTERPRISE GP	PEG	43.3	-0.0318	0.54	0.0044	-0.0362	Jun-02
48	Jul-02	PUBLIC SERVICE ENTERPRISE GP	PEG	34.55	-0.2021	0	0.0051	-0.2072	Jul-02
48	Aug-02	PUBLIC SERVICE ENTERPRISE GP	PEG	35.2	0.0188	0	0.0044	0.0144	Aug-02
48	Sep-02	PUBLIC SERVICE ENTERPRISE GP	PEG	30.5	-0.1182	0.54	0.0042	-0.1224	Sep-02
48	Oct-02	PUBLIC SERVICE ENTERPRISE GP	PEG	28.65	-0.0607	0	0.0040	-0.0647	Oct-02
48	Nov-02	PUBLIC SERVICE ENTERPRISE GP	PEG	29.94	0.045	0	0.0040	0.0410	Nov-02
48	Dec-02	PUBLIC SERVICE ENTERPRISE GP	PEG	32.1	0.0902	0.54	0.0045	0.0857	Dec-02
48	Jan-03	PUBLIC SERVICE ENTERPRISE GP	PEG	35.28	0.0991	0	0.0041	0.0950	Jan-03
48	Feb-03	PUBLIC SERVICE ENTERPRISE GP	PEG	34.63	-0.0184	0	0.0038	-0.0222	Feb-03
48	Mar-03	PUBLIC SERVICE ENTERPRISE GP	PEG	36.69	0.0751	0.54	0.0040	0.0711	Mar-03
48	Apr-03	PUBLIC SERVICE ENTERPRISE GP	PEG	38.47	0.0485	0	0.0040	0.0445	Apr-03
48	May-03	PUBLIC SERVICE ENTERPRISE GP	PEG	42.73	0.1107	0	0.0039	0.1068	May-03
48	Jun-03	PUBLIC SERVICE ENTERPRISE GP	PEG	42.25	0.0014	0.54	0.0036	-0.0022	Jun-03
48	Jul-03	PUBLIC SERVICE ENTERPRISE GP	PEG	40.75	-0.0355	0	0.0038	-0.0393	Jul-03
48	Aug-03	PUBLIC SERVICE ENTERPRISE GP	PEG	42.34	0.039	0	0.0042	0.0348	Aug-03
48	Sep-03	PUBLIC SERVICE ENTERPRISE GP	PEG	42	0.0047	0.54	0.0046	0.0001	Sep-03

48	Oct-03	PUBLIC SERVICE ENTERPRISE GP	PEG	40.87	-0.0269	0	0.0041	-0.0310	Oct-03
48	Nov-03	PUBLIC SERVICE ENTERPRISE GP	PEG	41.02	0.0037	0	0.0039	-0.0002	Nov-03
48	Dec-03	PUBLIC SERVICE ENTERPRISE GP	PEG	43.8	0.0809	0.54	0.0047	0.0762	Dec-03
48	Jan-04	PUBLIC SERVICE ENTERPRISE GP	PEG	45.44	0.0374	0	0.0042	0.0332	Jan-04
48	Feb-04	PUBLIC SERVICE ENTERPRISE GP	PEG	47.14	0.0374	0	0.0038	0.0336	Feb-04
48	Mar-04	PUBLIC SERVICE ENTERPRISE GP	PEG	46.98	0.0083	0.55	0.0043	0.0040	Mar-04
48	Apr-04	PUBLIC SERVICE ENTERPRISE GP	PEG	42.9	-0.0868	0	0.0039	-0.0907	Apr-04
48	May-04	PUBLIC SERVICE ENTERPRISE GP	PEG	42.16	-0.0172	0	0.0040	-0.0212	May-04
48	Jun-04	PUBLIC SERVICE ENTERPRISE GP	PEG	40.03	-0.0375	0.55	0.0048	-0.0423	Jun-04
48	Jul-04	PUBLIC SERVICE ENTERPRISE GP	PEG	39	-0.0257	0	0.0043	-0.0300	Jul-04
48	Aug-04	PUBLIC SERVICE ENTERPRISE GP	PEG	42.34	0.0856	0	0.0045	0.0811	Aug-04
48	Sep-04	PUBLIC SERVICE ENTERPRISE GP	PEG	42.6	0.0191	0.55	0.0040	0.0151	Sep-04
48	Oct-04	PUBLIC SERVICE ENTERPRISE GP	PEG	42.59	-0.0002	0	0.0038	-0.0040	Oct-04
48	Nov-04	PUBLIC SERVICE ENTERPRISE GP	PEG	43.99	0.0329	0	0.0041	0.0288	Nov-04
48	Dec-04	PUBLIC SERVICE ENTERPRISE GP	PEG	51.77	0.1894	0.55	0.0043	0.1851	Dec-04
48	Jan-05	PUBLIC SERVICE ENTERPRISE GP	PEG	52.75	0.0189	0	0.0041	0.0148	Jan-05
48	Feb-05	PUBLIC SERVICE ENTERPRISE GP	PEG	54.55	0.0341	0	0.0035	0.0306	Feb-05
48	Mar-05	PUBLIC SERVICE ENTERPRISE GP	PEG	54.39	0.0073	0.56	0.0041	0.0032	Mar-05
48	Apr-05	PUBLIC SERVICE ENTERPRISE GP	PEG	58.1	0.0682	0	0.0039	0.0643	Apr-05
48	May-05	PUBLIC SERVICE ENTERPRISE GP	PEG	55.5	-0.0448	0	0.0040	-0.0488	May-05
48	Jun-05	PUBLIC SERVICE ENTERPRISE GP	PEG	60.82	0.1059	0.56	0.0036	0.1023	Jun-05
48	Jul-05	PUBLIC SERVICE ENTERPRISE GP	PEG	64.3	0.0572	0	0.0034	0.0538	Jul-05
48	Aug-05	PUBLIC SERVICE ENTERPRISE GP	PEG	64.55	0.0039	0	0.0040	-0.0001	Aug-05
48	Sep-05	PUBLIC SERVICE ENTERPRISE GP	PEG	64.36	0.0057	0.56	0.0035	0.0022	Sep-05
48	Oct-05	PUBLIC SERVICE ENTERPRISE GP	PEG	62.89	-0.0228	0	0.0039	-0.0267	Oct-05
48	Nov-05	PUBLIC SERVICE ENTERPRISE GP	PEG	62.72	-0.0027	0	0.0039	-0.0066	Nov-05
48	Dec-05	PUBLIC SERVICE ENTERPRISE GP	PEG	64.97	0.0448	0.56	0.0039	0.0409	Dec-05
48	Jan-06	PUBLIC SERVICE ENTERPRISE GP	PEG	69.62	0.0716	0	0.0040	0.0676	Jan-06
48	Feb-06	PUBLIC SERVICE ENTERPRISE GP	PEG	69.39	-0.0033	0	0.0036	-0.0069	Feb-06
48	Mar-06	PUBLIC SERVICE ENTERPRISE GP	PEG	64.04	-0.0689	0.57	0.0039	-0.0728	Mar-06
48	Apr-06	PUBLIC SERVICE ENTERPRISE GP	PEG	62.7	-0.0209	0	0.0039	-0.0248	Apr-06
48	May-06	PUBLIC SERVICE ENTERPRISE GP	PEG	63.73	0.0164	0	0.0048	0.0116	May-06
48	Jun-06	PUBLIC SERVICE ENTERPRISE GP	PEG	66.12	0.0464	0.57	0.0044	0.0420	Jun-06
48	Jul-06	PUBLIC SERVICE ENTERPRISE GP	PEG	67.43	0.0198	0	0.0045	0.0153	Jul-06
48	Aug-06	PUBLIC SERVICE ENTERPRISE GP	PEG	70.02	0.0384	0	0.0043	0.0341	Aug-06
48	Sep-06	PUBLIC SERVICE ENTERPRISE GP	PEG	61.19	-0.118	0.57	0.0039	-0.1219	Sep-06

48	Oct-06	PUBLIC SERVICE ENTERPRISE GP	PEG	61.05	-0.0023	0	0.0042	-0.0065	Oct-06
48	Nov-06	PUBLIC SERVICE ENTERPRISE GP	PEG	67.22	0.1011	0	0.0039	0.0972	Nov-06
48	Dec-06	PUBLIC SERVICE ENTERPRISE GP	PEG	66.38	-0.004	0.57	0.0036	-0.0076	Dec-06
48	Jan-07	PUBLIC SERVICE ENTERPRISE GP	PEG	67.03	0.0098	0	0.0043	0.0055	Jan-07
48	Feb-07	PUBLIC SERVICE ENTERPRISE GP	PEG	74.9	0.1174	0	0.0038	0.1136	Feb-07
48	Mar-07	PUBLIC SERVICE ENTERPRISE GP	PEG	83.04	0.1165	0.585	0.0039	0.1126	Mar-07
48	Apr-07	PUBLIC SERVICE ENTERPRISE GP	PEG	86.45	0.0411	0	0.0042	0.0369	Apr-07
48	May-07	PUBLIC SERVICE ENTERPRISE GP	PEG	88.94	0.0288	0	0.0041	0.0247	May-07
48	Jun-07	PUBLIC SERVICE ENTERPRISE GP	PEG	87.78	-0.0065	0.585	0.0040	-0.0105	Jun-07
48	Jul-07	PUBLIC SERVICE ENTERPRISE GP	PEG	86.15	-0.0186	0	0.0046	-0.0232	Jul-07
48	Aug-07	PUBLIC SERVICE ENTERPRISE GP	PEG	84.99	-0.0135	0	0.0042	-0.0177	Aug-07
48	Sep-07	PUBLIC SERVICE ENTERPRISE GP	PEG	87.99	0.0422	0.585	0.0037	0.0385	Sep-07
48	Oct-07	PUBLIC SERVICE ENTERPRISE GP	PEG	95.6	0.0865	0	0.0043	0.0822	Oct-07
48	Nov-07	PUBLIC SERVICE ENTERPRISE GP	PEG	95.74	0.0015	0	0.0039	-0.0024	Nov-07
48	Dec-07	PUBLIC SERVICE ENTERPRISE GP	PEG	98.24	0.0322	0.585	0.0037	0.0285	Dec-07
48	Jan-08	PUBLIC SERVICE ENTERPRISE GP	PEG	96	-0.0228	0	0.0040	-0.0268	Jan-08
48	Feb-08	PUBLIC SERVICE ENTERPRISE GP	PEG	44.1	-0.0813	0	0.0034	-0.0847	Feb-08
48	Mar-08	PUBLIC SERVICE ENTERPRISE GP	PEG	40.19	-0.0813	0.3225	0.0037	-0.0850	Mar-08
48	Apr-08	PUBLIC SERVICE ENTERPRISE GP	PEG	43.91	0.0926	0	0.0035	0.0891	Apr-08
48	May-08	PUBLIC SERVICE ENTERPRISE GP	PEG	44.26	0.008	0	0.0037	0.0043	May-08
48	Jun-08	PUBLIC SERVICE ENTERPRISE GP	PEG	45.93	0.045	0.3225	0.0040	0.0410	Jun-08
48	Jul-08	PUBLIC SERVICE ENTERPRISE GP	PEG	41.8	-0.0899	0	0.0039	-0.0938	Jul-08
48	Aug-08	PUBLIC SERVICE ENTERPRISE GP	PEG	40.77	-0.0246	0	0.0036	-0.0282	Aug-08
48	Sep-08	PUBLIC SERVICE ENTERPRISE GP	PEG	32.79	-0.1878	0.3225	0.0039	-0.1917	Sep-08
48	Oct-08	PUBLIC SERVICE ENTERPRISE GP	PEG	28.15	-0.1415	0	0.0037	-0.1452	Oct-08
48	Nov-08	PUBLIC SERVICE ENTERPRISE GP	PEG	30.9	0.0977	0	0.0036	0.0941	Nov-08
48	Dec-08	PUBLIC SERVICE ENTERPRISE GP	PEG	29.17	-0.0456	0.3225	0.0033	-0.0489	Dec-08
48	Jan-09	PUBLIC SERVICE ENTERPRISE GP	PEG	31.57	0.0823	0	0.0024	0.0799	Jan-09
48	Feb-09	PUBLIC SERVICE ENTERPRISE GP	PEG	27.29	-0.1356	0	0.0030	-0.1386	Feb-09
48	Mar-09	PUBLIC SERVICE ENTERPRISE GP	PEG	29.47	0.0921	0.3325	0.0035	0.0886	Mar-09
48	Apr-09	PUBLIC SERVICE ENTERPRISE GP	PEG	29.84	0.0126	0	0.0029	0.0097	Apr-09
48	May-09	PUBLIC SERVICE ENTERPRISE GP	PEG	31.87	0.068	0	0.0033	0.0647	May-09
48	Jun-09	PUBLIC SERVICE ENTERPRISE GP	PEG	32.63	0.0343	0.3325	0.0038	0.0305	Jun-09
48	Jul-09	PUBLIC SERVICE ENTERPRISE GP	PEG	32.45	-0.0055	0	0.0036	-0.0091	Jul-09
48	Aug-09	PUBLIC SERVICE ENTERPRISE GP	PEG	31.67	-0.024	0	0.0036	-0.0276	Aug-09
48	Sep-09	PUBLIC SERVICE ENTERPRISE GP	PEG	31.44	0.0032	0.3325	0.0034	-0.0002	Sep-09

48	Oct-09	PUBLIC SERVICE ENTERPRISE GP	PEG	29.8	-0.0522	0	0.0033	-0.0555	Oct-09
48	Nov-09	PUBLIC SERVICE ENTERPRISE GP	PEG	31.36	0.0523	0	0.0035	0.0488	Nov-09
48	Dec-09	PUBLIC SERVICE ENTERPRISE GP	PEG	33.25	0.0709	0.3325	0.0034	0.0675	Dec-09
48	Jan-10	PUBLIC SERVICE ENTERPRISE GP	PEG	30.59	-0.08	0	0.0036	-0.0836	Jan-10
48	Feb-10	PUBLIC SERVICE ENTERPRISE GP	PEG	29.72	-0.0284	0	0.0033	-0.0317	Feb-10
48	Mar-10	PUBLIC SERVICE ENTERPRISE GP	PEG	29.52	0.0048	0.3425	0.0040	0.0008	Mar-10
48	Apr-10	PUBLIC SERVICE ENTERPRISE GP	PEG	32.13	0.0884	0	0.0038	0.0846	Apr-10
48	May-10	PUBLIC SERVICE ENTERPRISE GP	PEG	30.63	-0.0467	0	0.0034	-0.0501	May-10
48	Jun-10	PUBLIC SERVICE ENTERPRISE GP	PEG	31.33	0.034	0.3425	0.0037	0.0303	Jun-10
48	Jul-10	PUBLIC SERVICE ENTERPRISE GP	PEG	32.9	0.0501	0	0.0031	0.0470	Jul-10
48	Aug-10	PUBLIC SERVICE ENTERPRISE GP	PEG	31.96	-0.0286	0	0.0032	-0.0318	Aug-10
48	Sep-10	PUBLIC SERVICE ENTERPRISE GP	PEG	33.08	0.0458	0.3425	0.0026	0.0432	Sep-10
48	Oct-10	PUBLIC SERVICE ENTERPRISE GP	PEG	32.34	-0.0224	0	0.0027	-0.0251	Oct-10
48	Nov-10	PUBLIC SERVICE ENTERPRISE GP	PEG	30.83	-0.0467	0	0.0032	-0.0499	Nov-10
48	Dec-10	PUBLIC SERVICE ENTERPRISE GP	PEG	31.81	0.0429	0.3425	0.0032	0.0397	Dec-10
48	Jan-11	PUBLIC SERVICE ENTERPRISE GP	PEG	32.43	0.0195	0	0.0035667	0.0159	Jan-11
48	Feb-11	PUBLIC SERVICE ENTERPRISE GP	PEG	32.7	0.0083	0	0.0036833	0.0046	Feb-11
48	Mar-11	PUBLIC SERVICE ENTERPRISE GP	PEG	31.51	-0.0259	0.3425	0.0035583	-0.0295	Mar-11
48	Apr-11	PUBLIC SERVICE ENTERPRISE GP	PEG	32.17	0.0209	0	0.0035667	0.0174	Apr-11
48	May-11	PUBLIC SERVICE ENTERPRISE GP	PEG	33.5	0.0413	0	0.0033417	0.0380	May-11
48	Jun-11	PUBLIC SERVICE ENTERPRISE GP	PEG	32.64	-0.0154	0.3425	0.0032583	-0.0187	Jun-11
48	Jul-11	PUBLIC SERVICE ENTERPRISE GP	PEG	32.75	0.0034	0	0.0032917	0.0001	Jul-11
48	Aug-11	PUBLIC SERVICE ENTERPRISE GP	PEG	34.13	0.0421	0	0.0030417	0.0391	Aug-11
48	Sep-11	PUBLIC SERVICE ENTERPRISE GP	PEG	33.37	-0.0122	0.3425	0.0023583	-0.0146	Sep-11
48	Oct-11	PUBLIC SERVICE ENTERPRISE GP	PEG	33.7	0.0099	0	0.0023917	0.0075	Oct-11
48	Nov-11	PUBLIC SERVICE ENTERPRISE GP	PEG	32.94	-0.0226	0	0.0022667	-0.0248	Nov-11
48	Dec-11	PUBLIC SERVICE ENTERPRISE GP	PEG	33.01	0.0125	0.3425	0.0024833	0.0100	Dec-11
48	Jan-12	PUBLIC SERVICE ENTERPRISE GP	PEG	30.34	-0.0809	0	0.0021	-0.0830	Jan-12
48	Feb-12	PUBLIC SERVICE ENTERPRISE GP	PEG	30.78	0.0145	0	0.002	0.0125	Feb-12
48	Mar-12	PUBLIC SERVICE ENTERPRISE GP	PEG	30.61	0.006	0.355	0.0022	0.0038	Mar-12
48	Apr-12	PUBLIC SERVICE ENTERPRISE GP	PEG	31.15	0.0176	0	0.0025	0.0151	Apr-12
48	May-12	PUBLIC SERVICE ENTERPRISE GP	PEG	31.19	0.0013	0	0.0023	-0.0010	May-12
48	Jun-12	PUBLIC SERVICE ENTERPRISE GP	PEG	32.5	0.0534	0.355	0.0018	0.0516	Jun-12
	Jul-12	PUBLIC SERVICE ENTERPRISE GP	PEG	33.24	0.0228	0	0.002	0.0208	Jul-12
	Aug-12	PUBLIC SERVICE ENTERPRISE GP	PEG	31.66	-0.0475	0	0.0018	-0.0493	Aug-12
	Sep-12	PUBLIC SERVICE ENTERPRISE GP	PEG	32.18	0.0276	0.355	0.0017	0.0259	Sep-12

Oct-12	PUBLIC SERVICE ENTERPRISE GP	PEG	32.04	-0.0044	0	0.0021	-0.0065	Oct-12
Nov-12	PUBLIC SERVICE ENTERPRISE GP	PEG	30.09	-0.0609	0	0.0019	-0.0628	Nov-12
Dec-12	PUBLIC SERVICE ENTERPRISE GP	PEG	30.6	0.0287	0.355	0.0019	0.0268	Dec-12
Jan-13	PUBLIC SERVICE ENTERPRISE GP	PEG	31.18	0.019	0	0.0022	0.0168	Jan-13
Feb-13	PUBLIC SERVICE ENTERPRISE GP	PEG	32.59	0.0452	0	0.0022	0.0430	Feb-13
Mar-13	PUBLIC SERVICE ENTERPRISE GP	PEG	34.34	0.0647	0.36	0.0021	0.0626	Mar-13
Apr-13	PUBLIC SERVICE ENTERPRISE GP	PEG	36.61	0.0661	0	0.0026	0.0635	Apr-13
May-13	PUBLIC SERVICE ENTERPRISE GP	PEG	33.04	-0.0975	0	0.0023	-0.0998	May-13
Jun-13	PUBLIC SERVICE ENTERPRISE GP	PEG	32.66	-0.0006	0.36	0.0024	-0.0030	Jun-13
Jul-13	PUBLIC SERVICE ENTERPRISE GP	PEG	33.79	0.0346	0	0.003	0.0316	Jul-13
Aug-13	PUBLIC SERVICE ENTERPRISE GP	PEG	32.42	-0.0405	0	0.0028	-0.0433	Aug-13
Sep-13	PUBLIC SERVICE ENTERPRISE GP	PEG	32.93	0.0268	0.36	0.0029	0.0239	Sep-13
Oct-13	PUBLIC SERVICE ENTERPRISE GP	PEG	33.5	0.0173	0	0.0029	0.0144	Oct-13
Nov-13	PUBLIC SERVICE ENTERPRISE GP	PEG	32.69	-0.0242	0	0.0027	-0.0269	Nov-13
Dec-13	PUBLIC SERVICE ENTERPRISE GP	PEG	32.04	-0.0089	0.36	0.0031	-0.0120	Dec-13
Jan-14	PUBLIC SERVICE ENTERPRISE GP	PEG	33.34	0.0406	0	0.0032	0.0374	Jan-14
Feb-14	PUBLIC SERVICE ENTERPRISE GP	PEG	36.66	0.0996	0	0.0026	0.0970	Feb-14
Mar-14	PUBLIC SERVICE ENTERPRISE GP	PEG	38.14	0.0505	0.37	0.0029	0.0476	Mar-14
Apr-14	PUBLIC SERVICE ENTERPRISE GP	PEG	40.97	0.0742	0	0.0028	0.0714	Apr-14
May-14	PUBLIC SERVICE ENTERPRISE GP	PEG	38.96	-0.0491	0	0.0028	-0.0519	May-14
Jun-14	PUBLIC SERVICE ENTERPRISE GP	PEG	40.79	0.0565	0.37	0.0025	0.0540	Jun-14
Jul-14	PUBLIC SERVICE ENTERPRISE GP	PEG	35.17	-0.1378	0	0.0027	-0.1405	Jul-14
Aug-14	PUBLIC SERVICE ENTERPRISE GP	PEG	37.39	0.0631	0	0.0026	0.0605	Aug-14
Sep-14	PUBLIC SERVICE ENTERPRISE GP	PEG	37.24	0.0059	0.37	0.0023	0.0036	Sep-14
Oct-14	PUBLIC SERVICE ENTERPRISE GP	PEG	41.31	0.1093	0	0.0025	0.1068	Oct-14
Nov-14	PUBLIC SERVICE ENTERPRISE GP	PEG	41.78	0.0114	0	0.0023	0.0091	Nov-14
Dec-14	PUBLIC SERVICE ENTERPRISE GP	PEG	41.41	-1E-16	0.37	0.0022	-0.0022	Dec-14
Jan-15	PUBLIC SERVICE ENTERPRISE GP	PEG	42.68	0.0307	0	0.002	0.0287	Jan-15
Feb-15	PUBLIC SERVICE ENTERPRISE GP	PEG	42.06	-0.0145	0	0.0015	-0.0160	Feb-15
Mar-15	PUBLIC SERVICE ENTERPRISE GP	PEG	41.92	0.0059	0.39	0.0021	0.0038	Mar-15
Apr-15	PUBLIC SERVICE ENTERPRISE GP	PEG	41.54	-0.0091	0	0.0019	-0.0110	Apr-15
May-15	PUBLIC SERVICE ENTERPRISE GP	PEG	42.63	0.0262	0	0.002	0.0242	May-15
Jun-15	PUBLIC SERVICE ENTERPRISE GP	PEG	39.28	-0.0694	0.39	0.0023	-0.071735	Jun-15
Jul-15	PUBLIC SERVICE ENTERPRISE GP	PEG	41.67	0.0608	0	0.0024	0.0584452	Jul-15
Aug-15	PUBLIC SERVICE ENTERPRISE GP	PEG	40.25	-0.0341	0	0.0022	-0.036277	Aug-15
Sep-15	PUBLIC SERVICE ENTERPRISE GP	PEG	42.16	0.0571	0.39	0.0021	0.0550429	Sep-15

Oct-15	PUBLIC SERVICE ENTERPRISE GP	PEG	41.29	-0.0206	0	0.0021	-0.022736	Oct-15
Nov-15	PUBLIC SERVICE ENTERPRISE GP	PEG	39.1	-0.053	0	0.0022	-0.055239	Nov-15
Dec-15	PUBLIC SERVICE ENTERPRISE GP	PEG	38.69	-0.0005	0.39	0.0022	-0.002712	Dec-15
Jan-16	PUBLIC SERVICE ENTERPRISE GP	PEG	41.3	0.0675	0	0.0021	0.0653593	Jan-16
Feb-16	PUBLIC SERVICE ENTERPRISE GP	PEG	42.66	0.0329	0	0.002	0.0309298	Feb-16
Mar-16	PUBLIC SERVICE ENTERPRISE GP	PEG	47.14	0.1146	0.41	0.0018	0.1128273	Mar-16
Apr-16	PUBLIC SERVICE ENTERPRISE GP	PEG	46.13	-0.0214	0	0.0017	-0.023126	Apr-16
May-16	PUBLIC SERVICE ENTERPRISE GP	PEG	44.75	-0.0299	0	0.002	-0.031915	May-16
Jun-16	PUBLIC SERVICE ENTERPRISE GP	PEG	46.61	0.0507	0.41	0.0018	0.0489263	Jun-16
Jul-16	PUBLIC SERVICE ENTERPRISE GP	PEG	46.01	-0.0129	0	0.0014	-0.014273	Jul-16
Aug-16	PUBLIC SERVICE ENTERPRISE GP	PEG	42.76	-0.0706	0	0.0016	-0.072237	Aug-16
Sep-16	PUBLIC SERVICE ENTERPRISE GP	PEG	41.87	-0.0112	0.41	0.0015	-0.012725	Sep-16
Oct-16	PUBLIC SERVICE ENTERPRISE GP	PEG	42.08	0.005	0	0.0016	0.0034155	Oct-16
Nov-16	PUBLIC SERVICE ENTERPRISE GP	PEG	41.31	-0.0183	0	0.0018	-0.020098	Nov-16
Dec-16	PUBLIC SERVICE ENTERPRISE GP	PEG	43.88	0.0721	0.41	0.0022	0.0699375	Dec-16
Jan-17	PUBLIC SERVICE ENTERPRISE GP	PEG	44.25	0.0084	0	0.0024	0.0060321	Jan-17
Feb-17	PUBLIC SERVICE ENTERPRISE GP	PEG	45.98	0.0391	0	0.0021	0.036996	Feb-17
Mar-17	PUBLIC SERVICE ENTERPRISE GP	PEG	44.35	-0.0261	0.43	0.0023	-0.028398	Mar-17
Apr-17	PUBLIC SERVICE ENTERPRISE GP	PEG	44.05	-0.0068	0	0.0021	-0.008864	Apr-17
May-17	PUBLIC SERVICE ENTERPRISE GP	PEG	44.91	0.0195	0	0.0024	0.0171233	May-17
Jun-17	PUBLIC SERVICE ENTERPRISE GP	PEG	43.01	-0.0327	0.43	0.0021	-0.034832	Jun-17
Jul-17	PUBLIC SERVICE ENTERPRISE GP	PEG	44.97	0.0456	0	0.0022	0.0433708	Jul-17
Aug-17	PUBLIC SERVICE ENTERPRISE GP	PEG	46.84	0.0416	0	0.0022	0.0393833	Aug-17
Sep-17	PUBLIC SERVICE ENTERPRISE GP	PEG	46.25	-0.0034	0.43	0.0019	-0.005316	Sep-17
Oct-17	PUBLIC SERVICE ENTERPRISE GP	PEG	49.2	0.0638	0	0.0022	0.0615838	Oct-17
Nov-17	PUBLIC SERVICE ENTERPRISE GP	PEG	53.06	0.0785	0	0.0021	0.0763553	Nov-17
Dec-17	PUBLIC SERVICE ENTERPRISE GP	PEG	51.5	-0.0213	0.43	0.002	-0.023297	Dec-17
Jan-18	PUBLIC SERVICE ENTERPRISE GP	PEG	51.87	0.0072	0	0.0024	0.0047845	Jan-18
Feb-18	PUBLIC SERVICE ENTERPRISE GP	PEG	48.43	-0.0663	0	0.0022	-0.06852	Feb-18
Mar-18	PUBLIC SERVICE ENTERPRISE GP	PEG	50.24	0.0467	0.45	0.0024	0.0442653	Mar-18
Apr-18	PUBLIC SERVICE ENTERPRISE GP	PEG	52.15	0.038	0	0.0025	0.0355175	Apr-18
May-18	PUBLIC SERVICE ENTERPRISE GP	PEG	52.98	0.0159	0	0.0025	0.0134156	May-18
Jun-18	PUBLIC SERVICE ENTERPRISE GP	PEG	54.14	0.0304	0.45	0.0023	0.0280888	Jun-18
Jul-18	PUBLIC SERVICE ENTERPRISE GP	PEG	51.56	-0.0477	0	0.0025	-0.050154	Jul-18
Aug-18	PUBLIC SERVICE ENTERPRISE GP	PEG	52.35	0.0153	0	0.0025	0.012822	Aug-18
Sep-18	PUBLIC SERVICE ENTERPRISE GP	PEG	52.79	0.017	0.45	0.0022	0.014801	Sep-18

Oct-18	PUBLIC SERVICE ENTERPRISE GP	PEG	53.43	0.0121	0	0.003	0.0091235	Oct-18
Nov-18	PUBLIC SERVICE ENTERPRISE GP	PEG	55.9	0.0462	0	0.0028	0.0434287	Nov-18
Dec-18	PUBLIC SERVICE ENTERPRISE GP	PEG	52.05	-0.0608	0.45	0.0027	-0.063523	Dec-18
Jan-19	PUBLIC SERVICE ENTERPRISE GP	PEG	54.55	0.048	0	0.0025	0.0455307	Jan-19
Feb-19	PUBLIC SERVICE ENTERPRISE GP	PEG	58.81	0.0781	0	0.0022	0.0758935	Feb-19
Mar-19	PUBLIC SERVICE ENTERPRISE GP	PEG	59.41	0.0182	0.47	0.0023	0.0158942	Mar-19
Apr-19	PUBLIC SERVICE ENTERPRISE GP	PEG	59.65	0.004	0	0.0023	0.0017397	Apr-19
May-19	PUBLIC SERVICE ENTERPRISE GP	PEG	58.76	-0.0149	0	0.0023	-0.01722	May-19
Jun-19	PUBLIC SERVICE ENTERPRISE GP	PEG	58.82	0.009	0.47	0.0018	0.0072197	Jun-19
Jul-19	PUBLIC SERVICE ENTERPRISE GP	PEG	57.15	-0.0284	0	0.0021	-0.030492	Jul-19
Aug-19	PUBLIC SERVICE ENTERPRISE GP	PEG	60.47	0.0581	0	0.0019	0.0561927	Aug-19
Sep-19	PUBLIC SERVICE ENTERPRISE GP	PEG	62.08	0.0344	0.47	0.0015	0.0328972	Sep-19
Oct-19	PUBLIC SERVICE ENTERPRISE GP	PEG	63.31	0.0198	0	0.0016	0.0182131	Oct-19
Nov-19	PUBLIC SERVICE ENTERPRISE GP	PEG	59.31	-0.0632	0	0.0016	-0.064781	Nov-19
Dec-19	PUBLIC SERVICE ENTERPRISE GP	PEG	59.05	0.0035	0.47	0.0018	0.0017407	Dec-19
Jan-20	PUBLIC SERVICE ENTERPRISE GP	PEG	59.2	0.0025	0	0.002	0.0005402	Jan-20
Feb-20	PUBLIC SERVICE ENTERPRISE GP	PEG	51.31	-0.1333	0	0.0015	-0.134777	Feb-20
Mar-20	PUBLIC SERVICE ENTERPRISE GP	PEG	44.91	-0.1152	0.49	0.00123	-0.116412	Mar-20
Apr-20	PUBLIC SERVICE ENTERPRISE GP	PEG	50.71	0.1291	0	0.0009	0.1282472	Apr-20
May-20	PUBLIC SERVICE ENTERPRISE GP	PEG	51.04	0.0065	0	0.0009	0.0056076	May-20
Jun-20	PUBLIC SERVICE ENTERPRISE GP	PEG	49.16	-0.0272	0.49	0.0009	-0.028134	Jun-20
Jul-20	PUBLIC SERVICE ENTERPRISE GP	PEG	55.94	0.1379	0	0.001	0.136917	Jul-20
Aug-20	PUBLIC SERVICE ENTERPRISE GP	PEG	52.24	-0.0661	0	0.0008	-0.066942	Aug-20
Sep-20	PUBLIC SERVICE ENTERPRISE GP	PEG	54.91	0.0605	0.49	0	0.06049	Sep-20
Oct-20	PUBLIC SERVICE ENTERPRISE GP	PEG	58.15	0.059	0	0.0009	0.0581056	Oct-20
Nov-20	PUBLIC SERVICE ENTERPRISE GP	PEG	58.28	0.0022	0	0.0011	0.0011356	Nov-20
Dec-20	PUBLIC SERVICE ENTERPRISE GP	PEG	58.3	0.0088	0.49	0.0011	0.0076509	Dec-20
Jan-21	PUBLIC SERVICE ENTERPRISE GP	PEG	56.43	-0.0321	0	0.0015167	-0.033592	Jan-21
Feb-21	PUBLIC SERVICE ENTERPRISE GP	PEG	53.83	-0.0461	0	0.0017	-0.047775	Feb-21
Mar-21	PUBLIC SERVICE ENTERPRISE GP	PEG	60.21	0.128	0.51	0.00195	0.1260455	Mar-21
Apr-21	PUBLIC SERVICE ENTERPRISE GP	PEG	63.16	0.049	0	0.0019167	0.0470785	Apr-21
May-21	PUBLIC SERVICE ENTERPRISE GP	PEG	62.12	-0.0165	0	0.0019333	-0.018399	May-21
Jun-21	PUBLIC SERVICE ENTERPRISE GP	PEG	59.74	-0.0301	0.51	0.0018	-0.031903	Jun-21
Jul-21	PUBLIC SERVICE ENTERPRISE GP	PEG	62.23	0.0417	0	0.0016167	0.0400639	Jul-21
Aug-21	PUBLIC SERVICE ENTERPRISE GP	PEG	63.94	0.0275	0	0.0016	0.0258787	Aug-21

Unique Index Number	Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP	Trading Date
	Jan-26						0.0031		Jan-26
	Feb-26						0.0028		Feb-26
	Mar-26						0.0032		Mar-26
	Apr-26						0.0030		Apr-26
	May-26						0.0028		May-26
	Jun-26						0.0033		Jun-26
	Jul-26						0.0031		Jul-26
	Aug-26						0.0031		Aug-26
	Sep-26						0.0030		Sep-26
	Oct-26						0.0030		Oct-26
	Nov-26						0.0031		Nov-26
	Dec-26						0.0030		Dec-26
	Jan-27						0.0030		Jan-27
	Feb-27						0.0027		Feb-27
	Mar-27						0.0029		Mar-27
	Apr-27						0.0027		Apr-27
	May-27						0.0028		May-27
	Jun-27						0.0027		Jun-27
	Jul-27						0.0027		Jul-27
	Aug-27						0.0029		Aug-27
	Sep-27						0.0027		Sep-27
	Oct-27						0.0028		Oct-27
	Nov-27						0.0027		Nov-27
	Dec-27						0.0027		Dec-27
	Jan-28						0.0027		Jan-28
	Feb-28						0.0025		Feb-28
	Mar-28						0.0027		Mar-28
	Apr-28						0.0026		Apr-28
	May-28						0.0027		May-28
	Jun-28						0.0027		Jun-28
	Jul-28						0.0027		Jul-28
	Aug-28						0.0029		Aug-28
	Sep-28						0.0027		Sep-28
	Oct-28						0.0030		Oct-28
	Nov-28						0.0027		Nov-28
	Dec-28						0.0029		Dec-28

	Jan-29					0.0029		Jan-29
	Feb-29					0.0027		Feb-29
	Mar-29					0.0028		Mar-29
	Apr-29					0.0034		Apr-29
	May-29					0.0030		May-29
	Jun-29					0.0029		Jun-29
	Jul-29					0.0032		Jul-29
	Aug-29					0.0030		Aug-29
	Sep-29					0.0032		Sep-29
18	Oct-29	COMMONWEALTH & SOUTHERN CORF	16.5	-66	0	0.0031		Oct-29
18	Nov-29	COMMONWEALTH & SOUTHERN CORF	13.5	-0.18182	0	0.0026	-0.1844	Nov-29
18	Dec-29	COMMONWEALTH & SOUTHERN CORF	13.5	0	0	0.0031	-0.0031	Dec-29
18	Jan-30	COMMONWEALTH & SOUTHERN CORF	15.625	0.157407	0	0.0029	0.1545	Jan-30
18	Feb-30	COMMONWEALTH & SOUTHERN CORF	17.125	0.1056	0.15	0.0026	0.1030	Feb-30
18	Mar-30	COMMONWEALTH & SOUTHERN CORF	19.375	0.131387	0	0.0029	0.1285	Mar-30
18	Apr-30	COMMONWEALTH & SOUTHERN CORF	18.5	-0.04516	0	0.0027	-0.0479	Apr-30
18	May-30	COMMONWEALTH & SOUTHERN CORF	18	-0.01892	0.15	0.0027	-0.0216	May-30
18	Jun-30	COMMONWEALTH & SOUTHERN CORF	14.25	-0.20833	0	0.0029	-0.2112	Jun-30
18	Jul-30	COMMONWEALTH & SOUTHERN CORF	14.125	-0.00877	0	0.0028	-0.0116	Jul-30
18	Aug-30	COMMONWEALTH & SOUTHERN CORF	14.125	0.010619	0.15	0.0026	0.0080	Aug-30
18	Sep-30	COMMONWEALTH & SOUTHERN CORF	11.25	-0.20354	0	0.0029	-0.2064	Sep-30
18	Oct-30	COMMONWEALTH & SOUTHERN CORF	10.125	-0.1	0	0.0027	-0.1027	Oct-30
18	Nov-30	COMMONWEALTH & SOUTHERN CORF	9	-0.0963	0.15	0.0026	-0.0989	Nov-30
18	Dec-30	COMMONWEALTH & SOUTHERN CORF	8.125	-0.09722	0	0.0028	-0.1000	Dec-30
18	Jan-31	COMMONWEALTH & SOUTHERN CORF	9.625	0.184615	0	0.0028	0.1818	Jan-31
18	Feb-31	COMMONWEALTH & SOUTHERN CORF	11.25	0.184416	0.15	0.0026	0.1818	Feb-31
18	Mar-31	COMMONWEALTH & SOUTHERN CORF	10	-0.11111	0	0.0029	-0.1140	Mar-31
18	Apr-31	COMMONWEALTH & SOUTHERN CORF	8.25	-0.175	0	0.0027	-0.1777	Apr-31
18	May-31	COMMONWEALTH & SOUTHERN CORF	7.5	-0.07879	0.1	0.0026	-0.0814	May-31
18	Jun-31	COMMONWEALTH & SOUTHERN CORF	8.5	0.133333	0	0.0028	0.1305	Jun-31
18	Jul-31	COMMONWEALTH & SOUTHERN CORF	8	-0.05882	0	0.0027	-0.0615	Jul-31
18	Aug-31	COMMONWEALTH & SOUTHERN CORF	8.125	0.028125	0.1	0.0027	0.0254	Aug-31
18	Sep-31	COMMONWEALTH & SOUTHERN CORF	5	-0.38462	0	0.0027	-0.3873	Sep-31
18	Oct-31	COMMONWEALTH & SOUTHERN CORF	5.375	0.075	0	0.0029	0.0721	Oct-31
18	Nov-31	COMMONWEALTH & SOUTHERN CORF	5.125	-0.04651	0	0.0031	-0.0496	Nov-31
18	Dec-31	COMMONWEALTH & SOUTHERN CORF	3.625	-0.29268	0	0.0032	-0.2959	Dec-31
18	Jan-32	COMMONWEALTH & SOUTHERN CORF	4.125	0.137931	0	0.0032	0.1347	Jan-32
18	Feb-32	COMMONWEALTH & SOUTHERN CORF	3.875	-0.02424	0.15	0.0032	-0.0274	Feb-32
18	Mar-32	COMMONWEALTH & SOUTHERN CORF	3.5	-0.09677	0	0.0031	-0.0999	Mar-32

18	Apr-32	COMMONWEALTH & SOUTHERN CORF	2.625	-0.25	0	0.0030	-0.2530	Apr-32
18	May-32	COMMONWEALTH & SOUTHERN CORF	2.125	-0.19048	0	0.0028	-0.1933	May-32
18	Jun-32	COMMONWEALTH & SOUTHERN CORF	2	-0.05882	0	0.0028	-0.0616	Jun-32
18	Jul-32	COMMONWEALTH & SOUTHERN CORF	2.5	0.25	0	0.0028	0.2472	Jul-32
18	Aug-32	COMMONWEALTH & SOUTHERN CORF	4.875	0.95	0	0.0028	0.9472	Aug-32
18	Sep-32	COMMONWEALTH & SOUTHERN CORF	3.875	-0.20513	0	0.0026	-0.2077	Sep-32
18	Oct-32	COMMONWEALTH & SOUTHERN CORF	3	-0.22581	0	0.0027	-0.2285	Oct-32
18	Nov-32	COMMONWEALTH & SOUTHERN CORF	2.75	-0.08333	0	0.0026	-0.0859	Nov-32
18	Dec-32	COMMONWEALTH & SOUTHERN CORF	2.5	-0.09091	0	0.0027	-0.0936	Dec-32
18	Jan-33	COMMONWEALTH & SOUTHERN CORF	2.375	-0.05	0	0.0027	-0.0527	Jan-33
18	Feb-33	COMMONWEALTH & SOUTHERN CORF	1.875	-0.21053	0	0.0023	-0.2128	Feb-33
18	Mar-33	COMMONWEALTH & SOUTHERN CORF	1.5	-0.2	0	0.0027	-0.2027	Mar-33
18	Apr-33	COMMONWEALTH & SOUTHERN CORF	1.875	0.25	0	0.0025	0.2475	Apr-33
18	May-33	COMMONWEALTH & SOUTHERN CORF	2.875	0.533333	0	0.0028	0.5305	May-33
18	Jun-33	COMMONWEALTH & SOUTHERN CORF	4.5	0.565217	0	0.0025	0.5627	Jun-33
18	Jul-33	COMMONWEALTH & SOUTHERN CORF	3.5	-0.22222	0	0.0026	-0.2248	Jul-33
18	Aug-33	COMMONWEALTH & SOUTHERN CORF	3.375	-0.03571	0	0.0026	-0.0383	Aug-33
18	Sep-33	COMMONWEALTH & SOUTHERN CORF	2.25	-0.33333	0	0.0025	-0.3358	Sep-33
18	Oct-33	COMMONWEALTH & SOUTHERN CORF	2	-0.11111	0	0.0026	-0.1137	Oct-33
18	Nov-33	COMMONWEALTH & SOUTHERN CORF	1.75	-0.125	0	0.0025	-0.1275	Nov-33
18	Dec-33	COMMONWEALTH & SOUTHERN CORF	1.75	0	0	0.0028	-0.0028	Dec-33
18	Jan-34	COMMONWEALTH & SOUTHERN CORF	2.875	0.642857	0	0.0029	0.6400	Jan-34
18	Feb-34	COMMONWEALTH & SOUTHERN CORF	2.75	-0.04348	0	0.0024	-0.0459	Feb-34
18	Mar-34	COMMONWEALTH & SOUTHERN CORF	2.625	-0.04546	0	0.0027	-0.0482	Mar-34
18	Apr-34	COMMONWEALTH & SOUTHERN CORF	2.625	0	0	0.0025	-0.0025	Apr-34
18	May-34	COMMONWEALTH & SOUTHERN CORF	2.125	-0.19048	0	0.0025	-0.1930	May-34
18	Jun-34	COMMONWEALTH & SOUTHERN CORF	2	-0.05882	0	0.0024	-0.0612	Jun-34
18	Jul-34	COMMONWEALTH & SOUTHERN CORF	1.75	-0.125	0	0.0024	-0.1274	Jul-34
18	Aug-34	COMMONWEALTH & SOUTHERN CORF	1.625	-0.07143	0	0.0024	-0.0738	Aug-34
18	Sep-34	COMMONWEALTH & SOUTHERN CORF	1.625	0	0	0.0023	-0.0023	Sep-34
18	Oct-34	COMMONWEALTH & SOUTHERN CORF	1.375	-0.15385	0	0.0027	-0.1565	Oct-34
18	Nov-34	COMMONWEALTH & SOUTHERN CORF	1.375	0	0	0.0025	-0.0025	Nov-34
18	Dec-34	COMMONWEALTH & SOUTHERN CORF	1.125	-0.18182	0	0.0025	-0.1843	Dec-34
18	Jan-35	COMMONWEALTH & SOUTHERN CORF	1.125	0	0	0.0025	-0.0025	Jan-35
18	Feb-35	COMMONWEALTH & SOUTHERN CORF	1	-0.11111	0	0.0021	-0.1132	Feb-35
18	Mar-35	COMMONWEALTH & SOUTHERN CORF	1	0	0	0.0022	-0.0022	Mar-35
18	Apr-35	COMMONWEALTH & SOUTHERN CORF	1	0	0	0.0023	-0.0023	Apr-35
18	May-35	COMMONWEALTH & SOUTHERN CORF	1.5	0.5	0	0.0023	0.4977	May-35
18	Jun-35	COMMONWEALTH & SOUTHERN CORF	1.375	-0.08333	0	0.0022	-0.0855	Jun-35

18	Jul-35	COMMONWEALTH & SOUTHERN CORF	1.5	0.090909	0	0.0024	0.0885	Jul-35
18	Aug-35	COMMONWEALTH & SOUTHERN CORF	1.875	0.25	0	0.0023	0.2477	Aug-35
18	Sep-35	COMMONWEALTH & SOUTHERN CORF	1.75	-0.06667	0	0.0023	-0.0690	Sep-35
18	Oct-35	COMMONWEALTH & SOUTHERN CORF	2.125	0.214286	0	0.0023	0.2120	Oct-35
18	Nov-35	COMMONWEALTH & SOUTHERN CORF	2.75	0.294118	0	0.0024	0.2917	Nov-35
18	Dec-35	COMMONWEALTH & SOUTHERN CORF	3	0.090909	0	0.0024	0.0885	Dec-35
18	Jan-36	COMMONWEALTH & SOUTHERN CORF	4.5	0.5	0	0.0024	0.4976	Jan-36
18	Feb-36	COMMONWEALTH & SOUTHERN CORF	3.25	-0.27778	0	0.0023	-0.2801	Feb-36
18	Mar-36	COMMONWEALTH & SOUTHERN CORF	3	-0.07692	0	0.0024	-0.0793	Mar-36
18	Apr-36	COMMONWEALTH & SOUTHERN CORF	2.5	-0.16667	0	0.0022	-0.1689	Apr-36
18	May-36	COMMONWEALTH & SOUTHERN CORF	3.125	0.25	0	0.0022	0.2478	May-36
18	Jun-36	COMMONWEALTH & SOUTHERN CORF	3.25	0.04	0	0.0024	0.0376	Jun-36
18	Jul-36	COMMONWEALTH & SOUTHERN CORF	3.625	0.115385	0	0.0023	0.1131	Jul-36
18	Aug-36	COMMONWEALTH & SOUTHERN CORF	3.25	-0.10345	0	0.0023	-0.1057	Aug-36
18	Sep-36	COMMONWEALTH & SOUTHERN CORF	4	0.230769	0	0.0021	0.2287	Sep-36
18	Oct-36	COMMONWEALTH & SOUTHERN CORF	4.25	0.0625	0	0.0023	0.0602	Oct-36
18	Nov-36	COMMONWEALTH & SOUTHERN CORF	3.5	-0.17647	0	0.0022	-0.1787	Nov-36
18	Dec-36	COMMONWEALTH & SOUTHERN CORF	3.375	-0.03571	0	0.0022	-0.0379	Dec-36
18	Jan-37	COMMONWEALTH & SOUTHERN CORF	3.5	0.037037	0	0.0021	0.0349	Jan-37
18	Feb-37	COMMONWEALTH & SOUTHERN CORF	3.25	-0.07143	0	0.0020	-0.0734	Feb-37
18	Mar-37	COMMONWEALTH & SOUTHERN CORF	3	-0.07692	0	0.0022	-0.0791	Mar-37
18	Apr-37	COMMONWEALTH & SOUTHERN CORF	2.75	-0.08333	0	0.0023	-0.0856	Apr-37
18	May-37	COMMONWEALTH & SOUTHERN CORF	2.25	-0.18182	0	0.0022	-0.1840	May-37
18	Jun-37	COMMONWEALTH & SOUTHERN CORF	2.125	-0.05556	0	0.0025	-0.0581	Jun-37
18	Jul-37	COMMONWEALTH & SOUTHERN CORF	3	0.411765	0	0.0024	0.4094	Jul-37
18	Aug-37	COMMONWEALTH & SOUTHERN CORF	2.5	-0.16667	0	0.0023	-0.1690	Aug-37
18	Sep-37	COMMONWEALTH & SOUTHERN CORF	2	-0.2	0	0.0023	-0.2023	Sep-37
18	Oct-37	COMMONWEALTH & SOUTHERN CORF	2.125	0.0625	0	0.0023	0.0602	Oct-37
18	Nov-37	COMMONWEALTH & SOUTHERN CORF	2.375	0.117647	0	0.0024	0.1152	Nov-37
18	Dec-37	COMMONWEALTH & SOUTHERN CORF	1.875	-0.21053	0	0.0023	-0.2128	Dec-37
18	Jan-38	COMMONWEALTH & SOUTHERN CORF	1.5	-0.2	0	0.0023	-0.2023	Jan-38
18	Feb-38	COMMONWEALTH & SOUTHERN CORF	1.5	0	0	0.0021	-0.0021	Feb-38
18	Mar-38	COMMONWEALTH & SOUTHERN CORF	1	-0.33333	0	0.0023	-0.3356	Mar-38
18	Apr-38	COMMONWEALTH & SOUTHERN CORF	1.25	0.25	0	0.0022	0.2478	Apr-38
18	May-38	COMMONWEALTH & SOUTHERN CORF	1.25	0	0	0.0022	-0.0022	May-38
18	Jun-38	COMMONWEALTH & SOUTHERN CORF	1.375	0.1	0	0.0021	0.0979	Jun-38
18	Jul-38	COMMONWEALTH & SOUTHERN CORF	1.25	-0.09091	0	0.0021	-0.0930	Jul-38
18	Aug-38	COMMONWEALTH & SOUTHERN CORF	1.125	-0.1	0	0.0022	-0.1022	Aug-38
18	Sep-38	COMMONWEALTH & SOUTHERN CORF	1.125	0	0	0.0021	-0.0021	Sep-38

18	Oct-38	COMMONWEALTH & SOUTHERN CORF	2.125	0.888889	0	0.0022	0.8867	Oct-38
18	Nov-38	COMMONWEALTH & SOUTHERN CORF	1.625	-0.23529	0	0.0021	-0.2374	Nov-38
18	Dec-38	COMMONWEALTH & SOUTHERN CORF	1.625	0	0	0.0022	-0.0022	Dec-38
18	Jan-39	COMMONWEALTH & SOUTHERN CORF	1.5	-0.07692	0	0.0021	-0.0790	Jan-39
18	Feb-39	COMMONWEALTH & SOUTHERN CORF	1.75	0.166667	0	0.0019	0.1648	Feb-39
18	Mar-39	COMMONWEALTH & SOUTHERN CORF	1.25	-0.28571	0	0.0021	-0.2878	Mar-39
18	Apr-39	COMMONWEALTH & SOUTHERN CORF	1.375	0.1	0	0.0019	0.0981	Apr-39
18	May-39	COMMONWEALTH & SOUTHERN CORF	1.375	0	0	0.0020	-0.0020	May-39
18	Jun-39	COMMONWEALTH & SOUTHERN CORF	1.25	-0.09091	0	0.0018	-0.0927	Jun-39
18	Jul-39	COMMONWEALTH & SOUTHERN CORF	1.5	0.2	0	0.0019	0.1981	Jul-39
18	Aug-39	COMMONWEALTH & SOUTHERN CORF	1.375	-0.08333	0	0.0018	-0.0851	Aug-39
18	Sep-39	COMMONWEALTH & SOUTHERN CORF	1.625	0.181818	0	0.0019	0.1799	Sep-39
18	Oct-39	COMMONWEALTH & SOUTHERN CORF	1.5	-0.07692	0	0.0023	-0.0792	Oct-39
18	Nov-39	COMMONWEALTH & SOUTHERN CORF	1.375	-0.08333	0	0.0020	-0.0853	Nov-39
18	Dec-39	COMMONWEALTH & SOUTHERN CORF	1.25	-0.09091	0	0.0019	-0.0928	Dec-39
18	Jan-40	COMMONWEALTH & SOUTHERN CORF	1.125	-0.1	0	0.0020	-0.1020	Jan-40
18	Feb-40	COMMONWEALTH & SOUTHERN CORF	1.125	0	0	0.0018	-0.0018	Feb-40
18	Mar-40	COMMONWEALTH & SOUTHERN CORF	1.375	0.222222	0	0.0019	0.2203	Mar-40
18	Apr-40	COMMONWEALTH & SOUTHERN CORF	1.25	-0.09091	0	0.0018	-0.0927	Apr-40
18	May-40	COMMONWEALTH & SOUTHERN CORF	0.875	-0.3	0	0.0019	-0.3019	May-40
18	Jun-40	COMMONWEALTH & SOUTHERN CORF	1.5	0.714286	0	0.0019	0.7124	Jun-40
18	Jul-40	COMMONWEALTH & SOUTHERN CORF	1.25	-0.16667	0	0.0020	-0.1687	Jul-40
18	Aug-40	COMMONWEALTH & SOUTHERN CORF	1.25	0	0	0.0019	-0.0019	Aug-40
18	Sep-40	COMMONWEALTH & SOUTHERN CORF	1.125	-0.1	0	0.0018	-0.1018	Sep-40
18	Oct-40	COMMONWEALTH & SOUTHERN CORF	1.5	0.333333	0	0.0018	0.3315	Oct-40
18	Nov-40	COMMONWEALTH & SOUTHERN CORF	0.875	-0.41667	0	0.0018	-0.4185	Nov-40
18	Dec-40	COMMONWEALTH & SOUTHERN CORF	0.8125	-0.07143	0	0.0017	-0.0731	Dec-40
18	Jan-41	COMMONWEALTH & SOUTHERN CORF	0.6875	-0.15385	0	0.0016	-0.1554	Jan-41
18	Feb-41	COMMONWEALTH & SOUTHERN CORF	0.75	0.090909	0	0.0016	0.0893	Feb-41
18	Mar-41	COMMONWEALTH & SOUTHERN CORF	0.5	-0.33333	0	0.0018	-0.3351	Mar-41
18	Apr-41	COMMONWEALTH & SOUTHERN CORF	0.4375	-0.125	0	0.0017	-0.1267	Apr-41
18	May-41	COMMONWEALTH & SOUTHERN CORF	0.375	-0.14286	0	0.0017	-0.1446	May-41
18	Jun-41	COMMONWEALTH & SOUTHERN CORF	0.375	0	0	0.0016	-0.0016	Jun-41
18	Jul-41	COMMONWEALTH & SOUTHERN CORF	0.4375	0.166667	0	0.0016	0.1651	Jul-41
18	Aug-41	COMMONWEALTH & SOUTHERN CORF	0.375	-0.14286	0	0.0016	-0.1445	Aug-41
18	Sep-41	COMMONWEALTH & SOUTHERN CORF	0.375	0	0	0.0016	-0.0016	Sep-41
18	Oct-41	COMMONWEALTH & SOUTHERN CORF	0.25	-0.33333	0	0.0016	-0.3349	Oct-41
18	Nov-41	COMMONWEALTH & SOUTHERN CORF	0.25	0	0	0.0014	-0.0014	Nov-41
18	Dec-41	COMMONWEALTH & SOUTHERN CORF	0.21875	-0.125	0	0.0016	-0.1266	Dec-41

18	Jan-42	COMMONWEALTH & SOUTHERN CORF	0.28125	0.285714	0	0.0021	0.2836	Jan-42
18	Feb-42	COMMONWEALTH & SOUTHERN CORF	0.28125	0	0	0.0019	-0.0019	Feb-42
18	Mar-42	COMMONWEALTH & SOUTHERN CORF	0.25	-0.11111	0	0.0021	-0.1132	Mar-42
18	Apr-42	COMMONWEALTH & SOUTHERN CORF	0.1875	-0.25	0	0.0020	-0.2520	Apr-42
18	May-42	COMMONWEALTH & SOUTHERN CORF	0.1875	0	0	0.0019	-0.0019	May-42
18	Jun-42	COMMONWEALTH & SOUTHERN CORF	0.1875	0	0	0.0021	-0.0021	Jun-42
18	Jul-42	COMMONWEALTH & SOUTHERN CORF	0.1875	0	0	0.0021	-0.0021	Jul-42
18	Aug-42	COMMONWEALTH & SOUTHERN CORF	0.1875	0	0	0.0021	-0.0021	Aug-42
18	Sep-42	COMMONWEALTH & SOUTHERN CORF	0.21875	0.166667	0	0.0020	0.1647	Sep-42
18	Oct-42	COMMONWEALTH & SOUTHERN CORF	0.28125	0.285714	0	0.0021	0.2836	Oct-42
18	Nov-42	COMMONWEALTH & SOUTHERN CORF	0.25	-0.11111	0	0.0020	-0.1131	Nov-42
18	Dec-42	COMMONWEALTH & SOUTHERN CORF	0.28125	0.125	0	0.0021	0.1229	Dec-42
18	Jan-43	COMMONWEALTH & SOUTHERN CORF	0.46875	0.666667	0	0.0020	0.6647	Jan-43
18	Feb-43	COMMONWEALTH & SOUTHERN CORF	0.75	0.6	0	0.0019	0.5981	Feb-43
18	Mar-43	COMMONWEALTH & SOUTHERN CORF	0.625	-0.16667	0	0.0021	-0.1688	Mar-43
18	Apr-43	COMMONWEALTH & SOUTHERN CORF	0.625	0	0	0.0020	-0.0020	Apr-43
18	May-43	COMMONWEALTH & SOUTHERN CORF	1	0.6	0	0.0019	0.5981	May-43
18	Jun-43	COMMONWEALTH & SOUTHERN CORF	0.875	-0.125	0	0.0021	-0.1271	Jun-43
18	Jul-43	COMMONWEALTH & SOUTHERN CORF	0.75	-0.14286	0	0.0021	-0.1450	Jul-43
18	Aug-43	COMMONWEALTH & SOUTHERN CORF	0.6875	-0.08333	0	0.0021	-0.0854	Aug-43
18	Sep-43	COMMONWEALTH & SOUTHERN CORF	0.625	-0.09091	0	0.0020	-0.0929	Sep-43
18	Oct-43	COMMONWEALTH & SOUTHERN CORF	0.8125	0.3	0	0.0020	0.2980	Oct-43
18	Nov-43	COMMONWEALTH & SOUTHERN CORF	0.625	-0.23077	0	0.0021	-0.2329	Nov-43
18	Dec-43	COMMONWEALTH & SOUTHERN CORF	0.75	0.2	0	0.0021	0.1979	Dec-43
18	Jan-44	COMMONWEALTH & SOUTHERN CORF	0.6875	-0.08333	0	0.0021	-0.0854	Jan-44
18	Feb-44	COMMONWEALTH & SOUTHERN CORF	0.625	-0.09091	0	0.0020	-0.0929	Feb-44
18	Mar-44	COMMONWEALTH & SOUTHERN CORF	0.6875	0.1	0	0.0021	0.0979	Mar-44
18	Apr-44	COMMONWEALTH & SOUTHERN CORF	0.625	-0.09091	0	0.0020	-0.0929	Apr-44
18	May-44	COMMONWEALTH & SOUTHERN CORF	0.6875	0.1	0	0.0022	0.0978	May-44
18	Jun-44	COMMONWEALTH & SOUTHERN CORF	0.75	0.090909	0	0.0020	0.0889	Jun-44
18	Jul-44	COMMONWEALTH & SOUTHERN CORF	1.125	0.5	0	0.0021	0.4979	Jul-44
18	Aug-44	COMMONWEALTH & SOUTHERN CORF	1.125	0	0	0.0021	-0.0021	Aug-44
18	Sep-44	COMMONWEALTH & SOUTHERN CORF	0.9375	-0.16667	0	0.0020	-0.1687	Sep-44
18	Oct-44	COMMONWEALTH & SOUTHERN CORF	0.9375	0	0	0.0021	-0.0021	Oct-44
18	Nov-44	COMMONWEALTH & SOUTHERN CORF	0.6875	-0.26667	0	0.0020	-0.2687	Nov-44
18	Dec-44	COMMONWEALTH & SOUTHERN CORF	0.625	-0.09091	0	0.0020	-0.0929	Dec-44
18	Jan-45	COMMONWEALTH & SOUTHERN CORF	0.75	0.2	0	0.0021	0.1979	Jan-45
18	Feb-45	COMMONWEALTH & SOUTHERN CORF	0.9375	0.25	0	0.0018	0.2482	Feb-45
18	Mar-45	COMMONWEALTH & SOUTHERN CORF	0.75	-0.2	0	0.0020	-0.2020	Mar-45

18	Apr-45	COMMONWEALTH & SOUTHERN CORF	1	0.333333	0	0.0019	0.3314	Apr-45
18	May-45	COMMONWEALTH & SOUTHERN CORF	1	0	0	0.0019	-0.0019	May-45
18	Jun-45	COMMONWEALTH & SOUTHERN CORF	1.625	0.625	0	0.0019	0.6231	Jun-45
18	Jul-45	COMMONWEALTH & SOUTHERN CORF	1.5	-0.07692	0	0.0018	-0.0787	Jul-45
18	Aug-45	COMMONWEALTH & SOUTHERN CORF	1.25	-0.16667	0	0.0019	-0.1686	Aug-45
18	Sep-45	COMMONWEALTH & SOUTHERN CORF	1.625	0.3	0	0.0018	0.2982	Sep-45
18	Oct-45	COMMONWEALTH & SOUTHERN CORF	2	0.230769	0	0.0019	0.2289	Oct-45
18	Nov-45	COMMONWEALTH & SOUTHERN CORF	3.125	0.5625	0	0.0018	0.5607	Nov-45
18	Dec-45	COMMONWEALTH & SOUTHERN CORF	3	-0.04	0	0.0018	-0.0418	Dec-45
18	Jan-46	COMMONWEALTH & SOUTHERN CORF	4.125	0.375	0	0.0017	0.3733	Jan-46
18	Feb-46	COMMONWEALTH & SOUTHERN CORF	4	-0.0303	0	0.0015	-0.0318	Feb-46
18	Mar-46	COMMONWEALTH & SOUTHERN CORF	4.375	0.09375	0	0.0016	0.0922	Mar-46
18	Apr-46	COMMONWEALTH & SOUTHERN CORF	4	-0.08571	0	0.0017	-0.0874	Apr-46
18	May-46	COMMONWEALTH & SOUTHERN CORF	5.75	0.4375	0	0.0018	0.4357	May-46
18	Jun-46	COMMONWEALTH & SOUTHERN CORF	5.375	-0.06522	0	0.0016	-0.0668	Jun-46
18	Jul-46	COMMONWEALTH & SOUTHERN CORF	4.75	-0.11628	0	0.0019	-0.1182	Jul-46
18	Aug-46	COMMONWEALTH & SOUTHERN CORF	4.375	-0.07895	0	0.0017	-0.0806	Aug-46
18	Sep-46	COMMONWEALTH & SOUTHERN CORF	3.25	-0.25714	0	0.0018	-0.2589	Sep-46
18	Oct-46	COMMONWEALTH & SOUTHERN CORF	3.625	0.115385	0	0.0019	0.1135	Oct-46
18	Nov-46	COMMONWEALTH & SOUTHERN CORF	3.375	-0.06897	0	0.0018	-0.0708	Nov-46
18	Dec-46	COMMONWEALTH & SOUTHERN CORF	4	0.185185	0	0.0019	0.1833	Dec-46
18	Jan-47	COMMONWEALTH & SOUTHERN CORF	3.75	-0.0625	0	0.0018	-0.0643	Jan-47
18	Feb-47	COMMONWEALTH & SOUTHERN CORF	3.5	-0.06667	0	0.0016	-0.0683	Feb-47
18	Mar-47	COMMONWEALTH & SOUTHERN CORF	3.125	-0.10714	0	0.0018	-0.1089	Mar-47
18	Apr-47	COMMONWEALTH & SOUTHERN CORF	3	-0.04	0	0.0017	-0.0417	Apr-47
18	May-47	COMMONWEALTH & SOUTHERN CORF	2.75	-0.08333	0	0.0017	-0.0850	May-47
18	Jun-47	COMMONWEALTH & SOUTHERN CORF	3	0.090909	0	0.0019	0.0890	Jun-47
18	Jul-47	COMMONWEALTH & SOUTHERN CORF	3.5	0.166667	0	0.0018	0.1649	Jul-47
18	Aug-47	COMMONWEALTH & SOUTHERN CORF	3.25	-0.07143	0	0.0017	-0.0731	Aug-47
18	Sep-47	COMMONWEALTH & SOUTHERN CORF	3	-0.07692	0	0.0018	-0.0787	Sep-47
18	Oct-47	COMMONWEALTH & SOUTHERN CORF	3.125	0.041667	0	0.0018	0.0399	Oct-47
18	Nov-47	COMMONWEALTH & SOUTHERN CORF	2.75	-0.12	0	0.0017	-0.1217	Nov-47
18	Dec-47	COMMONWEALTH & SOUTHERN CORF	2.5	-0.09091	0	0.0021	-0.0930	Dec-47
18	Jan-48	COMMONWEALTH & SOUTHERN CORF	2.5	0	0	0.0020	-0.0020	Jan-48
18	Feb-48	COMMONWEALTH & SOUTHERN CORF	2.375	-0.05	0	0.0019	-0.0519	Feb-48
18	Mar-48	COMMONWEALTH & SOUTHERN CORF	2.75	0.157895	0	0.0022	0.1557	Mar-48
18	Apr-48	COMMONWEALTH & SOUTHERN CORF	2.875	0.045455	0	0.0020	0.0435	Apr-48
18	May-48	COMMONWEALTH & SOUTHERN CORF	3.125	0.086957	0	0.0018	0.0852	May-48
18	Jun-48	COMMONWEALTH & SOUTHERN CORF	3.25	0.04	0	0.0021	0.0379	Jun-48

18	Jul-48	COMMONWEALTH & SOUTHERN CORF	3.125	-0.03846	0	0.0019	-0.0404	Jul-48
18	Aug-48	COMMONWEALTH & SOUTHERN CORF	3.125	0	0	0.0021	-0.0021	Aug-48
18	Sep-48	COMMONWEALTH & SOUTHERN CORF	3.5	0.12	0	0.0020	0.1180	Sep-48
18	Oct-48	COMMONWEALTH & SOUTHERN CORF	3.5	0	0	0.0019	-0.0019	Oct-48
18	Nov-48	COMMONWEALTH & SOUTHERN CORF	3	-0.14286	0	0.0021	-0.1450	Nov-48
18	Dec-48	COMMONWEALTH & SOUTHERN CORF	3	0	0	0.0020	-0.0020	Dec-48
18	Jan-49	COMMONWEALTH & SOUTHERN CORF	3.375	0.125	0	0.0020	0.1230	Jan-49
18	Feb-49	COMMONWEALTH & SOUTHERN CORF	3.375	0	0	0.0018	-0.0018	Feb-49
18	Mar-49	COMMONWEALTH & SOUTHERN CORF	3.625	0.074074	0	0.0019	0.0722	Mar-49
18	Apr-49	COMMONWEALTH & SOUTHERN CORF	3.75	0.034483	0	0.0018	0.0327	Apr-49
18	May-49	COMMONWEALTH & SOUTHERN CORF	3.875	0.033333	0	0.0020	0.0313	May-49
18	Jun-49	COMMONWEALTH & SOUTHERN CORF	3.75	-0.03226	0	0.0019	-0.0342	Jun-49
18	Jul-49	COMMONWEALTH & SOUTHERN CORF	4.75	0.266667	0	0.0017	0.2650	Jul-49
18	Aug-49	COMMONWEALTH & SOUTHERN CORF	5.125	0.078947	0	0.0019	0.0770	Aug-49
18	Sep-49	COMMONWEALTH & SOUTHERN CORF	5.375	0.04878	0	0.0017	0.0471	Sep-49
18	Oct-49	SOUTHERN CO	10.75	0.041429	0	0.0018	0.0396	Oct-49
18	Nov-49	SOUTHERN CO	12	0.116279	0	0.0017	0.1146	Nov-49
18	Dec-49	SOUTHERN CO	11.75	-0.00417	0.2	0.0017	-0.0059	Dec-49
18	Jan-50	SOUTHERN CO	12.875	0.095745	0	0.0018	0.0939	Jan-50
18	Feb-50	SOUTHERN CO	13.25	0.04466	0.2	0.0016	0.0431	Feb-50
18	Mar-50	SOUTHERN CO	12.875	-0.0283	0	0.0018	-0.0301	Mar-50
18	Apr-50	SOUTHERN CO	13	0.009709	0	0.0016	0.0081	Apr-50
18	May-50	SOUTHERN CO	12.625	-0.01346	0.2	0.0019	-0.0154	May-50
18	Jun-50	SOUTHERN CO	11.25	-0.10891	0	0.0017	-0.1106	Jun-50
18	Jul-50	SOUTHERN CO	10.625	-0.05556	0	0.0018	-0.0574	Jul-50
18	Aug-50	SOUTHERN CO	11	0.054118	0.2	0.0018	0.0523	Aug-50
18	Sep-50	SOUTHERN CO	11.25	0.022727	0	0.0017	0.0210	Sep-50
18	Oct-50	SOUTHERN CO	11.625	0.033333	0	0.0019	0.0314	Oct-50
18	Nov-50	SOUTHERN CO	10.875	-0.04731	0.2	0.0018	-0.0491	Nov-50
18	Dec-50	SOUTHERN CO	11.25	0.034483	0	0.0018	0.0327	Dec-50
18	Jan-51	SOUTHERN CO	12.25	0.088889	0	0.0020	0.0869	Jan-51
18	Feb-51	SOUTHERN CO	11.25	-0.06531	0.2	0.0017	-0.0670	Feb-51
18	Mar-51	SOUTHERN CO	11.375	0.011111	0	0.0019	0.0092	Mar-51
18	Apr-51	SOUTHERN CO	11.625	0.021978	0	0.0020	0.0200	Apr-51
18	May-51	SOUTHERN CO	11.125	-0.02581	0.2	0.0021	-0.0279	May-51
18	Jun-51	SOUTHERN CO	10.875	-0.02247	0	0.0020	-0.0245	Jun-51
18	Jul-51	SOUTHERN CO	11.625	0.068966	0	0.0023	0.0667	Jul-51
18	Aug-51	SOUTHERN CO	11.75	0.027957	0.2	0.0021	0.0259	Aug-51
18	Sep-51	SOUTHERN CO	11.625	-0.01064	0	0.0019	-0.0125	Sep-51

18	Oct-51	SOUTHERN CO	11.875	0.021505	0	0.0023	0.0192	Oct-51
18	Nov-51	SOUTHERN CO	11.875	0.016842	0.2	0.0021	0.0147	Nov-51
18	Dec-51	SOUTHERN CO	12.875	0.084211	0	0.0022	0.0820	Dec-51
18	Jan-52	SOUTHERN CO	13.5	0.064078	0.2	0.0023	0.0618	Jan-52
18	Feb-52	SOUTHERN CO	13.5	0	0	0.0021	-0.0021	Feb-52
18	Mar-52	SOUTHERN CO	13.875	0.027778	0	0.0023	0.0255	Mar-52
18	Apr-52	SOUTHERN CO	13.875	0.014414	0.2	0.0022	0.0122	Apr-52
18	May-52	SOUTHERN CO	13.625	-0.01802	0	0.0020	-0.0200	May-52
18	Jun-52	SOUTHERN CO	13.875	0.024655	0	0.0022	0.0225	Jun-52
18	Jul-52	SOUTHERN CO	14.375	0.05045	0.2	0.0022	0.0483	Jul-52
18	Aug-52	SOUTHERN CO	14.875	0.034783	0	0.0021	0.0327	Aug-52
18	Sep-52	SOUTHERN CO	15	0.008403	0	0.0023	0.0061	Sep-52
18	Oct-52	SOUTHERN CO	15.25	0.03	0.2	0.0023	0.0277	Oct-52
18	Nov-52	SOUTHERN CO	16.25	0.065574	0	0.0021	0.0635	Nov-52
18	Dec-52	SOUTHERN CO	16	-0.01539	0	0.0024	-0.0178	Dec-52
18	Jan-53	SOUTHERN CO	16	0.0125	0.2	0.0023	0.0102	Jan-53
18	Feb-53	SOUTHERN CO	15.875	-0.00781	0	0.0021	-0.0099	Feb-53
18	Mar-53	SOUTHERN CO	15.875	0	0	0.0025	-0.0025	Mar-53
18	Apr-53	SOUTHERN CO	14.625	-0.07449	0	0.0024	-0.0769	Apr-53
18	May-53	SOUTHERN CO	14.875	0.030769	0.2	0.0024	0.0284	May-53
18	Jun-53	SOUTHERN CO	14.25	-0.04202	0	0.0027	-0.0447	Jun-53
18	Jul-53	SOUTHERN CO	15	0.066667	0.2	0.0025	0.0642	Jul-53
18	Aug-53	SOUTHERN CO	14.125	-0.05833	0	0.0025	-0.0608	Aug-53
18	Sep-53	SOUTHERN CO	14.25	0.00885	0	0.0025	0.0064	Sep-53
18	Oct-53	SOUTHERN CO	14.625	0.040351	0.2	0.0023	0.0381	Oct-53
18	Nov-53	SOUTHERN CO	16	0.094017	0	0.0024	0.0916	Nov-53
18	Dec-53	SOUTHERN CO	16.125	0.007812	0	0.0024	0.0054	Dec-53
18	Jan-54	SOUTHERN CO	16.125	0.012403	0.2	0.0023	0.0101	Jan-54
18	Feb-54	SOUTHERN CO	16.25	0.007752	0	0.0022	0.0056	Feb-54
18	Mar-54	SOUTHERN CO	16.75	0.030769	0	0.0025	0.0283	Mar-54
18	Apr-54	SOUTHERN CO	16.875	0.019403	0.2	0.0022	0.0172	Apr-54
18	May-54	SOUTHERN CO	16.75	-0.00741	0	0.0020	-0.0094	May-54
18	Jun-54	SOUTHERN CO	16.875	0.007463	0	0.0025	0.0050	Jun-54
18	Jul-54	SOUTHERN CO	18.75	0.122963	0.2	0.0022	0.1208	Jul-54
18	Aug-54	SOUTHERN CO	17.5	-0.06667	0	0.0023	-0.0690	Aug-54
18	Sep-54	SOUTHERN CO	17.875	0.021429	0	0.0022	0.0192	Sep-54
18	Oct-54	SOUTHERN CO	17	-0.03776	0.2	0.0021	-0.0399	Oct-54
18	Nov-54	SOUTHERN CO	17.5	0.029412	0	0.0023	0.0271	Nov-54
18	Dec-54	SOUTHERN CO	18.125	0.035714	0	0.0023	0.0334	Dec-54

18	Jan-55	SOUTHERN CO	19.125	0.055172	0	0.0022	0.0530	Jan-55
18	Feb-55	SOUTHERN CO	20	0.057516	0.225	0.0022	0.0553	Feb-55
18	Mar-55	SOUTHERN CO	21	0.05	0	0.0024	0.0476	Mar-55
18	Apr-55	SOUTHERN CO	20.25	-0.025	0.225	0.0022	-0.0272	Apr-55
18	May-55	SOUTHERN CO	20.25	0	0	0.0025	-0.0025	May-55
18	Jun-55	SOUTHERN CO	19.5	-0.03704	0	0.0023	-0.0393	Jun-55
18	Jul-55	SOUTHERN CO	20.5	0.062821	0.225	0.0023	0.0605	Jul-55
18	Aug-55	SOUTHERN CO	20.25	-0.0122	0	0.0027	-0.0149	Aug-55
18	Sep-55	SOUTHERN CO	20.5	0.012346	0	0.0024	0.0099	Sep-55
18	Oct-55	SOUTHERN CO	18.875	-0.06829	0.225	0.0025	-0.0708	Oct-55
18	Nov-55	SOUTHERN CO	19.5	0.037785	0	0.0024	0.0354	Nov-55
18	Dec-55	SOUTHERN CO	20	0.025641	0	0.0024	0.0232	Dec-55
18	Jan-56	SOUTHERN CO	20.75	0.0375	0	0.0025	0.0350	Jan-56
18	Feb-56	SOUTHERN CO	21	0.024096	0.25	0.0023	0.0218	Feb-56
18	Mar-56	SOUTHERN CO	22.625	0.077381	0	0.0023	0.0751	Mar-56
18	Apr-56	SOUTHERN CO	22.375	-0.01105	0	0.0026	-0.0137	Apr-56
18	May-56	SOUTHERN CO	21.125	-0.04469	0.25	0.0026	-0.0473	May-56
18	Jun-56	SOUTHERN CO	21.25	0.005917	0	0.0023	0.0036	Jun-56
18	Jul-56	SOUTHERN CO	22.375	0.052941	0	0.0026	0.0503	Jul-56
18	Aug-56	SOUTHERN CO	21.25	-0.03911	0.25	0.0026	-0.0417	Aug-56
18	Sep-56	SOUTHERN CO	20.75	-0.02353	0	0.0025	-0.0260	Sep-56
18	Oct-56	SOUTHERN CO	20.75	0.012048	0.25	0.0029	0.0091	Oct-56
18	Nov-56	SOUTHERN CO	20.375	-0.01807	0	0.0027	-0.0208	Nov-56
18	Dec-56	SOUTHERN CO	20.5	0.006135	0	0.0028	0.0033	Dec-56
18	Jan-57	SOUTHERN CO	22.5	0.110976	0.275	0.0029	0.1081	Jan-57
18	Feb-57	SOUTHERN CO	21.75	-0.03333	0	0.0025	-0.0358	Feb-57
18	Mar-57	SOUTHERN CO	21.625	-0.00045	0	0.0026	-0.0031	Mar-57
18	Apr-57	SOUTHERN CO	23	0.063584	0	0.0029	0.0607	Apr-57
18	May-57	SOUTHERN CO	24.5	0.077174	0.275	0.0029	0.0743	May-57
18	Jun-57	SOUTHERN CO	24	-0.02041	0	0.0025	-0.0229	Jun-57
18	Jul-57	SOUTHERN CO	24.75	0.042708	0.275	0.0033	0.0394	Jul-57
18	Aug-57	SOUTHERN CO	23.25	-0.06061	0	0.0030	-0.0636	Aug-57
18	Sep-57	SOUTHERN CO	22.875	-0.01613	0	0.0031	-0.0192	Sep-57
18	Oct-57	SOUTHERN CO	22.75	-0.00546	0	0.0031	-0.0086	Oct-57
18	Nov-57	SOUTHERN CO	23.75	0.056044	0.275	0.0029	0.0531	Nov-57
18	Dec-57	SOUTHERN CO	25.125	0.057895	0	0.0029	0.0550	Dec-57
18	Jan-58	SOUTHERN CO	26.125	0.051741	0.3	0.0027	0.0490	Jan-58
18	Feb-58	SOUTHERN CO	26.875	0.028708	0	0.0025	0.0262	Feb-58
18	Mar-58	SOUTHERN CO	29.5	0.097674	0	0.0027	0.0950	Mar-58

18	Apr-58	SOUTHERN CO	28.875	-0.01102	0.3	0.0026	-0.0136	Apr-58
18	May-58	SOUTHERN CO	29.75	0.030303	0	0.0024	0.0279	May-58
18	Jun-58	SOUTHERN CO	31.375	0.054622	0	0.0027	0.0519	Jun-58
18	Jul-58	SOUTHERN CO	31.5	0.013546	0.3	0.0027	0.0108	Jul-58
18	Aug-58	SOUTHERN CO	30	-0.04762	0	0.0027	-0.0503	Aug-58
18	Sep-58	SOUTHERN CO	32.625	0.0875	0	0.0032	0.0843	Sep-58
18	Oct-58	SOUTHERN CO	34	0.042146	0	0.0032	0.0389	Oct-58
18	Nov-58	SOUTHERN CO	35.25	0.045588	0.3	0.0028	0.0428	Nov-58
18	Dec-58	SOUTHERN CO	37.375	0.060284	0	0.0033	0.0570	Dec-58
18	Jan-59	SOUTHERN CO	35	-0.05485	0.325	0.0031	-0.0579	Jan-59
18	Feb-59	SOUTHERN CO	34.625	-0.01071	0	0.0031	-0.0138	Feb-59
18	Mar-59	SOUTHERN CO	36.5	0.054152	0	0.0035	0.0507	Mar-59
18	Apr-59	SOUTHERN CO	39	0.077397	0.325	0.0033	0.0741	Apr-59
18	May-59	SOUTHERN CO	37.5	-0.03846	0	0.0033	-0.0418	May-59
18	Jun-59	SOUTHERN CO	37.125	-0.01	0	0.0036	-0.0136	Jun-59
18	Jul-59	SOUTHERN CO	40.25	0.092929	0.325	0.0035	0.0894	Jul-59
18	Aug-59	SOUTHERN CO	40.625	0.009317	0	0.0035	0.0058	Aug-59
18	Sep-59	SOUTHERN CO	37.75	-0.07077	0	0.0034	-0.0742	Sep-59
18	Oct-59	SOUTHERN CO	39	0.041722	0.325	0.0035	0.0382	Oct-59
18	Nov-59	SOUTHERN CO	40.125	0.028846	0	0.0035	0.0253	Nov-59
18	Dec-59	SOUTHERN CO	39.75	-0.00935	0	0.0036	-0.0129	Dec-59
18	Jan-60	SOUTHERN CO	40.625	0.030818	0.35	0.0035	0.0273	Jan-60
18	Feb-60	SOUTHERN CO	42.25	0.04	0	0.0037	0.0363	Feb-60
18	Mar-60	SOUTHERN CO	44.125	0.044379	0	0.0036	0.0408	Mar-60
18	Apr-60	SOUTHERN CO	45.25	0.033428	0.35	0.0032	0.0302	Apr-60
18	May-60	SOUTHERN CO	44.875	-0.00829	0	0.0037	-0.0120	May-60
18	Jun-60	SOUTHERN CO	48.5	0.08078	0	0.0034	0.0774	Jun-60
18	Jul-60	SOUTHERN CO	47.25	-0.01856	0.35	0.0032	-0.0218	Jul-60
18	Aug-60	SOUTHERN CO	50	0.058201	0	0.0034	0.0548	Aug-60
18	Sep-60	SOUTHERN CO	43.875	-0.1225	0	0.0032	-0.1257	Sep-60
18	Oct-60	SOUTHERN CO	44	0.002849	0	0.0033	-0.0005	Oct-60
18	Nov-60	SOUTHERN CO	45.75	0.047727	0.35	0.0032	0.0445	Nov-60
18	Dec-60	SOUTHERN CO	48	0.04918	0	0.0033	0.0459	Dec-60
18	Jan-61	SOUTHERN CO	50	0.041667	0	0.0033	0.0384	Jan-61
18	Feb-61	SOUTHERN CO	49.875	0.005	0.375	0.0030	0.0020	Feb-61
18	Mar-61	SOUTHERN CO	52.5	0.052632	0	0.0031	0.0495	Mar-61
18	Apr-61	SOUTHERN CO	57.75	0.107143	0.375	0.0031	0.1040	Apr-61
18	May-61	SOUTHERN CO	56.625	-0.01948	0	0.0034	-0.0229	May-61
18	Jun-61	SOUTHERN CO	53	-0.06402	0	0.0032	-0.0672	Jun-61

18	Jul-61	SOUTHERN CO		59	0.113208	0	0.0033	0.1099	Jul-61
18	Aug-61	SOUTHERN CO		57.125	-0.02542	0.375	0.0033	-0.0287	Aug-61
18	Sep-61	SOUTHERN CO		58	0.015317	0	0.0032	0.0121	Sep-61
18	Oct-61	SOUTHERN CO		59.75	0.030172	0	0.0034	0.0268	Oct-61
18	Nov-61	SOUTHERN CO		58	-0.02301	0.375	0.0032	-0.0262	Nov-61
18	Dec-61	SOUTHERN CO		54.875	-0.05388	0	0.0031	-0.0570	Dec-61
18	Jan-62	SOUTHERN CO		56.25	0.031891	0.375	0.0037	0.0282	Jan-62
18	Feb-62	SOUTHERN CO		55	-0.02222	0	0.0032	-0.0254	Feb-62
18	Mar-62	SOUTHERN CO		55.125	0.002273	0	0.0033	-0.0010	Mar-62
18	Apr-62	SOUTHERN CO		54.5	-0.01134	0	0.0033	-0.0146	Apr-62
18	May-62	SOUTHERN CO		45.5	-0.15826	0.375	0.0032	-0.1615	May-62
18	Jun-62	SOUTHERN CO		41.625	-0.08517	0	0.0030	-0.0882	Jun-62
18	Jul-62	SOUTHERN CO	SO	48.5	0.165165	0	0.0034	0.1618	Jul-62
18	Aug-62	SOUTHERN CO	SO	49.5	0.028351	0.375	0.0034	0.0250	Aug-62
18	Sep-62	SOUTHERN CO	SO	45.75	-0.07576	0	0.0030	-0.0788	Sep-62
18	Oct-62	SOUTHERN CO	SO	47.375	0.044262	0.4	0.0035	0.0408	Oct-62
18	Nov-62	SOUTHERN CO	SO	51.75	0.092348	0	0.0031	0.0892	Nov-62
18	Dec-62	SOUTHERN CO	SO	51.625	-0.00242	0	0.0032	-0.0056	Dec-62
18	Jan-63	SOUTHERN CO	SO	54.625	0.06586	0.4	0.0032	0.0627	Jan-63
18	Feb-63	SOUTHERN CO	SO	55.125	0.009153	0	0.0029	0.0063	Feb-63
18	Mar-63	SOUTHERN CO	SO	54.625	-0.00907	0	0.0031	-0.0122	Mar-63
18	Apr-63	SOUTHERN CO	SO	55.875	0.022883	0	0.0034	0.0195	Apr-63
18	May-63	SOUTHERN CO	SO	54.125	-0.02416	0.4	0.0033	-0.0275	May-63
18	Jun-63	SOUTHERN CO	SO	53.5	-0.01155	0	0.0030	-0.0145	Jun-63
18	Jul-63	SOUTHERN CO	SO	55.875	0.051869	0.4	0.0036	0.0483	Jul-63
18	Aug-63	SOUTHERN CO	SO	55.625	-0.00447	0	0.0033	-0.0078	Aug-63
18	Sep-63	SOUTHERN CO	SO	53.5	-0.0382	0	0.0034	-0.0416	Sep-63
18	Oct-63	SOUTHERN CO	SO	52.75	-0.00608	0.425	0.0034	-0.0095	Oct-63
18	Nov-63	SOUTHERN CO	SO	51.75	-0.01896	0	0.0032	-0.0222	Nov-63
18	Dec-63	SOUTHERN CO	SO	54.875	0.060386	0	0.0036	0.0568	Dec-63
18	Jan-64	SOUTHERN CO	SO	55.875	0.025968	0.425	0.0035	0.0225	Jan-64
18	Feb-64	SOUTHERN CO	SO	54.625	-0.02237	0	0.0032	-0.0256	Feb-64
18	Mar-64	SOUTHERN CO	SO	54.75	0.002288	0	0.0037	-0.0014	Mar-64
18	Apr-64	SOUTHERN CO	SO	56.5	0.039726	0.425	0.0035	0.0362	Apr-64
18	May-64	SOUTHERN CO	SO	59.25	0.048673	0	0.0032	0.0455	May-64
18	Jun-64	SOUTHERN CO	SO	61.25	0.033755	0	0.0038	0.0300	Jun-64
18	Jul-64	SOUTHERN CO	SO	64.25	0.055918	0.425	0.0035	0.0524	Jul-64
18	Aug-64	SOUTHERN CO	SO	61.5	-0.0428	0	0.0035	-0.0463	Aug-64
18	Sep-64	SOUTHERN CO	SO	64.5	0.04878	0	0.0034	0.0454	Sep-64

18	Oct-64	SOUTHERN CO	SO	64.5	0.006977	0.45	0.0034	0.0036	Oct-64
18	Nov-64	SOUTHERN CO	SO	64.75	0.003876	0	0.0035	0.0004	Nov-64
18	Dec-64	SOUTHERN CO	SO	65.625	0.013514	0	0.0035	0.0100	Dec-64
18	Jan-65	SOUTHERN CO	SO	67.875	0.041143	0.45	0.0033	0.0378	Jan-65
18	Feb-65	SOUTHERN CO	SO	70.25	0.034991	0	0.0032	0.0318	Feb-65
18	Mar-65	SOUTHERN CO	SO	69.75	-0.00712	0	0.0038	-0.0109	Mar-65
18	Apr-65	SOUTHERN CO	SO	69.875	0.008244	0.45	0.0033	0.0049	Apr-65
18	May-65	SOUTHERN CO	SO	67.75	-0.03041	0	0.0033	-0.0337	May-65
18	Jun-65	SOUTHERN CO	SO	65.125	-0.03875	0	0.0038	-0.0425	Jun-65
18	Jul-65	SOUTHERN CO	SO	65.25	0.008829	0.45	0.0034	0.0054	Jul-65
18	Aug-65	SOUTHERN CO	SO	64.75	-0.00766	0	0.0037	-0.0114	Aug-65
18	Sep-65	SOUTHERN CO	SO	69.75	0.07722	0	0.0035	0.0737	Sep-65
18	Oct-65	SOUTHERN CO	SO	70.5	0.017634	0.48	0.0034	0.0142	Oct-65
18	Nov-65	SOUTHERN CO	SO	69.5	-0.01418	0	0.0037	-0.0179	Nov-65
18	Dec-65	SOUTHERN CO	SO	66.75	-0.03957	0	0.0037	-0.0433	Dec-65
18	Jan-66	SOUTHERN CO	SO	33.875	0.014981	0	0.0038	0.0112	Jan-66
18	Feb-66	SOUTHERN CO	SO	29.75	-0.11469	0.24	0.0034	-0.1181	Feb-66
18	Mar-66	SOUTHERN CO	SO	30	0.008403	0	0.0040	0.0044	Mar-66
18	Apr-66	SOUTHERN CO	SO	31.375	0.053833	0.24	0.0036	0.0502	Apr-66
18	May-66	SOUTHERN CO	SO	31.25	-0.00398	0	0.0041	-0.0081	May-66
18	Jun-66	SOUTHERN CO	SO	30.75	-0.016	0	0.0039	-0.0199	Jun-66
18	Jul-66	SOUTHERN CO	SO	27.875	-0.08569	0.24	0.0038	-0.0895	Jul-66
18	Aug-66	SOUTHERN CO	SO	24.5	-0.12108	0	0.0043	-0.1254	Aug-66
18	Sep-66	SOUTHERN CO	SO	26.25	0.071429	0	0.0041	0.0673	Sep-66
18	Oct-66	SOUTHERN CO	SO	30.875	0.17619	0	0.0040	0.1722	Oct-66
18	Nov-66	SOUTHERN CO	SO	28.25	-0.07676	0.255	0.0038	-0.0806	Nov-66
18	Dec-66	SOUTHERN CO	SO	28.875	0.022124	0	0.0039	0.0182	Dec-66
18	Jan-67	SOUTHERN CO	SO	28.5	-0.01299	0	0.0040	-0.0170	Jan-67
18	Feb-67	SOUTHERN CO	SO	29	0.026491	0.255	0.0034	0.0231	Feb-67
18	Mar-67	SOUTHERN CO	SO	27.75	-0.0431	0	0.0039	-0.0470	Mar-67
18	Apr-67	SOUTHERN CO	SO	30.125	0.085586	0	0.0035	0.0821	Apr-67
18	May-67	SOUTHERN CO	SO	27.5	-0.07867	0.255	0.0043	-0.0830	May-67
18	Jun-67	SOUTHERN CO	SO	26.75	-0.02727	0	0.0039	-0.0312	Jun-67
18	Jul-67	SOUTHERN CO	SO	26.625	-0.00467	0	0.0043	-0.0090	Jul-67
18	Aug-67	SOUTHERN CO	SO	25.25	-0.04207	0.255	0.0042	-0.0463	Aug-67
18	Sep-67	SOUTHERN CO	SO	25.25	0	0	0.0040	-0.0040	Sep-67
18	Oct-67	SOUTHERN CO	SO	24.25	-0.0396	0	0.0045	-0.0441	Oct-67
18	Nov-67	SOUTHERN CO	SO	27	0.124536	0.27	0.0045	0.1200	Nov-67
18	Dec-67	SOUTHERN CO	SO	28.375	0.050926	0	0.0044	0.0465	Dec-67

18	Jan-68	SOUTHERN CO	SO	27.375	-0.02573	0.27	0.0050	-0.0307	Jan-68
18	Feb-68	SOUTHERN CO	SO	26	-0.05023	0	0.0042	-0.0544	Feb-68
18	Mar-68	SOUTHERN CO	SO	24.625	-0.05289	0	0.0043	-0.0572	Mar-68
18	Apr-68	SOUTHERN CO	SO	26	0.066802	0.27	0.0049	0.0619	Apr-68
18	May-68	SOUTHERN CO	SO	26.625	0.024038	0	0.0046	0.0194	May-68
18	Jun-68	SOUTHERN CO	SO	28	0.051643	0	0.0042	0.0474	Jun-68
18	Jul-68	SOUTHERN CO	SO	28.25	0.018571	0.27	0.0048	0.0138	Jul-68
18	Aug-68	SOUTHERN CO	SO	26.75	-0.0531	0	0.0042	-0.0573	Aug-68
18	Sep-68	SOUTHERN CO	SO	28.125	0.051402	0	0.0044	0.0470	Sep-68
18	Oct-68	SOUTHERN CO	SO	26	-0.06542	0.285	0.0045	-0.0699	Oct-68
18	Nov-68	SOUTHERN CO	SO	29	0.115385	0	0.0043	0.1111	Nov-68
18	Dec-68	SOUTHERN CO	SO	28.375	-0.02155	0	0.0049	-0.0265	Dec-68
18	Jan-69	SOUTHERN CO	SO	28.125	0.001233	0.285	0.0050	-0.0038	Jan-69
18	Feb-69	SOUTHERN CO	SO	25.875	-0.08	0	0.0046	-0.0846	Feb-69
18	Mar-69	SOUTHERN CO	SO	26.75	0.033816	0	0.0047	0.0291	Mar-69
18	Apr-69	SOUTHERN CO	SO	28.25	0.066729	0.285	0.0055	0.0612	Apr-69
18	May-69	SOUTHERN CO	SO	28.875	0.022124	0	0.0047	0.0174	May-69
18	Jun-69	SOUTHERN CO	SO	27	-0.06494	0	0.0055	-0.0704	Jun-69
18	Jul-69	SOUTHERN CO	SO	26.75	0.001296	0.285	0.0052	-0.0039	Jul-69
18	Aug-69	SOUTHERN CO	SO	25.125	-0.06075	0	0.0048	-0.0655	Aug-69
18	Sep-69	SOUTHERN CO	SO	24.25	-0.03483	0	0.0055	-0.0403	Sep-69
18	Oct-69	SOUTHERN CO	SO	27.25	0.136082	0.3	0.0057	0.1304	Oct-69
18	Nov-69	SOUTHERN CO	SO	25.875	-0.05046	0	0.0049	-0.0554	Nov-69
18	Dec-69	SOUTHERN CO	SO	25.5	-0.01449	0	0.0060	-0.0205	Dec-69
18	Jan-70	SOUTHERN CO	SO	24.625	-0.02255	0.3	0.0056	-0.0281	Jan-70
18	Feb-70	SOUTHERN CO	SO	26.625	0.081218	0	0.0052	0.0760	Feb-70
18	Mar-70	SOUTHERN CO	SO	27.375	0.028169	0	0.0056	0.0226	Mar-70
18	Apr-70	SOUTHERN CO	SO	23	-0.14886	0.3	0.0054	-0.1543	Apr-70
18	May-70	SOUTHERN CO	SO	21.375	-0.07065	0	0.0055	-0.0762	May-70
18	Jun-70	SOUTHERN CO	SO	19.25	-0.09942	0	0.0064	-0.1058	Jun-70
18	Jul-70	SOUTHERN CO	SO	20.625	0.087013	0.3	0.0059	0.0811	Jul-70
18	Aug-70	SOUTHERN CO	SO	23.125	0.121212	0	0.0057	0.1155	Aug-70
18	Sep-70	SOUTHERN CO	SO	21.625	-0.06487	0	0.0056	-0.0705	Sep-70
18	Oct-70	SOUTHERN CO	SO	21.375	0.003006	0.315	0.0055	-0.0025	Oct-70
18	Nov-70	SOUTHERN CO	SO	23.875	0.116959	0	0.0058	0.1112	Nov-70
18	Dec-70	SOUTHERN CO	SO	26.25	0.099476	0	0.0053	0.0942	Dec-70
18	Jan-71	SOUTHERN CO	SO	26.875	0.03581	0.315	0.0051	0.0307	Jan-71
18	Feb-71	SOUTHERN CO	SO	25.375	-0.05581	0	0.0046	-0.0604	Feb-71
18	Mar-71	SOUTHERN CO	SO	26.125	0.029557	0	0.0056	0.0240	Mar-71

18	Apr-71	SOUTHERN CO	SO	23.25	-0.09799	0.315	0.0048	-0.1028	Apr-71
18	May-71	SOUTHERN CO	SO	21.875	-0.05914	0	0.0047	-0.0638	May-71
18	Jun-71	SOUTHERN CO	SO	24	0.097143	0	0.0056	0.0915	Jun-71
18	Jul-71	SOUTHERN CO	SO	21.75	-0.08063	0.315	0.0052	-0.0858	Jul-71
18	Aug-71	SOUTHERN CO	SO	20	-0.08046	0	0.0055	-0.0860	Aug-71
18	Sep-71	SOUTHERN CO	SO	20.125	0.00625	0	0.0049	0.0014	Sep-71
18	Oct-71	SOUTHERN CO	SO	21	0.05913	0.315	0.0047	0.0544	Oct-71
18	Nov-71	SOUTHERN CO	SO	19.625	-0.06548	0	0.0051	-0.0706	Nov-71
18	Dec-71	SOUTHERN CO	SO	22	0.121019	0	0.0050	0.1160	Dec-71
18	Jan-72	SOUTHERN CO	SO	21.75	-0.01136	0	0.0050	-0.0164	Jan-72
18	Feb-72	SOUTHERN CO	SO	21	-0.01954	0.325	0.0047	-0.0242	Feb-72
18	Mar-72	SOUTHERN CO	SO	20.75	-0.01191	0	0.0049	-0.0168	Mar-72
18	Apr-72	SOUTHERN CO	SO	19.75	-0.04819	0	0.0048	-0.0530	Apr-72
18	May-72	SOUTHERN CO	SO	20.125	0.035443	0.325	0.0055	0.0299	May-72
18	Jun-72	SOUTHERN CO	SO	19	-0.0559	0	0.0049	-0.0608	Jun-72
18	Jul-72	SOUTHERN CO	SO	19.375	0.019737	0	0.0051	0.0146	Jul-72
18	Aug-72	SOUTHERN CO	SO	19.375	0.016774	0.325	0.0049	0.0119	Aug-72
18	Sep-72	SOUTHERN CO	SO	19.125	-0.0129	0	0.0047	-0.0176	Sep-72
18	Oct-72	SOUTHERN CO	SO	20.125	0.069281	0.325	0.0052	0.0641	Oct-72
18	Nov-72	SOUTHERN CO	SO	21.875	0.086957	0	0.0048	0.0822	Nov-72
18	Dec-72	SOUTHERN CO	SO	20.125	-0.08	0	0.0045	-0.0845	Dec-72
18	Jan-73	SOUTHERN CO	SO	19.75	-0.00199	0.335	0.0054	-0.0074	Jan-73
18	Feb-73	SOUTHERN CO	SO	19.375	-0.01899	0	0.0051	-0.0241	Feb-73
18	Mar-73	SOUTHERN CO	SO	19.125	-0.0129	0	0.0056	-0.0185	Mar-73
18	Apr-73	SOUTHERN CO	SO	18.875	-0.01307	0	0.0057	-0.0188	Apr-73
18	May-73	SOUTHERN CO	SO	18.375	-0.00874	0.335	0.0058	-0.0145	May-73
18	Jun-73	SOUTHERN CO	SO	18.5	0.006803	0	0.0055	0.0013	Jun-73
18	Jul-73	SOUTHERN CO	SO	18	-0.00892	0.335	0.0061	-0.0150	Jul-73
18	Aug-73	SOUTHERN CO	SO	17.75	-0.01389	0	0.0062	-0.0201	Aug-73
18	Sep-73	SOUTHERN CO	SO	18.25	0.028169	0	0.0055	0.0227	Sep-73
18	Oct-73	SOUTHERN CO	SO	16.75	-0.06384	0.335	0.0063	-0.0701	Oct-73
18	Nov-73	SOUTHERN CO	SO	15.375	-0.08209	0	0.0056	-0.0877	Nov-73
18	Dec-73	SOUTHERN CO	SO	16	0.04065	0	0.0060	0.0347	Dec-73
18	Jan-74	SOUTHERN CO	SO	16.625	0.060625	0.345	0.0061	0.0545	Jan-74
18	Feb-74	SOUTHERN CO	SO	16.625	0	0	0.0055	-0.0055	Feb-74
18	Mar-74	SOUTHERN CO	SO	16.375	-0.01504	0	0.0058	-0.0208	Mar-74
18	Apr-74	SOUTHERN CO	SO	15	-0.0626	0.35	0.0068	-0.0694	Apr-74
18	May-74	SOUTHERN CO	SO	14.125	-0.05833	0	0.0068	-0.0651	May-74
18	Jun-74	SOUTHERN CO	SO	13.125	-0.0708	0	0.0061	-0.0769	Jun-74

18	Jul-74	SOUTHERN CO	SO	11.375	-0.10667	0.35	0.0072	-0.1139	Jul-74
18	Aug-74	SOUTHERN CO	SO	9.375	-0.17582	0	0.0065	-0.1823	Aug-74
18	Sep-74	SOUTHERN CO	SO	10	0.066667	0	0.0071	0.0596	Sep-74
18	Oct-74	SOUTHERN CO	SO	10.375	0.0725	0.35	0.0070	0.0655	Oct-74
18	Nov-74	SOUTHERN CO	SO	9.75	-0.06024	0	0.0062	-0.0664	Nov-74
18	Dec-74	SOUTHERN CO	SO	8.625	-0.11539	0	0.0067	-0.1221	Dec-74
18	Jan-75	SOUTHERN CO	SO	10.25	0.228986	0.35	0.0068	0.2222	Jan-75
18	Feb-75	SOUTHERN CO	SO	10.125	-0.0122	0	0.0060	-0.0182	Feb-75
18	Mar-75	SOUTHERN CO	SO	9.875	-0.02469	0	0.0066	-0.0313	Mar-75
18	Apr-75	SOUTHERN CO	SO	10.125	0.060759	0.35	0.0067	0.0541	Apr-75
18	May-75	SOUTHERN CO	SO	10.875	0.074074	0	0.0067	0.0674	May-75
18	Jun-75	SOUTHERN CO	SO	13.125	0.206897	0	0.0070	0.1999	Jun-75
18	Jul-75	SOUTHERN CO	SO	12.625	-0.01143	0.35	0.0068	-0.0182	Jul-75
18	Aug-75	SOUTHERN CO	SO	12.625	0	0	0.0065	-0.0065	Aug-75
18	Sep-75	SOUTHERN CO	SO	12.75	0.009901	0	0.0073	0.0026	Sep-75
18	Oct-75	SOUTHERN CO	SO	13.875	0.115686	0.35	0.0072	0.1085	Oct-75
18	Nov-75	SOUTHERN CO	SO	14.625	0.054054	0	0.0061	0.0480	Nov-75
18	Dec-75	SOUTHERN CO	SO	14.75	0.008547	0	0.0074	0.0011	Dec-75
18	Jan-76	SOUTHERN CO	SO	15.375	0.066102	0.35	0.0065	0.0596	Jan-76
18	Feb-76	SOUTHERN CO	SO	14.5	-0.05691	0	0.0060	-0.0629	Feb-76
18	Mar-76	SOUTHERN CO	SO	15	0.034483	0	0.0071	0.0274	Mar-76
18	Apr-76	SOUTHERN CO	SO	14.875	0.015	0.35	0.0064	0.0086	Apr-76
18	May-76	SOUTHERN CO	SO	14.375	-0.03361	0	0.0059	-0.0395	May-76
18	Jun-76	SOUTHERN CO	SO	14.375	0	0	0.0073	-0.0073	Jun-76
18	Jul-76	SOUTHERN CO	SO	14.75	0.050435	0.35	0.0065	0.0439	Jul-76
18	Aug-76	SOUTHERN CO	SO	15	0.016949	0	0.0069	0.0100	Aug-76
18	Sep-76	SOUTHERN CO	SO	15.375	0.025	0	0.0064	0.0186	Sep-76
18	Oct-76	SOUTHERN CO	SO	15.375	0.02374	0.365	0.0061	0.0176	Oct-76
18	Nov-76	SOUTHERN CO	SO	15.5	0.00813	0	0.0066	0.0015	Nov-76
18	Dec-76	SOUTHERN CO	SO	16.375	0.056452	0	0.0063	0.0502	Dec-76
18	Jan-77	SOUTHERN CO	SO	16.875	0.030534	0	0.0059	0.0246	Jan-77
18	Feb-77	SOUTHERN CO	SO	16	-0.03022	0.365	0.0057	-0.0359	Feb-77
18	Mar-77	SOUTHERN CO	SO	16.5	0.03125	0	0.0065	0.0248	Mar-77
18	Apr-77	SOUTHERN CO	SO	15.875	-0.01576	0.365	0.0061	-0.0219	Apr-77
18	May-77	SOUTHERN CO	SO	16.25	0.023622	0	0.0067	0.0169	May-77
18	Jun-77	SOUTHERN CO	SO	17.25	0.061538	0	0.0062	0.0553	Jun-77
18	Jul-77	SOUTHERN CO	SO	17.125	0.013913	0.365	0.0059	0.0080	Jul-77
18	Aug-77	SOUTHERN CO	SO	16.75	-0.0219	0	0.0067	-0.0286	Aug-77
18	Sep-77	SOUTHERN CO	SO	17.75	0.059701	0	0.0061	0.0536	Sep-77

18	Oct-77	SOUTHERN CO	SO	17.5	-0.01409	0	0.0063	-0.0204	Oct-77
18	Nov-77	SOUTHERN CO	SO	17.625	0.029143	0.385	0.0063	0.0228	Nov-77
18	Dec-77	SOUTHERN CO	SO	17.75	0.007092	0	0.0062	0.0009	Dec-77
18	Jan-78	SOUTHERN CO	SO	17	-0.02056	0.385	0.0069	-0.0275	Jan-78
18	Feb-78	SOUTHERN CO	SO	16.5	-0.02941	0	0.0060	-0.0354	Feb-78
18	Mar-78	SOUTHERN CO	SO	16.875	0.022727	0	0.0069	0.0158	Mar-78
18	Apr-78	SOUTHERN CO	SO	16.375	-0.00682	0.385	0.0063	-0.0131	Apr-78
18	May-78	SOUTHERN CO	SO	16.125	-0.01527	0	0.0075	-0.0228	May-78
18	Jun-78	SOUTHERN CO	SO	16.125	0	0	0.0069	-0.0069	Jun-78
18	Jul-78	SOUTHERN CO	SO	16.375	0.015504	0	0.0073	0.0082	Jul-78
18	Aug-78	SOUTHERN CO	SO	15.625	-0.02229	0.385	0.0070	-0.0293	Aug-78
18	Sep-78	SOUTHERN CO	SO	15.125	-0.032	0	0.0065	-0.0385	Sep-78
18	Oct-78	SOUTHERN CO	SO	14	-0.04893	0.385	0.0073	-0.0562	Oct-78
18	Nov-78	SOUTHERN CO	SO	14.375	0.026786	0	0.0071	0.0197	Nov-78
18	Dec-78	SOUTHERN CO	SO	13.375	-0.06957	0	0.0068	-0.0764	Dec-78
18	Jan-79	SOUTHERN CO	SO	14.25	0.094206	0.385	0.0079	0.0863	Jan-79
18	Feb-79	SOUTHERN CO	SO	13.625	-0.04386	0	0.0065	-0.0504	Feb-79
18	Mar-79	SOUTHERN CO	SO	13.75	0.009174	0	0.0074	0.0018	Mar-79
18	Apr-79	SOUTHERN CO	SO	13.375	-0.02727	0	0.0076	-0.0349	Apr-79
18	May-79	SOUTHERN CO	SO	12.5	-0.03664	0.385	0.0077	-0.0443	May-79
18	Jun-79	SOUTHERN CO	SO	13.25	0.06	0	0.0071	0.0529	Jun-79
18	Jul-79	SOUTHERN CO	SO	12.875	0.000755	0.385	0.0076	-0.0068	Jul-79
18	Aug-79	SOUTHERN CO	SO	12.75	-0.00971	0	0.0073	-0.0170	Aug-79
18	Sep-79	SOUTHERN CO	SO	12.375	-0.02941	0	0.0068	-0.0362	Sep-79
18	Oct-79	SOUTHERN CO	SO	11.875	-0.00929	0.385	0.0082	-0.0175	Oct-79
18	Nov-79	SOUTHERN CO	SO	12	0.010526	0	0.0083	0.0022	Nov-79
18	Dec-79	SOUTHERN CO	SO	11.5	-0.04167	0	0.0083	-0.0500	Dec-79
18	Jan-80	SOUTHERN CO	SO	11.25	0.011739	0.385	0.0083	0.0034	Jan-80
18	Feb-80	SOUTHERN CO	SO	11.25	0	0	0.0084	-0.0084	Feb-80
18	Mar-80	SOUTHERN CO	SO	10.625	-0.05556	0	0.0099	-0.0655	Mar-80
18	Apr-80	SOUTHERN CO	SO	12.125	0.177412	0.385	0.0100	0.1674	Apr-80
18	May-80	SOUTHERN CO	SO	12.75	0.051546	0	0.0087	0.0428	May-80
18	Jun-80	SOUTHERN CO	SO	13.625	0.068627	0	0.0086	0.0600	Jun-80
18	Jul-80	SOUTHERN CO	SO	12.5	-0.05431	0.385	0.0084	-0.0627	Jul-80
18	Aug-80	SOUTHERN CO	SO	12.125	-0.03	0	0.0081	-0.0381	Aug-80
18	Sep-80	SOUTHERN CO	SO	12	-0.01031	0	0.0097	-0.0200	Sep-80
18	Oct-80	SOUTHERN CO	SO	11.875	0.023333	0.405	0.0097	0.0136	Oct-80
18	Nov-80	SOUTHERN CO	SO	11.125	-0.06316	0	0.0091	-0.0723	Nov-80
18	Dec-80	SOUTHERN CO	SO	12.25	0.101124	0	0.0108	0.0903	Dec-80

18	Jan-81	SOUTHERN CO	SO	11.625	-0.01796	0.405	0.0094	-0.0274	Jan-81
18	Feb-81	SOUTHERN CO	SO	11.625	0	0	0.0088	-0.0088	Feb-81
18	Mar-81	SOUTHERN CO	SO	12.125	0.043011	0	0.0111	0.0319	Mar-81
18	Apr-81	SOUTHERN CO	SO	11.375	-0.02845	0.405	0.0101	-0.0386	Apr-81
18	May-81	SOUTHERN CO	SO	11.625	0.021978	0	0.0104	0.0116	May-81
18	Jun-81	SOUTHERN CO	SO	12	0.032258	0	0.0109	0.0214	Jun-81
18	Jul-81	SOUTHERN CO	SO	11.875	0.023333	0.405	0.0109	0.0124	Jul-81
18	Aug-81	SOUTHERN CO	SO	11.875	0	0	0.0110	-0.0110	Aug-81
18	Sep-81	SOUTHERN CO	SO	11.5	-0.03158	0	0.0114	-0.0430	Sep-81
18	Oct-81	SOUTHERN CO	SO	11.75	0.056957	0.405	0.0117	0.0453	Oct-81
18	Nov-81	SOUTHERN CO	SO	12.875	0.095745	0	0.0113	0.0844	Nov-81
18	Dec-81	SOUTHERN CO	SO	12	-0.06796	0	0.0100	-0.0780	Dec-81
18	Jan-82	SOUTHERN CO	SO	12.125	0.044167	0.405	0.0108	0.0334	Jan-82
18	Feb-82	SOUTHERN CO	SO	12.125	0	0	0.0103	-0.0103	Feb-82
18	Mar-82	SOUTHERN CO	SO	13.125	0.082474	0	0.0124	0.0701	Mar-82
18	Apr-82	SOUTHERN CO	SO	12.875	0.01181	0.405	0.0112	0.0006	Apr-82
18	May-82	SOUTHERN CO	SO	12.5	-0.02913	0	0.0101	-0.0392	May-82
18	Jun-82	SOUTHERN CO	SO	12.5	0	0	0.0120	-0.0120	Jun-82
18	Jul-82	SOUTHERN CO	SO	12.875	0.064	0.425	0.0114	0.0526	Jul-82
18	Aug-82	SOUTHERN CO	SO	14.5	0.126214	0	0.0112	0.1150	Aug-82
18	Sep-82	SOUTHERN CO	SO	14.625	0.008621	0	0.0100	-0.0014	Sep-82
18	Oct-82	SOUTHERN CO	SO	14.875	0.046154	0.425	0.0091	0.0371	Oct-82
18	Nov-82	SOUTHERN CO	SO	15.125	0.016807	0	0.0094	0.0074	Nov-82
18	Dec-82	SOUTHERN CO	SO	15.625	0.033058	0	0.0093	0.0238	Dec-82
18	Jan-83	SOUTHERN CO	SO	16	0.024	0	0.0087	0.0153	Jan-83
18	Feb-83	SOUTHERN CO	SO	16	0.026563	0.425	0.0081	0.0185	Feb-83
18	Mar-83	SOUTHERN CO	SO	15.625	-0.02344	0	0.0089	-0.0323	Mar-83
18	Apr-83	SOUTHERN CO	SO	16	0.0512	0.425	0.0085	0.0427	Apr-83
18	May-83	SOUTHERN CO	SO	15.75	-0.01563	0	0.0091	-0.0247	May-83
18	Jun-83	SOUTHERN CO	SO	15.625	-0.00794	0	0.0090	-0.0169	Jun-83
18	Jul-83	SOUTHERN CO	SO	14.75	-0.0288	0.425	0.0088	-0.0376	Jul-83
18	Aug-83	SOUTHERN CO	SO	15.375	0.042373	0	0.0103	0.0321	Aug-83
18	Sep-83	SOUTHERN CO	SO	16.625	0.081301	0	0.0096	0.0717	Sep-83
18	Oct-83	SOUTHERN CO	SO	17.25	0.037594	0	0.0095	0.0281	Oct-83
18	Nov-83	SOUTHERN CO	SO	17	0.011594	0.45	0.0094	0.0022	Nov-83
18	Dec-83	SOUTHERN CO	SO	16.375	-0.03677	0	0.0094	-0.0462	Dec-83
18	Jan-84	SOUTHERN CO	SO	15.875	-0.00305	0.45	0.0103	-0.0134	Jan-84
18	Feb-84	SOUTHERN CO	SO	15	-0.05512	0	0.0092	-0.0643	Feb-84
18	Mar-84	SOUTHERN CO	SO	15.375	0.025	0	0.0098	0.0152	Mar-84

18	Apr-84	SOUTHERN CO	SO	15.5	0.00813	0	0.0104	-0.0023	Apr-84
18	May-84	SOUTHERN CO	SO	14.5	-0.03548	0.45	0.0103	-0.0458	May-84
18	Jun-84	SOUTHERN CO	SO	14.875	0.025862	0	0.0106	0.0153	Jun-84
18	Jul-84	SOUTHERN CO	SO	15	0.038655	0.45	0.0116	0.0271	Jul-84
18	Aug-84	SOUTHERN CO	SO	16.25	0.083333	0	0.0106	0.0727	Aug-84
18	Sep-84	SOUTHERN CO	SO	17.25	0.061538	0	0.0094	0.0521	Sep-84
18	Oct-84	SOUTHERN CO	SO	17.625	0.049565	0.48	0.0108	0.0388	Oct-84
18	Nov-84	SOUTHERN CO	SO	18.125	0.028369	0	0.0091	0.0193	Nov-84
18	Dec-84	SOUTHERN CO	SO	18.875	0.041379	0	0.0098	0.0316	Dec-84
18	Jan-85	SOUTHERN CO	SO	18.125	-0.01431	0.48	0.0096	-0.0239	Jan-85
18	Feb-85	SOUTHERN CO	SO	18.5	0.02069	0	0.0082	0.0125	Feb-85
18	Mar-85	SOUTHERN CO	SO	20	0.081081	0	0.0094	0.0717	Mar-85
18	Apr-85	SOUTHERN CO	SO	19.625	0.00525	0.48	0.0102	-0.0050	Apr-85
18	May-85	SOUTHERN CO	SO	20.75	0.057325	0	0.0097	0.0476	May-85
18	Jun-85	SOUTHERN CO	SO	22.125	0.066265	0	0.0080	0.0583	Jun-85
18	Jul-85	SOUTHERN CO	SO	20.75	-0.04045	0.48	0.0094	-0.0499	Jul-85
18	Aug-85	SOUTHERN CO	SO	20.5	-0.01205	0	0.0085	-0.0205	Aug-85
18	Sep-85	SOUTHERN CO	SO	19.5	-0.04878	0	0.0088	-0.0576	Sep-85
18	Oct-85	SOUTHERN CO	SO	20.375	0.071026	0.51	0.0089	0.0621	Oct-85
18	Nov-85	SOUTHERN CO	SO	21.625	0.06135	0	0.0081	0.0533	Nov-85
18	Dec-85	SOUTHERN CO	SO	22.25	0.028902	0	0.0086	0.0203	Dec-85
18	Jan-86	SOUTHERN CO	SO	22	0.011685	0.51	0.0079	0.0038	Jan-86
18	Feb-86	SOUTHERN CO	SO	23.125	0.051136	0	0.0073	0.0438	Feb-86
18	Mar-86	SOUTHERN CO	SO	24.5	0.059459	0	0.0071	0.0524	Mar-86
18	Apr-86	SOUTHERN CO	SO	22.5	-0.06082	0.51	0.0063	-0.0671	Apr-86
18	May-86	SOUTHERN CO	SO	22.125	-0.01667	0	0.0062	-0.0229	May-86
18	Jun-86	SOUTHERN CO	SO	23.75	0.073446	0	0.0070	0.0664	Jun-86
18	Jul-86	SOUTHERN CO	SO	24.625	0.058316	0.51	0.0066	0.0517	Jul-86
18	Aug-86	SOUTHERN CO	SO	27	0.096447	0	0.0063	0.0901	Aug-86
18	Sep-86	SOUTHERN CO	SO	24.125	-0.10648	0	0.0065	-0.1130	Sep-86
18	Oct-86	SOUTHERN CO	SO	25.625	0.084352	0.535	0.0069	0.0775	Oct-86
18	Nov-86	SOUTHERN CO	SO	26.25	0.02439	0	0.0059	0.0185	Nov-86
18	Dec-86	SOUTHERN CO	SO	25.375	-0.03333	0	0.0070	-0.0403	Dec-86
18	Jan-87	SOUTHERN CO	SO	27.75	0.11468	0.535	0.0064	0.1083	Jan-87
18	Feb-87	SOUTHERN CO	SO	27.25	-0.01802	0	0.0059	-0.0239	Feb-87
18	Mar-87	SOUTHERN CO	SO	26.375	-0.03211	0	0.0066	-0.0387	Mar-87
18	Apr-87	SOUTHERN CO	SO	24.125	-0.06502	0.535	0.0065	-0.0715	Apr-87
18	May-87	SOUTHERN CO	SO	23	-0.04663	0	0.0066	-0.0532	May-87
18	Jun-87	SOUTHERN CO	SO	24.25	0.054348	0	0.0075	0.0468	Jun-87

18	Jul-87	SOUTHERN CO	SO	23	-0.02949	0.535	0.0073	-0.0368	Jul-87
18	Aug-87	SOUTHERN CO	SO	23	0	0	0.0075	-0.0075	Aug-87
18	Sep-87	SOUTHERN CO	SO	22.25	-0.03261	0	0.0075	-0.0401	Sep-87
18	Oct-87	SOUTHERN CO	SO	21.25	-0.0209	0.535	0.0079	-0.0288	Oct-87
18	Nov-87	SOUTHERN CO	SO	21.625	0.017647	0	0.0075	0.0101	Nov-87
18	Dec-87	SOUTHERN CO	SO	22.375	0.034682	0	0.0078	0.0269	Dec-87
18	Jan-88	SOUTHERN CO	SO	24	0.096536	0.535	0.0072	0.0893	Jan-88
18	Feb-88	SOUTHERN CO	SO	23	-0.04167	0	0.0071	-0.0488	Feb-88
18	Mar-88	SOUTHERN CO	SO	22.375	-0.02717	0	0.0072	-0.0344	Mar-88
18	Apr-88	SOUTHERN CO	SO	21.75	-0.00402	0.535	0.0070	-0.0110	Apr-88
18	May-88	SOUTHERN CO	SO	23.25	0.068966	0	0.0078	0.0612	May-88
18	Jun-88	SOUTHERN CO	SO	23.125	-0.00538	0	0.0076	-0.0130	Jun-88
18	Jul-88	SOUTHERN CO	SO	22.75	0.006919	0.535	0.0071	-0.0002	Jul-88
18	Aug-88	SOUTHERN CO	SO	21.625	-0.04945	0	0.0083	-0.0578	Aug-88
18	Sep-88	SOUTHERN CO	SO	21.5	-0.00578	0	0.0076	-0.0134	Sep-88
18	Oct-88	SOUTHERN CO	SO	22.375	0.040698	0	0.0076	0.0331	Oct-88
18	Nov-88	SOUTHERN CO	SO	21.625	-0.00961	0.535	0.0070	-0.0166	Nov-88
18	Dec-88	SOUTHERN CO	SO	22.375	0.034682	0	0.0075	0.0272	Dec-88
18	Jan-89	SOUTHERN CO	SO	23.25	0.063017	0.535	0.0080	0.0550	Jan-89
18	Feb-89	SOUTHERN CO	SO	23.25	0	0	0.0069	-0.0069	Feb-89
18	Mar-89	SOUTHERN CO	SO	23.125	-0.00538	0	0.0079	-0.0133	Mar-89
18	Apr-89	SOUTHERN CO	SO	23.5	0.039351	0.535	0.0070	0.0324	Apr-89
18	May-89	SOUTHERN CO	SO	25.625	0.090426	0	0.0080	0.0824	May-89
18	Jun-89	SOUTHERN CO	SO	26.375	0.029268	0	0.0070	0.0223	Jun-89
18	Jul-89	SOUTHERN CO	SO	28.25	0.07109	0	0.0068	0.0643	Jul-89
18	Aug-89	SOUTHERN CO	SO	27.5	-0.00761	0.535	0.0066	-0.0142	Aug-89
18	Sep-89	SOUTHERN CO	SO	27.125	-0.01364	0	0.0065	-0.0201	Sep-89
18	Oct-89	SOUTHERN CO	SO	27.125	0.019724	0.535	0.0072	0.0125	Oct-89
18	Nov-89	SOUTHERN CO	SO	28	0.032258	0	0.0064	0.0259	Nov-89
18	Dec-89	SOUTHERN CO	SO	29.125	0.040179	0	0.0064	0.0338	Dec-89
18	Jan-90	SOUTHERN CO	SO	27	-0.05459	0.535	0.0073	-0.0619	Jan-90
18	Feb-90	SOUTHERN CO	SO	26.125	-0.03241	0	0.0066	-0.0390	Feb-90
18	Mar-90	SOUTHERN CO	SO	26.25	0.004785	0	0.0071	-0.0023	Mar-90
18	Apr-90	SOUTHERN CO	SO	24.375	-0.07143	0	0.0075	-0.0789	Apr-90
18	May-90	SOUTHERN CO	SO	25	0.04759	0.535	0.0075	0.0401	May-90
18	Jun-90	SOUTHERN CO	SO	25.25	0.01	0	0.0068	0.0032	Jun-90
18	Jul-90	SOUTHERN CO	SO	25.625	0.03604	0.535	0.0074	0.0286	Jul-90
18	Aug-90	SOUTHERN CO	SO	23.5	-0.08293	0	0.0071	-0.0900	Aug-90
18	Sep-90	SOUTHERN CO	SO	23.75	0.010638	0	0.0069	0.0037	Sep-90

18	Oct-90	SOUTHERN CO	SO	26	0.117263	0.535	0.0081	0.1092	Oct-90
18	Nov-90	SOUTHERN CO	SO	26.875	0.033654	0	0.0071	0.0266	Nov-90
18	Dec-90	SOUTHERN CO	SO	27.875	0.037209	0	0.0072	0.0300	Dec-90
18	Jan-91	SOUTHERN CO	SO	26	-0.04807	0.535	0.0071	-0.0552	Jan-91
18	Feb-91	SOUTHERN CO	SO	27.625	0.0625	0	0.0064	0.0561	Feb-91
18	Mar-91	SOUTHERN CO	SO	28.625	0.036199	0	0.0064	0.0298	Mar-91
18	Apr-91	SOUTHERN CO	SO	27.625	-0.01625	0.535	0.0076	-0.0238	Apr-91
18	May-91	SOUTHERN CO	SO	27.125	-0.0181	0	0.0068	-0.0249	May-91
18	Jun-91	SOUTHERN CO	SO	27.5	0.013825	0	0.0063	0.0075	Jun-91
18	Jul-91	SOUTHERN CO	SO	27.625	0.024	0.535	0.0076	0.0164	Jul-91
18	Aug-91	SOUTHERN CO	SO	27.375	-0.00905	0	0.0068	-0.0159	Aug-91
18	Sep-91	SOUTHERN CO	SO	30.125	0.100457	0	0.0068	0.0937	Sep-91
18	Oct-91	SOUTHERN CO	SO	30	0.01361	0.535	0.0065	0.0071	Oct-91
18	Nov-91	SOUTHERN CO	SO	31.375	0.045833	0	0.0060	0.0398	Nov-91
18	Dec-91	SOUTHERN CO	SO	34.375	0.095618	0	0.0068	0.0888	Dec-91
18	Jan-92	SOUTHERN CO	SO	32.625	-0.03491	0.55	0.0061	-0.0410	Jan-92
18	Feb-92	SOUTHERN CO	SO	31.125	-0.04598	0	0.0059	-0.0519	Feb-92
18	Mar-92	SOUTHERN CO	SO	31.875	0.024096	0	0.0067	0.0174	Mar-92
18	Apr-92	SOUTHERN CO	SO	32.875	0.048627	0.55	0.0065	0.0421	Apr-92
18	May-92	SOUTHERN CO	SO	33.75	0.026616	0	0.0061	0.0205	May-92
18	Jun-92	SOUTHERN CO	SO	34.875	0.033333	0	0.0067	0.0266	Jun-92
18	Jul-92	SOUTHERN CO	SO	37.875	0.101792	0.55	0.0063	0.0955	Jul-92
18	Aug-92	SOUTHERN CO	SO	37.25	-0.0165	0	0.0060	-0.0225	Aug-92
18	Sep-92	SOUTHERN CO	SO	38	0.020134	0	0.0058	0.0143	Sep-92
18	Oct-92	SOUTHERN CO	SO	36.875	-0.01513	0.55	0.0057	-0.0208	Oct-92
18	Nov-92	SOUTHERN CO	SO	36	-0.02373	0	0.0061	-0.0298	Nov-92
18	Dec-92	SOUTHERN CO	SO	38.5	0.069444	0	0.0063	0.0631	Dec-92
18	Jan-93	SOUTHERN CO	SO	38.625	0.018052	0.57	0.0059	0.0122	Jan-93
18	Feb-93	SOUTHERN CO	SO	41.25	0.067961	0	0.0055	0.0625	Feb-93
18	Mar-93	SOUTHERN CO	SO	42.625	0.033333	0	0.0063	0.0270	Mar-93
18	Apr-93	SOUTHERN CO	SO	42.125	0.001642	0.57	0.0057	-0.0041	Apr-93
18	May-93	SOUTHERN CO	SO	40.625	-0.03561	0	0.0052	-0.0408	May-93
18	Jun-93	SOUTHERN CO	SO	42.125	0.036923	0	0.0062	0.0307	Jun-93
18	Jul-93	SOUTHERN CO	SO	41.5	-0.00131	0.57	0.0054	-0.0067	Jul-93
18	Aug-93	SOUTHERN CO	SO	44.5	0.072289	0	0.0056	0.0667	Aug-93
18	Sep-93	SOUTHERN CO	SO	45	0.011236	0	0.0050	0.0062	Sep-93
18	Oct-93	SOUTHERN CO	SO	44.875	0.009889	0.57	0.0049	0.0050	Oct-93
18	Nov-93	SOUTHERN CO	SO	43.25	-0.03621	0	0.0053	-0.0415	Nov-93
18	Dec-93	SOUTHERN CO	SO	44.125	0.020231	0	0.0055	0.0147	Dec-93

18	Jan-94	SOUTHERN CO	SO	43.5	-0.01416	0	0.0055	-0.0197	Jan-94
18	Feb-94	SOUTHERN CO	SO	41.125	-0.04103	0.59	0.0049	-0.0459	Feb-94
18	Mar-94	SOUTHERN CO	SO	19	-0.07599	0	0.0058	-0.0818	Mar-94
18	Apr-94	SOUTHERN CO	SO	19.5	0.041842	0.295	0.0057	0.0361	Apr-94
18	May-94	SOUTHERN CO	SO	18.5	-0.05128	0	0.0063	-0.0576	May-94
18	Jun-94	SOUTHERN CO	SO	18.75	0.013514	0	0.0061	0.0074	Jun-94
18	Jul-94	SOUTHERN CO	SO	19.375	0.049067	0.295	0.0060	0.0431	Jul-94
18	Aug-94	SOUTHERN CO	SO	18.875	-0.02581	0	0.0066	-0.0324	Aug-94
18	Sep-94	SOUTHERN CO	SO	18.625	-0.01325	0	0.0061	-0.0193	Sep-94
18	Oct-94	SOUTHERN CO	SO	19.875	0.067114	0	0.0066	0.0605	Oct-94
18	Nov-94	SOUTHERN CO	SO	20.75	0.058868	0.295	0.0064	0.0525	Nov-94
18	Dec-94	SOUTHERN CO	SO	20	-0.03615	0	0.0066	-0.0427	Dec-94
18	Jan-95	SOUTHERN CO	SO	20.875	0.059	0.305	0.0070	0.0520	Jan-95
18	Feb-95	SOUTHERN CO	SO	20.625	-0.01198	0	0.0059	-0.0179	Feb-95
18	Mar-95	SOUTHERN CO	SO	20.375	-0.01212	0	0.0064	-0.0185	Mar-95
18	Apr-95	SOUTHERN CO	SO	20.625	0.027239	0.305	0.0058	0.0214	Apr-95
18	May-95	SOUTHERN CO	SO	22.125	0.072727	0	0.0065	0.0662	May-95
18	Jun-95	SOUTHERN CO	SO	22.375	0.011299	0	0.0054	0.0059	Jun-95
18	Jul-95	SOUTHERN CO	SO	22	-0.01676	0	0.0056	-0.0224	Jul-95
18	Aug-95	SOUTHERN CO	SO	21.125	-0.02591	0.305	0.0057	-0.0316	Aug-95
18	Sep-95	SOUTHERN CO	SO	23.5	0.112426	0	0.0052	0.1072	Sep-95
18	Oct-95	SOUTHERN CO	SO	23.875	0.015957	0	0.0057	0.0103	Oct-95
18	Nov-95	SOUTHERN CO	SO	22.875	-0.02911	0.305	0.0051	-0.0342	Nov-95
18	Dec-95	SOUTHERN CO	SO	24.625	0.076503	0	0.0049	0.0716	Dec-95
18	Jan-96	SOUTHERN CO	SO	25.375	0.030457	0	0.0054	0.0251	Jan-96
18	Feb-96	SOUTHERN CO	SO	23.875	-0.0467	0.315	0.0048	-0.0515	Feb-96
18	Mar-96	SOUTHERN CO	SO	23.875	0	0	0.0052	-0.0052	Mar-96
18	Apr-96	SOUTHERN CO	SO	22	-0.07853	0	0.0059	-0.0844	Apr-96
18	May-96	SOUTHERN CO	SO	23.125	0.065455	0.315	0.0058	0.0597	May-96
18	Jun-96	SOUTHERN CO	SO	24.625	0.064865	0	0.0054	0.0595	Jun-96
18	Jul-96	SOUTHERN CO	SO	22.625	-0.08122	0	0.0062	-0.0874	Jul-96
18	Aug-96	SOUTHERN CO	SO	22.5	0.008398	0.315	0.0057	0.0027	Aug-96
18	Sep-96	SOUTHERN CO	SO	22.5	0	0	0.0060	-0.0060	Sep-96
18	Oct-96	SOUTHERN CO	SO	22.125	-0.00267	0.315	0.0058	-0.0085	Oct-96
18	Nov-96	SOUTHERN CO	SO	22.25	0.00565	0	0.0052	0.0005	Nov-96
18	Dec-96	SOUTHERN CO	SO	22.625	0.016854	0	0.0056	0.0113	Dec-96
18	Jan-97	SOUTHERN CO	SO	21.875	-0.01879	0.325	0.0056	-0.0244	Jan-97
18	Feb-97	SOUTHERN CO	SO	21.75	-0.00571	0	0.0051	-0.0108	Feb-97
18	Mar-97	SOUTHERN CO	SO	21.125	-0.02874	0	0.0059	-0.0346	Mar-97

18	Apr-97	SOUTHERN CO	SO	20.375	-0.0355	0	0.0059	-0.0414	Apr-97
18	May-97	SOUTHERN CO	SO	21.125	0.052761	0.325	0.0058	0.0470	May-97
18	Jun-97	SOUTHERN CO	SO	21.875	0.035503	0	0.0059	0.0296	Jun-97
18	Jul-97	SOUTHERN CO	SO	21.9375	0.017714	0.325	0.0058	0.0119	Jul-97
18	Aug-97	SOUTHERN CO	SO	21.0625	-0.03989	0	0.0049	-0.0448	Aug-97
18	Sep-97	SOUTHERN CO	SO	22.5625	0.071217	0	0.0058	0.0654	Sep-97
18	Oct-97	SOUTHERN CO	SO	22.9375	0.031025	0.325	0.0054	0.0256	Oct-97
18	Nov-97	SOUTHERN CO	SO	24	0.046322	0	0.0047	0.0416	Nov-97
18	Dec-97	SOUTHERN CO	SO	25.875	0.078125	0	0.0054	0.0727	Dec-97
18	Jan-98	SOUTHERN CO	SO	24.3125	-0.04744	0.335	0.0048	-0.0522	Jan-98
18	Feb-98	SOUTHERN CO	SO	24.6875	0.015424	0	0.0044	0.0110	Feb-98
18	Mar-98	SOUTHERN CO	SO	27.6875	0.121519	0	0.0052	0.1163	Mar-98
18	Apr-98	SOUTHERN CO	SO	26.5	-0.03079	0.335	0.0049	-0.0357	Apr-98
18	May-98	SOUTHERN CO	SO	26.5625	0.002358	0	0.0048	-0.0024	May-98
18	Jun-98	SOUTHERN CO	SO	27.6875	0.042353	0	0.0052	0.0372	Jun-98
18	Jul-98	SOUTHERN CO	SO	25.5	-0.06691	0.335	0.0049	-0.0718	Jul-98
18	Aug-98	SOUTHERN CO	SO	28.125	0.102941	0	0.0048	0.0981	Aug-98
18	Sep-98	SOUTHERN CO	SO	29.4375	0.046667	0	0.0044	0.0423	Sep-98
18	Oct-98	SOUTHERN CO	SO	28.1875	-0.03108	0.335	0.0042	-0.0353	Oct-98
18	Nov-98	SOUTHERN CO	SO	29.5	0.046563	0	0.0045	0.0421	Nov-98
18	Dec-98	SOUTHERN CO	SO	29.0625	-0.01483	0	0.0045	-0.0193	Dec-98
18	Jan-99	SOUTHERN CO	SO	26.9375	-0.06159	0.335	0.0042	-0.0658	Jan-99
18	Feb-99	SOUTHERN CO	SO	25.0625	-0.06961	0	0.0040	-0.0736	Feb-99
18	Mar-99	SOUTHERN CO	SO	23.3125	-0.06983	0	0.0053	-0.0751	Mar-99
18	Apr-99	SOUTHERN CO	SO	27.0625	0.175228	0.335	0.0048	0.1704	Apr-99
18	May-99	SOUTHERN CO	SO	28.375	0.048499	0	0.0045	0.0440	May-99
18	Jun-99	SOUTHERN CO	SO	26.5	-0.06608	0	0.0055	-0.0716	Jun-99
18	Jul-99	SOUTHERN CO	SO	26.375	0.007925	0.335	0.0051	0.0028	Jul-99
18	Aug-99	SOUTHERN CO	SO	27.0625	0.026066	0	0.0054	0.0207	Aug-99
18	Sep-99	SOUTHERN CO	SO	25.75	-0.0485	0	0.0052	-0.0537	Sep-99
18	Oct-99	SOUTHERN CO	SO	26.5625	0.044563	0.335	0.0050	0.0396	Oct-99
18	Nov-99	SOUTHERN CO	SO	23.375	-0.12	0	0.0056	-0.1256	Nov-99
18	Dec-99	SOUTHERN CO	SO	23.5	0.005348	0	0.0055	-0.0002	Dec-99
18	Jan-00	SOUTHERN CO	SO	25.6875	0.093085	0	0.0057	0.0874	Jan-00
18	Feb-00	SOUTHERN CO	SO	22.1875	-0.12321	0.335	0.0051	-0.1283	Feb-00
18	Mar-00	SOUTHERN CO	SO	21.75	-0.01972	0	0.0054	-0.0251	Mar-00
18	Apr-00	SOUTHERN CO	SO	24.9375	0.161954	0.335	0.0047	0.1573	Apr-00
18	May-00	SOUTHERN CO	SO	25.9375	0.0401	0	0.0056	0.0345	May-00
18	Jun-00	SOUTHERN CO	SO	23.3125	-0.10121	0	0.0052	-0.1064	Jun-00

18	Jul-00	SOUTHERN CO	SO	24.4375	0.048257	0	0.0052	0.0431	Jul-00
18	Aug-00	SOUTHERN CO	SO	29.9375	0.238772	0.335	0.0050	0.2338	Aug-00
18	Sep-00	SOUTHERN CO	SO	32.4375	0.083507	0	0.0046	0.0789	Sep-00
18	Oct-00	SOUTHERN CO	SO	29.375	-0.09441	0	0.0053	-0.0997	Oct-00
18	Nov-00	SOUTHERN CO	SO	31.5625	0.085872	0.335	0.0048	0.0811	Nov-00
18	Dec-00	SOUTHERN CO	SO	33.25	0.053465	0	0.0045	0.0490	Dec-00
18	Jan-01	SOUTHERN CO	SO	29.18	-0.12241	0	0.0049	-0.1273	Jan-01
18	Feb-01	SOUTHERN CO	SO	30.95	0.072138	0.335	0.0042	0.0679	Feb-01
18	Mar-01	SOUTHERN CO	SO	35.09	0.133764	0	0.0045	0.1293	Mar-01
18	Apr-01	SOUTHERN CO	SO	23.39	0.073004	0	0.0047	0.0683	Apr-01
18	May-01	SOUTHERN CO	SO	23.54	0.020735	0.335	0.0050	0.0157	May-01
18	Jun-01	SOUTHERN CO	SO	23.25	-0.01232	0	0.0047	-0.0170	Jun-01
18	Jul-01	SOUTHERN CO	SO	23.5	0.010753	0	0.0052	0.0056	Jul-01
18	Aug-01	SOUTHERN CO	SO	23.17	0.000213	0.335	0.0046	-0.0044	Aug-01
18	Sep-01	SOUTHERN CO	SO	23.98	0.034959	0	0.0041	0.0309	Sep-01
18	Oct-01	SOUTHERN CO	SO	23.9	-0.00334	0	0.0048	-0.0081	Oct-01
18	Nov-01	SOUTHERN CO	SO	22.75	-0.0341	0.335	0.0041	-0.0382	Nov-01
18	Dec-01	SOUTHERN CO	SO	25.35	0.114286	0	0.0046	0.1097	Dec-01
18	Jan-02	SOUTHERN CO	SO	24.65	-0.0144	0.335	0.0048	-0.0192	Jan-02
18	Feb-02	SOUTHERN CO	SO	25.4	0.030426	0	0.0043	0.0261	Feb-02
18	Mar-02	SOUTHERN CO	SO	26.49	0.042913	0	0.0043	0.0386	Mar-02
18	Apr-02	SOUTHERN CO	SO	28.35	0.070215	0	0.0054	0.0648	Apr-02
18	May-02	SOUTHERN CO	SO	27	-0.0358	0.335	0.0049	-0.0407	May-02
18	Jun-02	SOUTHERN CO	SO	27.4	0.014815	0	0.0044	0.0104	Jun-02
18	Jul-02	SOUTHERN CO	SO	28.78	0.050365	0	0.0051	0.0453	Jul-02
18	Aug-02	SOUTHERN CO	SO	28.96	0.018155	0.3425	0.0044	0.0138	Aug-02
18	Sep-02	SOUTHERN CO	SO	28.78	-0.00622	0	0.0042	-0.0104	Sep-02
18	Oct-02	SOUTHERN CO	SO	29.7	0.043867	0.3425	0.0040	0.0399	Oct-02
18	Nov-02	SOUTHERN CO	SO	26.16	-0.11919	0	0.0040	-0.1232	Nov-02
18	Dec-02	SOUTHERN CO	SO	28.39	0.085245	0	0.0045	0.0807	Dec-02
18	Jan-03	SOUTHERN CO	SO	28.17	0.004315	0.3425	0.0041	0.0002	Jan-03
18	Feb-03	SOUTHERN CO	SO	28.21	0.00142	0	0.0038	-0.0024	Feb-03
18	Mar-03	SOUTHERN CO	SO	28.44	0.008153	0	0.0040	0.0042	Mar-03
18	Apr-03	SOUTHERN CO	SO	29.09	0.022855	0	0.0040	0.0189	Apr-03
18	May-03	SOUTHERN CO	SO	31.48	0.093933	0.3425	0.0039	0.0900	May-03
18	Jun-03	SOUTHERN CO	SO	31.16	-0.01017	0	0.0036	-0.0138	Jun-03
18	Jul-03	SOUTHERN CO	SO	28.44	-0.07606	0.35	0.0038	-0.0799	Jul-03
18	Aug-03	SOUTHERN CO	SO	28.38	-0.00211	0	0.0042	-0.0063	Aug-03
18	Sep-03	SOUTHERN CO	SO	29.35	0.034179	0	0.0046	0.0296	Sep-03

18	Oct-03	SOUTHERN CO	SO	29.8	0.027257	0.35	0.0041	0.0232	Oct-03
18	Nov-03	SOUTHERN CO	SO	29.27	-0.01779	0	0.0039	-0.0217	Nov-03
18	Dec-03	SOUTHERN CO	SO	30.25	0.033481	0	0.0047	0.0288	Dec-03
18	Jan-04	SOUTHERN CO	SO	29.8	-0.00331	0.35	0.0042	-0.0075	Jan-04
18	Feb-04	SOUTHERN CO	SO	30.32	0.01745	0	0.0038	0.0137	Feb-04
18	Mar-04	SOUTHERN CO	SO	30.5	0.005937	0	0.0043	0.0016	Mar-04
18	Apr-04	SOUTHERN CO	SO	28.76	-0.04557	0.35	0.0039	-0.0495	Apr-04
18	May-04	SOUTHERN CO	SO	28.92	0.005563	0	0.0040	0.0016	May-04
18	Jun-04	SOUTHERN CO	SO	29.15	0.007953	0	0.0048	0.0032	Jun-04
18	Jul-04	SOUTHERN CO	SO	29.28	0.016724	0.3575	0.0043	0.0124	Jul-04
18	Aug-04	SOUTHERN CO	SO	30.35	0.036544	0	0.0045	0.0320	Aug-04
18	Sep-04	SOUTHERN CO	SO	29.98	-0.01219	0	0.0040	-0.0162	Sep-04
18	Oct-04	SOUTHERN CO	SO	31.59	0.065627	0.3575	0.0038	0.0618	Oct-04
18	Nov-04	SOUTHERN CO	SO	32.79	0.037987	0	0.0041	0.0339	Nov-04
18	Dec-04	SOUTHERN CO	SO	33.52	0.022263	0	0.0043	0.0180	Dec-04
18	Jan-05	SOUTHERN CO	SO	33.77	0.007458	0	0.0041	0.0034	Jan-05
18	Feb-05	SOUTHERN CO	SO	32.12	-0.03827	0.3575	0.0035	-0.0418	Feb-05
18	Mar-05	SOUTHERN CO	SO	31.83	-0.00903	0	0.0041	-0.0131	Mar-05
18	Apr-05	SOUTHERN CO	SO	32.95	0.04689	0.3725	0.0039	0.0430	Apr-05
18	May-05	SOUTHERN CO	SO	33.95	0.030349	0	0.0040	0.0263	May-05
18	Jun-05	SOUTHERN CO	SO	34.67	0.021208	0	0.0036	0.0176	Jun-05
18	Jul-05	SOUTHERN CO	SO	34.99	0.019974	0.3725	0.0034	0.0166	Jul-05
18	Aug-05	SOUTHERN CO	SO	34.4	-0.01686	0	0.0040	-0.0209	Aug-05
18	Sep-05	SOUTHERN CO	SO	35.76	0.039535	0	0.0035	0.0360	Sep-05
18	Oct-05	SOUTHERN CO	SO	34.99	-0.02153	0	0.0039	-0.0254	Oct-05
18	Nov-05	SOUTHERN CO	SO	34.71	0.002644	0.3725	0.0039	-0.0013	Nov-05
18	Dec-05	SOUTHERN CO	SO	34.53	-0.00519	0	0.0039	-0.0091	Dec-05
18	Jan-06	SOUTHERN CO	SO	34.8	0.007819	0	0.0040	0.0038	Jan-06
18	Feb-06	SOUTHERN CO	SO	34.03	-0.01142	0.3725	0.0036	-0.0150	Feb-06
18	Mar-06	SOUTHERN CO	SO	32.77	-0.03703	0	0.0039	-0.0409	Mar-06
18	Apr-06	SOUTHERN CO	SO	32.23	-0.00465	0.3875	0.0039	-0.0086	Apr-06
18	May-06	SOUTHERN CO	SO	31.97	-0.00807	0	0.0048	-0.0129	May-06
18	Jun-06	SOUTHERN CO	SO	32.05	0.002502	0	0.0044	-0.0019	Jun-06
18	Jul-06	SOUTHERN CO	SO	33.78	0.053978	0	0.0045	0.0495	Jul-06
18	Aug-06	SOUTHERN CO	SO	34.27	0.025977	0.3875	0.0043	0.0217	Aug-06
18	Sep-06	SOUTHERN CO	SO	34.46	0.005544	0	0.0039	0.0016	Sep-06
18	Oct-06	SOUTHERN CO	SO	36.4	0.056297	0	0.0042	0.0521	Oct-06
18	Nov-06	SOUTHERN CO	SO	36.25	0.006525	0.3875	0.0039	0.0026	Nov-06
18	Dec-06	SOUTHERN CO	SO	36.86	0.016828	0	0.0036	0.0132	Dec-06

18	Jan-07	SOUTHERN CO	SO	36.53	-0.00895	0	0.0043	-0.0133	Jan-07
18	Feb-07	SOUTHERN CO	SO	35.8	-0.00938	0.3875	0.0038	-0.0132	Feb-07
18	Mar-07	SOUTHERN CO	SO	36.65	0.023743	0	0.0039	0.0198	Mar-07
18	Apr-07	SOUTHERN CO	SO	37.79	0.031105	0	0.0042	0.0269	Apr-07
18	May-07	SOUTHERN CO	SO	36.01	-0.03645	0.4025	0.0041	-0.0406	May-07
18	Jun-07	SOUTHERN CO	SO	34.29	-0.04776	0	0.0040	-0.0518	Jun-07
18	Jul-07	SOUTHERN CO	SO	33.64	-0.01896	0	0.0046	-0.0236	Jul-07
18	Aug-07	SOUTHERN CO	SO	35.49	0.066959	0.4025	0.0042	0.0628	Aug-07
18	Sep-07	SOUTHERN CO	SO	36.28	0.02226	0	0.0037	0.0186	Sep-07
18	Oct-07	SOUTHERN CO	SO	36.66	0.010474	0	0.0043	0.0062	Oct-07
18	Nov-07	SOUTHERN CO	SO	37.62	0.037166	0.4025	0.0039	0.0333	Nov-07
18	Dec-07	SOUTHERN CO	SO	38.75	0.030037	0	0.0037	0.0263	Dec-07
18	Jan-08	SOUTHERN CO	SO	36.365	-0.05116	0.4025	0.0040	-0.0552	Jan-08
18	Feb-08	SOUTHERN CO	SO	34.53	-0.05046	0	0.0034	-0.0539	Feb-08
18	Mar-08	SOUTHERN CO	SO	35.61	0.031277	0	0.0037	0.0276	Mar-08
18	Apr-08	SOUTHERN CO	SO	37.23	0.045493	0	0.0035	0.0420	Apr-08
18	May-08	SOUTHERN CO	SO	36.2	-0.01639	0.42	0.0037	-0.0201	May-08
18	Jun-08	SOUTHERN CO	SO	34.92	-0.03536	0	0.0040	-0.0394	Jun-08
18	Jul-08	SOUTHERN CO	SO	35.39	0.025487	0.42	0.0039	0.0216	Jul-08
18	Aug-08	SOUTHERN CO	SO	37.51	0.059904	0	0.0036	0.0563	Aug-08
18	Sep-08	SOUTHERN CO	SO	37.69	0.004799	0	0.0039	0.0009	Sep-08
18	Oct-08	SOUTHERN CO	SO	34.34	-0.07774	0.42	0.0037	-0.0814	Oct-08
18	Nov-08	SOUTHERN CO	SO	36.32	0.057659	0	0.0036	0.0541	Nov-08
18	Dec-08	SOUTHERN CO	SO	37	0.018722	0	0.0033	0.0154	Dec-08
18	Jan-09	SOUTHERN CO	SO	33.45	-0.0846	0.42	0.0024	-0.0870	Jan-09
18	Feb-09	SOUTHERN CO	SO	30.31	-0.09387	0	0.0030	-0.0969	Feb-09
18	Mar-09	SOUTHERN CO	SO	30.62	0.010228	0	0.0035	0.0067	Mar-09
18	Apr-09	SOUTHERN CO	SO	28.88	-0.04254	0.4375	0.0029	-0.0454	Apr-09
18	May-09	SOUTHERN CO	SO	28.41	-0.01627	0	0.0033	-0.0196	May-09
18	Jun-09	SOUTHERN CO	SO	31.16	0.096797	0	0.0038	0.0930	Jun-09
18	Jul-09	SOUTHERN CO	SO	31.4	0.021743	0.4375	0.0036	0.0181	Jul-09
18	Aug-09	SOUTHERN CO	SO	31.2	-0.00637	0	0.0036	-0.0100	Aug-09
18	Sep-09	SOUTHERN CO	SO	31.67	0.015064	0	0.0034	0.0117	Sep-09
18	Oct-09	SOUTHERN CO	SO	31.19	-0.00134	0.4375	0.0033	-0.0046	Oct-09
18	Nov-09	SOUTHERN CO	SO	32.09	0.028855	0	0.0035	0.0254	Nov-09
18	Dec-09	SOUTHERN CO	SO	33.32	0.03833	0	0.0034	0.0349	Dec-09
18	Jan-10	SOUTHERN CO	SO	32	-0.02649	0.4375	0.0036	-0.0301	Jan-10
18	Feb-10	SOUTHERN CO	SO	31.77	-0.00719	0	0.0033	-0.0105	Feb-10
18	Mar-10	SOUTHERN CO	SO	33.16	0.043752	0	0.0040	0.0398	Mar-10

18	Apr-10	SOUTHERN CO	SO	34.56	0.055941	0.455	0.0038	0.0521	Apr-10
18	May-10	SOUTHERN CO	SO	32.7	-0.05382	0	0.0034	-0.0572	May-10
18	Jun-10	SOUTHERN CO	SO	33.28	0.017737	0	0.0037	0.0140	Jun-10
18	Jul-10	SOUTHERN CO	SO	35.33	0.075271	0.455	0.0031	0.0722	Jul-10
18	Aug-10	SOUTHERN CO	SO	36.69	0.038494	0	0.0032	0.0353	Aug-10
18	Sep-10	SOUTHERN CO	SO	37.24	0.014991	0	0.0026	0.0124	Sep-10
18	Oct-10	SOUTHERN CO	SO	37.87	0.029135	0.455	0.0027	0.0264	Oct-10
18	Nov-10	SOUTHERN CO	SO	37.72	-0.00396	0	0.0032	-0.0072	Nov-10
18	Dec-10	SOUTHERN CO	SO	38.23	0.013521	0	0.0032	0.0103	Dec-10
18	Jan-11	SOUTHERN CO	SO	37.62	-0.01596	0	0.0035667	-0.0195	Jan-11
18	Feb-11	SOUTHERN CO	SO	38.11	0.02512	0.455	0.0036833	0.0214	Feb-11
18	Mar-11	SOUTHERN CO	SO	38.11	0	0	0.0035583	-0.0036	Mar-11
18	Apr-11	SOUTHERN CO	SO	39.04	0.036801	0.4725	0.0035667	0.0332	Apr-11
18	May-11	SOUTHERN CO	SO	40.08	0.026639	0	0.0033417	0.0233	May-11
18	Jun-11	SOUTHERN CO	SO	40.38	0.007485	0	0.0032583	0.0042	Jun-11
18	Jul-11	SOUTHERN CO	SO	39.54	-0.0091	0.4725	0.0032917	-0.0124	Jul-11
18	Aug-11	SOUTHERN CO	SO	41.36	0.046029	0	0.0030417	0.0430	Aug-11
18	Sep-11	SOUTHERN CO	SO	42.37	0.02442	0	0.0023583	0.0221	Sep-11
18	Oct-11	SOUTHERN CO	SO	43.2	0.019589	0	0.0023917	0.0172	Oct-11
18	Nov-11	SOUTHERN CO	SO	43.91	0.027373	0.4725	0.0022667	0.0251	Nov-11
18	Dec-11	SOUTHERN CO	SO	46.29	0.054202	0	0.0024833	0.0517	Dec-11
18	Jan-12	SOUTHERN CO	SO	45.56	-0.01577	0	0.0021	-0.0179	Jan-12
18	Feb-12	SOUTHERN CO	SO	44.19	-0.0197	0.4725	0.002	-0.0217	Feb-12
18	Mar-12	SOUTHERN CO	SO	44.93	0.016746	0	0.0022	0.0145	Mar-12
18	Apr-12	SOUTHERN CO	SO	45.94	0.022479	0	0.0025	0.0200	Apr-12
18	May-12	SOUTHERN CO	SO	45.91	0.010013	0.49	0.0023	0.0077	May-12
18	Jun-12	SOUTHERN CO	SO	46.3	0.008495	0	0.0018	0.0067	Jun-12
	Jul-12	SOUTHERN CO	SO	48.15	0.039957	0	0.002	0.0380	Jul-12
	Aug-12	SOUTHERN CO	SO	45.33	-0.04839	0.49	0.0018	-0.0502	Aug-12
	Sep-12	SOUTHERN CO	SO	46.09	0.016766	0	0.0017	0.0151	Sep-12
	Oct-12	SOUTHERN CO	SO	46.84	0.016273	0	0.0021	0.0142	Oct-12
	Nov-12	SOUTHERN CO	SO	43.85	-0.05337	0.49	0.0019	-0.0553	Nov-12
	Dec-12	SOUTHERN CO	SO	42.81	-0.02372	0	0.0019	-0.0256	Dec-12
	Jan-13	SOUTHERN CO	SO	44.23	0.03317	0	0.0022	0.0310	Jan-13
	Feb-13	SOUTHERN CO	SO	45.01	0.028714	0.49	0.0022	0.0265	Feb-13
	Mar-13	SOUTHERN CO	SO	46.92	0.042435	0	0.0021	0.0403	Mar-13
	Apr-13	SOUTHERN CO	SO	48.23	0.02792	0	0.0026	0.0253	Apr-13
	May-13	SOUTHERN CO	SO	43.9	-0.07926	0.5075	0.0023	-0.0816	May-13
	Jun-13	SOUTHERN CO	SO	44.13	0.005239	0	0.0024	0.0028	Jun-13

Jul-13	SOUTHERN CO	SO	44.84	0.016089	0	0.003	0.0131	Jul-13
Aug-13	SOUTHERN CO	SO	41.62	-0.06049	0.5075	0.0028	-0.0633	Aug-13
Sep-13	SOUTHERN CO	SO	41.18	-0.01057	0	0.0029	-0.0135	Sep-13
Oct-13	SOUTHERN CO	SO	40.91	0.005767	0.5075	0.0029	0.0029	Oct-13
Nov-13	SOUTHERN CO	SO	40.63	-0.00684	0	0.0027	-0.0095	Nov-13
Dec-13	SOUTHERN CO	SO	41.11	0.011814	0	0.0031	0.0087	Dec-13
Jan-14	SOUTHERN CO	SO	41.24	0.015507	0.5075	0.0032	0.0123	Jan-14
Feb-14	SOUTHERN CO	SO	42.35	0.026916	0	0.0026	0.0243	Feb-14
Mar-14	SOUTHERN CO	SO	43.94	0.037544	0	0.0029	0.0346	Mar-14
Apr-14	SOUTHERN CO	SO	45.83	0.043013	0	0.0028	0.0402	Apr-14
May-14	SOUTHERN CO	SO	43.78	-0.03328	0.525	0.0028	-0.0361	May-14
Jun-14	SOUTHERN CO	SO	45.38	0.036546	0	0.0025	0.0340	Jun-14
Jul-14	SOUTHERN CO	SO	43.29	-0.03449	0.525	0.0027	-0.0372	Jul-14
Aug-14	SOUTHERN CO	SO	44.4	0.025641	0	0.0026	0.0230	Aug-14
Sep-14	SOUTHERN CO	SO	43.65	-0.01689	0	0.0023	-0.0192	Sep-14
Oct-14	SOUTHERN CO	SO	46.36	0.074112	0.525	0.0025	0.0716	Oct-14
Nov-14	SOUTHERN CO	SO	47.43	0.02308	0	0.0023	0.0208	Nov-14
Dec-14	SOUTHERN CO	SO	49.11	0.035421	0	0.0022	0.0332	Dec-14
Jan-15	SOUTHERN CO	SO	50.72	0.032784	0	0.002	0.0308	Jan-15
Feb-15	SOUTHERN CO	SO	45.79	-0.08685	0.525	0.0015	-0.0883	Feb-15
Mar-15	SOUTHERN CO	SO	44.28	-0.03298	0	0.0021	-0.0351	Mar-15
Apr-15	SOUTHERN CO	SO	44.3	0.000452	0	0.0019	-0.0014	Apr-15
May-15	SOUTHERN CO	SO	43.69	-0.00152	0.5425	0.002	-0.0035	May-15
Jun-15	SOUTHERN CO	SO	41.9	-0.04097	0	0.0023	-0.04327	Jun-15
Jul-15	SOUTHERN CO	SO	44.73	0.067542	0	0.0024	0.0651418	Jul-15
Aug-15	SOUTHERN CO	SO	43.41	-0.01738	0.5425	0.0022	-0.019582	Aug-15
Sep-15	SOUTHERN CO	SO	44.7	0.029717	0	0.0021	0.0276167	Sep-15
Oct-15	SOUTHERN CO	SO	45.1	0.008949	0	0.0021	0.0068485	Oct-15
Nov-15	SOUTHERN CO	SO	44.54	-0.00039	0.5425	0.0022	-0.002588	Nov-15
Dec-15	SOUTHERN CO	SO	46.79	0.050516	0	0.0022	0.0483164	Dec-15
Jan-16	SOUTHERN CO	SO	48.92	0.045523	0	0.0021	0.0434225	Jan-16
Feb-16	SOUTHERN CO	SO	48.18	-0.00404	0.5425	0.002	-0.006037	Feb-16
Mar-16	SOUTHERN CO	SO	51.73	0.073682	0	0.0018	0.071882	Mar-16
Apr-16	SOUTHERN CO	SO	50.1	-0.03151	0	0.0017	-0.03321	Apr-16
May-16	SOUTHERN CO	SO	49.44	-0.002	0.56	0.002	-0.003996	May-16
Jun-16	SOUTHERN CO	SO	53.63	0.084749	0	0.0018	0.0829492	Jun-16
Jul-16	SOUTHERN CO	SO	53.5	-0.00242	0	0.0014	-0.003824	Jul-16
Aug-16	SOUTHERN CO	SO	51.33	-0.03009	0.56	0.0016	-0.031693	Aug-16

Sep-16	SOUTHERN CO	SO	51.3	-0.00058	0	0.0015	-0.002084	Sep-16
Oct-16	SOUTHERN CO	SO	51.57	0.005263	0	0.0016	0.0036632	Oct-16
Nov-16	SOUTHERN CO	SO	46.82	-0.08125	0.56	0.0018	-0.083049	Nov-16
Dec-16	SOUTHERN CO	SO	49.19	0.050619	0	0.0022	0.0484194	Dec-16
Jan-17	SOUTHERN CO	SO	49.43	0.004879	0	0.0024	0.002479	Jan-17
Feb-17	SOUTHERN CO	SO	50.82	0.03945	0.56	0.0021	0.0373497	Feb-17
Mar-17	SOUTHERN CO	SO	49.78	-0.02046	0	0.0023	-0.022764	Mar-17
Apr-17	SOUTHERN CO	SO	49.8	0.000402	0	0.0021	-0.001698	Apr-17
May-17	SOUTHERN CO	SO	50.61	0.027912	0.58	0.0024	0.0255116	May-17
Jun-17	SOUTHERN CO	SO	47.88	-0.05394	0	0.0021	-0.056042	Jun-17
Jul-17	SOUTHERN CO	SO	47.93	0.001044	0	0.0022	-0.001156	Jul-17
Aug-17	SOUTHERN CO	SO	48.26	0.018986	0.58	0.0022	0.016786	Aug-17
Sep-17	SOUTHERN CO	SO	49.14	0.018235	0	0.0019	0.0163346	Sep-17
Oct-17	SOUTHERN CO	SO	52.2	0.062271	0	0.0022	0.0600711	Oct-17
Nov-17	SOUTHERN CO	SO	51.2	-0.00805	0.58	0.0021	-0.010146	Nov-17
Dec-17	SOUTHERN CO	SO	48.09	-0.06074	0	0.002	-0.062742	Dec-17
Jan-18	SOUTHERN CO	SO	45.11	-0.06197	0	0.0024	-0.064367	Jan-18
Feb-18	SOUTHERN CO	SO	43.06	-0.03259	0.58	0.0022	-0.034787	Feb-18
Mar-18	SOUTHERN CO	SO	44.66	0.037157	0	0.0024	0.0347575	Mar-18
Apr-18	SOUTHERN CO	SO	46.12	0.032691	0	0.0025	0.0301914	Apr-18
May-18	SOUTHERN CO	SO	44.9	-0.01344	0.6	0.0025	-0.015943	May-18
Jun-18	SOUTHERN CO	SO	46.31	0.031403	0	0.0023	0.0291031	Jun-18
Jul-18	SOUTHERN CO	SO	48.6	0.049449	0	0.0025	0.0469494	Jul-18
Aug-18	SOUTHERN CO	SO	43.78	-0.08683	0.6	0.0025	-0.089331	Aug-18
Sep-18	SOUTHERN CO	SO	43.6	-0.00411	0	0.0022	-0.006311	Sep-18
Oct-18	SOUTHERN CO	SO	45.03	0.032798	0	0.003	0.0297982	Oct-18
Nov-18	SOUTHERN CO	SO	47.33	0.064402	0.6	0.0028	0.0616015	Nov-18
Dec-18	SOUTHERN CO	SO	43.92	-0.07205	0	0.0027	-0.074747	Dec-18
Jan-19	SOUTHERN CO	SO	48.6	0.106557	0	0.0025	0.1040574	Jan-19
Feb-19	SOUTHERN CO	SO	49.69	0.034774	0.6	0.0022	0.0325737	Feb-19
Mar-19	SOUTHERN CO	SO	51.68	0.040048	0	0.0023	0.0377483	Mar-19
Apr-19	SOUTHERN CO	SO	53.22	0.029799	0	0.0023	0.0274988	Apr-19
May-19	SOUTHERN CO	SO	53.5	0.016911	0.62	0.0023	0.0146109	May-19
Jun-19	SOUTHERN CO	SO	55.28	0.033271	0	0.0018	0.031471	Jun-19
Jul-19	SOUTHERN CO	SO	56.2	0.016643	0	0.0021	0.0145425	Jul-19
Aug-19	SOUTHERN CO	SO	58.26	0.047687	0.62	0.0019	0.0457868	Aug-19
Sep-19	SOUTHERN CO	SO	61.77	0.060247	0	0.0015	0.0587472	Sep-19
Oct-19	SOUTHERN CO	SO	62.66	0.014408	0	0.0016	0.0128083	Oct-19
Nov-19	SOUTHERN CO	SO	61.99	-0.0008	0.62	0.0016	-0.002398	Nov-19

Dec-19	SOUTHERN CO	SO	63.7	0.027585	0	0.0018	0.0257851	Dec-19
Jan-20	SOUTHERN CO	SO	70.4	0.105181	0	0.002	0.1031805	Jan-20
Feb-20	SOUTHERN CO	SO	60.36	-0.13381	0.62	0.0015	-0.135307	Feb-20
Mar-20	SOUTHERN CO	SO	54.14	-0.10305	0	0.00123	-0.104278	Mar-20
Apr-20	SOUTHERN CO	SO	56.73	0.047839	0	0.0009	0.0469389	Apr-20
May-20	SOUTHERN CO	SO	57.07	0.017275	0.64	0.0009	0.0163748	May-20
Jun-20	SOUTHERN CO	SO	51.85	-0.09147	0	0.0009	-0.092367	Jun-20
Jul-20	SOUTHERN CO	SO	54.61	0.05323	0	0.001	0.0522305	Jul-20
Aug-20	SOUTHERN CO	SO	52.18	-0.03278	0.64	0.0008	-0.033578	Aug-20
Sep-20	SOUTHERN CO	SO	54.22	0.039095	0	0	0.0390954	Sep-20
Oct-20	SOUTHERN CO	SO	57.45	0.059572	0	0.0009	0.0586721	Oct-20
Nov-20	SOUTHERN CO	SO	59.85	0.052916	0.64	0.0011	0.0518156	Nov-20
Dec-20	SOUTHERN CO	SO	61.43	0.026399	0	0.0011	0.0252993	Dec-20
Jan-21	SOUTHERN CO	SO	58.92	-0.04086	0	0.0015167	-0.042376	Jan-21
Feb-21	SOUTHERN CO	SO	56.72	-0.02648	0.64	0.0017	-0.028177	Feb-21
Mar-21	SOUTHERN CO	SO	62.16	0.09591	0	0.00195	0.0939597	Mar-21
Apr-21	SOUTHERN CO	SO	66.17	0.064511	0	0.0019167	0.0625943	Apr-21
May-21	SOUTHERN CO	SO	63.92	-0.02403	0.66	0.0019333	-0.025962	May-21
Jun-21	SOUTHERN CO	SO	60.51	-0.05335	0	0.0018	-0.055148	Jun-21
Jul-21	SOUTHERN CO	SO	63.87	0.055528	0	0.0016167	0.0539113	Jul-21
Aug-21	SOUTHERN CO	SO	65.73	0.039455	0.66	0.0016	0.0378551	Aug-21

Unique Index Number	Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP	Trading Date
	Jan-26						0.0031		Jan-26
	Feb-26						0.0028		Feb-26
	Mar-26						0.0032		Mar-26
	Apr-26						0.0030		Apr-26
	May-26						0.0028		May-26
	Jun-26						0.0033		Jun-26
	Jul-26						0.0031		Jul-26
	Aug-26						0.0031		Aug-26
	Sep-26						0.0030		Sep-26
	Oct-26						0.0030		Oct-26
	Nov-26						0.0031		Nov-26
	Dec-26						0.0030		Dec-26
	Jan-27						0.0030		Jan-27
	Feb-27						0.0027		Feb-27
	Mar-27						0.0029		Mar-27
	Apr-27						0.0027		Apr-27
	May-27						0.0028		May-27
	Jun-27						0.0027		Jun-27
	Jul-27						0.0027		Jul-27
	Aug-27						0.0029		Aug-27
	Sep-27						0.0027		Sep-27
	Oct-27						0.0028		Oct-27
	Nov-27						0.0027		Nov-27
	Dec-27						0.0027		Dec-27
	Jan-28						0.0027		Jan-28
	Feb-28						0.0025		Feb-28
	Mar-28						0.0027		Mar-28
	Apr-28						0.0026		Apr-28
	May-28						0.0027		May-28
	Jun-28						0.0027		Jun-28
	Jul-28						0.0027		Jul-28
	Aug-28						0.0029		Aug-28
	Sep-28						0.0027		Sep-28

Oct-28	0.0030	Oct-28
Nov-28	0.0027	Nov-28
Dec-28	0.0029	Dec-28
Jan-29	0.0029	Jan-29
Feb-29	0.0027	Feb-29
Mar-29	0.0028	Mar-29
Apr-29	0.0034	Apr-29
May-29	0.0030	May-29
Jun-29	0.0029	Jun-29
Jul-29	0.0032	Jul-29
Aug-29	0.0030	Aug-29
Sep-29	0.0032	Sep-29
Oct-29	0.0031	Oct-29
Nov-29	0.0026	Nov-29
Dec-29	0.0031	Dec-29
Jan-30	0.0029	Jan-30
Feb-30	0.0026	Feb-30
Mar-30	0.0029	Mar-30
Apr-30	0.0027	Apr-30
May-30	0.0027	May-30
Jun-30	0.0029	Jun-30
Jul-30	0.0028	Jul-30
Aug-30	0.0026	Aug-30
Sep-30	0.0029	Sep-30
Oct-30	0.0027	Oct-30
Nov-30	0.0026	Nov-30
Dec-30	0.0028	Dec-30
Jan-31	0.0028	Jan-31
Feb-31	0.0026	Feb-31
Mar-31	0.0029	Mar-31
Apr-31	0.0027	Apr-31
May-31	0.0026	May-31
Jun-31	0.0028	Jun-31
Jul-31	0.0027	Jul-31
Aug-31	0.0027	Aug-31
Sep-31	0.0027	Sep-31

Oct-31	0.0029	Oct-31
Nov-31	0.0031	Nov-31
Dec-31	0.0032	Dec-31
Jan-32	0.0032	Jan-32
Feb-32	0.0032	Feb-32
Mar-32	0.0031	Mar-32
Apr-32	0.0030	Apr-32
May-32	0.0028	May-32
Jun-32	0.0028	Jun-32
Jul-32	0.0028	Jul-32
Aug-32	0.0028	Aug-32
Sep-32	0.0026	Sep-32
Oct-32	0.0027	Oct-32
Nov-32	0.0026	Nov-32
Dec-32	0.0027	Dec-32
Jan-33	0.0027	Jan-33
Feb-33	0.0023	Feb-33
Mar-33	0.0027	Mar-33
Apr-33	0.0025	Apr-33
May-33	0.0028	May-33
Jun-33	0.0025	Jun-33
Jul-33	0.0026	Jul-33
Aug-33	0.0026	Aug-33
Sep-33	0.0025	Sep-33
Oct-33	0.0026	Oct-33
Nov-33	0.0025	Nov-33
Dec-33	0.0028	Dec-33
Jan-34	0.0029	Jan-34
Feb-34	0.0024	Feb-34
Mar-34	0.0027	Mar-34
Apr-34	0.0025	Apr-34
May-34	0.0025	May-34
Jun-34	0.0024	Jun-34
Jul-34	0.0024	Jul-34
Aug-34	0.0024	Aug-34
Sep-34	0.0023	Sep-34

Oct-34	0.0027	Oct-34
Nov-34	0.0025	Nov-34
Dec-34	0.0025	Dec-34
Jan-35	0.0025	Jan-35
Feb-35	0.0021	Feb-35
Mar-35	0.0022	Mar-35
Apr-35	0.0023	Apr-35
May-35	0.0023	May-35
Jun-35	0.0022	Jun-35
Jul-35	0.0024	Jul-35
Aug-35	0.0023	Aug-35
Sep-35	0.0023	Sep-35
Oct-35	0.0023	Oct-35
Nov-35	0.0024	Nov-35
Dec-35	0.0024	Dec-35
Jan-36	0.0024	Jan-36
Feb-36	0.0023	Feb-36
Mar-36	0.0024	Mar-36
Apr-36	0.0022	Apr-36
May-36	0.0022	May-36
Jun-36	0.0024	Jun-36
Jul-36	0.0023	Jul-36
Aug-36	0.0023	Aug-36
Sep-36	0.0021	Sep-36
Oct-36	0.0023	Oct-36
Nov-36	0.0022	Nov-36
Dec-36	0.0022	Dec-36
Jan-37	0.0021	Jan-37
Feb-37	0.0020	Feb-37
Mar-37	0.0022	Mar-37
Apr-37	0.0023	Apr-37
May-37	0.0022	May-37
Jun-37	0.0025	Jun-37
Jul-37	0.0024	Jul-37
Aug-37	0.0023	Aug-37
Sep-37	0.0023	Sep-37

Oct-37	0.0023	Oct-37
Nov-37	0.0024	Nov-37
Dec-37	0.0023	Dec-37
Jan-38	0.0023	Jan-38
Feb-38	0.0021	Feb-38
Mar-38	0.0023	Mar-38
Apr-38	0.0022	Apr-38
May-38	0.0022	May-38
Jun-38	0.0021	Jun-38
Jul-38	0.0021	Jul-38
Aug-38	0.0022	Aug-38
Sep-38	0.0021	Sep-38
Oct-38	0.0022	Oct-38
Nov-38	0.0021	Nov-38
Dec-38	0.0022	Dec-38
Jan-39	0.0021	Jan-39
Feb-39	0.0019	Feb-39
Mar-39	0.0021	Mar-39
Apr-39	0.0019	Apr-39
May-39	0.0020	May-39
Jun-39	0.0018	Jun-39
Jul-39	0.0019	Jul-39
Aug-39	0.0018	Aug-39
Sep-39	0.0019	Sep-39
Oct-39	0.0023	Oct-39
Nov-39	0.0020	Nov-39
Dec-39	0.0019	Dec-39
Jan-40	0.0020	Jan-40
Feb-40	0.0018	Feb-40
Mar-40	0.0019	Mar-40
Apr-40	0.0018	Apr-40
May-40	0.0019	May-40
Jun-40	0.0019	Jun-40
Jul-40	0.0020	Jul-40
Aug-40	0.0019	Aug-40
Sep-40	0.0018	Sep-40

Oct-40	0.0018	Oct-40
Nov-40	0.0018	Nov-40
Dec-40	0.0017	Dec-40
Jan-41	0.0016	Jan-41
Feb-41	0.0016	Feb-41
Mar-41	0.0018	Mar-41
Apr-41	0.0017	Apr-41
May-41	0.0017	May-41
Jun-41	0.0016	Jun-41
Jul-41	0.0016	Jul-41
Aug-41	0.0016	Aug-41
Sep-41	0.0016	Sep-41
Oct-41	0.0016	Oct-41
Nov-41	0.0014	Nov-41
Dec-41	0.0016	Dec-41
Jan-42	0.0021	Jan-42
Feb-42	0.0019	Feb-42
Mar-42	0.0021	Mar-42
Apr-42	0.0020	Apr-42
May-42	0.0019	May-42
Jun-42	0.0021	Jun-42
Jul-42	0.0021	Jul-42
Aug-42	0.0021	Aug-42
Sep-42	0.0020	Sep-42
Oct-42	0.0021	Oct-42
Nov-42	0.0020	Nov-42
Dec-42	0.0021	Dec-42
Jan-43	0.0020	Jan-43
Feb-43	0.0019	Feb-43
Mar-43	0.0021	Mar-43
Apr-43	0.0020	Apr-43
May-43	0.0019	May-43
Jun-43	0.0021	Jun-43
Jul-43	0.0021	Jul-43
Aug-43	0.0021	Aug-43
Sep-43	0.0020	Sep-43

Oct-43	0.0020	Oct-43
Nov-43	0.0021	Nov-43
Dec-43	0.0021	Dec-43
Jan-44	0.0021	Jan-44
Feb-44	0.0020	Feb-44
Mar-44	0.0021	Mar-44
Apr-44	0.0020	Apr-44
May-44	0.0022	May-44
Jun-44	0.0020	Jun-44
Jul-44	0.0021	Jul-44
Aug-44	0.0021	Aug-44
Sep-44	0.0020	Sep-44
Oct-44	0.0021	Oct-44
Nov-44	0.0020	Nov-44
Dec-44	0.0020	Dec-44
Jan-45	0.0021	Jan-45
Feb-45	0.0018	Feb-45
Mar-45	0.0020	Mar-45
Apr-45	0.0019	Apr-45
May-45	0.0019	May-45
Jun-45	0.0019	Jun-45
Jul-45	0.0018	Jul-45
Aug-45	0.0019	Aug-45
Sep-45	0.0018	Sep-45
Oct-45	0.0019	Oct-45
Nov-45	0.0018	Nov-45
Dec-45	0.0018	Dec-45
Jan-46	0.0017	Jan-46
Feb-46	0.0015	Feb-46
Mar-46	0.0016	Mar-46
Apr-46	0.0017	Apr-46
May-46	0.0018	May-46
Jun-46	0.0016	Jun-46
Jul-46	0.0019	Jul-46
Aug-46	0.0017	Aug-46
Sep-46	0.0018	Sep-46

	Oct-46					0.0019		Oct-46
	Nov-46					0.0018		Nov-46
	Dec-46					0.0019		Dec-46
	Jan-47					0.0018		Jan-47
	Feb-47					0.0016		Feb-47
	Mar-47					0.0018		Mar-47
	Apr-47					0.0017		Apr-47
	May-47					0.0017		May-47
	Jun-47					0.0019		Jun-47
	Jul-47					0.0018		Jul-47
	Aug-47					0.0017		Aug-47
	Sep-47					0.0018		Sep-47
	Oct-47					0.0018		Oct-47
57	Nov-47	WISCONSIN ELEC PWR CO	16	-66	0	0.0017		Nov-47
57	Dec-47	WISCONSIN ELEC PWR CO	16.625	0.039062	0	0.0021	0.0370	Dec-47
57	Jan-48	WISCONSIN ELEC PWR CO	15.75	-0.03759	0.25	0.0020	-0.0396	Jan-48
57	Feb-48	WISCONSIN ELEC PWR CO	15.75	0	0	0.0019	-0.0019	Feb-48
57	Mar-48	WISCONSIN ELEC PWR CO	16.125	0.02381	0	0.0022	0.0216	Mar-48
57	Apr-48	WISCONSIN ELEC PWR CO	16	0.007752	0.25	0.0020	0.0058	Apr-48
57	May-48	WISCONSIN ELEC PWR CO	17.25	0.078125	0	0.0018	0.0763	May-48
57	Jun-48	WISCONSIN ELEC PWR CO	17	-0.01449	0	0.0021	-0.0166	Jun-48
57	Jul-48	WISCONSIN ELEC PWR CO	16.375	-0.02206	0.25	0.0019	-0.0240	Jul-48
57	Aug-48	WISCONSIN ELEC PWR CO	16.125	-0.01527	0	0.0021	-0.0174	Aug-48
57	Sep-48	WISCONSIN ELEC PWR CO	15.375	-0.04651	0	0.0020	-0.0485	Sep-48
57	Oct-48	WISCONSIN ELEC PWR CO	16.75	0.105691	0.25	0.0019	0.1038	Oct-48
57	Nov-48	WISCONSIN ELEC PWR CO	15.125	-0.09702	0	0.0021	-0.0991	Nov-48
57	Dec-48	WISCONSIN ELEC PWR CO	15.875	0.049587	0	0.0020	0.0476	Dec-48
57	Jan-49	WISCONSIN ELEC PWR CO	16.125	0.015748	0	0.0020	0.0137	Jan-49
57	Feb-49	WISCONSIN ELEC PWR CO	16.75	0.055814	0.275	0.0018	0.0540	Feb-49
57	Mar-49	WISCONSIN ELEC PWR CO	17.125	0.032724	0	0.0019	0.0308	Mar-49
57	Apr-49	WISCONSIN ELEC PWR CO	18.125	0.074453	0.275	0.0018	0.0727	Apr-49
57	May-49	WISCONSIN ELEC PWR CO	17.5	-0.03448	0	0.0020	-0.0365	May-49
57	Jun-49	WISCONSIN ELEC PWR CO	17.625	0.007143	0	0.0019	0.0052	Jun-49
57	Jul-49	WISCONSIN ELEC PWR CO	18	0.021277	0	0.0017	0.0196	Jul-49
57	Aug-49	WISCONSIN ELEC PWR CO	17.75	0.001389	0.275	0.0019	-0.0005	Aug-49
57	Sep-49	WISCONSIN ELEC PWR CO	18.125	0.021127	0	0.0017	0.0194	Sep-49

57	Oct-49	WISCONSIN ELEC PWR CO	19.625	0.082759	0	0.0018	0.0810	Oct-49
57	Nov-49	WISCONSIN ELEC PWR CO	20.375	0.059873	0.425	0.0017	0.0582	Nov-49
57	Dec-49	WISCONSIN ELEC PWR CO	20.25	-0.00614	0	0.0017	-0.0078	Dec-49
57	Jan-50	WISCONSIN ELEC PWR CO	22	0.08642	0	0.0018	0.0846	Jan-50
57	Feb-50	WISCONSIN ELEC PWR CO	22.25	0.025	0.3	0.0016	0.0234	Feb-50
57	Mar-50	WISCONSIN ELEC PWR CO	21.375	-0.03933	0	0.0018	-0.0411	Mar-50
57	Apr-50	WISCONSIN ELEC PWR CO	20.5	-0.04094	0	0.0016	-0.0425	Apr-50
57	May-50	WISCONSIN ELEC PWR CO	20.5	0.014634	0.3	0.0019	0.0127	May-50
57	Jun-50	WISCONSIN ELEC PWR CO	18	-0.1048	0	0.0017	-0.1065	Jun-50
57	Jul-50	WISCONSIN ELEC PWR CO	17.875	-0.00694	0	0.0018	-0.0087	Jul-50
57	Aug-50	WISCONSIN ELEC PWR CO	17.75	0.00979	0.3	0.0018	0.0080	Aug-50
57	Sep-50	WISCONSIN ELEC PWR CO	18.125	0.021127	0	0.0017	0.0194	Sep-50
57	Oct-50	WISCONSIN ELEC PWR CO	18	-0.0069	0	0.0019	-0.0088	Oct-50
57	Nov-50	WISCONSIN ELEC PWR CO	17.75	0.002778	0.3	0.0018	0.0010	Nov-50
57	Dec-50	WISCONSIN ELEC PWR CO	18	0.014085	0	0.0018	0.0123	Dec-50
57	Jan-51	WISCONSIN ELEC PWR CO	20	0.127778	0.3	0.0020	0.1258	Jan-51
57	Feb-51	WISCONSIN ELEC PWR CO	20	0	0	0.0017	-0.0017	Feb-51
57	Mar-51	WISCONSIN ELEC PWR CO	20.125	0.00625	0	0.0019	0.0044	Mar-51
57	Apr-51	WISCONSIN ELEC PWR CO	19.5	-0.03106	0	0.0020	-0.0331	Apr-51
57	May-51	WISCONSIN ELEC PWR CO	19.375	0.008974	0.3	0.0021	0.0069	May-51
57	Jun-51	WISCONSIN ELEC PWR CO	19.125	-0.0129	0	0.0020	-0.0149	Jun-51
57	Jul-51	WISCONSIN ELEC PWR CO	20.875	0.091503	0	0.0023	0.0892	Jul-51
57	Aug-51	WISCONSIN ELEC PWR CO	20.25	-0.01557	0.3	0.0021	-0.0177	Aug-51
57	Sep-51	WISCONSIN ELEC PWR CO	21.125	0.04321	0	0.0019	0.0413	Sep-51
57	Oct-51	WISCONSIN ELEC PWR CO	21.875	0.054438	0.4	0.0023	0.0521	Oct-51
57	Nov-51	WISCONSIN ELEC PWR CO	23.375	0.068571	0	0.0021	0.0665	Nov-51
57	Dec-51	WISCONSIN ELEC PWR CO	22.5	-0.03743	0	0.0022	-0.0396	Dec-51
57	Jan-52	WISCONSIN ELEC PWR CO	24.25	0.092222	0.325	0.0023	0.0899	Jan-52
57	Feb-52	WISCONSIN ELEC PWR CO	25.125	0.036082	0	0.0021	0.0340	Feb-52
57	Mar-52	WISCONSIN ELEC PWR CO	24	-0.04478	0	0.0023	-0.0471	Mar-52
57	Apr-52	WISCONSIN ELEC PWR CO	23	-0.02813	0.325	0.0022	-0.0303	Apr-52
57	May-52	WISCONSIN ELEC PWR CO	23.5	0.034654	0	0.0020	0.0327	May-52
57	Jun-52	WISCONSIN ELEC PWR CO	24.5	0.042553	0	0.0022	0.0404	Jun-52
57	Jul-52	WISCONSIN ELEC PWR CO	25.25	0.043878	0.325	0.0022	0.0417	Jul-52
57	Aug-52	WISCONSIN ELEC PWR CO	25	-0.0099	0	0.0021	-0.0120	Aug-52
57	Sep-52	WISCONSIN ELEC PWR CO	25.125	0.005	0	0.0023	0.0027	Sep-52

57	Oct-52	WISCONSIN ELEC PWR CO	26.5	0.071642	0.425	0.0023	0.0693	Oct-52
57	Nov-52	WISCONSIN ELEC PWR CO	28.125	0.061321	0	0.0021	0.0592	Nov-52
57	Dec-52	WISCONSIN ELEC PWR CO	27.375	-0.02667	0	0.0024	-0.0291	Dec-52
57	Jan-53	WISCONSIN ELEC PWR CO	27.375	0.012785	0.35	0.0023	0.0105	Jan-53
57	Feb-53	WISCONSIN ELEC PWR CO	27.875	0.018265	0	0.0021	0.0162	Feb-53
57	Mar-53	WISCONSIN ELEC PWR CO	26.75	-0.04036	0	0.0025	-0.0429	Mar-53
57	Apr-53	WISCONSIN ELEC PWR CO	27.375	0.036449	0.35	0.0024	0.0340	Apr-53
57	May-53	WISCONSIN ELEC PWR CO	26.5	-0.03196	0	0.0024	-0.0344	May-53
57	Jun-53	WISCONSIN ELEC PWR CO	25.25	-0.04717	0	0.0027	-0.0499	Jun-53
57	Jul-53	WISCONSIN ELEC PWR CO	27	0.083168	0.35	0.0025	0.0807	Jul-53
57	Aug-53	WISCONSIN ELEC PWR CO	26	-0.03704	0	0.0025	-0.0395	Aug-53
57	Sep-53	WISCONSIN ELEC PWR CO	27.5	0.057692	0	0.0025	0.0552	Sep-53
57	Oct-53	WISCONSIN ELEC PWR CO	28.5	0.052727	0.45	0.0023	0.0504	Oct-53
57	Nov-53	WISCONSIN ELEC PWR CO	28.625	0.004386	0	0.0024	0.0020	Nov-53
57	Dec-53	WISCONSIN ELEC PWR CO	28.875	0.008734	0	0.0024	0.0063	Dec-53
57	Jan-54	WISCONSIN ELEC PWR CO	30.625	0.073593	0.375	0.0023	0.0713	Jan-54
57	Feb-54	WISCONSIN ELEC PWR CO	30	-0.02041	0	0.0022	-0.0226	Feb-54
57	Mar-54	WISCONSIN ELEC PWR CO	30	0	0	0.0025	-0.0025	Mar-54
57	Apr-54	WISCONSIN ELEC PWR CO	29.375	0.000846	0.375	0.0022	-0.0014	Apr-54
57	May-54	WISCONSIN ELEC PWR CO	30.25	0.029787	0	0.0020	0.0278	May-54
57	Jun-54	WISCONSIN ELEC PWR CO	30.625	0.012397	0	0.0025	0.0099	Jun-54
57	Jul-54	WISCONSIN ELEC PWR CO	33.25	0.097959	0.375	0.0022	0.0958	Jul-54
57	Aug-54	WISCONSIN ELEC PWR CO	30	-0.09774	0	0.0023	-0.1000	Aug-54
57	Sep-54	WISCONSIN ELEC PWR CO	32.375	0.079167	0	0.0022	0.0770	Sep-54
57	Oct-54	WISCONSIN ELEC PWR CO	30.625	-0.04247	0.375	0.0021	-0.0446	Oct-54
57	Nov-54	WISCONSIN ELEC PWR CO	30.75	0.004082	0	0.0023	0.0018	Nov-54
57	Dec-54	WISCONSIN ELEC PWR CO	31.875	0.036585	0	0.0023	0.0343	Dec-54
57	Jan-55	WISCONSIN ELEC PWR CO	32	0.015686	0.375	0.0022	0.0135	Jan-55
57	Feb-55	WISCONSIN ELEC PWR CO	32.75	0.023438	0	0.0022	0.0212	Feb-55
57	Mar-55	WISCONSIN ELEC PWR CO	31.375	-0.04199	0	0.0024	-0.0444	Mar-55
57	Apr-55	WISCONSIN ELEC PWR CO	34.5	0.111554	0.375	0.0022	0.1094	Apr-55
57	May-55	WISCONSIN ELEC PWR CO	33	-0.04348	0	0.0025	-0.0460	May-55
57	Jun-55	WISCONSIN ELEC PWR CO	33.5	0.015152	0	0.0023	0.0129	Jun-55
57	Jul-55	WISCONSIN ELEC PWR CO	33.5	0.011194	0.375	0.0023	0.0089	Jul-55
57	Aug-55	WISCONSIN ELEC PWR CO	36.375	0.085821	0	0.0027	0.0831	Aug-55
57	Sep-55	WISCONSIN ELEC PWR CO	33.625	-0.0756	0	0.0024	-0.0780	Sep-55

57	Oct-55	WISCONSIN ELEC PWR CO	33	-0.00446	0.475	0.0025	-0.0070	Oct-55
57	Nov-55	WISCONSIN ELEC PWR CO	34.875	0.056818	0	0.0024	0.0544	Nov-55
57	Dec-55	WISCONSIN ELEC PWR CO	33	-0.05376	0	0.0024	-0.0562	Dec-55
57	Jan-56	WISCONSIN ELEC PWR CO	34.75	0.065152	0.4	0.0025	0.0627	Jan-56
57	Feb-56	WISCONSIN ELEC PWR CO	35.875	0.032374	0	0.0023	0.0301	Feb-56
57	Mar-56	WISCONSIN ELEC PWR CO	35	-0.02439	0	0.0023	-0.0267	Mar-56
57	Apr-56	WISCONSIN ELEC PWR CO	32.5	-0.04989	0.4	0.0026	-0.0525	Apr-56
57	May-56	WISCONSIN ELEC PWR CO	32.625	0.003846	0	0.0026	0.0012	May-56
57	Jun-56	WISCONSIN ELEC PWR CO	32.875	0.007663	0	0.0023	0.0054	Jun-56
57	Jul-56	WISCONSIN ELEC PWR CO	34.75	0.069202	0.4	0.0026	0.0666	Jul-56
57	Aug-56	WISCONSIN ELEC PWR CO	33.875	-0.02518	0	0.0026	-0.0278	Aug-56
57	Sep-56	WISCONSIN ELEC PWR CO	31.375	-0.0738	0	0.0025	-0.0763	Sep-56
57	Oct-56	WISCONSIN ELEC PWR CO	31.875	0.028685	0.4	0.0029	0.0258	Oct-56
57	Nov-56	WISCONSIN ELEC PWR CO	32.375	0.015686	0	0.0027	0.0130	Nov-56
57	Dec-56	WISCONSIN ELEC PWR CO	31.875	-0.01544	0	0.0028	-0.0182	Dec-56
57	Jan-57	WISCONSIN ELEC PWR CO	31	-0.0149	0.4	0.0029	-0.0178	Jan-57
57	Feb-57	WISCONSIN ELEC PWR CO	31.5	0.016129	0	0.0025	0.0136	Feb-57
57	Mar-57	WISCONSIN ELEC PWR CO	32.125	0.019841	0	0.0026	0.0172	Mar-57
57	Apr-57	WISCONSIN ELEC PWR CO	32.5	0.024125	0.4	0.0029	0.0212	Apr-57
57	May-57	WISCONSIN ELEC PWR CO	32.5	0	0	0.0029	-0.0029	May-57
57	Jun-57	WISCONSIN ELEC PWR CO	30.375	-0.06539	0	0.0025	-0.0679	Jun-57
57	Jul-57	WISCONSIN ELEC PWR CO	30.625	0.021399	0.4	0.0033	0.0181	Jul-57
57	Aug-57	WISCONSIN ELEC PWR CO	30.375	-0.00816	0	0.0030	-0.0112	Aug-57
57	Sep-57	WISCONSIN ELEC PWR CO	29.375	-0.03292	0	0.0031	-0.0360	Sep-57
57	Oct-57	WISCONSIN ELEC PWR CO	29.5	0.021277	0.5	0.0031	0.0182	Oct-57
57	Nov-57	WISCONSIN ELEC PWR CO	29.375	-0.00424	0	0.0029	-0.0071	Nov-57
57	Dec-57	WISCONSIN ELEC PWR CO	31.875	0.085106	0	0.0029	0.0822	Dec-57
57	Jan-58	WISCONSIN ELEC PWR CO	35	0.111373	0.425	0.0027	0.1087	Jan-58
57	Feb-58	WISCONSIN ELEC PWR CO	36	0.028571	0	0.0025	0.0261	Feb-58
57	Mar-58	WISCONSIN ELEC PWR CO	35.375	-0.01736	0	0.0027	-0.0201	Mar-58
57	Apr-58	WISCONSIN ELEC PWR CO	35.5	0.015548	0.425	0.0026	0.0129	Apr-58
57	May-58	WISCONSIN ELEC PWR CO	36.125	0.017606	0	0.0024	0.0152	May-58
57	Jun-58	WISCONSIN ELEC PWR CO	36.875	0.020761	0	0.0027	0.0181	Jun-58
57	Jul-58	WISCONSIN ELEC PWR CO	35.625	-0.02237	0.425	0.0027	-0.0251	Jul-58
57	Aug-58	WISCONSIN ELEC PWR CO	33.75	-0.05263	0	0.0027	-0.0553	Aug-58
57	Sep-58	WISCONSIN ELEC PWR CO	34.75	0.0408	0	0.0032	0.0376	Sep-58

57	Oct-58	WISCONSIN ELEC PWR CO	34.5	0.005036	0.425	0.0032	0.0018	Oct-58
57	Nov-58	WISCONSIN ELEC PWR CO	36.125	0.047101	0	0.0028	0.0443	Nov-58
57	Dec-58	WISCONSIN ELEC PWR CO	37.25	0.031142	0	0.0033	0.0278	Dec-58
57	Jan-59	WISCONSIN ELEC PWR CO	40	0.085235	0.425	0.0031	0.0821	Jan-59
57	Feb-59	WISCONSIN ELEC PWR CO	38.625	-0.03438	0	0.0031	-0.0375	Feb-59
57	Mar-59	WISCONSIN ELEC PWR CO	37.5	-0.02913	0	0.0035	-0.0326	Mar-59
57	Apr-59	WISCONSIN ELEC PWR CO	39	0.051333	0.425	0.0033	0.0480	Apr-59
57	May-59	WISCONSIN ELEC PWR CO	37.375	-0.04167	0	0.0033	-0.0450	May-59
57	Jun-59	WISCONSIN ELEC PWR CO	36.625	-0.02007	0	0.0036	-0.0237	Jun-59
57	Jul-59	WISCONSIN ELEC PWR CO	36.25	0.001365	0.425	0.0035	-0.0021	Jul-59
57	Aug-59	WISCONSIN ELEC PWR CO	38.25	0.055172	0	0.0035	0.0517	Aug-59
57	Sep-59	WISCONSIN ELEC PWR CO	36.25	-0.05229	0	0.0034	-0.0557	Sep-59
57	Oct-59	WISCONSIN ELEC PWR CO	37.25	0.042069	0.525	0.0035	0.0386	Oct-59
57	Nov-59	WISCONSIN ELEC PWR CO	37.875	0.016779	0	0.0035	0.0133	Nov-59
57	Dec-59	WISCONSIN ELEC PWR CO	38.75	0.023102	0	0.0036	0.0195	Dec-59
57	Jan-60	WISCONSIN ELEC PWR CO	37	-0.03355	0.45	0.0035	-0.0370	Jan-60
57	Feb-60	WISCONSIN ELEC PWR CO	38.375	0.037162	0	0.0037	0.0335	Feb-60
57	Mar-60	WISCONSIN ELEC PWR CO	39	0.016287	0	0.0036	0.0127	Mar-60
57	Apr-60	WISCONSIN ELEC PWR CO	36.75	-0.03505	0.45	0.0032	-0.0382	Apr-60
57	May-60	WISCONSIN ELEC PWR CO	37.375	0.017007	0	0.0037	0.0133	May-60
57	Jun-60	WISCONSIN ELEC PWR CO	39	0.043478	0	0.0034	0.0401	Jun-60
57	Jul-60	WISCONSIN ELEC PWR CO	41	0.062821	0.45	0.0032	0.0596	Jul-60
57	Aug-60	WISCONSIN ELEC PWR CO	42.125	0.027439	0	0.0034	0.0240	Aug-60
57	Sep-60	WISCONSIN ELEC PWR CO	40	-0.05045	0	0.0032	-0.0536	Sep-60
57	Oct-60	WISCONSIN ELEC PWR CO	40	0.01125	0.45	0.0033	0.0080	Oct-60
57	Nov-60	WISCONSIN ELEC PWR CO	41	0.025	0	0.0032	0.0218	Nov-60
57	Dec-60	WISCONSIN ELEC PWR CO	**-42.625**	0.039634	0	0.0033	0.0363	Dec-60
57	Jan-61	WISCONSIN ELEC PWR CO	45	0.066276	0.45	0.0033	0.0630	Jan-61
57	Feb-61	WISCONSIN ELEC PWR CO	45.25	0.005556	0	0.0030	0.0026	Feb-61
57	Mar-61	WISCONSIN ELEC PWR CO	43.5	-0.03867	0	0.0031	-0.0418	Mar-61
57	Apr-61	WISCONSIN ELEC PWR CO	43.75	0.016092	0.45	0.0031	0.0130	Apr-61
57	May-61	WISCONSIN ELEC PWR CO	47	0.074286	0	0.0034	0.0709	May-61
57	Jun-61	WISCONSIN ELEC PWR CO	45.75	-0.0266	0	0.0032	-0.0298	Jun-61
57	Jul-61	WISCONSIN ELEC PWR CO	45	-0.00656	0.45	0.0033	-0.0099	Jul-61
57	Aug-61	WISCONSIN ELEC PWR CO	48.75	0.083333	0	0.0033	0.0800	Aug-61
57	Sep-61	WISCONSIN ELEC PWR CO	49.625	0.017949	0	0.0032	0.0147	Sep-61

57	Oct-61	WISCONSIN ELEC PWR CO		55.875	0.135516	0.475	0.0034	0.1321	Oct-61
57	Nov-61	WISCONSIN ELEC PWR CO		56.125	0.004474	0	0.0032	0.0013	Nov-61
57	Dec-61	WISCONSIN ELEC PWR CO		56	-0.00223	0	0.0031	-0.0053	Dec-61
57	Jan-62	WISCONSIN ELEC PWR CO		54	-0.02723	0.475	0.0037	-0.0309	Jan-62
57	Feb-62	WISCONSIN ELEC PWR CO		56.5	0.046296	0	0.0032	0.0431	Feb-62
57	Mar-62	WISCONSIN ELEC PWR CO		56.25	-0.00443	0	0.0033	-0.0077	Mar-62
57	Apr-62	WISCONSIN ELEC PWR CO		53.25	-0.04489	0.475	0.0033	-0.0482	Apr-62
57	May-62	WISCONSIN ELEC PWR CO		49.375	-0.07277	0	0.0032	-0.0760	May-62
57	Jun-62	WISCONSIN ELEC PWR CO		46	-0.06835	0	0.0030	-0.0714	Jun-62
57	Jul-62	WISCONSIN ELEC PWR CO	WPC	50.25	0.102717	0.475	0.0034	0.0993	Jul-62
57	Aug-62	WISCONSIN ELEC PWR CO	WPC	54.875	0.09204	0	0.0034	0.0886	Aug-62
57	Sep-62	WISCONSIN ELEC PWR CO	WPC	52.5	-0.04328	0	0.0030	-0.0463	Sep-62
57	Oct-62	WISCONSIN ELEC PWR CO	WPC	50.25	-0.03333	0.5	0.0035	-0.0368	Oct-62
57	Nov-62	WISCONSIN ELEC PWR CO	WPC	55.75	0.109453	0	0.0031	0.1064	Nov-62
57	Dec-62	WISCONSIN ELEC PWR CO	WPC	57.25	0.026906	0	0.0032	0.0237	Dec-62
57	Jan-63	WISCONSIN ELEC PWR CO	WPC	62.25	0.09607	0.5	0.0032	0.0929	Jan-63
57	Feb-63	WISCONSIN ELEC PWR CO	WPC	59.25	-0.04819	0	0.0029	-0.0511	Feb-63
57	Mar-63	WISCONSIN ELEC PWR CO	WPC	60.75	0.025316	0	0.0031	0.0222	Mar-63
57	Apr-63	WISCONSIN ELEC PWR CO	WPC	58.75	-0.02469	0.5	0.0034	-0.0281	Apr-63
57	May-63	WISCONSIN ELEC PWR CO	WPC	30.125	0.025532	0	0.0033	0.0222	May-63
57	Jun-63	WISCONSIN ELEC PWR CO	WPC	30.125	0	0	0.0030	-0.0030	Jun-63
57	Jul-63	WISCONSIN ELEC PWR CO	WPC	29.375	-0.0166	0.25	0.0036	-0.0202	Jul-63
57	Aug-63	WISCONSIN ELEC PWR CO	WPC	30.375	0.034043	0	0.0033	0.0307	Aug-63
57	Sep-63	WISCONSIN ELEC PWR CO	WPC	30.375	0	0	0.0034	-0.0034	Sep-63
57	Oct-63	WISCONSIN ELEC PWR CO	WPC	28.625	-0.04938	0.25	0.0034	-0.0528	Oct-63
57	Nov-63	WISCONSIN ELEC PWR CO	WPC	27.75	-0.03057	0	0.0032	-0.0338	Nov-63
57	Dec-63	WISCONSIN ELEC PWR CO	WPC	28.25	0.018018	0	0.0036	0.0144	Dec-63
57	Jan-64	WISCONSIN ELEC PWR CO	WPC	29	0.035398	0.25	0.0035	0.0319	Jan-64
57	Feb-64	WISCONSIN ELEC PWR CO	WPC	28	-0.03448	0	0.0032	-0.0377	Feb-64
57	Mar-64	WISCONSIN ELEC PWR CO	WPC	26.5	-0.05357	0	0.0037	-0.0573	Mar-64
57	Apr-64	WISCONSIN ELEC PWR CO	WPC	26.375	0.005472	0.27	0.0035	0.0020	Apr-64
57	May-64	WISCONSIN ELEC PWR CO	WPC	27.375	0.037915	0	0.0032	0.0347	May-64
57	Jun-64	WISCONSIN ELEC PWR CO	WPC	27.875	0.018265	0	0.0038	0.0145	Jun-64
57	Jul-64	WISCONSIN ELEC PWR CO	WPC	28.375	0.027623	0.27	0.0035	0.0241	Jul-64
57	Aug-64	WISCONSIN ELEC PWR CO	WPC	28.5	0.004405	0	0.0035	0.0009	Aug-64
57	Sep-64	WISCONSIN ELEC PWR CO	WPC	27.25	-0.03354	0	0.0034	-0.0369	Sep-64

57	Oct-64	WISCONSIN ELEC PWR CO	WPC	28.125	0.042018	0.27	0.0034	0.0386	Oct-64
57	Nov-64	WISCONSIN ELEC PWR CO	WPC	28.875	0.026667	0	0.0035	0.0232	Nov-64
57	Dec-64	WISCONSIN ELEC PWR CO	WPC	28.875	0	0	0.0035	-0.0035	Dec-64
57	Jan-65	WISCONSIN ELEC PWR CO	WPC	29.25	0.022338	0.27	0.0033	0.0190	Jan-65
57	Feb-65	WISCONSIN ELEC PWR CO	WPC	32.375	0.106838	0	0.0032	0.1036	Feb-65
57	Mar-65	WISCONSIN ELEC PWR CO	WPC	30.375	-0.06178	0	0.0038	-0.0656	Mar-65
57	Apr-65	WISCONSIN ELEC PWR CO	WPC	31.375	0.041811	0.27	0.0033	0.0385	Apr-65
57	May-65	WISCONSIN ELEC PWR CO	WPC	31	-0.01195	0	0.0033	-0.0153	May-65
57	Jun-65	WISCONSIN ELEC PWR CO	WPC	28.375	-0.08468	0	0.0038	-0.0885	Jun-65
57	Jul-65	WISCONSIN ELEC PWR CO	WPC	29.5	0.049868	0.29	0.0034	0.0465	Jul-65
57	Aug-65	WISCONSIN ELEC PWR CO	WPC	31.375	0.063559	0	0.0037	0.0599	Aug-65
57	Sep-65	WISCONSIN ELEC PWR CO	WPC	32	0.01992	0	0.0035	0.0164	Sep-65
57	Oct-65	WISCONSIN ELEC PWR CO	WPC	34	0.071562	0.29	0.0034	0.0682	Oct-65
57	Nov-65	WISCONSIN ELEC PWR CO	WPC	33	-0.02941	0	0.0037	-0.0331	Nov-65
57	Dec-65	WISCONSIN ELEC PWR CO	WPC	31.25	-0.05303	0	0.0037	-0.0567	Dec-65
57	Jan-66	WISCONSIN ELEC PWR CO	WPC	29.375	-0.05072	0.29	0.0038	-0.0545	Jan-66
57	Feb-66	WISCONSIN ELEC PWR CO	WPC	28.25	-0.0383	0	0.0034	-0.0417	Feb-66
57	Mar-66	WISCONSIN ELEC PWR CO	WPC	29.375	0.039823	0	0.0040	0.0358	Mar-66
57	Apr-66	WISCONSIN ELEC PWR CO	WPC	27.75	-0.04545	0.29	0.0036	-0.0490	Apr-66
57	May-66	WISCONSIN ELEC PWR CO	WPC	26.875	-0.03153	0	0.0041	-0.0356	May-66
57	Jun-66	WISCONSIN ELEC PWR CO	WPC	26.5	-0.01395	0	0.0039	-0.0179	Jun-66
57	Jul-66	WISCONSIN ELEC PWR CO	WPC	25.625	-0.02132	0.31	0.0038	-0.0251	Jul-66
57	Aug-66	WISCONSIN ELEC PWR CO	WPC	24.375	-0.04878	0	0.0043	-0.0531	Aug-66
57	Sep-66	WISCONSIN ELEC PWR CO	WPC	25	0.025641	0	0.0041	0.0215	Sep-66
57	Oct-66	WISCONSIN ELEC PWR CO	WPC	28	0.1324	0.31	0.0040	0.1284	Oct-66
57	Nov-66	WISCONSIN ELEC PWR CO	WPC	25.875	-0.07589	0	0.0038	-0.0797	Nov-66
57	Dec-66	WISCONSIN ELEC PWR CO	WPC	28.625	0.10628	0	0.0039	0.1024	Dec-66
57	Jan-67	WISCONSIN ELEC PWR CO	WPC	27.5	-0.02847	0.31	0.0040	-0.0325	Jan-67
57	Feb-67	WISCONSIN ELEC PWR CO	WPC	25.75	-0.06364	0	0.0034	-0.0670	Feb-67
57	Mar-67	WISCONSIN ELEC PWR CO	WPC	27.5	0.067961	0	0.0039	0.0641	Mar-67
57	Apr-67	WISCONSIN ELEC PWR CO	WPC	27.625	0.015818	0.31	0.0035	0.0123	Apr-67
57	May-67	WISCONSIN ELEC PWR CO	WPC	26.125	-0.0543	0	0.0043	-0.0586	May-67
57	Jun-67	WISCONSIN ELEC PWR CO	WPC	25.375	-0.02871	0	0.0039	-0.0326	Jun-67
57	Jul-67	WISCONSIN ELEC PWR CO	WPC	27	0.077044	0.33	0.0043	0.0727	Jul-67
57	Aug-67	WISCONSIN ELEC PWR CO	WPC	25.75	-0.0463	0	0.0042	-0.0505	Aug-67
57	Sep-67	WISCONSIN ELEC PWR CO	WPC	25.125	-0.02427	0	0.0040	-0.0283	Sep-67

57	Oct-67	WISCONSIN ELEC PWR CO	WPC	24	-0.03164	0.33	0.0045	-0.0361	Oct-67
57	Nov-67	WISCONSIN ELEC PWR CO	WPC	23.625	-0.01563	0	0.0045	-0.0201	Nov-67
57	Dec-67	WISCONSIN ELEC PWR CO	WPC	24.875	0.05291	0	0.0044	0.0485	Dec-67
57	Jan-68	WISCONSIN ELEC PWR CO	WPC	24.875	0.013266	0.33	0.0050	0.0083	Jan-68
57	Feb-68	WISCONSIN ELEC PWR CO	WPC	25	0.005025	0	0.0042	0.0008	Feb-68
57	Mar-68	WISCONSIN ELEC PWR CO	WPC	22.75	-0.09	0	0.0043	-0.0943	Mar-68
57	Apr-68	WISCONSIN ELEC PWR CO	WPC	22.75	0.014505	0.33	0.0049	0.0096	Apr-68
57	May-68	WISCONSIN ELEC PWR CO	WPC	22.625	-0.0055	0	0.0046	-0.0101	May-68
57	Jun-68	WISCONSIN ELEC PWR CO	WPC	24.125	0.066298	0	0.0042	0.0621	Jun-68
57	Jul-68	WISCONSIN ELEC PWR CO	WPC	23.625	-0.00705	0.33	0.0048	-0.0118	Jul-68
57	Aug-68	WISCONSIN ELEC PWR CO	WPC	23.25	-0.01587	0	0.0042	-0.0201	Aug-68
57	Sep-68	WISCONSIN ELEC PWR CO	WPC	24.625	0.066335	0	0.0044	0.0619	Sep-68
57	Oct-68	WISCONSIN ELEC PWR CO	WPC	24.75	0.018477	0.33	0.0045	0.0140	Oct-68
57	Nov-68	WISCONSIN ELEC PWR CO	WPC	25.625	0.035354	0	0.0043	0.0311	Nov-68
57	Dec-68	WISCONSIN ELEC PWR CO	WPC	25.125	-0.01951	0	0.0049	-0.0244	Dec-68
57	Jan-69	WISCONSIN ELEC PWR CO	WPC	25.375	0.023085	0.33	0.0050	0.0181	Jan-69
57	Feb-69	WISCONSIN ELEC PWR CO	WPC	24.25	-0.04434	0	0.0046	-0.0489	Feb-69
57	Mar-69	WISCONSIN ELEC PWR CO	WPC	24.625	0.015464	0	0.0047	0.0108	Mar-69
57	Apr-69	WISCONSIN ELEC PWR CO	WPC	24.875	0.024365	0.35	0.0055	0.0189	Apr-69
57	May-69	WISCONSIN ELEC PWR CO	WPC	24.875	0	0	0.0047	-0.0047	May-69
57	Jun-69	WISCONSIN ELEC PWR CO	WPC	23.625	-0.05025	0	0.0055	-0.0558	Jun-69
57	Jul-69	WISCONSIN ELEC PWR CO	WPC	22.25	-0.04339	0.35	0.0052	-0.0486	Jul-69
57	Aug-69	WISCONSIN ELEC PWR CO	WPC	22.25	0	0	0.0048	-0.0048	Aug-69
57	Sep-69	WISCONSIN ELEC PWR CO	WPC	21	-0.05618	0	0.0055	-0.0617	Sep-69
57	Oct-69	WISCONSIN ELEC PWR CO	WPC	22.75	0.1	0.35	0.0057	0.0943	Oct-69
57	Nov-69	WISCONSIN ELEC PWR CO	WPC	21.375	-0.06044	0	0.0049	-0.0653	Nov-69
57	Dec-69	WISCONSIN ELEC PWR CO	WPC	21.875	0.023392	0	0.0060	0.0174	Dec-69
57	Jan-70	WISCONSIN ELEC PWR CO	WPC	20.125	-0.064	0.35	0.0056	-0.0696	Jan-70
57	Feb-70	WISCONSIN ELEC PWR CO	WPC	22.25	0.10559	0	0.0052	0.1004	Feb-70
57	Mar-70	WISCONSIN ELEC PWR CO	WPC	22	-0.01124	0	0.0056	-0.0168	Mar-70
57	Apr-70	WISCONSIN ELEC PWR CO	WPC	20.625	-0.04659	0.35	0.0054	-0.0520	Apr-70
57	May-70	WISCONSIN ELEC PWR CO	WPC	19.75	-0.04242	0	0.0055	-0.0479	May-70
57	Jun-70	WISCONSIN ELEC PWR CO	WPC	20.5	0.037975	0	0.0064	0.0316	Jun-70
57	Jul-70	WISCONSIN ELEC PWR CO	WPC	20.875	0.035366	0.35	0.0059	0.0295	Jul-70
57	Aug-70	WISCONSIN ELEC PWR CO	WPC	21.25	0.017964	0	0.0057	0.0123	Aug-70
57	Sep-70	WISCONSIN ELEC PWR CO	WPC	20.625	-0.02941	0	0.0056	-0.0350	Sep-70

57	Oct-70	WISCONSIN ELEC PWR CO	WPC	21	0.036121	0.37	0.0055	0.0306	Oct-70
57	Nov-70	WISCONSIN ELEC PWR CO	WPC	21.625	0.029762	0	0.0058	0.0240	Nov-70
57	Dec-70	WISCONSIN ELEC PWR CO	WPC	24.125	0.115607	0	0.0053	0.1103	Dec-70
57	Jan-71	WISCONSIN ELEC PWR CO	WPC	23.625	-0.00539	0.37	0.0051	-0.0105	Jan-71
57	Feb-71	WISCONSIN ELEC PWR CO	WPC	23.5	-0.00529	0	0.0046	-0.0099	Feb-71
57	Mar-71	WISCONSIN ELEC PWR CO	WPC	24.375	0.037234	0	0.0056	0.0316	Mar-71
57	Apr-71	WISCONSIN ELEC PWR CO	WPC	22.75	-0.05149	0.37	0.0048	-0.0563	Apr-71
57	May-71	WISCONSIN ELEC PWR CO	WPC	21.75	-0.04396	0	0.0047	-0.0487	May-71
57	Jun-71	WISCONSIN ELEC PWR CO	WPC	22	0.011494	0	0.0056	0.0059	Jun-71
57	Jul-71	WISCONSIN ELEC PWR CO	WPC	22	0.016818	0.37	0.0052	0.0116	Jul-71
57	Aug-71	WISCONSIN ELEC PWR CO	WPC	20.875	-0.05114	0	0.0055	-0.0566	Aug-71
57	Sep-71	WISCONSIN ELEC PWR CO	WPC	21.5	0.02994	0	0.0049	0.0250	Sep-71
57	Oct-71	WISCONSIN ELEC PWR CO	WPC	22	0.040465	0.37	0.0047	0.0358	Oct-71
57	Nov-71	WISCONSIN ELEC PWR CO	WPC	22.25	0.011364	0	0.0051	0.0063	Nov-71
57	Dec-71	WISCONSIN ELEC PWR CO	WPC	24	0.078652	0	0.0050	0.0737	Dec-71
57	Jan-72	WISCONSIN ELEC PWR CO	WPC	23.75	0.005617	0.3848	0.0050	0.0006	Jan-72
57	Feb-72	WISCONSIN ELEC PWR CO	WPC	23.25	-0.02105	0	0.0047	-0.0258	Feb-72
57	Mar-72	WISCONSIN ELEC PWR CO	WPC	22.25	-0.04301	0	0.0049	-0.0479	Mar-72
57	Apr-72	WISCONSIN ELEC PWR CO	WPC	22.5	0.02853	0.3848	0.0048	0.0237	Apr-72
57	May-72	WISCONSIN ELEC PWR CO	WPC	22.25	-0.01111	0	0.0055	-0.0166	May-72
57	Jun-72	WISCONSIN ELEC PWR CO	WPC	22.375	0.005618	0	0.0049	0.0007	Jun-72
57	Jul-72	WISCONSIN ELEC PWR CO	WPC	21.5	-0.02191	0.3848	0.0051	-0.0270	Jul-72
57	Aug-72	WISCONSIN ELEC PWR CO	WPC	23.25	0.081395	0	0.0049	0.0765	Aug-72
57	Sep-72	WISCONSIN ELEC PWR CO	WPC	23.5	0.010753	0	0.0047	0.0061	Sep-72
57	Oct-72	WISCONSIN ELEC PWR CO	WPC	25	0.080204	0.3848	0.0052	0.0750	Oct-72
57	Nov-72	WISCONSIN ELEC PWR CO	WPC	26.125	0.045	0	0.0048	0.0402	Nov-72
57	Dec-72	WISCONSIN ELEC PWR CO	WPC	25	-0.04306	0	0.0045	-0.0476	Dec-72
57	Jan-73	WISCONSIN ELEC PWR CO	WPC	24.625	0.001	0.4	0.0054	-0.0044	Jan-73
57	Feb-73	WISCONSIN ELEC PWR CO	WPC	23.25	-0.05584	0	0.0051	-0.0609	Feb-73
57	Mar-73	WISCONSIN ELEC PWR CO	WPC	23.5	0.010753	0	0.0056	0.0052	Mar-73
57	Apr-73	WISCONSIN ELEC PWR CO	WPC	23.625	0.02234	0.4	0.0057	0.0166	Apr-73
57	May-73	WISCONSIN ELEC PWR CO	WPC	23.375	-0.01058	0	0.0058	-0.0164	May-73
57	Jun-73	WISCONSIN ELEC PWR CO	WPC	23.875	0.02139	0	0.0055	0.0159	Jun-73
57	Jul-73	WISCONSIN ELEC PWR CO	WPC	23.125	-0.0134	0.43	0.0061	-0.0195	Jul-73
57	Aug-73	WISCONSIN ELEC PWR CO	WPC	23.625	0.021622	0	0.0062	0.0154	Aug-73
57	Sep-73	WISCONSIN ELEC PWR CO	WPC	25	0.058201	0	0.0055	0.0527	Sep-73

57	Oct-73	WISCONSIN ELEC PWR CO	WPC	23.875	-0.0278	0.43	0.0063	-0.0341	Oct-73
57	Nov-73	WISCONSIN ELEC PWR CO	WPC	21.5	-0.09948	0	0.0056	-0.1051	Nov-73
57	Dec-73	WISCONSIN ELEC PWR CO	WPC	24.75	0.151163	0	0.0060	0.1452	Dec-73
57	Jan-74	WISCONSIN ELEC PWR CO	WPC	23.25	-0.04323	0.43	0.0061	-0.0493	Jan-74
57	Feb-74	WISCONSIN ELEC PWR CO	WPC	23.5	0.010753	0	0.0055	0.0053	Feb-74
57	Mar-74	WISCONSIN ELEC PWR CO	WPC	23.5	0	0	0.0058	-0.0058	Mar-74
57	Apr-74	WISCONSIN ELEC PWR CO	WPC	21.5	-0.06553	0.46	0.0068	-0.0723	Apr-74
57	May-74	WISCONSIN ELEC PWR CO	WPC	22.125	0.02907	0	0.0068	0.0223	May-74
57	Jun-74	WISCONSIN ELEC PWR CO	WPC	19.625	-0.11299	0	0.0061	-0.1191	Jun-74
57	Jul-74	WISCONSIN ELEC PWR CO	WPC	20.375	0.061656	0.46	0.0072	0.0545	Jul-74
57	Aug-74	WISCONSIN ELEC PWR CO	WPC	17.875	-0.1227	0	0.0065	-0.1292	Aug-74
57	Sep-74	WISCONSIN ELEC PWR CO	WPC	18.5	0.034965	0	0.0071	0.0279	Sep-74
57	Oct-74	WISCONSIN ELEC PWR CO	WPC	21.125	0.166757	0.46	0.0070	0.1598	Oct-74
57	Nov-74	WISCONSIN ELEC PWR CO	WPC	21.375	0.011834	0	0.0062	0.0056	Nov-74
57	Dec-74	WISCONSIN ELEC PWR CO	WPC	22.625	0.05848	0	0.0067	0.0518	Dec-74
57	Jan-75	WISCONSIN ELEC PWR CO	WPC	22.125	-0.00177	0.46	0.0068	-0.0086	Jan-75
57	Feb-75	WISCONSIN ELEC PWR CO	WPC	23.75	0.073446	0	0.0060	0.0674	Feb-75
57	Mar-75	WISCONSIN ELEC PWR CO	WPC	23.75	0	0	0.0066	-0.0066	Mar-75
57	Apr-75	WISCONSIN ELEC PWR CO	WPC	24.375	0.046526	0.48	0.0067	0.0398	Apr-75
57	May-75	WISCONSIN ELEC PWR CO	WPC	25.75	0.05641	0	0.0067	0.0497	May-75
57	Jun-75	WISCONSIN ELEC PWR CO	WPC	28	0.087379	0	0.0070	0.0804	Jun-75
57	Jul-75	WISCONSIN ELEC PWR CO	WPC	27.5	-0.00071	0.48	0.0068	-0.0075	Jul-75
57	Aug-75	WISCONSIN ELEC PWR CO	WPC	26	-0.05455	0	0.0065	-0.0610	Aug-75
57	Sep-75	WISCONSIN ELEC PWR CO	WPC	24.875	-0.04327	0	0.0073	-0.0506	Sep-75
57	Oct-75	WISCONSIN ELEC PWR CO	WPC	28	0.144925	0.48	0.0072	0.1377	Oct-75
57	Nov-75	WISCONSIN ELEC PWR CO	WPC	27.625	-0.01339	0	0.0061	-0.0195	Nov-75
57	Dec-75	WISCONSIN ELEC PWR CO	WPC	29	0.049774	0	0.0074	0.0424	Dec-75
57	Jan-76	WISCONSIN ELEC PWR CO	WPC	28.875	0.012241	0.48	0.0065	0.0057	Jan-76
57	Feb-76	WISCONSIN ELEC PWR CO	WPC	26.25	-0.09091	0	0.0060	-0.0969	Feb-76
57	Mar-76	WISCONSIN ELEC PWR CO	WPC	26.5	0.009524	0	0.0071	0.0024	Mar-76
57	Apr-76	WISCONSIN ELEC PWR CO	WPC	26.625	0.023585	0.5	0.0064	0.0172	Apr-76
57	May-76	WISCONSIN ELEC PWR CO	WPC	24.375	-0.08451	0	0.0059	-0.0904	May-76
57	Jun-76	WISCONSIN ELEC PWR CO	WPC	26.875	0.102564	0	0.0073	0.0953	Jun-76
57	Jul-76	WISCONSIN ELEC PWR CO	WPC	27	0.023256	0.5	0.0065	0.0168	Jul-76
57	Aug-76	WISCONSIN ELEC PWR CO	WPC	29	0.074074	0	0.0069	0.0672	Aug-76
57	Sep-76	WISCONSIN ELEC PWR CO	WPC	30.5	0.051724	0	0.0064	0.0453	Sep-76

57	Oct-76	WISCONSIN ELEC PWR CO	WPC	29.875	-0.0041	0.5	0.0061	-0.0102	Oct-76
57	Nov-76	WISCONSIN ELEC PWR CO	WPC	28.75	-0.03766	0	0.0066	-0.0443	Nov-76
57	Dec-76	WISCONSIN ELEC PWR CO	WPC	31.375	0.091304	0	0.0063	0.0850	Dec-76
57	Jan-77	WISCONSIN ELEC PWR CO	WPC	31.375	0.015936	0.5	0.0059	0.0100	Jan-77
57	Feb-77	WISCONSIN ELEC PWR CO	WPC	30.625	-0.0239	0	0.0057	-0.0296	Feb-77
57	Mar-77	WISCONSIN ELEC PWR CO	WPC	27.75	-0.09388	0	0.0065	-0.1004	Mar-77
57	Apr-77	WISCONSIN ELEC PWR CO	WPC	29	0.064144	0.53	0.0061	0.0580	Apr-77
57	May-77	WISCONSIN ELEC PWR CO	WPC	29.5	0.017241	0	0.0067	0.0105	May-77
57	Jun-77	WISCONSIN ELEC PWR CO	WPC	30.375	0.029661	0	0.0062	0.0235	Jun-77
57	Jul-77	WISCONSIN ELEC PWR CO	WPC	30.125	0.009218	0.53	0.0059	0.0033	Jul-77
57	Aug-77	WISCONSIN ELEC PWR CO	WPC	29.625	-0.0166	0	0.0067	-0.0233	Aug-77
57	Sep-77	WISCONSIN ELEC PWR CO	WPC	30.125	0.016878	0	0.0061	0.0108	Sep-77
57	Oct-77	WISCONSIN ELEC PWR CO	WPC	28.75	-0.02805	0.53	0.0063	-0.0344	Oct-77
57	Nov-77	WISCONSIN ELEC PWR CO	WPC	30.5	0.06087	0	0.0063	0.0546	Nov-77
57	Dec-77	WISCONSIN ELEC PWR CO	WPC	31.125	0.020492	0	0.0062	0.0143	Dec-77
57	Jan-78	WISCONSIN ELEC PWR CO	WPC	27.25	-0.10747	0.53	0.0069	-0.1144	Jan-78
57	Feb-78	WISCONSIN ELEC PWR CO	WPC	27.125	-0.00459	0	0.0060	-0.0106	Feb-78
57	Mar-78	WISCONSIN ELEC PWR CO	WPC	27.75	0.023041	0	0.0069	0.0161	Mar-78
57	Apr-78	WISCONSIN ELEC PWR CO	WPC	26.875	-0.03153	0	0.0063	-0.0378	Apr-78
57	May-78	WISCONSIN ELEC PWR CO	WPC	27.625	0.048744	0.56	0.0075	0.0412	May-78
57	Jun-78	WISCONSIN ELEC PWR CO	WPC	27.75	0.004525	0	0.0069	-0.0024	Jun-78
57	Jul-78	WISCONSIN ELEC PWR CO	WPC	28.625	0.031532	0	0.0073	0.0242	Jul-78
57	Aug-78	WISCONSIN ELEC PWR CO	WPC	28.375	0.01083	0.56	0.0070	0.0038	Aug-78
57	Sep-78	WISCONSIN ELEC PWR CO	WPC	27.75	-0.02203	0	0.0065	-0.0285	Sep-78
57	Oct-78	WISCONSIN ELEC PWR CO	WPC	26.375	-0.04955	0	0.0073	-0.0569	Oct-78
57	Nov-78	WISCONSIN ELEC PWR CO	WPC	26.5	0.025972	0.56	0.0071	0.0189	Nov-78
57	Dec-78	WISCONSIN ELEC PWR CO	WPC	26	-0.01887	0	0.0068	-0.0257	Dec-78
57	Jan-79	WISCONSIN ELEC PWR CO	WPC	26.5	0.019231	0	0.0079	0.0113	Jan-79
57	Feb-79	WISCONSIN ELEC PWR CO	WPC	25.875	-0.00245	0.56	0.0065	-0.0090	Feb-79
57	Mar-79	WISCONSIN ELEC PWR CO	WPC	26	0.004831	0	0.0074	-0.0026	Mar-79
57	Apr-79	WISCONSIN ELEC PWR CO	WPC	25.125	-0.03365	0	0.0076	-0.0413	Apr-79
57	May-79	WISCONSIN ELEC PWR CO	WPC	25.125	0.023682	0.595	0.0077	0.0160	May-79
57	Jun-79	WISCONSIN ELEC PWR CO	WPC	26.375	0.049751	0	0.0071	0.0427	Jun-79
57	Jul-79	WISCONSIN ELEC PWR CO	WPC	26.375	0	0	0.0076	-0.0076	Jul-79
57	Aug-79	WISCONSIN ELEC PWR CO	WPC	25.375	-0.01536	0.595	0.0073	-0.0227	Aug-79
57	Sep-79	WISCONSIN ELEC PWR CO	WPC	24.75	-0.02463	0	0.0068	-0.0314	Sep-79

57	Oct-79	WISCONSIN ELEC PWR CO	WPC	23.375	-0.05556	0	0.0082	-0.0638	Oct-79
57	Nov-79	WISCONSIN ELEC PWR CO	WPC	23.75	0.041497	0.595	0.0083	0.0332	Nov-79
57	Dec-79	WISCONSIN ELEC PWR CO	WPC	22.875	-0.03684	0	0.0083	-0.0451	Dec-79
57	Jan-80	WISCONSIN ELEC PWR CO	WPC	22.75	-0.00546	0	0.0083	-0.0138	Jan-80
57	Feb-80	WISCONSIN ELEC PWR CO	WPC	19.625	-0.11121	0.595	0.0084	-0.1196	Feb-80
57	Mar-80	WISCONSIN ELEC PWR CO	WPC	20.375	0.038217	0	0.0099	0.0283	Mar-80
57	Apr-80	WISCONSIN ELEC PWR CO	WPC	24.5	0.202454	0	0.0100	0.1925	Apr-80
57	May-80	WISCONSIN ELEC PWR CO	WPC	25	0.046122	0.63	0.0087	0.0374	May-80
57	Jun-80	WISCONSIN ELEC PWR CO	WPC	25.5	0.02	0	0.0086	0.0114	Jun-80
57	Jul-80	WISCONSIN ELEC PWR CO	WPC	24.375	-0.04412	0	0.0084	-0.0525	Jul-80
57	Aug-80	WISCONSIN ELEC PWR CO	WPC	24.125	0.01559	0.63	0.0081	0.0075	Aug-80
57	Sep-80	WISCONSIN ELEC PWR CO	WPC	23.125	-0.04145	0	0.0097	-0.0512	Sep-80
57	Oct-80	WISCONSIN ELEC PWR CO	WPC	22.625	-0.02162	0	0.0097	-0.0313	Oct-80
57	Nov-80	WISCONSIN ELEC PWR CO	WPC	21.5	-0.02188	0.63	0.0091	-0.0310	Nov-80
57	Dec-80	WISCONSIN ELEC PWR CO	WPC	22.25	0.034884	0	0.0108	0.0241	Dec-80
57	Jan-81	WISCONSIN ELEC PWR CO	WPC	22	-0.01124	0	0.0094	-0.0206	Jan-81
57	Feb-81	WISCONSIN ELEC PWR CO	WPC	21.25	-0.00546	0.63	0.0088	-0.0143	Feb-81
57	Mar-81	WISCONSIN ELEC PWR CO	WPC	22.75	0.070588	0	0.0111	0.0595	Mar-81
57	Apr-81	WISCONSIN ELEC PWR CO	WPC	23	0.010989	0	0.0101	0.0009	Apr-81
57	May-81	WISCONSIN ELEC PWR CO	WPC	23.75	0.061739	0.67	0.0104	0.0513	May-81
57	Jun-81	WISCONSIN ELEC PWR CO	WPC	25	0.052632	0	0.0109	0.0417	Jun-81
57	Jul-81	WISCONSIN ELEC PWR CO	WPC	25.875	0.035	0	0.0109	0.0241	Jul-81
57	Aug-81	WISCONSIN ELEC PWR CO	WPC	25.625	0.016232	0.67	0.0110	0.0052	Aug-81
57	Sep-81	WISCONSIN ELEC PWR CO	WPC	25.375	-0.00976	0	0.0114	-0.0212	Sep-81
57	Oct-81	WISCONSIN ELEC PWR CO	WPC	26.5	0.044335	0	0.0117	0.0326	Oct-81
57	Nov-81	WISCONSIN ELEC PWR CO	WPC	27.5	0.063019	0.67	0.0113	0.0517	Nov-81
57	Dec-81	WISCONSIN ELEC PWR CO	WPC	27.25	-0.00909	0	0.0100	-0.0191	Dec-81
57	Jan-82	WISCONSIN ELEC PWR CO	WPC	28	0.027523	0	0.0108	0.0167	Jan-82
57	Feb-82	WISCONSIN ELEC PWR CO	WPC	29.75	0.086429	0.67	0.0103	0.0761	Feb-82
57	Mar-82	WISCONSIN ELEC PWR CO	WPC	30.25	0.016807	0	0.0124	0.0044	Mar-82
57	Apr-82	WISCONSIN ELEC PWR CO	WPC	31.875	0.053719	0	0.0112	0.0425	Apr-82
57	May-82	WISCONSIN ELEC PWR CO	WPC	31.625	0.01498	0.7275	0.0101	0.0049	May-82
57	Jun-82	WISCONSIN ELEC PWR CO	WPC	30.875	-0.02372	0	0.0120	-0.0357	Jun-82
57	Jul-82	WISCONSIN ELEC PWR CO	WPC	21.125	0.026316	0	0.0114	0.0149	Jul-82
57	Aug-82	WISCONSIN ELEC PWR CO	WPC	22.375	0.08213	0.485	0.0112	0.0709	Aug-82
57	Sep-82	WISCONSIN ELEC PWR CO	WPC	23	0.027933	0	0.0100	0.0179	Sep-82

57	Oct-82	WISCONSIN ELEC PWR CO	WPC	24.25	0.054348	0	0.0091	0.0452	Oct-82
57	Nov-82	WISCONSIN ELEC PWR CO	WPC	20.75	-0.12433	0.485	0.0094	-0.1337	Nov-82
57	Dec-82	WISCONSIN ELEC PWR CO	WPC	22.75	0.096386	0	0.0093	0.0871	Dec-82
57	Jan-83	WISCONSIN ELEC PWR CO	WPC	23	0.010989	0	0.0087	0.0023	Jan-83
57	Feb-83	WISCONSIN ELEC PWR CO	WPC	23.25	0.031957	0.485	0.0081	0.0239	Feb-83
57	Mar-83	WISCONSIN ELEC PWR CO	WPC	23.625	0.016129	0	0.0089	0.0072	Mar-83
57	Apr-83	WISCONSIN ELEC PWR CO	WPC	24.125	0.021164	0	0.0085	0.0127	Apr-83
57	May-83	WISCONSIN ELEC PWR CO	WPC	22.875	-0.03005	0.525	0.0091	-0.0392	May-83
57	Jun-83	WISCONSIN ELEC PWR CO	WPC	23.25	0.016393	0	0.0090	0.0074	Jun-83
57	Jul-83	WISCONSIN ELEC PWR CO	WPC	24.75	0.064516	0	0.0088	0.0557	Jul-83
57	Aug-83	WISCONSIN ELEC PWR CO	WPC	23.75	-0.01919	0.525	0.0103	-0.0295	Aug-83
57	Sep-83	WISCONSIN ELEC PWR CO	WPC	25.875	0.089474	0	0.0096	0.0799	Sep-83
57	Oct-83	WISCONSIN ELEC PWR CO	WPC	28.5	0.101449	0	0.0095	0.0919	Oct-83
57	Nov-83	WISCONSIN ELEC PWR CO	WPC	28.25	0.009649	0.525	0.0094	0.0002	Nov-83
57	Dec-83	WISCONSIN ELEC PWR CO	WPC	27.5	-0.02655	0	0.0094	-0.0359	Dec-83
57	Jan-84	WISCONSIN ELEC PWR CO	WPC	27.625	0.004545	0	0.0103	-0.0058	Jan-84
57	Feb-84	WISCONSIN ELEC PWR CO	WPC	25.625	-0.05339	0.525	0.0092	-0.0626	Feb-84
57	Mar-84	WISCONSIN ELEC PWR CO	WPC	26	0.014634	0	0.0098	0.0048	Mar-84
57	Apr-84	WISCONSIN ELEC PWR CO	WPC	26.75	0.028846	0	0.0104	0.0184	Apr-84
57	May-84	WISCONSIN ELEC PWR CO	WPC	27	0.030654	0.57	0.0103	0.0204	May-84
57	Jun-84	WISCONSIN ELEC PWR CO	WPC	27.875	0.032407	0	0.0106	0.0218	Jun-84
57	Jul-84	WISCONSIN ELEC PWR CO	WPC	28.5	0.022422	0	0.0116	0.0108	Jul-84
57	Aug-84	WISCONSIN ELEC PWR CO	WPC	29.5	0.055088	0.57	0.0106	0.0445	Aug-84
57	Sep-84	WISCONSIN ELEC PWR CO	WPC	31.5	0.067797	0	0.0094	0.0584	Sep-84
57	Oct-84	WISCONSIN ELEC PWR CO	WPC	31.125	-0.01191	0	0.0108	-0.0227	Oct-84
57	Nov-84	WISCONSIN ELEC PWR CO	WPC	30.875	0.010281	0.57	0.0091	0.0012	Nov-84
57	Dec-84	WISCONSIN ELEC PWR CO	WPC	31.125	0.008097	0	0.0098	-0.0017	Dec-84
57	Jan-85	WISCONSIN ELEC PWR CO	WPC	31.75	0.02008	0	0.0096	0.0105	Jan-85
57	Feb-85	WISCONSIN ELEC PWR CO	WPC	31.375	0.006142	0.57	0.0082	-0.0021	Feb-85
57	Mar-85	WISCONSIN ELEC PWR CO	WPC	32.625	0.039841	0	0.0094	0.0304	Mar-85
57	Apr-85	WISCONSIN ELEC PWR CO	WPC	34.5	0.057471	0	0.0102	0.0473	Apr-85
57	May-85	WISCONSIN ELEC PWR CO	WPC	37.25	0.097681	0.62	0.0097	0.0880	May-85
57	Jun-85	WISCONSIN ELEC PWR CO	WPC	38.125	0.02349	0	0.0080	0.0155	Jun-85
57	Jul-85	WISCONSIN ELEC PWR CO	WPC	35.125	-0.07869	0	0.0094	-0.0881	Jul-85
57	Aug-85	WISCONSIN ELEC PWR CO	WPC	35.75	0.035445	0.62	0.0085	0.0269	Aug-85
57	Sep-85	WISCONSIN ELEC PWR CO	WPC	35	-0.02098	0	0.0088	-0.0298	Sep-85

57	Oct-85	WISCONSIN ELEC PWR CO	WPC	36.625	0.046429	0	0.0089	0.0375	Oct-85
57	Nov-85	WISCONSIN ELEC PWR CO	WPC	38.5	0.068123	0.62	0.0081	0.0600	Nov-85
57	Dec-85	WISCONSIN ELEC PWR CO	WPC	39.75	0.032468	0	0.0086	0.0239	Dec-85
57	Jan-86	WISCONSIN ELEC PWR CO	WPC	42.75	0.075472	0	0.0079	0.0676	Jan-86
57	Feb-86	WISCONSIN ELEC PWR CO	WPC	45.75	0.084678	0.62	0.0073	0.0774	Feb-86
57	Mar-86	WISCONSIN ELEC PWR CO	WPC	48	0.04918	0	0.0071	0.0421	Mar-86
57	Apr-86	WISCONSIN ELEC PWR CO	WPC	49.625	0.033854	0	0.0063	0.0276	Apr-86
57	May-86	WISCONSIN ELEC PWR CO	WPC	49.625	0.013501	0.67	0.0062	0.0073	May-86
57	Jun-86	WISCONSIN ELEC PWR CO	WPC	55.125	0.110831	0	0.0070	0.1038	Jun-86
57	Jul-86	WISCONSIN ELEC PWR CO	WPC	58.75	0.06576	0	0.0066	0.0592	Jul-86
57	Aug-86	WISCONSIN ELEC PWR CO	WPC	60.75	0.045447	0.67	0.0063	0.0391	Aug-86
57	Sep-86	WISCONSIN ELEC PWR CO	WPC	57.125	-0.05967	0	0.0065	-0.0662	Sep-86
57	Oct-86	WISCONSIN ELEC PWR CO	WPC	57	-0.00219	0	0.0069	-0.0091	Oct-86
57	Nov-86	WISCONSIN ELEC PWR CO	WPC	57	0.011754	0.67	0.0059	0.0059	Nov-86
57	Dec-86	WISCONSIN ELEC PWR CO	WPC	52.625	-0.07675	0	0.0070	-0.0838	Dec-86
57	Jan-87	WISCONSIN ENERGY CORP	WEC	55.625	0.057007	0	0.0064	0.0506	Jan-87
57	Feb-87	WISCONSIN ENERGY CORP	WEC	50.25	-0.08458	0.67	0.0059	-0.0905	Feb-87
57	Mar-87	WISCONSIN ENERGY CORP	WEC	50	-0.00498	0	0.0066	-0.0116	Mar-87
57	Apr-87	WISCONSIN ENERGY CORP	WEC	49	-0.02	0	0.0065	-0.0265	Apr-87
57	May-87	WISCONSIN ENERGY CORP	WEC	47.75	-0.01082	0.72	0.0066	-0.0174	May-87
57	Jun-87	WISCONSIN ENERGY CORP	WEC	49	0.026178	0	0.0075	0.0187	Jun-87
57	Jul-87	WISCONSIN ENERGY CORP	WEC	24.375	-0.0051	0	0.0073	-0.0124	Jul-87
57	Aug-87	WISCONSIN ENERGY CORP	WEC	24.625	0.025026	0.36	0.0075	0.0175	Aug-87
57	Sep-87	WISCONSIN ENERGY CORP	WEC	24.875	0.010152	0	0.0075	0.0027	Sep-87
57	Oct-87	WISCONSIN ENERGY CORP	WEC	24.5	-0.01508	0	0.0079	-0.0230	Oct-87
57	Nov-87	WISCONSIN ENERGY CORP	WEC	22.125	-0.08225	0.36	0.0075	-0.0897	Nov-87
57	Dec-87	WISCONSIN ENERGY CORP	WEC	22.5	0.016949	0	0.0078	0.0091	Dec-87
57	Jan-88	WISCONSIN ENERGY CORP	WEC	26.125	0.161111	0	0.0072	0.1539	Jan-88
57	Feb-88	WISCONSIN ENERGY CORP	WEC	25.375	-0.01493	0.36	0.0071	-0.0220	Feb-88
57	Mar-88	WISCONSIN ENERGY CORP	WEC	24.75	-0.02463	0	0.0072	-0.0318	Mar-88
57	Apr-88	WISCONSIN ENERGY CORP	WEC	25.25	0.020202	0	0.0070	0.0132	Apr-88
57	May-88	WISCONSIN ENERGY CORP	WEC	26.125	0.049901	0.385	0.0078	0.0421	May-88
57	Jun-88	WISCONSIN ENERGY CORP	WEC	26.5	0.014354	0	0.0076	0.0068	Jun-88
57	Jul-88	WISCONSIN ENERGY CORP	WEC	26.25	-0.00943	0	0.0071	-0.0165	Jul-88
57	Aug-88	WISCONSIN ENERGY CORP	WEC	26	0.005143	0.385	0.0083	-0.0032	Aug-88
57	Sep-88	WISCONSIN ENERGY CORP	WEC	26.25	0.009615	0	0.0076	0.0020	Sep-88

57	Oct-88	WISCONSIN ENERGY CORP	WEC	27.625	0.052381	0	0.0076	0.0448	Oct-88
57	Nov-88	WISCONSIN ENERGY CORP	WEC	27.25	0.000362	0.385	0.0070	-0.0066	Nov-88
57	Dec-88	WISCONSIN ENERGY CORP	WEC	27	-0.00917	0	0.0075	-0.0167	Dec-88
57	Jan-89	WISCONSIN ENERGY CORP	WEC	26.25	-0.02778	0	0.0080	-0.0358	Jan-89
57	Feb-89	WISCONSIN ENERGY CORP	WEC	26.375	0.019429	0.385	0.0069	0.0125	Feb-89
57	Mar-89	WISCONSIN ENERGY CORP	WEC	25.5	-0.03318	0	0.0079	-0.0411	Mar-89
57	Apr-89	WISCONSIN ENERGY CORP	WEC	27.125	0.063725	0	0.0070	0.0567	Apr-89
57	May-89	WISCONSIN ENERGY CORP	WEC	28.5	0.065991	0.415	0.0080	0.0580	May-89
57	Jun-89	WISCONSIN ENERGY CORP	WEC	28.5	0	0	0.0070	-0.0070	Jun-89
57	Jul-89	WISCONSIN ENERGY CORP	WEC	30	0.052632	0	0.0068	0.0458	Jul-89
57	Aug-89	WISCONSIN ENERGY CORP	WEC	29	-0.0195	0.415	0.0066	-0.0261	Aug-89
57	Sep-89	WISCONSIN ENERGY CORP	WEC	29	0	0	0.0065	-0.0065	Sep-89
57	Oct-89	WISCONSIN ENERGY CORP	WEC	29.125	0.00431	0	0.0072	-0.0029	Oct-89
57	Nov-89	WISCONSIN ENERGY CORP	WEC	29.75	0.035708	0.415	0.0064	0.0293	Nov-89
57	Dec-89	WISCONSIN ENERGY CORP	WEC	32	0.07563	0	0.0064	0.0692	Dec-89
57	Jan-90	WISCONSIN ENERGY CORP	WEC	29.625	-0.07422	0	0.0073	-0.0815	Jan-90
57	Feb-90	WISCONSIN ENERGY CORP	WEC	28.875	-0.01131	0.415	0.0066	-0.0179	Feb-90
57	Mar-90	WISCONSIN ENERGY CORP	WEC	28.5	-0.01299	0	0.0071	-0.0201	Mar-90
57	Apr-90	WISCONSIN ENERGY CORP	WEC	27.125	-0.04825	0	0.0075	-0.0557	Apr-90
57	May-90	WISCONSIN ENERGY CORP	WEC	28.25	0.057696	0.44	0.0075	0.0502	May-90
57	Jun-90	WISCONSIN ENERGY CORP	WEC	29	0.026549	0	0.0068	0.0197	Jun-90
57	Jul-90	WISCONSIN ENERGY CORP	WEC	29.5	0.017241	0	0.0074	0.0098	Jul-90
57	Aug-90	WISCONSIN ENERGY CORP	WEC	27.875	-0.04017	0.44	0.0071	-0.0473	Aug-90
57	Sep-90	WISCONSIN ENERGY CORP	WEC	27.875	0	0	0.0069	-0.0069	Sep-90
57	Oct-90	WISCONSIN ENERGY CORP	WEC	30.375	0.089686	0	0.0081	0.0816	Oct-90
57	Nov-90	WISCONSIN ENERGY CORP	WEC	31.375	0.047407	0.44	0.0071	0.0403	Nov-90
57	Dec-90	WISCONSIN ENERGY CORP	WEC	31.625	0.007968	0	0.0072	0.0008	Dec-90
57	Jan-91	WISCONSIN ENERGY CORP	WEC	31.5	-0.00395	0	0.0071	-0.0111	Jan-91
57	Feb-91	WISCONSIN ENERGY CORP	WEC	32.25	0.037778	0.44	0.0064	0.0314	Feb-91
57	Mar-91	WISCONSIN ENERGY CORP	WEC	34.25	0.062016	0	0.0064	0.0556	Mar-91
57	Apr-91	WISCONSIN ENERGY CORP	WEC	33.125	-0.03285	0	0.0076	-0.0404	Apr-91
57	May-91	WISCONSIN ENERGY CORP	WEC	33.125	0.014038	0.465	0.0068	0.0072	May-91
57	Jun-91	WISCONSIN ENERGY CORP	WEC	32.375	-0.02264	0	0.0063	-0.0289	Jun-91
57	Jul-91	WISCONSIN ENERGY CORP	WEC	34.125	0.054054	0	0.0076	0.0465	Jul-91
57	Aug-91	WISCONSIN ENERGY CORP	WEC	35	0.039267	0.465	0.0068	0.0325	Aug-91
57	Sep-91	WISCONSIN ENERGY CORP	WEC	36.75	0.05	0	0.0068	0.0432	Sep-91

57	Oct-91	WISCONSIN ENERGY CORP	WEC	36.625	-0.0034	0	0.0065	-0.0099	Oct-91
57	Nov-91	WISCONSIN ENERGY CORP	WEC	37.25	0.029761	0.465	0.0060	0.0238	Nov-91
57	Dec-91	WISCONSIN ENERGY CORP	WEC	39.25	0.053691	0	0.0068	0.0469	Dec-91
57	Jan-92	WISCONSIN ENERGY CORP	WEC	37.75	-0.03822	0	0.0061	-0.0443	Jan-92
57	Feb-92	WISCONSIN ENERGY CORP	WEC	37.375	0.002384	0.465	0.0059	-0.0035	Feb-92
57	Mar-92	WISCONSIN ENERGY CORP	WEC	37	-0.01003	0	0.0067	-0.0167	Mar-92
57	Apr-92	WISCONSIN ENERGY CORP	WEC	38.75	0.047297	0	0.0065	0.0408	Apr-92
57	May-92	WISCONSIN ENERGY CORP	WEC	39.125	0.022258	0.4875	0.0061	0.0162	May-92
57	Jun-92	WISCONSIN ENERGY CORP	WEC	39.875	0.019169	0	0.0067	0.0125	Jun-92
57	Jul-92	WISCONSIN ENERGY CORP	WEC	28.125	0.057994	0	0.0063	0.0517	Jul-92
57	Aug-92	WISCONSIN ENERGY CORP	WEC	27.25	-0.01956	0.325	0.0060	-0.0256	Aug-92
57	Sep-92	WISCONSIN ENERGY CORP	WEC	26.875	-0.01376	0	0.0058	-0.0196	Sep-92
57	Oct-92	WISCONSIN ENERGY CORP	WEC	26	-0.03256	0	0.0057	-0.0383	Oct-92
57	Nov-92	WISCONSIN ENERGY CORP	WEC	25.375	-0.01154	0.325	0.0061	-0.0176	Nov-92
57	Dec-92	WISCONSIN ENERGY CORP	WEC	26.5	0.044335	0	0.0063	0.0380	Dec-92
57	Jan-93	WISCONSIN ENERGY CORP	WEC	26.25	-0.00943	0	0.0059	-0.0153	Jan-93
57	Feb-93	WISCONSIN ENERGY CORP	WEC	27.875	0.074286	0.325	0.0055	0.0688	Feb-93
57	Mar-93	WISCONSIN ENERGY CORP	WEC	27.75	-0.00448	0	0.0063	-0.0108	Mar-93
57	Apr-93	WISCONSIN ENERGY CORP	WEC	27.5	-0.00901	0	0.0057	-0.0147	Apr-93
57	May-93	WISCONSIN ENERGY CORP	WEC	26.75	-0.01496	0.33875	0.0052	-0.0202	May-93
57	Jun-93	WISCONSIN ENERGY CORP	WEC	27.625	0.03271	0	0.0062	0.0265	Jun-93
57	Jul-93	WISCONSIN ENERGY CORP	WEC	27.625	0	0	0.0054	-0.0054	Jul-93
57	Aug-93	WISCONSIN ENERGY CORP	WEC	28.75	0.052986	0.33875	0.0056	0.0474	Aug-93
57	Sep-93	WISCONSIN ENERGY CORP	WEC	28.875	0.004348	0	0.0050	-0.0007	Sep-93
57	Oct-93	WISCONSIN ENERGY CORP	WEC	29	0.004329	0	0.0049	-0.0006	Oct-93
57	Nov-93	WISCONSIN ENERGY CORP	WEC	27.125	-0.05297	0.33875	0.0053	-0.0583	Nov-93
57	Dec-93	WISCONSIN ENERGY CORP	WEC	27.5	0.013825	0	0.0055	0.0083	Dec-93
57	Jan-94	WISCONSIN ENERGY CORP	WEC	26.75	-0.02727	0	0.0055	-0.0328	Jan-94
57	Feb-94	WISCONSIN ENERGY CORP	WEC	25	-0.05276	0.33875	0.0049	-0.0577	Feb-94
57	Mar-94	WISCONSIN ENERGY CORP	WEC	25.25	0.01	0	0.0058	0.0042	Mar-94
57	Apr-94	WISCONSIN ENERGY CORP	WEC	26.125	0.034653	0	0.0057	0.0290	Apr-94
57	May-94	WISCONSIN ENERGY CORP	WEC	25.25	-0.02	0.3525	0.0063	-0.0263	May-94
57	Jun-94	WISCONSIN ENERGY CORP	WEC	23.875	-0.05446	0	0.0061	-0.0606	Jun-94
57	Jul-94	WISCONSIN ENERGY CORP	WEC	26	0.089005	0	0.0060	0.0830	Jul-94
57	Aug-94	WISCONSIN ENERGY CORP	WEC	26	0.013558	0.3525	0.0066	0.0070	Aug-94
57	Sep-94	WISCONSIN ENERGY CORP	WEC	25.375	-0.02404	0	0.0061	-0.0301	Sep-94

57	Oct-94	WISCONSIN ENERGY CORP	WEC	26.5	0.044335	0	0.0066	0.0377	Oct-94
57	Nov-94	WISCONSIN ENERGY CORP	WEC	26	-0.00557	0.3525	0.0064	-0.0120	Nov-94
57	Dec-94	WISCONSIN ENERGY CORP	WEC	25.875	-0.00481	0	0.0066	-0.0114	Dec-94
57	Jan-95	WISCONSIN ENERGY CORP	WEC	28	0.082126	0	0.0070	0.0751	Jan-95
57	Feb-95	WISCONSIN ENERGY CORP	WEC	27.75	0.003661	0.3525	0.0059	-0.0022	Feb-95
57	Mar-95	WISCONSIN ENERGY CORP	WEC	27.125	-0.02252	0	0.0064	-0.0289	Mar-95
57	Apr-95	WISCONSIN ENERGY CORP	WEC	27.75	0.023041	0	0.0058	0.0172	Apr-95
57	May-95	WISCONSIN ENERGY CORP	WEC	28.875	0.053784	0.3675	0.0065	0.0473	May-95
57	Jun-95	WISCONSIN ENERGY CORP	WEC	28	-0.0303	0	0.0054	-0.0357	Jun-95
57	Jul-95	WISCONSIN ENERGY CORP	WEC	28	0	0	0.0056	-0.0056	Jul-95
57	Aug-95	WISCONSIN ENERGY CORP	WEC	26.875	-0.02705	0.3675	0.0057	-0.0328	Aug-95
57	Sep-95	WISCONSIN ENERGY CORP	WEC	28.375	0.055814	0	0.0052	0.0506	Sep-95
57	Oct-95	WISCONSIN ENERGY CORP	WEC	29.5	0.039648	0	0.0057	0.0339	Oct-95
57	Nov-95	WISCONSIN ENERGY CORP	WEC	29.5	0.012458	0.3675	0.0051	0.0074	Nov-95
57	Dec-95	WISCONSIN ENERGY CORP	WEC	30.625	0.038136	0	0.0049	0.0332	Dec-95
57	Jan-96	WISCONSIN ENERGY CORP	WEC	31.5	0.028571	0	0.0054	0.0232	Jan-96
57	Feb-96	WISCONSIN ENERGY CORP	WEC	28.875	-0.07167	0.3675	0.0048	-0.0765	Feb-96
57	Mar-96	WISCONSIN ENERGY CORP	WEC	28.375	-0.01732	0	0.0052	-0.0225	Mar-96
57	Apr-96	WISCONSIN ENERGY CORP	WEC	26.625	-0.06167	0	0.0059	-0.0676	Apr-96
57	May-96	WISCONSIN ENERGY CORP	WEC	28	0.065915	0.38	0.0058	0.0601	May-96
57	Jun-96	WISCONSIN ENERGY CORP	WEC	28.875	0.03125	0	0.0054	0.0259	Jun-96
57	Jul-96	WISCONSIN ENERGY CORP	WEC	26.625	-0.07792	0	0.0062	-0.0841	Jul-96
57	Aug-96	WISCONSIN ENERGY CORP	WEC	27.5	0.047136	0.38	0.0057	0.0414	Aug-96
57	Sep-96	WISCONSIN ENERGY CORP	WEC	27	-0.01818	0	0.0060	-0.0242	Sep-96
57	Oct-96	WISCONSIN ENERGY CORP	WEC	27.125	0.00463	0	0.0058	-0.0012	Oct-96
57	Nov-96	WISCONSIN ENERGY CORP	WEC	26.75	0.000184	0.38	0.0052	-0.0050	Nov-96
57	Dec-96	WISCONSIN ENERGY CORP	WEC	26.875	0.004673	0	0.0056	-0.0009	Dec-96
57	Jan-97	WISCONSIN ENERGY CORP	WEC	25.875	-0.03721	0	0.0056	-0.0428	Jan-97
57	Feb-97	WISCONSIN ENERGY CORP	WEC	25.625	0.005024	0.38	0.0051	-0.0001	Feb-97
57	Mar-97	WISCONSIN ENERGY CORP	WEC	24.5	-0.0439	0	0.0059	-0.0498	Mar-97
57	Apr-97	WISCONSIN ENERGY CORP	WEC	25	0.020408	0	0.0059	0.0145	Apr-97
57	May-97	WISCONSIN ENERGY CORP	WEC	24.125	-0.0196	0.385	0.0058	-0.0254	May-97
57	Jun-97	WISCONSIN ENERGY CORP	WEC	24.875	0.031088	0	0.0059	0.0252	Jun-97
57	Jul-97	WISCONSIN ENERGY CORP	WEC	25.563	0.027638	0	0.0058	0.0218	Jul-97
57	Aug-97	WISCONSIN ENERGY CORP	WEC	25.563	0.015061	0.385	0.0049	0.0102	Aug-97
57	Sep-97	WISCONSIN ENERGY CORP	WEC	26	0.017115	0	0.0058	0.0113	Sep-97

57	Oct-97	WISCONSIN ENERGY CORP	WEC	25.313	-0.02644	0	0.0054	-0.0318	Oct-97
57	Nov-97	WISCONSIN ENERGY CORP	WEC	27.063	0.084346	0.385	0.0047	0.0796	Nov-97
57	Dec-97	WISCONSIN ENERGY CORP	WEC	28.75	0.062356	0	0.0054	0.0570	Dec-97
57	Jan-98	WISCONSIN ENERGY CORP	WEC	27.563	-0.0413	0	0.0048	-0.0461	Jan-98
57	Feb-98	WISCONSIN ENERGY CORP	WEC	27.25	0.00263	0.385	0.0044	-0.0018	Feb-98
57	Mar-98	WISCONSIN ENERGY CORP	WEC	30.688	0.126147	0	0.0052	0.1209	Mar-98
57	Apr-98	WISCONSIN ENERGY CORP	WEC	30.5	-0.00611	0	0.0049	-0.0110	Apr-98
57	May-98	WISCONSIN ENERGY CORP	WEC	29.5	-0.02	0.39	0.0048	-0.0248	May-98
57	Jun-98	WISCONSIN ENERGY CORP	WEC	30.375	0.029661	0	0.0052	0.0245	Jun-98
57	Jul-98	WISCONSIN ENERGY CORP	WEC	28.438	-0.06379	0	0.0049	-0.0687	Jul-98
57	Aug-98	WISCONSIN ENERGY CORP	WEC	29.063	0.035692	0.39	0.0048	0.0309	Aug-98
57	Sep-98	WISCONSIN ENERGY CORP	WEC	31.563	0.086022	0	0.0044	0.0816	Sep-98
57	Oct-98	WISCONSIN ENERGY CORP	WEC	30.625	-0.0297	0	0.0042	-0.0339	Oct-98
57	Nov-98	WISCONSIN ENERGY CORP	WEC	30.938	0.022939	0.39	0.0045	0.0184	Nov-98
57	Dec-98	WISCONSIN ENERGY CORP	WEC	31.438	0.016162	0	0.0045	0.0117	Dec-98
57	Jan-99	WISCONSIN ENERGY CORP	WEC	26	-0.17296	0	0.0042	-0.1772	Jan-99
57	Feb-99	WISCONSIN ENERGY CORP	WEC	25.563	-0.00183	0.39	0.0040	-0.0058	Feb-99
57	Mar-99	WISCONSIN ENERGY CORP	WEC	26.063	0.01956	0	0.0053	0.0143	Mar-99
57	Apr-99	WISCONSIN ENERGY CORP	WEC	26.875	0.031175	0	0.0048	0.0264	Apr-99
57	May-99	WISCONSIN ENERGY CORP	WEC	27.75	0.04707	0.39	0.0045	0.0426	May-99
57	Jun-99	WISCONSIN ENERGY CORP	WEC	25.063	-0.09685	0	0.0055	-0.1023	Jun-99
57	Jul-99	WISCONSIN ENERGY CORP	WEC	25.125	0.002494	0	0.0051	-0.0026	Jul-99
57	Aug-99	WISCONSIN ENERGY CORP	WEC	24.438	-0.01184	0.39	0.0054	-0.0172	Aug-99
57	Sep-99	WISCONSIN ENERGY CORP	WEC	23.438	-0.04092	0	0.0052	-0.0461	Sep-99
57	Oct-99	WISCONSIN ENERGY CORP	WEC	22.375	-0.04533	0	0.0050	-0.0503	Oct-99
57	Nov-99	WISCONSIN ENERGY CORP	WEC	19.875	-0.0943	0.39	0.0056	-0.0999	Nov-99
57	Dec-99	WISCONSIN ENERGY CORP	WEC	19.25	-0.03145	0	0.0055	-0.0369	Dec-99
57	Jan-00	WISCONSIN ENERGY CORP	WEC	19.75	0.025974	0	0.0057	0.0203	Jan-00
57	Feb-00	WISCONSIN ENERGY CORP	WEC	17.688	-0.08468	0.39	0.0051	-0.0898	Feb-00
57	Mar-00	WISCONSIN ENERGY CORP	WEC	19.938	0.127208	0	0.0054	0.1218	Mar-00
57	Apr-00	WISCONSIN ENERGY CORP	WEC	21.375	0.0721	0	0.0047	0.0674	Apr-00
57	May-00	WISCONSIN ENERGY CORP	WEC	21.125	0.00655	0.39	0.0056	0.0010	May-00
57	Jun-00	WISCONSIN ENERGY CORP	WEC	19.813	-0.06213	0	0.0052	-0.0673	Jun-00
57	Jul-00	WISCONSIN ENERGY CORP	WEC	19.875	0.003155	0	0.0052	-0.0020	Jul-00
57	Aug-00	WISCONSIN ENERGY CORP	WEC	21.25	0.088805	0.39	0.0050	0.0838	Aug-00
57	Sep-00	WISCONSIN ENERGY CORP	WEC	19.938	-0.06177	0	0.0046	-0.0664	Sep-00

57	Oct-00	WISCONSIN ENERGY CORP	WEC	18.813	-0.05643	0	0.0053	-0.0617	Oct-00
57	Nov-00	WISCONSIN ENERGY CORP	WEC	21.313	0.143522	0.2	0.0048	0.1387	Nov-00
57	Dec-00	WISCONSIN ENERGY CORP	WEC	22.563	0.058651	0	0.0045	0.0542	Dec-00
57	Jan-01	WISCONSIN ENERGY CORP	WEC	20.1	-0.10914	0	0.0049	-0.1140	Jan-01
57	Feb-01	WISCONSIN ENERGY CORP	WEC	22.12	0.110448	0.2	0.0042	0.1062	Feb-01
57	Mar-01	WISCONSIN ENERGY CORP	WEC	21.58	-0.02441	0	0.0045	-0.0289	Mar-01
57	Apr-01	WISCONSIN ENERGY CORP	WEC	22	0.019462	0	0.0047	0.0148	Apr-01
57	May-01	WISCONSIN ENERGY CORP	WEC	23.3	0.068182	0.2	0.0050	0.0632	May-01
57	Jun-01	WISCONSIN ENERGY CORP	WEC	23.77	0.020172	0	0.0047	0.0155	Jun-01
57	Jul-01	WISCONSIN ENERGY CORP	WEC	22.14	-0.06857	0	0.0052	-0.0738	Jul-01
57	Aug-01	WISCONSIN ENERGY CORP	WEC	24.1	0.097561	0.2	0.0046	0.0930	Aug-01
57	Sep-01	WISCONSIN ENERGY CORP	WEC	22.5	-0.06639	0	0.0041	-0.0705	Sep-01
57	Oct-01	WISCONSIN ENERGY CORP	WEC	22.21	-0.01289	0	0.0048	-0.0177	Oct-01
57	Nov-01	WISCONSIN ENERGY CORP	WEC	21.85	-0.0072	0.2	0.0041	-0.0113	Nov-01
57	Dec-01	WISCONSIN ENERGY CORP	WEC	22.56	0.032494	0	0.0046	0.0279	Dec-01
57	Jan-02	WISCONSIN ENERGY CORP	WEC	22.6	0.001773	0	0.0048	-0.0030	Jan-02
57	Feb-02	WISCONSIN ENERGY CORP	WEC	24.17	0.078319	0.2	0.0043	0.0740	Feb-02
57	Mar-02	WISCONSIN ENERGY CORP	WEC	24.88	0.029375	0	0.0043	0.0251	Mar-02
57	Apr-02	WISCONSIN ENERGY CORP	WEC	26	0.045016	0	0.0054	0.0396	Apr-02
57	May-02	WISCONSIN ENERGY CORP	WEC	26.31	0.019615	0.2	0.0049	0.0147	May-02
57	Jun-02	WISCONSIN ENERGY CORP	WEC	25.27	-0.03953	0	0.0044	-0.0439	Jun-02
57	Jul-02	WISCONSIN ENERGY CORP	WEC	25.33	0.002374	0	0.0051	-0.0027	Jul-02
57	Aug-02	WISCONSIN ENERGY CORP	WEC	25.41	0.011054	0.2	0.0044	0.0067	Aug-02
57	Sep-02	WISCONSIN ENERGY CORP	WEC	24.3	-0.04368	0	0.0042	-0.0479	Sep-02
57	Oct-02	WISCONSIN ENERGY CORP	WEC	22.98	-0.05432	0	0.0040	-0.0583	Oct-02
57	Nov-02	WISCONSIN ENERGY CORP	WEC	23.01	0.010009	0.2	0.0040	0.0060	Nov-02
57	Dec-02	WISCONSIN ENERGY CORP	WEC	25.2	0.095176	0	0.0045	0.0907	Dec-02
57	Jan-03	WISCONSIN ENERGY CORP	WEC	24.25	-0.0377	0	0.0041	-0.0418	Jan-03
57	Feb-03	WISCONSIN ENERGY CORP	WEC	22.85	-0.04949	0.2	0.0038	-0.0533	Feb-03
57	Mar-03	WISCONSIN ENERGY CORP	WEC	25.4	0.111597	0	0.0040	0.1076	Mar-03
57	Apr-03	WISCONSIN ENERGY CORP	WEC	26.33	0.036614	0	0.0040	0.0326	Apr-03
57	May-03	WISCONSIN ENERGY CORP	WEC	27.85	0.065325	0.2	0.0039	0.0614	May-03
57	Jun-03	WISCONSIN ENERGY CORP	WEC	29	0.041293	0	0.0036	0.0377	Jun-03
57	Jul-03	WISCONSIN ENERGY CORP	WEC	28.15	-0.02931	0	0.0038	-0.0331	Jul-03
57	Aug-03	WISCONSIN ENERGY CORP	WEC	29.14	0.042274	0.2	0.0042	0.0381	Aug-03
57	Sep-03	WISCONSIN ENERGY CORP	WEC	30.57	0.049073	0	0.0046	0.0445	Sep-03

57	Oct-03	WISCONSIN ENERGY CORP	WEC	32.75	0.071312	0	0.0041	0.0672	Oct-03
57	Nov-03	WISCONSIN ENERGY CORP	WEC	32.7	0.00458	0.2	0.0039	0.0007	Nov-03
57	Dec-03	WISCONSIN ENERGY CORP	WEC	33.45	0.022936	0	0.0047	0.0182	Dec-03
57	Jan-04	WISCONSIN ENERGY CORP	WEC	33.09	-0.01076	0	0.0042	-0.0150	Jan-04
57	Feb-04	WISCONSIN ENERGY CORP	WEC	32.32	-0.01723	0.2	0.0038	-0.0210	Feb-04
57	Mar-04	WISCONSIN ENERGY CORP	WEC	32.15	-0.00526	0	0.0043	-0.0096	Mar-04
57	Apr-04	WISCONSIN ENERGY CORP	WEC	31.4	-0.02333	0	0.0039	-0.0272	Apr-04
57	May-04	WISCONSIN ENERGY CORP	WEC	31.81	0.019745	0.21	0.0040	0.0157	May-04
57	Jun-04	WISCONSIN ENERGY CORP	WEC	32.61	0.025149	0	0.0048	0.0203	Jun-04
57	Jul-04	WISCONSIN ENERGY CORP	WEC	32.15	-0.01411	0	0.0043	-0.0184	Jul-04
57	Aug-04	WISCONSIN ENERGY CORP	WEC	32.75	0.025194	0.21	0.0045	0.0207	Aug-04
57	Sep-04	WISCONSIN ENERGY CORP	WEC	31.9	-0.02595	0	0.0040	-0.0300	Sep-04
57	Oct-04	WISCONSIN ENERGY CORP	WEC	32.64	0.023197	0	0.0038	0.0194	Oct-04
57	Nov-04	WISCONSIN ENERGY CORP	WEC	33.27	0.025735	0.21	0.0041	0.0216	Nov-04
57	Dec-04	WISCONSIN ENERGY CORP	WEC	33.71	0.013225	0	0.0043	0.0089	Dec-04
57	Jan-05	WISCONSIN ENERGY CORP	WEC	34.18	0.013942	0	0.0041	0.0098	Jan-05
57	Feb-05	WISCONSIN ENERGY CORP	WEC	34.72	0.022235	0.22	0.0035	0.0187	Feb-05
57	Mar-05	WISCONSIN ENERGY CORP	WEC	35.5	0.022465	0	0.0041	0.0184	Mar-05
57	Apr-05	WISCONSIN ENERGY CORP	WEC	35.26	-0.00676	0	0.0039	-0.0107	Apr-05
57	May-05	WISCONSIN ENERGY CORP	WEC	36.3	0.035735	0.22	0.0040	0.0317	May-05
57	Jun-05	WISCONSIN ENERGY CORP	WEC	39	0.07438	0	0.0036	0.0708	Jun-05
57	Jul-05	WISCONSIN ENERGY CORP	WEC	40.15	0.029487	0	0.0034	0.0261	Jul-05
57	Aug-05	WISCONSIN ENERGY CORP	WEC	39.17	-0.01893	0.22	0.0040	-0.0229	Aug-05
57	Sep-05	WISCONSIN ENERGY CORP	WEC	39.92	0.019147	0	0.0035	0.0156	Sep-05
57	Oct-05	WISCONSIN ENERGY CORP	WEC	37.83	-0.05236	0	0.0039	-0.0563	Oct-05
57	Nov-05	WISCONSIN ENERGY CORP	WEC	37.95	0.008988	0.22	0.0039	0.0051	Nov-05
57	Dec-05	WISCONSIN ENERGY CORP	WEC	39.06	0.029249	0	0.0039	0.0253	Dec-05
57	Jan-06	WISCONSIN ENERGY CORP	WEC	41.51	0.062724	0	0.0040	0.0587	Jan-06
57	Feb-06	WISCONSIN ENERGY CORP	WEC	40.87	-0.00988	0.23	0.0036	-0.0135	Feb-06
57	Mar-06	WISCONSIN ENERGY CORP	WEC	39.99	-0.02153	0	0.0039	-0.0254	Mar-06
57	Apr-06	WISCONSIN ENERGY CORP	WEC	39.05	-0.02351	0	0.0039	-0.0274	Apr-06
57	May-06	WISCONSIN ENERGY CORP	WEC	39.87	0.026889	0.23	0.0048	0.0221	May-06
57	Jun-06	WISCONSIN ENERGY CORP	WEC	40.3	0.010785	0	0.0044	0.0064	Jun-06
57	Jul-06	WISCONSIN ENERGY CORP	WEC	42.2	0.047146	0	0.0045	0.0426	Jul-06
57	Aug-06	WISCONSIN ENERGY CORP	WEC	43	0.024408	0.23	0.0043	0.0201	Aug-06
57	Sep-06	WISCONSIN ENERGY CORP	WEC	43.14	0.003256	0	0.0039	-0.0006	Sep-06

57	Oct-06	WISCONSIN ENERGY CORP	WEC	45.94	0.064905	0	0.0042	0.0607	Oct-06
57	Nov-06	WISCONSIN ENERGY CORP	WEC	46.78	0.023291	0.23	0.0039	0.0194	Nov-06
57	Dec-06	WISCONSIN ENERGY CORP	WEC	47.46	0.014536	0	0.0036	0.0109	Dec-06
57	Jan-07	WISCONSIN ENERGY CORP	WEC	46.56	-0.01896	0	0.0043	-0.0233	Jan-07
57	Feb-07	WISCONSIN ENERGY CORP	WEC	47.95	0.035223	0.25	0.0038	0.0314	Feb-07
57	Mar-07	WISCONSIN ENERGY CORP	WEC	48.52	0.011887	0	0.0039	0.0080	Mar-07
57	Apr-07	WISCONSIN ENERGY CORP	WEC	48.79	0.005565	0	0.0042	0.0014	Apr-07
57	May-07	WISCONSIN ENERGY CORP	WEC	48.43	-0.00226	0.25	0.0041	-0.0064	May-07
57	Jun-07	WISCONSIN ENERGY CORP	WEC	44.23	-0.08672	0	0.0040	-0.0907	Jun-07
57	Jul-07	WISCONSIN ENERGY CORP	WEC	42.93	-0.02939	0	0.0046	-0.0340	Jul-07
57	Aug-07	WISCONSIN ENERGY CORP	WEC	44.31	0.037969	0.25	0.0042	0.0338	Aug-07
57	Sep-07	WISCONSIN ENERGY CORP	WEC	45.03	0.016249	0	0.0037	0.0125	Sep-07
57	Oct-07	WISCONSIN ENERGY CORP	WEC	47.88	0.063291	0	0.0043	0.0590	Oct-07
57	Nov-07	WISCONSIN ENERGY CORP	WEC	47.84	0.004386	0.25	0.0039	0.0005	Nov-07
57	Dec-07	WISCONSIN ENERGY CORP	WEC	48.71	0.018186	0	0.0037	0.0145	Dec-07
57	Jan-08	WISCONSIN ENERGY CORP	WEC	45.53	-0.06528	0	0.0040	-0.0693	Jan-08
57	Feb-08	WISCONSIN ENERGY CORP	WEC	43.62	-0.03602	0.27	0.0034	-0.0394	Feb-08
57	Mar-08	WISCONSIN ENERGY CORP	WEC	43.99	0.008482	0	0.0037	0.0048	Mar-08
57	Apr-08	WISCONSIN ENERGY CORP	WEC	47.46	0.078882	0	0.0035	0.0754	Apr-08
57	May-08	WISCONSIN ENERGY CORP	WEC	48.04	0.01791	0.27	0.0037	0.0142	May-08
57	Jun-08	WISCONSIN ENERGY CORP	WEC	45.22	-0.0587	0	0.0040	-0.0627	Jun-08
57	Jul-08	WISCONSIN ENERGY CORP	WEC	45.12	-0.00221	0	0.0039	-0.0061	Jul-08
57	Aug-08	WISCONSIN ENERGY CORP	WEC	46.77	0.042553	0.27	0.0036	0.0390	Aug-08
57	Sep-08	WISCONSIN ENERGY CORP	WEC	44.9	-0.03998	0	0.0039	-0.0439	Sep-08
57	Oct-08	WISCONSIN ENERGY CORP	WEC	43.5	-0.03118	0	0.0037	-0.0349	Oct-08
57	Nov-08	WISCONSIN ENERGY CORP	WEC	43.46	0.005287	0.27	0.0036	0.0017	Nov-08
57	Dec-08	WISCONSIN ENERGY CORP	WEC	41.98	-0.03405	0	0.0033	-0.0374	Dec-08
57	Jan-09	WISCONSIN ENERGY CORP	WEC	44.58	0.061934	0	0.0024	0.0595	Jan-09
57	Feb-09	WISCONSIN ENERGY CORP	WEC	39.82	-0.0992	0.3375	0.0030	-0.1022	Feb-09
57	Mar-09	WISCONSIN ENERGY CORP	WEC	41.17	0.033903	0	0.0035	0.0304	Mar-09
57	Apr-09	WISCONSIN ENERGY CORP	WEC	39.96	-0.02939	0	0.0029	-0.0323	Apr-09
57	May-09	WISCONSIN ENERGY CORP	WEC	39.46	-0.00407	0.3375	0.0033	-0.0074	May-09
57	Jun-09	WISCONSIN ENERGY CORP	WEC	40.71	0.031678	0	0.0038	0.0279	Jun-09
57	Jul-09	WISCONSIN ENERGY CORP	WEC	42.97	0.055515	0	0.0036	0.0519	Jul-09
57	Aug-09	WISCONSIN ENERGY CORP	WEC	45.47	0.066034	0.3375	0.0036	0.0624	Aug-09
57	Sep-09	WISCONSIN ENERGY CORP	WEC	45.17	-0.0066	0	0.0034	-0.0100	Sep-09

57	Oct-09	WISCONSIN ENERGY CORP	WEC	43.67	-0.03321	0	0.0033	-0.0365	Oct-09
57	Nov-09	WISCONSIN ENERGY CORP	WEC	45.1	0.040474	0.3375	0.0035	0.0370	Nov-09
57	Dec-09	WISCONSIN ENERGY CORP	WEC	49.83	0.104878	0	0.0034	0.1015	Dec-09
57	Jan-10	WISCONSIN ENERGY CORP	WEC	48.94	-0.01786	0	0.0036	-0.0215	Jan-10
57	Feb-10	WISCONSIN ENERGY CORP	WEC	48.43	-0.00225	0.4	0.0033	-0.0055	Feb-10
57	Mar-10	WISCONSIN ENERGY CORP	WEC	49.41	0.020235	0	0.0040	0.0162	Mar-10
57	Apr-10	WISCONSIN ENERGY CORP	WEC	52.51	0.06274	0	0.0038	0.0589	Apr-10
57	May-10	WISCONSIN ENERGY CORP	WEC	49	-0.05923	0.4	0.0034	-0.0626	May-10
57	Jun-10	WISCONSIN ENERGY CORP	WEC	50.74	0.03551	0	0.0037	0.0318	Jun-10
57	Jul-10	WISCONSIN ENERGY CORP	WEC	54.28	0.069767	0	0.0031	0.0667	Jul-10
57	Aug-10	WISCONSIN ENERGY CORP	WEC	55.74	0.034267	0.4	0.0032	0.0311	Aug-10
57	Sep-10	WISCONSIN ENERGY CORP	WEC	57.8	0.036957	0	0.0026	0.0344	Sep-10
57	Oct-10	WISCONSIN ENERGY CORP	WEC	59.54	0.030104	0	0.0027	0.0274	Oct-10
57	Nov-10	WISCONSIN ENERGY CORP	WEC	60.22	0.018139	0.4	0.0032	0.0149	Nov-10
57	Dec-10	WISCONSIN ENERGY CORP	WEC	58.86	-0.02258	0	0.0032	-0.0258	Dec-10
57	Jan-11	WISCONSIN ENERGY CORP	WEC	60.29	0.024295	0	0.0035667	0.0207	Jan-11
57	Feb-11	WISCONSIN ENERGY CORP	WEC	59.2	-0.00945	0.52	0.0036833	-0.0131	Feb-11
57	Mar-11	WISCONSIN ENERGY CORP	WEC	30.5	0.030405	0	0.0035583	0.0268	Mar-11
57	Apr-11	WISCONSIN ENERGY CORP	WEC	31.21	0.023279	0	0.0035667	0.0197	Apr-11
57	May-11	WISCONSIN ENERGY CORP	WEC	31.27	0.010253	0.26	0.0033417	0.0069	May-11
57	Jun-11	WISCONSIN ENERGY CORP	WEC	31.35	0.002558	0	0.0032583	-0.0007	Jun-11
57	Jul-11	WISCONSIN ENERGY CORP	WEC	30.65	-0.02233	0	0.0032917	-0.0256	Jul-11
57	Aug-11	WISCONSIN ENERGY CORP	WEC	31.64	0.040783	0.26	0.0030417	0.0377	Aug-11
57	Sep-11	WISCONSIN ENERGY CORP	WEC	31.29	-0.01106	0	0.0023583	-0.0134	Sep-11
57	Oct-11	WISCONSIN ENERGY CORP	WEC	32.43	0.036433	0	0.0023917	0.0340	Oct-11
57	Nov-11	WISCONSIN ENERGY CORP	WEC	33.18	0.031144	0.26	0.0022667	0.0289	Nov-11
57	Dec-11	WISCONSIN ENERGY CORP	WEC	34.96	0.053647	0	0.0024833	0.0512	Dec-11
57	Jan-12	WISCONSIN ENERGY CORP	WEC	34	-0.02746	0	0.0021	-0.0296	Jan-12
57	Feb-12	WISCONSIN ENERGY CORP	WEC	34.08	0.011177	0.3	0.002	0.0092	Feb-12
57	Mar-12	WISCONSIN ENERGY CORP	WEC	35.18	0.032277	0	0.0022	0.0301	Mar-12
57	Apr-12	WISCONSIN ENERGY CORP	WEC	36.84	0.047186	0	0.0025	0.0447	Apr-12
57	May-12	WISCONSIN ENERGY CORP	WEC	37.84	0.035288	0.3	0.0023	0.0330	May-12
57	Jun-12	WISCONSIN ENERGY CORP	WEC	39.57	0.045719	0	0.0018	0.0439	Jun-12
	Jul-12	WISCONSIN ENERGY CORP	WEC	40.74	0.029568	0	0.002	0.0276	Jul-12
	Aug-12	WISCONSIN ENERGY CORP	WEC	37.96	-0.06087	0.3	0.0018	-0.0627	Aug-12
	Sep-12	WISCONSIN ENERGY CORP	WEC	37.67	-0.00764	0	0.0017	-0.0093	Sep-12

Oct-12	WISCONSIN ENERGY CORP	WEC	38.47	0.021237	0	0.0021	0.0191	Oct-12
Nov-12	WISCONSIN ENERGY CORP	WEC	37.53	-0.01664	0.3	0.0019	-0.0185	Nov-12
Dec-12	WISCONSIN ENERGY CORP	WEC	36.85	-0.01812	0	0.0019	-0.0200	Dec-12
Jan-13	WISCONSIN ENERGY CORP	WEC	39.43	0.070014	0	0.0022	0.0678	Jan-13
Feb-13	WISCONSIN ENERGY CORP	WEC	41.3	0.056049	0.34	0.0022	0.0538	Feb-13
Mar-13	WISCONSIN ENERGY CORP	WEC	42.89	0.038499	0	0.0021	0.0364	Mar-13
Apr-13	WISCONSIN ENERGY CORP	WEC	44.94	0.047797	0	0.0026	0.0452	Apr-13
May-13	WISCONSIN ENERGY CORP	WEC	40.81	-0.08433	0.34	0.0023	-0.0866	May-13
Jun-13	WISCONSIN ENERGY CORP	WEC	40.99	0.004411	0	0.0024	0.0020	Jun-13
Jul-13	WISCONSIN ENERGY CORP	WEC	43.48	0.060747	0	0.003	0.0577	Jul-13
Aug-13	WISCONSIN ENERGY CORP	WEC	41.04	-0.04732	0.3825	0.0028	-0.0501	Aug-13
Sep-13	WISCONSIN ENERGY CORP	WEC	40.38	-0.01608	0	0.0029	-0.0190	Sep-13
Oct-13	WISCONSIN ENERGY CORP	WEC	42.11	0.042843	0	0.0029	0.0399	Oct-13
Nov-13	WISCONSIN ENERGY CORP	WEC	41.77	0.001021	0.383	0.0027	-0.0017	Nov-13
Dec-13	WISCONSIN ENERGY CORP	WEC	41.34	-0.01029	0	0.0031	-0.0134	Dec-13
Jan-14	WISCONSIN ENERGY CORP	WEC	42.67	0.032172	0	0.0032	0.0290	Jan-14
Feb-14	WISCONSIN ENERGY CORP	WEC	43.96	0.039372	0.39	0.0026	0.0368	Feb-14
Mar-14	WISCONSIN ENERGY CORP	WEC	46.55	0.058917	0	0.0029	0.0560	Mar-14
Apr-14	WISCONSIN ENERGY CORP	WEC	48.48	0.041461	0	0.0028	0.0387	Apr-14
May-14	WISCONSIN ENERGY CORP	WEC	45.52	-0.05301	0.39	0.0028	-0.0558	May-14
Jun-14	WISCONSIN ENERGY CORP	WEC	46.92	0.030756	0	0.0025	0.0283	Jun-14
Jul-14	WISCONSIN ENERGY CORP	WEC	43.58	-0.07118	0	0.0027	-0.0739	Jul-14
Aug-14	WISCONSIN ENERGY CORP	WEC	45.33	0.049105	0.39	0.0026	0.0465	Aug-14
Sep-14	WISCONSIN ENERGY CORP	WEC	43	-0.0514	0	0.0023	-0.0537	Sep-14
Oct-14	WISCONSIN ENERGY CORP	WEC	49.66	0.154884	0	0.0025	0.1524	Oct-14
Nov-14	WISCONSIN ENERGY CORP	WEC	49.4	0.002618	0.39	0.0023	0.0003	Nov-14
Dec-14	WISCONSIN ENERGY CORP	WEC	52.74	0.067611	0	0.0022	0.0654	Dec-14
Jan-15	WISCONSIN ENERGY CORP	WEC	55.77	0.057452	0	0.002	0.0555	Jan-15
Feb-15	WISCONSIN ENERGY CORP	WEC	50.98	-0.07831	0.4225	0.0015	-0.0798	Feb-15
Mar-15	WISCONSIN ENERGY CORP	WEC	49.5	-0.02903	0	0.0021	-0.0311	Mar-15
Apr-15	WISCONSIN ENERGY CORP	WEC	49.12	-0.00768	0	0.0019	-0.0096	Apr-15
May-15	WISCONSIN ENERGY CORP	WEC	48.28	-0.0085	0.4225	0.002	-0.0105	May-15
Jun-15	WISCONSIN ENERGY CORP	WEC	44.97	-0.06428	0.2066576	0.0023	-0.066578	Jun-15
Jul-15	WISCONSIN ENERGY CORP	WEC	49	0.089615	0	0.0024	0.0872153	Jul-15
Aug-15	WISCONSIN ENERGY CORP	WEC	47.65	-0.02278	0.233723	0.0022	-0.024981	Aug-15
Sep-15	WISCONSIN ENERGY CORP	WEC	52.22	0.095908	0	0.0021	0.0938077	Sep-15

Oct-15	WISCONSIN ENERGY CORP	WEC	51.56	-0.01264	0	0.0021	-0.014739	Oct-15
Nov-15	WISCONSIN ENERGY CORP	WEC	49.32	-0.03457	0.4575	0.0022	-0.036771	Nov-15
Dec-15	WISCONSIN ENERGY CORP	WEC	51.31	0.040349	0	0.0022	0.0381487	Dec-15
Jan-16	WISCONSIN ENERGY CORP	WEC	55.23	0.076398	0	0.0021	0.0742984	Jan-16
Feb-16	WISCONSIN ENERGY CORP	WEC	56.35	0.029241	0.495	0.002	0.0272414	Feb-16
Mar-16	WISCONSIN ENERGY CORP	WEC	60.07	0.066016	0	0.0018	0.064216	Mar-16
Apr-16	WISCONSIN ENERGY CORP	WEC	58.21	-0.03096	0	0.0017	-0.032664	Apr-16
May-16	WISCONSIN ENERGY CORP	WEC	60.14	0.04166	0.495	0.002	0.0396595	May-16
Jun-16	WISCONSIN ENERGY CORP	WEC	65.3	0.0858	0	0.0018	0.0839998	Jun-16
Jul-16	WISCONSIN ENERGY CORP	WEC	64.91	-0.00597	0	0.0014	-0.007372	Jul-16
Aug-16	WISCONSIN ENERGY CORP	WEC	59.88	-0.06987	0.495	0.0016	-0.071466	Aug-16
Sep-16	WISCONSIN ENERGY CORP	WEC	59.88	0	0	0.0015	-0.0015	Sep-16
Oct-16	WISCONSIN ENERGY CORP	WEC	59.72	-0.00267	0	0.0016	-0.004272	Oct-16
Nov-16	WISCONSIN ENERGY CORP	WEC	56.01	-0.05383	0.495	0.0018	-0.055635	Nov-16
Dec-16	WISCONSIN ENERGY CORP	WEC	58.65	0.047134	0	0.0022	0.0449344	Dec-16
Jan-17	WISCONSIN ENERGY CORP	WEC	59.05	0.00682	0	0.0024	0.0044201	Jan-17
Feb-17	WISCONSIN ENERGY CORP	WEC	60.27	0.029467	0.52	0.0021	0.0273666	Feb-17
Mar-17	WISCONSIN ENERGY CORP	WEC	60.63	0.005973	0	0.0023	0.0036731	Mar-17
Apr-17	WISCONSIN ENERGY CORP	WEC	60.52	-0.00181	0	0.0021	-0.003914	Apr-17
May-17	WISCONSIN ENERGY CORP	WEC	62.76	0.045605	0.52	0.0024	0.0432048	May-17
Jun-17	WISCONSIN ENERGY CORP	WEC	61.38	-0.02199	0	0.0021	-0.024089	Jun-17
Jul-17	WISCONSIN ENERGY CORP	WEC	62.97	0.025904	0	0.0022	0.0237042	Jul-17
Aug-17	WISCONSIN ENERGY CORP	WEC	65.22	0.043989	0.52	0.0022	0.0417892	Aug-17
Sep-17	WISCONSIN ENERGY CORP	WEC	62.78	-0.03741	0	0.0019	-0.039312	Sep-17
Oct-17	WISCONSIN ENERGY CORP	WEC	67.39	0.073431	0	0.0022	0.071231	Oct-17
Nov-17	WISCONSIN ENERGY CORP	WEC	69.49	0.038878	0.52	0.0021	0.0367782	Nov-17
Dec-17	WISCONSIN ENERGY CORP	WEC	66.43	-0.04404	0	0.002	-0.046035	Dec-17
Jan-18	WISCONSIN ENERGY CORP	WEC	64.3	-0.03206	0	0.0024	-0.034464	Jan-18
Feb-18	WISCONSIN ENERGY CORP	WEC	59.92	-0.05953	0.5525	0.0022	-0.061726	Feb-18
Mar-18	WISCONSIN ENERGY CORP	WEC	62.7	0.046395	0	0.0024	0.0439952	Mar-18
Apr-18	WISCONSIN ENERGY CORP	WEC	64.28	0.025199	0	0.0025	0.0226994	Apr-18
May-18	WISCONSIN ENERGY CORP	WEC	63.15	-0.00898	0.5525	0.0025	-0.011484	May-18
Jun-18	WISCONSIN ENERGY CORP	WEC	64.65	0.023753	0	0.0023	0.021453	Jun-18
Jul-18	WISCONSIN ENERGY CORP	WEC	66.37	0.026605	0	0.0025	0.0241048	Jul-18
Aug-18	WISCONSIN ENERGY CORP	WEC	67.58	0.026556	0.5525	0.0025	0.0240557	Aug-18
Sep-18	WISCONSIN ENERGY CORP	WEC	66.76	-0.01213	0	0.0022	-0.014334	Sep-18

Oct-18	WISCONSIN ENERGY CORP	WEC	68.4	0.024566	0	0.003	0.0215656	Oct-18
Nov-18	WISCONSIN ENERGY CORP	WEC	72.48	0.067727	0.5525	0.0028	0.0649266	Nov-18
Dec-18	WISCONSIN ENERGY CORP	WEC	69.26	-0.04443	0	0.0027	-0.047126	Dec-18
Jan-19	WISCONSIN ENERGY CORP	WEC	73.03	0.054433	0	0.0025	0.0519326	Jan-19
Feb-19	WISCONSIN ENERGY CORP	WEC	76.28	0.052581	0.59	0.0022	0.0503811	Feb-19
Mar-19	WISCONSIN ENERGY CORP	WEC	79.08	0.036707	0	0.0023	0.0344069	Mar-19
Apr-19	WISCONSIN ENERGY CORP	WEC	78.43	-0.00822	0	0.0023	-0.01052	Apr-19
May-19	WISCONSIN ENERGY CORP	WEC	80.55	0.034553	0.59	0.0023	0.0322531	May-19
Jun-19	WISCONSIN ENERGY CORP	WEC	83.37	0.035009	0	0.0018	0.0332093	Jun-19
Jul-19	WISCONSIN ENERGY CORP	WEC	85.46	0.025069	0	0.0021	0.022969	Jul-19
Aug-19	WISCONSIN ENERGY CORP	WEC	95.77	0.127545	0.59	0.0019	0.1256451	Aug-19
Sep-19	WISCONSIN ENERGY CORP	WEC	95.1	-0.007	0	0.0015	-0.008496	Sep-19
Oct-19	WISCONSIN ENERGY CORP	WEC	94.4	-0.00736	0	0.0016	-0.008961	Oct-19
Nov-19	WISCONSIN ENERGY CORP	WEC	88.65	-0.05466	0.59	0.0016	-0.056261	Nov-19
Dec-19	WISCONSIN ENERGY CORP	WEC	92.23	0.040384	0	0.0018	0.0385835	Dec-19
Jan-20	WISCONSIN ENERGY CORP	WEC	99.89	0.083053	0	0.002	0.0810532	Jan-20
Feb-20	WISCONSIN ENERGY CORP	WEC	92.33	-0.06935	0.6325	0.0015	-0.070851	Feb-20
Mar-20	WISCONSIN ENERGY CORP	WEC	88.13	-0.04549	0	0.00123	-0.046719	Mar-20
Apr-20	WISCONSIN ENERGY CORP	WEC	90.55	0.027459	0	0.0009	0.0265594	Apr-20
May-20	WISCONSIN ENERGY CORP	WEC	91.73	0.020017	0.6325	0.0009	0.0191166	May-20
Jun-20	WISCONSIN ENERGY CORP	WEC	87.65	-0.04448	0	0.0009	-0.045378	Jun-20
Jul-20	WISCONSIN ENERGY CORP	WEC	95.26	0.086823	0	0.001	0.0858226	Jul-20
Aug-20	WISCONSIN ENERGY CORP	WEC	94.08	-0.00575	0.6325	0.0008	-0.006547	Aug-20
Sep-20	WISCONSIN ENERGY CORP	WEC	96.9	0.029974	0	0	0.0299745	Sep-20
Oct-20	WISCONSIN ENERGY CORP	WEC	100.55	0.037668	0	0.0009	0.0367677	Oct-20
Nov-20	WISCONSIN ENERGY CORP	WEC	94.95	-0.0494	0.6325	0.0011	-0.050503	Nov-20
Dec-20	WISCONSIN ENERGY CORP	WEC	92.03	-0.03075	0	0.0011	-0.031853	Dec-20
Jan-21	WISCONSIN ENERGY CORP	WEC	88.9	-0.03401	0	0.0015167	-0.035527	Jan-21
Feb-21	WISCONSIN ENERGY CORP	WEC	80.64	-0.08529	0.6775	0.0017	-0.086992	Feb-21
Mar-21	WISCONSIN ENERGY CORP	WEC	93.59	0.16059	0	0.00195	0.1586403	Mar-21
Apr-21	WISCONSIN ENERGY CORP	WEC	97.17	0.038252	0	0.0019167	0.0363353	Apr-21
May-21	WISCONSIN ENERGY CORP	WEC	93.91	-0.02658	0.6775	0.0019333	-0.02851	May-21
Jun-21	WISCONSIN ENERGY CORP	WEC	88.95	-0.05282	0	0.0018	-0.054617	Jun-21
Jul-21	WISCONSIN ENERGY CORP	WEC	94.14	0.058347	0	0.0016167	0.0567307	Jul-21
Aug-21	WISCONSIN ENERGY CORP	WEC	94.48	0.010808	0.6775	0.0016	0.0092084	Aug-21

Unique Index Number	Trading Date	Company Name	Ticker	Closing Price	Total Return	Dividend Amount	IbbotRf	RP	Trading Date
	Jan-26						0.0031		Jan-26
	Feb-26						0.0028		Feb-26
	Mar-26						0.0032		Mar-26
	Apr-26						0.0030		Apr-26
	May-26						0.0028		May-26
	Jun-26						0.0033		Jun-26
	Jul-26						0.0031		Jul-26
	Aug-26						0.0031		Aug-26
	Sep-26						0.0030		Sep-26
	Oct-26						0.0030		Oct-26
	Nov-26						0.0031		Nov-26
	Dec-26						0.0030		Dec-26
	Jan-27						0.0030		Jan-27
	Feb-27						0.0027		Feb-27
	Mar-27						0.0029		Mar-27
	Apr-27						0.0027		Apr-27
	May-27						0.0028		May-27
	Jun-27						0.0027		Jun-27
	Jul-27						0.0027		Jul-27
	Aug-27						0.0029		Aug-27
	Sep-27						0.0027		Sep-27
	Oct-27						0.0028		Oct-27
	Nov-27						0.0027		Nov-27
	Dec-27						0.0027		Dec-27
	Jan-28						0.0027		Jan-28
	Feb-28						0.0025		Feb-28
	Mar-28						0.0027		Mar-28
	Apr-28						0.0026		Apr-28
	May-28						0.0027		May-28
	Jun-28						0.0027		Jun-28
	Jul-28						0.0027		Jul-28
	Aug-28						0.0029		Aug-28
	Sep-28						0.0027		Sep-28
	Oct-28						0.0030		Oct-28
	Nov-28						0.0027		Nov-28
	Dec-28						0.0029		Dec-28
	Jan-29						0.0029		Jan-29

Feb-29	0.0027	Feb-29
Mar-29	0.0028	Mar-29
Apr-29	0.0034	Apr-29
May-29	0.0030	May-29
Jun-29	0.0029	Jun-29
Jul-29	0.0032	Jul-29
Aug-29	0.0030	Aug-29
Sep-29	0.0032	Sep-29
Oct-29	0.0031	Oct-29
Nov-29	0.0026	Nov-29
Dec-29	0.0031	Dec-29
Jan-30	0.0029	Jan-30
Feb-30	0.0026	Feb-30
Mar-30	0.0029	Mar-30
Apr-30	0.0027	Apr-30
May-30	0.0027	May-30
Jun-30	0.0029	Jun-30
Jul-30	0.0028	Jul-30
Aug-30	0.0026	Aug-30
Sep-30	0.0029	Sep-30
Oct-30	0.0027	Oct-30
Nov-30	0.0026	Nov-30
Dec-30	0.0028	Dec-30
Jan-31	0.0028	Jan-31
Feb-31	0.0026	Feb-31
Mar-31	0.0029	Mar-31
Apr-31	0.0027	Apr-31
May-31	0.0026	May-31
Jun-31	0.0028	Jun-31
Jul-31	0.0027	Jul-31
Aug-31	0.0027	Aug-31
Sep-31	0.0027	Sep-31
Oct-31	0.0029	Oct-31
Nov-31	0.0031	Nov-31
Dec-31	0.0032	Dec-31
Jan-32	0.0032	Jan-32
Feb-32	0.0032	Feb-32
Mar-32	0.0031	Mar-32
Apr-32	0.0030	Apr-32

May-32	0.0028	May-32
Jun-32	0.0028	Jun-32
Jul-32	0.0028	Jul-32
Aug-32	0.0028	Aug-32
Sep-32	0.0026	Sep-32
Oct-32	0.0027	Oct-32
Nov-32	0.0026	Nov-32
Dec-32	0.0027	Dec-32
Jan-33	0.0027	Jan-33
Feb-33	0.0023	Feb-33
Mar-33	0.0027	Mar-33
Apr-33	0.0025	Apr-33
May-33	0.0028	May-33
Jun-33	0.0025	Jun-33
Jul-33	0.0026	Jul-33
Aug-33	0.0026	Aug-33
Sep-33	0.0025	Sep-33
Oct-33	0.0026	Oct-33
Nov-33	0.0025	Nov-33
Dec-33	0.0028	Dec-33
Jan-34	0.0029	Jan-34
Feb-34	0.0024	Feb-34
Mar-34	0.0027	Mar-34
Apr-34	0.0025	Apr-34
May-34	0.0025	May-34
Jun-34	0.0024	Jun-34
Jul-34	0.0024	Jul-34
Aug-34	0.0024	Aug-34
Sep-34	0.0023	Sep-34
Oct-34	0.0027	Oct-34
Nov-34	0.0025	Nov-34
Dec-34	0.0025	Dec-34
Jan-35	0.0025	Jan-35
Feb-35	0.0021	Feb-35
Mar-35	0.0022	Mar-35
Apr-35	0.0023	Apr-35
May-35	0.0023	May-35
Jun-35	0.0022	Jun-35
Jul-35	0.0024	Jul-35

Aug-35	0.0023	Aug-35
Sep-35	0.0023	Sep-35
Oct-35	0.0023	Oct-35
Nov-35	0.0024	Nov-35
Dec-35	0.0024	Dec-35
Jan-36	0.0024	Jan-36
Feb-36	0.0023	Feb-36
Mar-36	0.0024	Mar-36
Apr-36	0.0022	Apr-36
May-36	0.0022	May-36
Jun-36	0.0024	Jun-36
Jul-36	0.0023	Jul-36
Aug-36	0.0023	Aug-36
Sep-36	0.0021	Sep-36
Oct-36	0.0023	Oct-36
Nov-36	0.0022	Nov-36
Dec-36	0.0022	Dec-36
Jan-37	0.0021	Jan-37
Feb-37	0.0020	Feb-37
Mar-37	0.0022	Mar-37
Apr-37	0.0023	Apr-37
May-37	0.0022	May-37
Jun-37	0.0025	Jun-37
Jul-37	0.0024	Jul-37
Aug-37	0.0023	Aug-37
Sep-37	0.0023	Sep-37
Oct-37	0.0023	Oct-37
Nov-37	0.0024	Nov-37
Dec-37	0.0023	Dec-37
Jan-38	0.0023	Jan-38
Feb-38	0.0021	Feb-38
Mar-38	0.0023	Mar-38
Apr-38	0.0022	Apr-38
May-38	0.0022	May-38
Jun-38	0.0021	Jun-38
Jul-38	0.0021	Jul-38
Aug-38	0.0022	Aug-38
Sep-38	0.0021	Sep-38
Oct-38	0.0022	Oct-38

Nov-38	0.0021	Nov-38
Dec-38	0.0022	Dec-38
Jan-39	0.0021	Jan-39
Feb-39	0.0019	Feb-39
Mar-39	0.0021	Mar-39
Apr-39	0.0019	Apr-39
May-39	0.0020	May-39
Jun-39	0.0018	Jun-39
Jul-39	0.0019	Jul-39
Aug-39	0.0018	Aug-39
Sep-39	0.0019	Sep-39
Oct-39	0.0023	Oct-39
Nov-39	0.0020	Nov-39
Dec-39	0.0019	Dec-39
Jan-40	0.0020	Jan-40
Feb-40	0.0018	Feb-40
Mar-40	0.0019	Mar-40
Apr-40	0.0018	Apr-40
May-40	0.0019	May-40
Jun-40	0.0019	Jun-40
Jul-40	0.0020	Jul-40
Aug-40	0.0019	Aug-40
Sep-40	0.0018	Sep-40
Oct-40	0.0018	Oct-40
Nov-40	0.0018	Nov-40
Dec-40	0.0017	Dec-40
Jan-41	0.0016	Jan-41
Feb-41	0.0016	Feb-41
Mar-41	0.0018	Mar-41
Apr-41	0.0017	Apr-41
May-41	0.0017	May-41
Jun-41	0.0016	Jun-41
Jul-41	0.0016	Jul-41
Aug-41	0.0016	Aug-41
Sep-41	0.0016	Sep-41
Oct-41	0.0016	Oct-41
Nov-41	0.0014	Nov-41
Dec-41	0.0016	Dec-41
Jan-42	0.0021	Jan-42

Feb-42	0.0019	Feb-42
Mar-42	0.0021	Mar-42
Apr-42	0.0020	Apr-42
May-42	0.0019	May-42
Jun-42	0.0021	Jun-42
Jul-42	0.0021	Jul-42
Aug-42	0.0021	Aug-42
Sep-42	0.0020	Sep-42
Oct-42	0.0021	Oct-42
Nov-42	0.0020	Nov-42
Dec-42	0.0021	Dec-42
Jan-43	0.0020	Jan-43
Feb-43	0.0019	Feb-43
Mar-43	0.0021	Mar-43
Apr-43	0.0020	Apr-43
May-43	0.0019	May-43
Jun-43	0.0021	Jun-43
Jul-43	0.0021	Jul-43
Aug-43	0.0021	Aug-43
Sep-43	0.0020	Sep-43
Oct-43	0.0020	Oct-43
Nov-43	0.0021	Nov-43
Dec-43	0.0021	Dec-43
Jan-44	0.0021	Jan-44
Feb-44	0.0020	Feb-44
Mar-44	0.0021	Mar-44
Apr-44	0.0020	Apr-44
May-44	0.0022	May-44
Jun-44	0.0020	Jun-44
Jul-44	0.0021	Jul-44
Aug-44	0.0021	Aug-44
Sep-44	0.0020	Sep-44
Oct-44	0.0021	Oct-44
Nov-44	0.0020	Nov-44
Dec-44	0.0020	Dec-44
Jan-45	0.0021	Jan-45
Feb-45	0.0018	Feb-45
Mar-45	0.0020	Mar-45
Apr-45	0.0019	Apr-45

May-45	0.0019	May-45
Jun-45	0.0019	Jun-45
Jul-45	0.0018	Jul-45
Aug-45	0.0019	Aug-45
Sep-45	0.0018	Sep-45
Oct-45	0.0019	Oct-45
Nov-45	0.0018	Nov-45
Dec-45	0.0018	Dec-45
Jan-46	0.0017	Jan-46
Feb-46	0.0015	Feb-46
Mar-46	0.0016	Mar-46
Apr-46	0.0017	Apr-46
May-46	0.0018	May-46
Jun-46	0.0016	Jun-46
Jul-46	0.0019	Jul-46
Aug-46	0.0017	Aug-46
Sep-46	0.0018	Sep-46
Oct-46	0.0019	Oct-46
Nov-46	0.0018	Nov-46
Dec-46	0.0019	Dec-46
Jan-47	0.0018	Jan-47
Feb-47	0.0016	Feb-47
Mar-47	0.0018	Mar-47
Apr-47	0.0017	Apr-47
May-47	0.0017	May-47
Jun-47	0.0019	Jun-47
Jul-47	0.0018	Jul-47
Aug-47	0.0017	Aug-47
Sep-47	0.0018	Sep-47
Oct-47	0.0018	Oct-47
Nov-47	0.0017	Nov-47
Dec-47	0.0021	Dec-47
Jan-48	0.0020	Jan-48
Feb-48	0.0019	Feb-48
Mar-48	0.0022	Mar-48
Apr-48	0.0020	Apr-48
May-48	0.0018	May-48
Jun-48	0.0021	Jun-48
Jul-48	0.0019	Jul-48

	Aug-48					0.0021		Aug-48
	Sep-48					0.0020		Sep-48
	Oct-48					0.0019		Oct-48
	Nov-48					0.0021		Nov-48
	Dec-48					0.0020		Dec-48
	Jan-49					0.0020		Jan-49
58	Feb-49	NORTHERN STATES POWER CO MN	9	-66	0	0.0018		Feb-49
58	Mar-49	NORTHERN STATES POWER CO MN	10	0.130556	0.175	0.0019	0.1287	Mar-49
58	Apr-49	NORTHERN STATES POWER CO MN	10.375	0.0375	0	0.0018	0.0357	Apr-49
58	May-49	NORTHERN STATES POWER CO MN	10.125	-0.024096	0	0.0020	-0.0261	May-49
58	Jun-49	NORTHERN STATES POWER CO MN	10	0.004938	0.175	0.0019	0.0030	Jun-49
58	Jul-49	NORTHERN STATES POWER CO MN	10	0	0	0.0017	-0.0017	Jul-49
58	Aug-49	NORTHERN STATES POWER CO MN	10.25	0.025	0	0.0019	0.0231	Aug-49
58	Sep-49	NORTHERN STATES POWER CO MN	10.75	0.065854	0.175	0.0017	0.0642	Sep-49
58	Oct-49	NORTHERN STATES POWER CO MN	10.625	-0.011628	0	0.0018	-0.0134	Oct-49
58	Nov-49	NORTHERN STATES POWER CO MN	10.75	0.034084	0	0.0017	0.0324	Nov-49
58	Dec-49	NORTHERN STATES POWER CO MN	10.875	0.027907	0.175	0.0017	0.0262	Dec-49
58	Jan-50	NORTHERN STATES POWER CO MN	11.875	0.091954	0	0.0018	0.0902	Jan-50
58	Feb-50	NORTHERN STATES POWER CO MN	12	0.010526	0	0.0016	0.0089	Feb-50
58	Mar-50	NORTHERN STATES POWER CO MN	11.875	0.004167	0.175	0.0018	0.0024	Mar-50
58	Apr-50	NORTHERN STATES POWER CO MN	11.75	-0.010526	0	0.0016	-0.0121	Apr-50
58	May-50	NORTHERN STATES POWER CO MN	11.625	-0.010638	0	0.0019	-0.0125	May-50
58	Jun-50	NORTHERN STATES POWER CO MN	10.75	-0.060215	0.175	0.0017	-0.0619	Jun-50
58	Jul-50	NORTHERN STATES POWER CO MN	10.25	-0.046512	0	0.0018	-0.0483	Jul-50
58	Aug-50	NORTHERN STATES POWER CO MN	10.375	0.012195	0	0.0018	0.0104	Aug-50
58	Sep-50	NORTHERN STATES POWER CO MN	10.75	0.053012	0.175	0.0017	0.0513	Sep-50
58	Oct-50	NORTHERN STATES POWER CO MN	10.625	-0.011628	0	0.0019	-0.0135	Oct-50
58	Nov-50	NORTHERN STATES POWER CO MN	10	-0.058824	0	0.0018	-0.0606	Nov-50
58	Dec-50	NORTHERN STATES POWER CO MN	10.25	0.0425	0.175	0.0018	0.0407	Dec-50
58	Jan-51	NORTHERN STATES POWER CO MN	10.25	0	0	0.0020	-0.0020	Jan-51
58	Feb-51	NORTHERN STATES POWER CO MN	10.375	0.012195	0	0.0017	0.0105	Feb-51
58	Mar-51	NORTHERN STATES POWER CO MN	10.125	-0.007229	0.175	0.0019	-0.0091	Mar-51
58	Apr-51	NORTHERN STATES POWER CO MN	10	-0.012346	0	0.0020	-0.0143	Apr-51
58	May-51	NORTHERN STATES POWER CO MN	9.875	-0.0125	0	0.0021	-0.0146	May-51
58	Jun-51	NORTHERN STATES POWER CO MN	9.875	0.017722	0.175	0.0020	0.0157	Jun-51
58	Jul-51	NORTHERN STATES POWER CO MN	9.875	0	0	0.0023	-0.0023	Jul-51
58	Aug-51	NORTHERN STATES POWER CO MN	10.25	0.037975	0	0.0021	0.0359	Aug-51
58	Sep-51	NORTHERN STATES POWER CO MN	10.25	0.017073	0.175	0.0019	0.0152	Sep-51
58	Oct-51	NORTHERN STATES POWER CO MN	10.375	0.012195	0	0.0023	0.0099	Oct-51

58	Nov-51	NORTHERN STATES POWER CO MN	10.625	0.024096	0	0.0021	0.0220	Nov-51
58	Dec-51	NORTHERN STATES POWER CO MN	10.625	0.016471	0.175	0.0022	0.0143	Dec-51
58	Jan-52	NORTHERN STATES POWER CO MN	11.25	0.058824	0	0.0023	0.0565	Jan-52
58	Feb-52	NORTHERN STATES POWER CO MN	11.375	0.011111	0	0.0021	0.0090	Feb-52
58	Mar-52	NORTHERN STATES POWER CO MN	11.625	0.037363	0.175	0.0023	0.0351	Mar-52
58	Apr-52	NORTHERN STATES POWER CO MN	11.125	-0.043011	0	0.0022	-0.0452	Apr-52
58	May-52	NORTHERN STATES POWER CO MN	11.375	0.022472	0	0.0020	0.0205	May-52
58	Jun-52	NORTHERN STATES POWER CO MN	11.125	0.00342	0.17676	0.0022	0.0012	Jun-52
58	Jul-52	NORTHERN STATES POWER CO MN	11.625	0.044944	0	0.0022	0.0427	Jul-52
58	Aug-52	NORTHERN STATES POWER CO MN	12	0.032258	0	0.0021	0.0302	Aug-52
58	Sep-52	NORTHERN STATES POWER CO MN	12.125	0.025	0.175	0.0023	0.0227	Sep-52
58	Oct-52	NORTHERN STATES POWER CO MN	12.25	0.010309	0	0.0023	0.0080	Oct-52
58	Nov-52	NORTHERN STATES POWER CO MN	13	0.061224	0	0.0021	0.0591	Nov-52
58	Dec-52	NORTHERN STATES POWER CO MN	12.875	0.003846	0.175	0.0024	0.0014	Dec-52
58	Jan-53	NORTHERN STATES POWER CO MN	12.625	-0.019417	0	0.0023	-0.0217	Jan-53
58	Feb-53	NORTHERN STATES POWER CO MN	13.25	0.049505	0	0.0021	0.0474	Feb-53
58	Mar-53	NORTHERN STATES POWER CO MN	13.5	0.032075	0.175	0.0025	0.0296	Mar-53
58	Apr-53	NORTHERN STATES POWER CO MN	13	-0.037037	0	0.0024	-0.0394	Apr-53
58	May-53	NORTHERN STATES POWER CO MN	12.625	-0.028846	0	0.0024	-0.0312	May-53
58	Jun-53	NORTHERN STATES POWER CO MN	12.125	-0.025743	0.175	0.0027	-0.0284	Jun-53
58	Jul-53	NORTHERN STATES POWER CO MN	13	0.072165	0	0.0025	0.0697	Jul-53
58	Aug-53	NORTHERN STATES POWER CO MN	12.75	-0.019231	0	0.0025	-0.0217	Aug-53
58	Sep-53	NORTHERN STATES POWER CO MN	13.125	0.043137	0.175	0.0025	0.0406	Sep-53
58	Oct-53	NORTHERN STATES POWER CO MN	13.125	0	0	0.0023	-0.0023	Oct-53
58	Nov-53	NORTHERN STATES POWER CO MN	14	0.066667	0	0.0024	0.0643	Nov-53
58	Dec-53	NORTHERN STATES POWER CO MN	13.75	-0.003571	0.2	0.0024	-0.0060	Dec-53
58	Jan-54	NORTHERN STATES POWER CO MN	14.375	0.045455	0	0.0023	0.0432	Jan-54
58	Feb-54	NORTHERN STATES POWER CO MN	15	0.043478	0	0.0022	0.0413	Feb-54
58	Mar-54	NORTHERN STATES POWER CO MN	15.125	0.021667	0.2	0.0025	0.0192	Mar-54
58	Apr-54	NORTHERN STATES POWER CO MN	14.5	0.028004	0	0.0022	0.0258	Apr-54
58	May-54	NORTHERN STATES POWER CO MN	14.75	0.017241	0	0.0020	0.0152	May-54
58	Jun-54	NORTHERN STATES POWER CO MN	15	0.030508	0.2	0.0025	0.0280	Jun-54
58	Jul-54	NORTHERN STATES POWER CO MN	15.625	0.041667	0	0.0022	0.0395	Jul-54
58	Aug-54	NORTHERN STATES POWER CO MN	16.375	0.048	0	0.0023	0.0457	Aug-54
58	Sep-54	NORTHERN STATES POWER CO MN	16	-0.010687	0.2	0.0022	-0.0129	Sep-54
58	Oct-54	NORTHERN STATES POWER CO MN	15.25	-0.046875	0	0.0021	-0.0490	Oct-54
58	Nov-54	NORTHERN STATES POWER CO MN	16	0.04918	0	0.0023	0.0469	Nov-54
58	Dec-54	NORTHERN STATES POWER CO MN	16.375	0.035937	0.2	0.0023	0.0336	Dec-54
58	Jan-55	NORTHERN STATES POWER CO MN	16.375	0	0	0.0022	-0.0022	Jan-55

58	Feb-55	NORTHERN STATES POWER CO MN	16.625	0.015267	0	0.0022	0.0131	Feb-55
58	Mar-55	NORTHERN STATES POWER CO MN	16.75	0.019549	0.2	0.0024	0.0171	Mar-55
58	Apr-55	NORTHERN STATES POWER CO MN	16.75	0	0	0.0022	-0.0022	Apr-55
58	May-55	NORTHERN STATES POWER CO MN	16.5	-0.014925	0	0.0025	-0.0174	May-55
58	Jun-55	NORTHERN STATES POWER CO MN	16.625	0.019697	0.2	0.0023	0.0174	Jun-55
58	Jul-55	NORTHERN STATES POWER CO MN	16.75	0.007519	0	0.0023	0.0052	Jul-55
58	Aug-55	NORTHERN STATES POWER CO MN	16.75	0	0	0.0027	-0.0027	Aug-55
58	Sep-55	NORTHERN STATES POWER CO MN	17.625	0.064179	0.2	0.0024	0.0618	Sep-55
58	Oct-55	NORTHERN STATES POWER CO MN	16.875	-0.042553	0	0.0025	-0.0451	Oct-55
58	Nov-55	NORTHERN STATES POWER CO MN	16.75	-0.007407	0	0.0024	-0.0098	Nov-55
58	Dec-55	NORTHERN STATES POWER CO MN	17.75	0.073134	0.225	0.0024	0.0707	Dec-55
58	Jan-56	NORTHERN STATES POWER CO MN	17.5	-0.014085	0	0.0025	-0.0166	Jan-56
58	Feb-56	NORTHERN STATES POWER CO MN	17.875	0.021429	0	0.0023	0.0191	Feb-56
58	Mar-56	NORTHERN STATES POWER CO MN	17.5	-0.005755	0.2256	0.0023	-0.0081	Mar-56
58	Apr-56	NORTHERN STATES POWER CO MN	17.375	-0.007143	0	0.0026	-0.0097	Apr-56
58	May-56	NORTHERN STATES POWER CO MN	17	-0.021583	0	0.0026	-0.0242	May-56
58	Jun-56	NORTHERN STATES POWER CO MN	17.375	0.035294	0.225	0.0023	0.0330	Jun-56
58	Jul-56	NORTHERN STATES POWER CO MN	17.875	0.028777	0	0.0026	0.0262	Jul-56
58	Aug-56	NORTHERN STATES POWER CO MN	17.875	0	0	0.0026	-0.0026	Aug-56
58	Sep-56	NORTHERN STATES POWER CO MN	16.75	-0.05035	0.225	0.0025	-0.0529	Sep-56
58	Oct-56	NORTHERN STATES POWER CO MN	17.25	0.029851	0	0.0029	0.0270	Oct-56
58	Nov-56	NORTHERN STATES POWER CO MN	17.125	-0.007246	0	0.0027	-0.0099	Nov-56
58	Dec-56	NORTHERN STATES POWER CO MN	17.125	0.013139	0.225	0.0028	0.0103	Dec-56
58	Jan-57	NORTHERN STATES POWER CO MN	16.875	-0.014599	0	0.0029	-0.0175	Jan-57
58	Feb-57	NORTHERN STATES POWER CO MN	17	0.007407	0	0.0025	0.0049	Feb-57
58	Mar-57	NORTHERN STATES POWER CO MN	17	0.013235	0.225	0.0026	0.0106	Mar-57
58	Apr-57	NORTHERN STATES POWER CO MN	17	0	0	0.0029	-0.0029	Apr-57
58	May-57	NORTHERN STATES POWER CO MN	17.375	0.022059	0	0.0029	0.0192	May-57
58	Jun-57	NORTHERN STATES POWER CO MN	16.875	-0.015827	0.225	0.0025	-0.0183	Jun-57
58	Jul-57	NORTHERN STATES POWER CO MN	16.25	-0.037037	0	0.0033	-0.0403	Jul-57
58	Aug-57	NORTHERN STATES POWER CO MN	15.75	-0.030769	0	0.0030	-0.0338	Aug-57
58	Sep-57	NORTHERN STATES POWER CO MN	15.875	0.022222	0.225	0.0031	0.0191	Sep-57
58	Oct-57	NORTHERN STATES POWER CO MN	15.125	-0.047244	0	0.0031	-0.0503	Oct-57
58	Nov-57	NORTHERN STATES POWER CO MN	15.5	0.024793	0	0.0029	0.0219	Nov-57
58	Dec-57	NORTHERN STATES POWER CO MN	17	0.11129	0.225	0.0029	0.1084	Dec-57
58	Jan-58	NORTHERN STATES POWER CO MN	17.75	0.044118	0	0.0027	0.0414	Jan-58
58	Feb-58	NORTHERN STATES POWER CO MN	17.875	0.007042	0	0.0025	0.0045	Feb-58
58	Mar-58	NORTHERN STATES POWER CO MN	18.625	0.055944	0.25	0.0027	0.0532	Mar-58
58	Apr-58	NORTHERN STATES POWER CO MN	20	0.073826	0	0.0026	0.0712	Apr-58

58	May-58	NORTHERN STATES POWER CO MN	20.25	0.0125	0	0.0024	0.0101	May-58
58	Jun-58	NORTHERN STATES POWER CO MN	20.75	0.037037	0.25	0.0027	0.0343	Jun-58
58	Jul-58	NORTHERN STATES POWER CO MN	20.375	-0.018072	0	0.0027	-0.0208	Jul-58
58	Aug-58	NORTHERN STATES POWER CO MN	20	-0.018405	0	0.0027	-0.0211	Aug-58
58	Sep-58	NORTHERN STATES POWER CO MN	21	0.0625	0.25	0.0032	0.0593	Sep-58
58	Oct-58	NORTHERN STATES POWER CO MN	21.5	0.02381	0	0.0032	0.0206	Oct-58
58	Nov-58	NORTHERN STATES POWER CO MN	21.875	0.017442	0	0.0028	0.0146	Nov-58
58	Dec-58	NORTHERN STATES POWER CO MN	22	0.017143	0.25	0.0033	0.0138	Dec-58
58	Jan-59	NORTHERN STATES POWER CO MN	23.75	0.079545	0	0.0031	0.0764	Jan-59
58	Feb-59	NORTHERN STATES POWER CO MN	23.625	-0.005263	0	0.0031	-0.0084	Feb-59
58	Mar-59	NORTHERN STATES POWER CO MN	24.25	0.038095	0.275	0.0035	0.0346	Mar-59
58	Apr-59	NORTHERN STATES POWER CO MN	24.875	0.025773	0	0.0033	0.0225	Apr-59
58	May-59	NORTHERN STATES POWER CO MN	24.625	-0.01005	0	0.0033	-0.0134	May-59
58	Jun-59	NORTHERN STATES POWER CO MN	23.375	-0.039594	0.275	0.0036	-0.0432	Jun-59
58	Jul-59	NORTHERN STATES POWER CO MN	23.125	-0.00833	0	0.0035	-0.0118	Jul-59
58	Aug-59	NORTHERN STATES POWER CO MN	24.125	0.043243	0	0.0035	0.0397	Aug-59
58	Sep-59	NORTHERN STATES POWER CO MN	23	-0.035233	0.275	0.0034	-0.0386	Sep-59
58	Oct-59	NORTHERN STATES POWER CO MN	23.25	0.01087	0	0.0035	0.0074	Oct-59
58	Nov-59	NORTHERN STATES POWER CO MN	23.625	0.016129	0	0.0035	0.0126	Nov-59
58	Dec-59	NORTHERN STATES POWER CO MN	24.25	0.038095	0.275	0.0036	0.0345	Dec-59
58	Jan-60	NORTHERN STATES POWER CO MN	23.625	-0.025773	0	0.0035	-0.0293	Jan-60
58	Feb-60	NORTHERN STATES POWER CO MN	24	0.015873	0	0.0037	0.0122	Feb-60
58	Mar-60	NORTHERN STATES POWER CO MN	25.5	0.073958	0.275	0.0036	0.0704	Mar-60
58	Apr-60	NORTHERN STATES POWER CO MN	25	-0.019608	0	0.0032	-0.0228	Apr-60
58	May-60	NORTHERN STATES POWER CO MN	27.5	0.1	0	0.0037	0.0963	May-60
58	Jun-60	NORTHERN STATES POWER CO MN	27.5	0.01	0.275	0.0034	0.0066	Jun-60
58	Jul-60	NORTHERN STATES POWER CO MN	27.375	-0.004545	0	0.0032	-0.0077	Jul-60
58	Aug-60	NORTHERN STATES POWER CO MN	28.375	0.03653	0	0.0034	0.0331	Aug-60
58	Sep-60	NORTHERN STATES POWER CO MN	26	-0.074009	0.275	0.0032	-0.0772	Sep-60
58	Oct-60	NORTHERN STATES POWER CO MN	25.625	-0.014423	0	0.0033	-0.0177	Oct-60
58	Nov-60	NORTHERN STATES POWER CO MN	27.875	0.087805	0	0.0032	0.0846	Nov-60
58	Dec-60	NORTHERN STATES POWER CO MN	28.875	0.046457	0.295	0.0033	0.0432	Dec-60
58	Jan-61	NORTHERN STATES POWER CO MN	29.125	0.008658	0	0.0033	0.0054	Jan-61
58	Feb-61	NORTHERN STATES POWER CO MN	31.25	0.072961	0	0.0030	0.0700	Feb-61
58	Mar-61	NORTHERN STATES POWER CO MN	32.25	0.04144	0.295	0.0031	0.0383	Mar-61
58	Apr-61	NORTHERN STATES POWER CO MN	32.5	0.007752	0	0.0031	0.0047	Apr-61
58	May-61	NORTHERN STATES POWER CO MN	31.375	-0.034615	0	0.0034	-0.0380	May-61
58	Jun-61	NORTHERN STATES POWER CO MN	32.5	0.045259	0.295	0.0032	0.0421	Jun-61
58	Jul-61	NORTHERN STATES POWER CO MN	32	-0.015385	0	0.0033	-0.0187	Jul-61

58	Aug-61	NORTHERN STATES POWER CO	MN		35.625	0.113281	0	0.0033	0.1100	Aug-61
58	Sep-61	NORTHERN STATES POWER CO	MN		34.625	-0.019789	0.295	0.0032	-0.0230	Sep-61
58	Oct-61	NORTHERN STATES POWER CO	MN		36	0.039711	0	0.0034	0.0363	Oct-61
58	Nov-61	NORTHERN STATES POWER CO	MN		37.25	0.034722	0	0.0032	0.0315	Nov-61
58	Dec-61	NORTHERN STATES POWER CO	MN		34	-0.079329	0.295	0.0031	-0.0824	Dec-61
58	Jan-62	NORTHERN STATES POWER CO	MN		32.5	-0.044118	0	0.0037	-0.0478	Jan-62
58	Feb-62	NORTHERN STATES POWER CO	MN		33.25	0.023077	0	0.0032	0.0199	Feb-62
58	Mar-62	NORTHERN STATES POWER CO	MN		34.125	0.035188	0.295	0.0033	0.0319	Mar-62
58	Apr-62	NORTHERN STATES POWER CO	MN		32.75	-0.040293	0	0.0033	-0.0436	Apr-62
58	May-62	NORTHERN STATES POWER CO	MN		30.25	-0.076336	0	0.0032	-0.0795	May-62
58	Jun-62	NORTHERN STATES POWER CO	MN		30	0.002314	0.32	0.0030	-0.0007	Jun-62
58	Jul-62	NORTHERN STATES POWER CO	MN	NSP	32.5	0.083333	0	0.0034	0.0799	Jul-62
58	Aug-62	NORTHERN STATES POWER CO	MN	NSP	33	0.015385	0	0.0034	0.0120	Aug-62
58	Sep-62	NORTHERN STATES POWER CO	MN	NSP	32.25	-0.01303	0.32	0.0030	-0.0160	Sep-62
58	Oct-62	NORTHERN STATES POWER CO	MN	NSP	32	-0.007752	0	0.0035	-0.0113	Oct-62
58	Nov-62	NORTHERN STATES POWER CO	MN	NSP	32.5	0.015625	0	0.0031	0.0125	Nov-62
58	Dec-62	NORTHERN STATES POWER CO	MN	NSP	35.5	0.102154	0.32	0.0032	0.0990	Dec-62
58	Jan-63	NORTHERN STATES POWER CO	MN	NSP	35.875	0.010563	0	0.0032	0.0074	Jan-63
58	Feb-63	NORTHERN STATES POWER CO	MN	NSP	35.75	-0.003484	0	0.0029	-0.0064	Feb-63
58	Mar-63	NORTHERN STATES POWER CO	MN	NSP	34.125	-0.036503	0.32	0.0031	-0.0396	Mar-63
58	Apr-63	NORTHERN STATES POWER CO	MN	NSP	35.125	0.029304	0	0.0034	0.0259	Apr-63
58	May-63	NORTHERN STATES POWER CO	MN	NSP	37	0.053381	0	0.0033	0.0501	May-63
58	Jun-63	NORTHERN STATES POWER CO	MN	NSP	36.25	-0.011081	0.34	0.0030	-0.0141	Jun-63
58	Jul-63	NORTHERN STATES POWER CO	MN	NSP	36.25	0	0	0.0036	-0.0036	Jul-63
58	Aug-63	NORTHERN STATES POWER CO	MN	NSP	36.25	0	0	0.0033	-0.0033	Aug-63
58	Sep-63	NORTHERN STATES POWER CO	MN	NSP	34.375	-0.042345	0.34	0.0034	-0.0457	Sep-63
58	Oct-63	NORTHERN STATES POWER CO	MN	NSP	34.75	0.010909	0	0.0034	0.0075	Oct-63
58	Nov-63	NORTHERN STATES POWER CO	MN	NSP	34.625	-0.003597	0	0.0032	-0.0068	Nov-63
58	Dec-63	NORTHERN STATES POWER CO	MN	NSP	36.125	0.053141	0.34	0.0036	0.0495	Dec-63
58	Jan-64	NORTHERN STATES POWER CO	MN	NSP	36.125	0	0	0.0035	-0.0035	Jan-64
58	Feb-64	NORTHERN STATES POWER CO	MN	NSP	35.375	-0.020761	0	0.0032	-0.0240	Feb-64
58	Mar-64	NORTHERN STATES POWER CO	MN	NSP	35.125	0.002544	0.34	0.0037	-0.0012	Mar-64
58	Apr-64	NORTHERN STATES POWER CO	MN	NSP	35.375	0.007117	0	0.0035	0.0036	Apr-64
58	May-64	NORTHERN STATES POWER CO	MN	NSP	34.75	-0.017668	0	0.0032	-0.0209	May-64
58	Jun-64	NORTHERN STATES POWER CO	MN	NSP	34.25	-0.004604	0.34	0.0038	-0.0084	Jun-64
58	Jul-64	NORTHERN STATES POWER CO	MN	NSP	36.5	0.065693	0	0.0035	0.0622	Jul-64
58	Aug-64	NORTHERN STATES POWER CO	MN	NSP	36.5	0	0	0.0035	-0.0035	Aug-64
58	Sep-64	NORTHERN STATES POWER CO	MN	NSP	36.25	0.003014	0.36	0.0034	-0.0004	Sep-64
58	Oct-64	NORTHERN STATES POWER CO	MN	NSP	37.5	0.034483	0	0.0034	0.0311	Oct-64

58	Nov-64	NORTHERN STATES POWER CO MN	NSP	38.25	0.02	0	0.0035	0.0165	Nov-64
58	Dec-64	NORTHERN STATES POWER CO MN	NSP	40.375	0.064967	0.36	0.0035	0.0615	Dec-64
58	Jan-65	NORTHERN STATES POWER CO MN	NSP	39.625	-0.018576	0	0.0033	-0.0219	Jan-65
58	Feb-65	NORTHERN STATES POWER CO MN	NSP	39	-0.015773	0	0.0032	-0.0190	Feb-65
58	Mar-65	NORTHERN STATES POWER CO MN	NSP	37	-0.042051	0.36	0.0038	-0.0459	Mar-65
58	Apr-65	NORTHERN STATES POWER CO MN	NSP	37.5	0.013514	0	0.0033	0.0102	Apr-65
58	May-65	NORTHERN STATES POWER CO MN	NSP	37.125	-0.01	0	0.0033	-0.0133	May-65
58	Jun-65	NORTHERN STATES POWER CO MN	NSP	36.625	-0.003771	0.36	0.0038	-0.0076	Jun-65
58	Jul-65	NORTHERN STATES POWER CO MN	NSP	35.875	-0.016852	0	0.0034	-0.0203	Jul-65
58	Aug-65	NORTHERN STATES POWER CO MN	NSP	36.75	0.02439	0	0.0037	0.0207	Aug-65
58	Sep-65	NORTHERN STATES POWER CO MN	NSP	37	0.016599	0.36	0.0035	0.0131	Sep-65
58	Oct-65	NORTHERN STATES POWER CO MN	NSP	35.625	-0.037162	0	0.0034	-0.0406	Oct-65
58	Nov-65	NORTHERN STATES POWER CO MN	NSP	35.125	-0.014035	0	0.0037	-0.0177	Nov-65
58	Dec-65	NORTHERN STATES POWER CO MN	NSP	35	0.00669	0.36	0.0037	0.0030	Dec-65
58	Jan-66	NORTHERN STATES POWER CO MN	NSP	34.5	-0.014286	0	0.0038	-0.0181	Jan-66
58	Feb-66	NORTHERN STATES POWER CO MN	NSP	33.125	-0.039855	0	0.0034	-0.0433	Feb-66
58	Mar-66	NORTHERN STATES POWER CO MN	NSP	32.75	-0.000453	0.36	0.0040	-0.0045	Mar-66
58	Apr-66	NORTHERN STATES POWER CO MN	NSP	32	-0.022901	0	0.0036	-0.0265	Apr-66
58	May-66	NORTHERN STATES POWER CO MN	NSP	31.5	-0.015625	0	0.0041	-0.0197	May-66
58	Jun-66	NORTHERN STATES POWER CO MN	NSP	31.75	0.02	0.38	0.0039	0.0161	Jun-66
58	Jul-66	NORTHERN STATES POWER CO MN	NSP	31	-0.023622	0	0.0038	-0.0274	Jul-66
58	Aug-66	NORTHERN STATES POWER CO MN	NSP	29.5	-0.048387	0	0.0043	-0.0527	Aug-66
58	Sep-66	NORTHERN STATES POWER CO MN	NSP	30.5	0.04678	0.38	0.0041	0.0427	Sep-66
58	Oct-66	NORTHERN STATES POWER CO MN	NSP	32.25	0.057377	0	0.0040	0.0534	Oct-66
58	Nov-66	NORTHERN STATES POWER CO MN	NSP	31.75	-0.015504	0	0.0038	-0.0193	Nov-66
58	Dec-66	NORTHERN STATES POWER CO MN	NSP	33.375	0.06315	0.38	0.0039	0.0593	Dec-66
58	Jan-67	NORTHERN STATES POWER CO MN	NSP	34	0.018727	0	0.0040	0.0147	Jan-67
58	Feb-67	NORTHERN STATES POWER CO MN	NSP	34.375	0.011029	0	0.0034	0.0076	Feb-67
58	Mar-67	NORTHERN STATES POWER CO MN	NSP	33.125	-0.025309	0.38	0.0039	-0.0292	Mar-67
58	Apr-67	NORTHERN STATES POWER CO MN	NSP	32.25	-0.026415	0	0.0035	-0.0299	Apr-67
58	May-67	NORTHERN STATES POWER CO MN	NSP	30	-0.069767	0	0.0043	-0.0741	May-67
58	Jun-67	NORTHERN STATES POWER CO MN	NSP	30.625	0.0335	0.38	0.0039	0.0296	Jun-67
58	Jul-67	NORTHERN STATES POWER CO MN	NSP	30.5	-0.004082	0	0.0043	-0.0084	Jul-67
58	Aug-67	NORTHERN STATES POWER CO MN	NSP	30.625	0.004098	0	0.0042	-0.0001	Aug-67
58	Sep-67	NORTHERN STATES POWER CO MN	NSP	30.625	0.013061	0.4	0.0040	0.0091	Sep-67
58	Oct-67	NORTHERN STATES POWER CO MN	NSP	29.5	-0.036735	0	0.0045	-0.0412	Oct-67
58	Nov-67	NORTHERN STATES POWER CO MN	NSP	29.625	0.004237	0	0.0045	-0.0003	Nov-67
58	Dec-67	NORTHERN STATES POWER CO MN	NSP	28.75	-0.016034	0.4	0.0044	-0.0204	Dec-67
58	Jan-68	NORTHERN STATES POWER CO MN	NSP	32	0.113043	0	0.0050	0.1080	Jan-68

58	Feb-68	NORTHERN STATES POWER CO MN	NSP	30.25	-0.054688	0	0.0042	-0.0589	Feb-68
58	Mar-68	NORTHERN STATES POWER CO MN	NSP	29.25	-0.019835	0.4	0.0043	-0.0241	Mar-68
58	Apr-68	NORTHERN STATES POWER CO MN	NSP	28.375	-0.029915	0	0.0049	-0.0348	Apr-68
58	May-68	NORTHERN STATES POWER CO MN	NSP	27.625	-0.026432	0	0.0046	-0.0310	May-68
58	Jun-68	NORTHERN STATES POWER CO MN	NSP	30	0.100452	0.4	0.0042	0.0963	Jun-68
58	Jul-68	NORTHERN STATES POWER CO MN	NSP	30.5	0.016667	0	0.0048	0.0119	Jul-68
58	Aug-68	NORTHERN STATES POWER CO MN	NSP	29.875	-0.020492	0	0.0042	-0.0247	Aug-68
58	Sep-68	NORTHERN STATES POWER CO MN	NSP	30	0.017573	0.4	0.0044	0.0132	Sep-68
58	Oct-68	NORTHERN STATES POWER CO MN	NSP	28.75	-0.041667	0	0.0045	-0.0462	Oct-68
58	Nov-68	NORTHERN STATES POWER CO MN	NSP	31.75	0.104348	0	0.0043	0.1000	Nov-68
58	Dec-68	NORTHERN STATES POWER CO MN	NSP	30	-0.04252	0.4	0.0049	-0.0474	Dec-68
58	Jan-69	NORTHERN STATES POWER CO MN	NSP	30	0.004058	0	0.0050	-0.0009	Jan-69
58	Feb-69	NORTHERN STATES POWER CO MN	NSP	29.375	-0.020833	0	0.0046	-0.0254	Feb-69
58	Mar-69	NORTHERN STATES POWER CO MN	NSP	29.125	0.005106	0.4	0.0047	0.0004	Mar-69
58	Apr-69	NORTHERN STATES POWER CO MN	NSP	28.75	-0.012876	0	0.0055	-0.0184	Apr-69
58	May-69	NORTHERN STATES POWER CO MN	NSP	28.375	-0.013043	0	0.0047	-0.0177	May-69
58	Jun-69	NORTHERN STATES POWER CO MN	NSP	27.5	-0.01674	0.4	0.0055	-0.0222	Jun-69
58	Jul-69	NORTHERN STATES POWER CO MN	NSP	25.625	-0.068182	0	0.0052	-0.0734	Jul-69
58	Aug-69	NORTHERN STATES POWER CO MN	NSP	24.75	-0.034146	0	0.0048	-0.0389	Aug-69
58	Sep-69	NORTHERN STATES POWER CO MN	NSP	24.375	0.00101	0.4	0.0055	-0.0045	Sep-69
58	Oct-69	NORTHERN STATES POWER CO MN	NSP	25.5	0.046154	0	0.0057	0.0405	Oct-69
58	Nov-69	NORTHERN STATES POWER CO MN	NSP	24	-0.058824	0	0.0049	-0.0637	Nov-69
58	Dec-69	NORTHERN STATES POWER CO MN	NSP	22.875	-0.030208	0.4	0.0060	-0.0362	Dec-69
58	Jan-70	NORTHERN STATES POWER CO MN	NSP	22.75	-0.005464	0	0.0056	-0.0111	Jan-70
58	Feb-70	NORTHERN STATES POWER CO MN	NSP	25	0.098901	0	0.0052	0.0937	Feb-70
58	Mar-70	NORTHERN STATES POWER CO MN	NSP	25.5	0.036	0.4	0.0056	0.0304	Mar-70
58	Apr-70	NORTHERN STATES POWER CO MN	NSP	24.125	-0.053922	0	0.0054	-0.0593	Apr-70
58	May-70	NORTHERN STATES POWER CO MN	NSP	23.5	-0.025907	0	0.0055	-0.0314	May-70
58	Jun-70	NORTHERN STATES POWER CO MN	NSP	22.5	-0.024468	0.425	0.0064	-0.0309	Jun-70
58	Jul-70	NORTHERN STATES POWER CO MN	NSP	23.875	0.061111	0	0.0059	0.0552	Jul-70
58	Aug-70	NORTHERN STATES POWER CO MN	NSP	23.125	-0.031414	0	0.0057	-0.0371	Aug-70
58	Sep-70	NORTHERN STATES POWER CO MN	NSP	23.375	0.029189	0.425	0.0056	0.0236	Sep-70
58	Oct-70	NORTHERN STATES POWER CO MN	NSP	22.25	-0.04284	0	0.0055	-0.0483	Oct-70
58	Nov-70	NORTHERN STATES POWER CO MN	NSP	24.75	0.11236	0	0.0058	0.1066	Nov-70
58	Dec-70	NORTHERN STATES POWER CO MN	NSP	26.75	0.09798	0.425	0.0053	0.0927	Dec-70
58	Jan-71	NORTHERN STATES POWER CO MN	NSP	27.875	0.042056	0	0.0051	0.0370	Jan-71
58	Feb-71	NORTHERN STATES POWER CO MN	NSP	27.125	-0.026906	0	0.0046	-0.0315	Feb-71
58	Mar-71	NORTHERN STATES POWER CO MN	NSP	28.5	0.066359	0.425	0.0056	0.0608	Mar-71
58	Apr-71	NORTHERN STATES POWER CO MN	NSP	27.125	-0.048246	0	0.0048	-0.0530	Apr-71

58	May-71	NORTHERN STATES POWER CO MN	NSP	25.5	-0.059908	0	0.0047	-0.0646	May-71
58	Jun-71	NORTHERN STATES POWER CO MN	NSP	25.75	0.026471	0.425	0.0056	0.0209	Jun-71
58	Jul-71	NORTHERN STATES POWER CO MN	NSP	25.75	0	0	0.0052	-0.0052	Jul-71
58	Aug-71	NORTHERN STATES POWER CO MN	NSP	26	0.009709	0	0.0055	0.0042	Aug-71
58	Sep-71	NORTHERN STATES POWER CO MN	NSP	25.5	-0.002885	0.425	0.0049	-0.0078	Sep-71
58	Oct-71	NORTHERN STATES POWER CO MN	NSP	26.125	0.02451	0	0.0047	0.0198	Oct-71
58	Nov-71	NORTHERN STATES POWER CO MN	NSP	26.25	0.004785	0	0.0051	-0.0003	Nov-71
58	Dec-71	NORTHERN STATES POWER CO MN	NSP	27.25	0.054286	0.425	0.0050	0.0493	Dec-71
58	Jan-72	NORTHERN STATES POWER CO MN	NSP	28	0.027523	0	0.0050	0.0225	Jan-72
58	Feb-72	NORTHERN STATES POWER CO MN	NSP	27.125	-0.03125	0	0.0047	-0.0360	Feb-72
58	Mar-72	NORTHERN STATES POWER CO MN	NSP	27.125	0.015668	0.425	0.0049	0.0108	Mar-72
58	Apr-72	NORTHERN STATES POWER CO MN	NSP	25.625	-0.0553	0	0.0048	-0.0601	Apr-72
58	May-72	NORTHERN STATES POWER CO MN	NSP	25.75	0.004878	0	0.0055	-0.0006	May-72
58	Jun-72	NORTHERN STATES POWER CO MN	NSP	25.25	-0.002252	0.442	0.0049	-0.0072	Jun-72
58	Jul-72	NORTHERN STATES POWER CO MN	NSP	24.75	-0.014876	0	0.0051	-0.0200	Jul-72
58	Aug-72	NORTHERN STATES POWER CO MN	NSP	26.5	0.070707	0	0.0049	0.0658	Aug-72
58	Sep-72	NORTHERN STATES POWER CO MN	NSP	26.5	0.016679	0.442	0.0047	0.0120	Sep-72
58	Oct-72	NORTHERN STATES POWER CO MN	NSP	28.5	0.075472	0	0.0052	0.0703	Oct-72
58	Nov-72	NORTHERN STATES POWER CO MN	NSP	30	0.052632	0	0.0048	0.0478	Nov-72
58	Dec-72	NORTHERN STATES POWER CO MN	NSP	30.5	0.031967	0.459	0.0045	0.0275	Dec-72
58	Jan-73	NORTHERN STATES POWER CO MN	NSP	28.75	-0.057377	0	0.0054	-0.0628	Jan-73
58	Feb-73	NORTHERN STATES POWER CO MN	NSP	27.875	-0.030435	0	0.0051	-0.0355	Feb-73
58	Mar-73	NORTHERN STATES POWER CO MN	NSP	27.5	0.003013	0.459	0.0056	-0.0026	Mar-73
58	Apr-73	NORTHERN STATES POWER CO MN	NSP	28.25	0.027273	0	0.0057	0.0216	Apr-73
58	May-73	NORTHERN STATES POWER CO MN	NSP	28.75	0.017699	0	0.0058	0.0119	May-73
58	Jun-73	NORTHERN STATES POWER CO MN	NSP	28.25	-0.001426	0.459	0.0055	-0.0069	Jun-73
58	Jul-73	NORTHERN STATES POWER CO MN	NSP	27.75	-0.017699	0	0.0061	-0.0238	Jul-73
58	Aug-73	NORTHERN STATES POWER CO MN	NSP	26.5	-0.045045	0	0.0062	-0.0512	Aug-73
58	Sep-73	NORTHERN STATES POWER CO MN	NSP	27.375	0.05034	0.459	0.0055	0.0448	Sep-73
58	Oct-73	NORTHERN STATES POWER CO MN	NSP	25	-0.082281	0	0.0063	-0.0886	Oct-73
58	Nov-73	NORTHERN STATES POWER CO MN	NSP	23.125	-0.075	0	0.0056	-0.0806	Nov-73
58	Dec-73	NORTHERN STATES POWER CO MN	NSP	25.25	0.111741	0.459	0.0060	0.1057	Dec-73
58	Jan-74	NORTHERN STATES POWER CO MN	NSP	25.125	-0.00495	0	0.0061	-0.0111	Jan-74
58	Feb-74	NORTHERN STATES POWER CO MN	NSP	24.75	-0.014925	0	0.0055	-0.0204	Feb-74
58	Mar-74	NORTHERN STATES POWER CO MN	NSP	24.375	0.003394	0.459	0.0058	-0.0024	Mar-74
58	Apr-74	NORTHERN STATES POWER CO MN	NSP	22.25	-0.087179	0	0.0068	-0.0940	Apr-74
58	May-74	NORTHERN STATES POWER CO MN	NSP	20.25	-0.089888	0	0.0068	-0.0967	May-74
58	Jun-74	NORTHERN STATES POWER CO MN	NSP	18.25	-0.076099	0.459	0.0061	-0.0822	Jun-74
58	Jul-74	NORTHERN STATES POWER CO MN	NSP	20.125	0.10274	0	0.0072	0.0955	Jul-74

58	Aug-74	NORTHERN STATES POWER CO MN	NSP	17.875	-0.111801	0	0.0065	-0.1183	Aug-74
58	Sep-74	NORTHERN STATES POWER CO MN	NSP	16.375	-0.058238	0.459	0.0071	-0.0653	Sep-74
58	Oct-74	NORTHERN STATES POWER CO MN	NSP	17.5	0.068702	0	0.0070	0.0617	Oct-74
58	Nov-74	NORTHERN STATES POWER CO MN	NSP	17.25	-0.014286	0	0.0062	-0.0205	Nov-74
58	Dec-74	NORTHERN STATES POWER CO MN	NSP	16	-0.045855	0.459	0.0067	-0.0526	Dec-74
58	Jan-75	NORTHERN STATES POWER CO MN	NSP	21.125	0.320312	0	0.0068	0.3135	Jan-75
58	Feb-75	NORTHERN STATES POWER CO MN	NSP	21.625	0.023669	0	0.0060	0.0177	Feb-75
58	Mar-75	NORTHERN STATES POWER CO MN	NSP	21.5	0.015445	0.459	0.0066	0.0088	Mar-75
58	Apr-75	NORTHERN STATES POWER CO MN	NSP	22	0.023256	0	0.0067	0.0166	Apr-75
58	May-75	NORTHERN STATES POWER CO MN	NSP	22	0	0	0.0067	-0.0067	May-75
58	Jun-75	NORTHERN STATES POWER CO MN	NSP	25.875	0.197	0.459	0.0070	0.1900	Jun-75
58	Jul-75	NORTHERN STATES POWER CO MN	NSP	24.625	-0.048309	0	0.0068	-0.0551	Jul-75
58	Aug-75	NORTHERN STATES POWER CO MN	NSP	23.25	-0.055838	0	0.0065	-0.0623	Aug-75
58	Sep-75	NORTHERN STATES POWER CO MN	NSP	24	0.052	0.459	0.0073	0.0447	Sep-75
58	Oct-75	NORTHERN STATES POWER CO MN	NSP	26.75	0.114583	0	0.0072	0.1074	Oct-75
58	Nov-75	NORTHERN STATES POWER CO MN	NSP	27	0.009346	0	0.0061	0.0032	Nov-75
58	Dec-75	NORTHERN STATES POWER CO MN	NSP	26.375	-0.005185	0.485	0.0074	-0.0126	Dec-75
58	Jan-76	NORTHERN STATES POWER CO MN	NSP	27.625	0.047393	0	0.0065	0.0409	Jan-76
58	Feb-76	NORTHERN STATES POWER CO MN	NSP	25	-0.095023	0	0.0060	-0.1010	Feb-76
58	Mar-76	NORTHERN STATES POWER CO MN	NSP	26.5	0.0794	0.485	0.0071	0.0723	Mar-76
58	Apr-76	NORTHERN STATES POWER CO MN	NSP	24.75	-0.066038	0	0.0064	-0.0724	Apr-76
58	May-76	NORTHERN STATES POWER CO MN	NSP	24.375	-0.015152	0	0.0059	-0.0211	May-76
58	Jun-76	NORTHERN STATES POWER CO MN	NSP	24.375	0.019897	0.485	0.0073	0.0126	Jun-76
58	Jul-76	NORTHERN STATES POWER CO MN	NSP	26.5	0.087179	0	0.0065	0.0807	Jul-76
58	Aug-76	NORTHERN STATES POWER CO MN	NSP	28.25	0.066038	0	0.0069	0.0591	Aug-76
58	Sep-76	NORTHERN STATES POWER CO MN	NSP	28	0.008319	0.485	0.0064	0.0019	Sep-76
58	Oct-76	NORTHERN STATES POWER CO MN	NSP	28	0	0	0.0061	-0.0061	Oct-76
58	Nov-76	NORTHERN STATES POWER CO MN	NSP	28.75	0.026786	0	0.0066	0.0202	Nov-76
58	Dec-76	NORTHERN STATES POWER CO MN	NSP	29.5	0.042957	0.485	0.0063	0.0367	Dec-76
58	Jan-77	NORTHERN STATES POWER CO MN	NSP	29.375	-0.004237	0	0.0059	-0.0101	Jan-77
58	Feb-77	NORTHERN STATES POWER CO MN	NSP	27.75	-0.055319	0	0.0057	-0.0610	Feb-77
58	Mar-77	NORTHERN STATES POWER CO MN	NSP	27	-0.00955	0.485	0.0065	-0.0161	Mar-77
58	Apr-77	NORTHERN STATES POWER CO MN	NSP	27.375	0.013889	0	0.0061	0.0078	Apr-77
58	May-77	NORTHERN STATES POWER CO MN	NSP	27.625	0.009132	0	0.0067	0.0024	May-77
58	Jun-77	NORTHERN STATES POWER CO MN	NSP	28.75	0.059367	0.515	0.0062	0.0532	Jun-77
58	Jul-77	NORTHERN STATES POWER CO MN	NSP	29.25	0.017391	0	0.0059	0.0115	Jul-77
58	Aug-77	NORTHERN STATES POWER CO MN	NSP	30.125	0.029915	0	0.0067	0.0232	Aug-77
58	Sep-77	NORTHERN STATES POWER CO MN	NSP	29.75	0.004647	0.515	0.0061	-0.0015	Sep-77
58	Oct-77	NORTHERN STATES POWER CO MN	NSP	27.625	-0.071429	0	0.0063	-0.0777	Oct-77

58	Nov-77	NORTHERN STATES POWER CO MN	NSP	28.625	0.036199	0	0.0063	0.0299	Nov-77
58	Dec-77	NORTHERN STATES POWER CO MN	NSP	28.25	0.004891	0.515	0.0062	-0.0013	Dec-77
58	Jan-78	NORTHERN STATES POWER CO MN	NSP	25.75	-0.088496	0	0.0069	-0.0954	Jan-78
58	Feb-78	NORTHERN STATES POWER CO MN	NSP	26.125	0.014563	0	0.0060	0.0086	Feb-78
58	Mar-78	NORTHERN STATES POWER CO MN	NSP	24.625	-0.037703	0.515	0.0069	-0.0446	Mar-78
58	Apr-78	NORTHERN STATES POWER CO MN	NSP	24.25	-0.015228	0	0.0063	-0.0215	Apr-78
58	May-78	NORTHERN STATES POWER CO MN	NSP	25.75	0.061856	0	0.0075	0.0544	May-78
58	Jun-78	NORTHERN STATES POWER CO MN	NSP	25.5	0.011262	0.54	0.0069	0.0044	Jun-78
58	Jul-78	NORTHERN STATES POWER CO MN	NSP	26.125	0.02451	0	0.0073	0.0172	Jul-78
58	Aug-78	NORTHERN STATES POWER CO MN	NSP	26.375	0.009569	0	0.0070	0.0026	Aug-78
58	Sep-78	NORTHERN STATES POWER CO MN	NSP	25	-0.031659	0.54	0.0065	-0.0382	Sep-78
58	Oct-78	NORTHERN STATES POWER CO MN	NSP	23.625	-0.055	0	0.0073	-0.0623	Oct-78
58	Nov-78	NORTHERN STATES POWER CO MN	NSP	24.125	0.021164	0	0.0071	0.0141	Nov-78
58	Dec-78	NORTHERN STATES POWER CO MN	NSP	23.5	-0.003523	0.54	0.0068	-0.0103	Dec-78
58	Jan-79	NORTHERN STATES POWER CO MN	NSP	24.5	0.042553	0	0.0079	0.0347	Jan-79
58	Feb-79	NORTHERN STATES POWER CO MN	NSP	24.25	-0.010204	0	0.0065	-0.0167	Feb-79
58	Mar-79	NORTHERN STATES POWER CO MN	NSP	24.625	0.037732	0.54	0.0074	0.0303	Mar-79
58	Apr-79	NORTHERN STATES POWER CO MN	NSP	22.625	-0.081218	0	0.0076	-0.0888	Apr-79
58	May-79	NORTHERN STATES POWER CO MN	NSP	23.125	0.022099	0	0.0077	0.0144	May-79
58	Jun-79	NORTHERN STATES POWER CO MN	NSP	24.125	0.067892	0.57	0.0071	0.0608	Jun-79
58	Jul-79	NORTHERN STATES POWER CO MN	NSP	24.5	0.015544	0	0.0076	0.0079	Jul-79
58	Aug-79	NORTHERN STATES POWER CO MN	NSP	25.125	0.02551	0	0.0073	0.0182	Aug-79
58	Sep-79	NORTHERN STATES POWER CO MN	NSP	23.75	-0.03204	0.57	0.0068	-0.0388	Sep-79
58	Oct-79	NORTHERN STATES POWER CO MN	NSP	22	-0.073684	0	0.0082	-0.0819	Oct-79
58	Nov-79	NORTHERN STATES POWER CO MN	NSP	23.5	0.068182	0	0.0083	0.0599	Nov-79
58	Dec-79	NORTHERN STATES POWER CO MN	NSP	22.375	-0.023617	0.57	0.0083	-0.0319	Dec-79
58	Jan-80	NORTHERN STATES POWER CO MN	NSP	20.5	-0.083799	0	0.0083	-0.0921	Jan-80
58	Feb-80	NORTHERN STATES POWER CO MN	NSP	19.375	-0.054878	0	0.0084	-0.0633	Feb-80
58	Mar-80	NORTHERN STATES POWER CO MN	NSP	19.5	0.035871	0.57	0.0099	0.0260	Mar-80
58	Apr-80	NORTHERN STATES POWER CO MN	NSP	23.375	0.198718	0	0.0100	0.1887	Apr-80
58	May-80	NORTHERN STATES POWER CO MN	NSP	23.75	0.016043	0	0.0087	0.0073	May-80
58	Jun-80	NORTHERN STATES POWER CO MN	NSP	24.875	0.072842	0.605	0.0086	0.0642	Jun-80
58	Jul-80	NORTHERN STATES POWER CO MN	NSP	24.75	-0.005025	0	0.0084	-0.0134	Jul-80
58	Aug-80	NORTHERN STATES POWER CO MN	NSP	24.125	-0.025253	0	0.0081	-0.0334	Aug-80
58	Sep-80	NORTHERN STATES POWER CO MN	NSP	23.625	0.004352	0.605	0.0097	-0.0053	Sep-80
58	Oct-80	NORTHERN STATES POWER CO MN	NSP	21.75	-0.079365	0	0.0097	-0.0891	Oct-80
58	Nov-80	NORTHERN STATES POWER CO MN	NSP	21.25	-0.022989	0	0.0091	-0.0321	Nov-80
58	Dec-80	NORTHERN STATES POWER CO MN	NSP	21.5	0.040235	0.605	0.0108	0.0294	Dec-80
58	Jan-81	NORTHERN STATES POWER CO MN	NSP	21	-0.023256	0	0.0094	-0.0327	Jan-81

58	Feb-81	NORTHERN STATES POWER CO MN	NSP	20.375	-0.029762	0	0.0088	-0.0386	Feb-81
58	Mar-81	NORTHERN STATES POWER CO MN	NSP	21	0.060368	0.605	0.0111	0.0493	Mar-81
58	Apr-81	NORTHERN STATES POWER CO MN	NSP	23	0.095238	0	0.0101	0.0851	Apr-81
58	May-81	NORTHERN STATES POWER CO MN	NSP	23.75	0.032609	0	0.0104	0.0222	May-81
58	Jun-81	NORTHERN STATES POWER CO MN	NSP	25.25	0.090105	0.64	0.0109	0.0792	Jun-81
58	Jul-81	NORTHERN STATES POWER CO MN	NSP	24.125	-0.044554	0	0.0109	-0.0555	Jul-81
58	Aug-81	NORTHERN STATES POWER CO MN	NSP	25.125	0.041451	0	0.0110	0.0305	Aug-81
58	Sep-81	NORTHERN STATES POWER CO MN	NSP	22.75	-0.069055	0.64	0.0114	-0.0805	Sep-81
58	Oct-81	NORTHERN STATES POWER CO MN	NSP	25.375	0.115385	0	0.0117	0.1037	Oct-81
58	Nov-81	NORTHERN STATES POWER CO MN	NSP	26.25	0.034483	0	0.0113	0.0232	Nov-81
58	Dec-81	NORTHERN STATES POWER CO MN	NSP	24.125	-0.056571	0.64	0.0100	-0.0666	Dec-81
58	Jan-82	NORTHERN STATES POWER CO MN	NSP	25.75	0.067358	0	0.0108	0.0566	Jan-82
58	Feb-82	NORTHERN STATES POWER CO MN	NSP	26	0.009709	0	0.0103	-0.0006	Feb-82
58	Mar-82	NORTHERN STATES POWER CO MN	NSP	26.25	0.034231	0.64	0.0124	0.0218	Mar-82
58	Apr-82	NORTHERN STATES POWER CO MN	NSP	26.75	0.019048	0	0.0112	0.0078	Apr-82
58	May-82	NORTHERN STATES POWER CO MN	NSP	27.75	0.037383	0	0.0101	0.0273	May-82
58	Jun-82	NORTHERN STATES POWER CO MN	NSP	26.5	-0.02036	0.685	0.0120	-0.0324	Jun-82
58	Jul-82	NORTHERN STATES POWER CO MN	NSP	26.625	0.004717	0	0.0114	-0.0067	Jul-82
58	Aug-82	NORTHERN STATES POWER CO MN	NSP	30	0.126761	0	0.0112	0.1156	Aug-82
58	Sep-82	NORTHERN STATES POWER CO MN	NSP	29.625	0.010333	0.685	0.0100	0.0003	Sep-82
58	Oct-82	NORTHERN STATES POWER CO MN	NSP	29.75	0.004219	0	0.0091	-0.0049	Oct-82
58	Nov-82	NORTHERN STATES POWER CO MN	NSP	29.125	-0.021008	0	0.0094	-0.0304	Nov-82
58	Dec-82	NORTHERN STATES POWER CO MN	NSP	30	0.053562	0.685	0.0093	0.0443	Dec-82
58	Jan-83	NORTHERN STATES POWER CO MN	NSP	30.125	0.004167	0	0.0087	-0.0045	Jan-83
58	Feb-83	NORTHERN STATES POWER CO MN	NSP	31.75	0.053942	0	0.0081	0.0458	Feb-83
58	Mar-83	NORTHERN STATES POWER CO MN	NSP	30.375	-0.021732	0.685	0.0089	-0.0306	Mar-83
58	Apr-83	NORTHERN STATES POWER CO MN	NSP	32.375	0.065844	0	0.0085	0.0573	Apr-83
58	May-83	NORTHERN STATES POWER CO MN	NSP	33.375	0.030888	0	0.0091	0.0218	May-83
58	Jun-83	NORTHERN STATES POWER CO MN	NSP	32.875	0.007191	0.74	0.0090	-0.0018	Jun-83
58	Jul-83	NORTHERN STATES POWER CO MN	NSP	33	0.003802	0	0.0088	-0.0050	Jul-83
58	Aug-83	NORTHERN STATES POWER CO MN	NSP	34	0.030303	0	0.0103	0.0200	Aug-83
58	Sep-83	NORTHERN STATES POWER CO MN	NSP	36.375	0.091618	0.74	0.0096	0.0820	Sep-83
58	Oct-83	NORTHERN STATES POWER CO MN	NSP	39.25	0.079038	0	0.0095	0.0695	Oct-83
58	Nov-83	NORTHERN STATES POWER CO MN	NSP	38.125	-0.028662	0	0.0094	-0.0381	Nov-83
58	Dec-83	NORTHERN STATES POWER CO MN	NSP	38	0.016131	0.74	0.0094	0.0067	Dec-83
58	Jan-84	NORTHERN STATES POWER CO MN	NSP	37	-0.026316	0	0.0103	-0.0366	Jan-84
58	Feb-84	NORTHERN STATES POWER CO MN	NSP	36	-0.027027	0	0.0092	-0.0362	Feb-84
58	Mar-84	NORTHERN STATES POWER CO MN	NSP	34.875	-0.010694	0.74	0.0098	-0.0205	Mar-84
58	Apr-84	NORTHERN STATES POWER CO MN	NSP	35.75	0.02509	0	0.0104	0.0147	Apr-84

58	May-84	NORTHERN STATES POWER CO MN	NSP	36.625	0.024476	0	0.0103	0.0142	May-84
58	Jun-84	NORTHERN STATES POWER CO MN	NSP	37.125	0.035768	0.81	0.0106	0.0252	Jun-84
58	Jul-84	NORTHERN STATES POWER CO MN	NSP	37.25	0.003367	0	0.0116	-0.0082	Jul-84
58	Aug-84	NORTHERN STATES POWER CO MN	NSP	40.375	0.083893	0	0.0106	0.0733	Aug-84
58	Sep-84	NORTHERN STATES POWER CO MN	NSP	41.5	0.047926	0.81	0.0094	0.0385	Sep-84
58	Oct-84	NORTHERN STATES POWER CO MN	NSP	41.25	-0.006024	0	0.0108	-0.0168	Oct-84
58	Nov-84	NORTHERN STATES POWER CO MN	NSP	41.5	0.006061	0	0.0091	-0.0030	Nov-84
58	Dec-84	NORTHERN STATES POWER CO MN	NSP	41.75	0.025542	0.81	0.0098	0.0157	Dec-84
58	Jan-85	NORTHERN STATES POWER CO MN	NSP	43.25	0.035928	0	0.0096	0.0263	Jan-85
58	Feb-85	NORTHERN STATES POWER CO MN	NSP	42.125	-0.026012	0	0.0082	-0.0342	Feb-85
58	Mar-85	NORTHERN STATES POWER CO MN	NSP	43.75	0.057804	0.81	0.0094	0.0484	Mar-85
58	Apr-85	NORTHERN STATES POWER CO MN	NSP	45.625	0.042857	0	0.0102	0.0327	Apr-85
58	May-85	NORTHERN STATES POWER CO MN	NSP	47.875	0.049315	0	0.0097	0.0396	May-85
58	Jun-85	NORTHERN STATES POWER CO MN	NSP	49.375	0.049713	0.88	0.0080	0.0417	Jun-85
58	Jul-85	NORTHERN STATES POWER CO MN	NSP	47	-0.048101	0	0.0094	-0.0575	Jul-85
58	Aug-85	NORTHERN STATES POWER CO MN	NSP	48	0.021277	0	0.0085	0.0128	Aug-85
58	Sep-85	NORTHERN STATES POWER CO MN	NSP	45.5	-0.03375	0.88	0.0088	-0.0426	Sep-85
58	Oct-85	NORTHERN STATES POWER CO MN	NSP	47.875	0.052198	0	0.0089	0.0433	Oct-85
58	Nov-85	NORTHERN STATES POWER CO MN	NSP	49.75	0.039164	0	0.0081	0.0311	Nov-85
58	Dec-85	NORTHERN STATES POWER CO MN	NSP	53	0.083015	0.88	0.0086	0.0744	Dec-85
58	Jan-86	NORTHERN STATES POWER CO MN	NSP	54	0.018868	0	0.0079	0.0110	Jan-86
58	Feb-86	NORTHERN STATES POWER CO MN	NSP	59.25	0.097222	0	0.0073	0.0899	Feb-86
58	Mar-86	NORTHERN STATES POWER CO MN	NSP	60.5	0.035949	0.88	0.0071	0.0288	Mar-86
58	Apr-86	NORTHERN STATES POWER CO MN	NSP	62	0.024793	0	0.0063	0.0185	Apr-86
58	May-86	NORTHERN STATES POWER CO MN	NSP	63.25	0.020161	0	0.0062	0.0140	May-86
58	Jun-86	NORTHERN STATES POWER CO MN	NSP	35	0.121739	0.95	0.0070	0.1147	Jun-86
58	Jul-86	NORTHERN STATES POWER CO MN	NSP	37.875	0.082143	0	0.0066	0.0755	Jul-86
58	Aug-86	NORTHERN STATES POWER CO MN	NSP	39.75	0.049505	0	0.0063	0.0432	Aug-86
58	Sep-86	NORTHERN STATES POWER CO MN	NSP	34.5	-0.120126	0.475	0.0065	-0.1266	Sep-86
58	Oct-86	NORTHERN STATES POWER CO MN	NSP	35.5	0.028986	0	0.0069	0.0221	Oct-86
58	Nov-86	NORTHERN STATES POWER CO MN	NSP	36.125	0.017606	0	0.0059	0.0117	Nov-86
58	Dec-86	NORTHERN STATES POWER CO MN	NSP	34.5	-0.031834	0.475	0.0070	-0.0388	Dec-86
58	Jan-87	NORTHERN STATES POWER CO MN	NSP	37.75	0.094203	0	0.0064	0.0878	Jan-87
58	Feb-87	NORTHERN STATES POWER CO MN	NSP	33.625	-0.109272	0	0.0059	-0.1152	Feb-87
58	Mar-87	NORTHERN STATES POWER CO MN	NSP	32.75	-0.011896	0.475	0.0066	-0.0185	Mar-87
58	Apr-87	NORTHERN STATES POWER CO MN	NSP	32.125	-0.019084	0	0.0065	-0.0256	Apr-87
58	May-87	NORTHERN STATES POWER CO MN	NSP	31.75	-0.011673	0	0.0066	-0.0183	May-87
58	Jun-87	NORTHERN STATES POWER CO MN	NSP	31.5	0.008031	0.505	0.0075	0.0005	Jun-87
58	Jul-87	NORTHERN STATES POWER CO MN	NSP	31.375	-0.003968	0	0.0073	-0.0113	Jul-87

58	Aug-87	NORTHERN STATES POWER CO MN	NSP	32.5	0.035857	0	0.0075	0.0284	Aug-87
58	Sep-87	NORTHERN STATES POWER CO MN	NSP	31	-0.030615	0.505	0.0075	-0.0381	Sep-87
58	Oct-87	NORTHERN STATES POWER CO MN	NSP	30.25	-0.024194	0	0.0079	-0.0321	Oct-87
58	Nov-87	NORTHERN STATES POWER CO MN	NSP	29.75	-0.016529	0	0.0075	-0.0240	Nov-87
58	Dec-87	NORTHERN STATES POWER CO MN	NSP	29.625	0.012773	0.505	0.0078	0.0050	Dec-87
58	Jan-88	NORTHERN STATES POWER CO MN	NSP	32.125	0.084388	0	0.0072	0.0772	Jan-88
58	Feb-88	NORTHERN STATES POWER CO MN	NSP	31.375	-0.023346	0	0.0071	-0.0304	Feb-88
58	Mar-88	NORTHERN STATES POWER CO MN	NSP	30.125	-0.023745	0.505	0.0072	-0.0309	Mar-88
58	Apr-88	NORTHERN STATES POWER CO MN	NSP	30	-0.004149	0	0.0070	-0.0111	Apr-88
58	May-88	NORTHERN STATES POWER CO MN	NSP	31.25	0.041667	0	0.0078	0.0339	May-88
58	Jun-88	NORTHERN STATES POWER CO MN	NSP	31.125	0.01296	0.53	0.0076	0.0054	Jun-88
58	Jul-88	NORTHERN STATES POWER CO MN	NSP	31.375	0.008032	0	0.0071	0.0009	Jul-88
58	Aug-88	NORTHERN STATES POWER CO MN	NSP	31.25	-0.003984	0	0.0083	-0.0123	Aug-88
58	Sep-88	NORTHERN STATES POWER CO MN	NSP	32.5	0.05696	0.53	0.0076	0.0494	Sep-88
58	Oct-88	NORTHERN STATES POWER CO MN	NSP	33.75	0.038462	0	0.0076	0.0309	Oct-88
58	Nov-88	NORTHERN STATES POWER CO MN	NSP	32.75	-0.02963	0	0.0070	-0.0366	Nov-88
58	Dec-88	NORTHERN STATES POWER CO MN	NSP	32.75	0.016183	0.53	0.0075	0.0087	Dec-88
58	Jan-89	NORTHERN STATES POWER CO MN	NSP	33	0.007634	0	0.0080	-0.0004	Jan-89
58	Feb-89	NORTHERN STATES POWER CO MN	NSP	31.5	-0.045455	0	0.0069	-0.0524	Feb-89
58	Mar-89	NORTHERN STATES POWER CO MN	NSP	30.875	-0.003016	0.53	0.0079	-0.0109	Mar-89
58	Apr-89	NORTHERN STATES POWER CO MN	NSP	33.5	0.08502	0	0.0070	0.0780	Apr-89
58	May-89	NORTHERN STATES POWER CO MN	NSP	35.375	0.05597	0	0.0080	0.0480	May-89
58	Jun-89	NORTHERN STATES POWER CO MN	NSP	36.5	0.031802	0	0.0070	0.0248	Jun-89
58	Jul-89	NORTHERN STATES POWER CO MN	NSP	37.5	0.042603	0.555	0.0068	0.0358	Jul-89
58	Aug-89	NORTHERN STATES POWER CO MN	NSP	37	-0.013333	0	0.0066	-0.0199	Aug-89
58	Sep-89	NORTHERN STATES POWER CO MN	NSP	36.875	0.011622	0.555	0.0065	0.0051	Sep-89
58	Oct-89	NORTHERN STATES POWER CO MN	NSP	36.75	-0.00339	0	0.0072	-0.0106	Oct-89
58	Nov-89	NORTHERN STATES POWER CO MN	NSP	38	0.034014	0	0.0064	0.0276	Nov-89
58	Dec-89	NORTHERN STATES POWER CO MN	NSP	39.75	0.060658	0.555	0.0064	0.0543	Dec-89
58	Jan-90	NORTHERN STATES POWER CO MN	NSP	37.25	-0.062893	0	0.0073	-0.0702	Jan-90
58	Feb-90	NORTHERN STATES POWER CO MN	NSP	36.5	-0.020134	0	0.0066	-0.0267	Feb-90
58	Mar-90	NORTHERN STATES POWER CO MN	NSP	36.375	-0.003425	0	0.0071	-0.0105	Mar-90
58	Apr-90	NORTHERN STATES POWER CO MN	NSP	33.5	-0.06378	0.555	0.0075	-0.0713	Apr-90
58	May-90	NORTHERN STATES POWER CO MN	NSP	35.875	0.070896	0	0.0075	0.0634	May-90
58	Jun-90	NORTHERN STATES POWER CO MN	NSP	36.125	0.006969	0	0.0068	0.0002	Jun-90
58	Jul-90	NORTHERN STATES POWER CO MN	NSP	35.75	0.005675	0.58	0.0074	-0.0017	Jul-90
58	Aug-90	NORTHERN STATES POWER CO MN	NSP	29.875	-0.164336	0	0.0071	-0.1714	Aug-90
58	Sep-90	NORTHERN STATES POWER CO MN	NSP	30.125	0.027782	0.58	0.0069	0.0209	Sep-90
58	Oct-90	NORTHERN STATES POWER CO MN	NSP	32.625	0.082988	0	0.0081	0.0749	Oct-90

58	Nov-90	NORTHERN STATES POWER CO MN	NSP	33.125	0.015326	0	0.0071	0.0082	Nov-90
58	Dec-90	NORTHERN STATES POWER CO MN	NSP	34	0.043925	0.58	0.0072	0.0367	Dec-90
58	Jan-91	NORTHERN STATES POWER CO MN	NSP	33.375	-0.018382	0	0.0071	-0.0255	Jan-91
58	Feb-91	NORTHERN STATES POWER CO MN	NSP	34.125	0.022472	0	0.0064	0.0161	Feb-91
58	Mar-91	NORTHERN STATES POWER CO MN	NSP	35.5	0.040293	0	0.0064	0.0339	Mar-91
58	Apr-91	NORTHERN STATES POWER CO MN	NSP	33.5	-0.04	0.58	0.0076	-0.0476	Apr-91
58	May-91	NORTHERN STATES POWER CO MN	NSP	34	0.014925	0	0.0068	0.0081	May-91
58	Jun-91	NORTHERN STATES POWER CO MN	NSP	34.625	0.018382	0	0.0063	0.0121	Jun-91
58	Jul-91	NORTHERN STATES POWER CO MN	NSP	35.875	0.053574	0.605	0.0076	0.0460	Jul-91
58	Aug-91	NORTHERN STATES POWER CO MN	NSP	37.75	0.052265	0	0.0068	0.0455	Aug-91
58	Sep-91	NORTHERN STATES POWER CO MN	NSP	39.375	0.059073	0.605	0.0068	0.0523	Sep-91
58	Oct-91	NORTHERN STATES POWER CO MN	NSP	39.75	0.009524	0	0.0065	0.0030	Oct-91
58	Nov-91	NORTHERN STATES POWER CO MN	NSP	41	0.031447	0	0.0060	0.0254	Nov-91
58	Dec-91	NORTHERN STATES POWER CO MN	NSP	43	0.063537	0.605	0.0068	0.0567	Dec-91
58	Jan-92	NORTHERN STATES POWER CO MN	NSP	40.75	-0.052326	0	0.0061	-0.0584	Jan-92
58	Feb-92	NORTHERN STATES POWER CO MN	NSP	40.625	-0.003067	0	0.0059	-0.0090	Feb-92
58	Mar-92	NORTHERN STATES POWER CO MN	NSP	39.25	-0.033846	0	0.0067	-0.0405	Mar-92
58	Apr-92	NORTHERN STATES POWER CO MN	NSP	40.625	0.050446	0.605	0.0065	0.0439	Apr-92
58	May-92	NORTHERN STATES POWER CO MN	NSP	40.875	0.006154	0	0.0061	0.0001	May-92
58	Jun-92	NORTHERN STATES POWER CO MN	NSP	41.5	0.015291	0	0.0067	0.0086	Jun-92
58	Jul-92	NORTHERN STATES POWER CO MN	NSP	43.75	0.069398	0.63	0.0063	0.0631	Jul-92
58	Aug-92	NORTHERN STATES POWER CO MN	NSP	43.5	-0.005714	0	0.0060	-0.0117	Aug-92
58	Sep-92	NORTHERN STATES POWER CO MN	NSP	43	0.002989	0.63	0.0058	-0.0028	Sep-92
58	Oct-92	NORTHERN STATES POWER CO MN	NSP	42.5	-0.011628	0	0.0057	-0.0173	Oct-92
58	Nov-92	NORTHERN STATES POWER CO MN	NSP	43.375	0.020588	0	0.0061	0.0145	Nov-92
58	Dec-92	NORTHERN STATES POWER CO MN	NSP	43.25	0.011643	0.63	0.0063	0.0053	Dec-92
58	Jan-93	NORTHERN STATES POWER CO MN	NSP	44	0.017341	0	0.0059	0.0114	Jan-93
58	Feb-93	NORTHERN STATES POWER CO MN	NSP	46.75	0.0625	0	0.0055	0.0570	Feb-93
58	Mar-93	NORTHERN STATES POWER CO MN	NSP	46.625	-0.002674	0	0.0063	-0.0090	Mar-93
58	Apr-93	NORTHERN STATES POWER CO MN	NSP	45.375	-0.013298	0.63	0.0057	-0.0190	Apr-93
58	May-93	NORTHERN STATES POWER CO MN	NSP	44.125	-0.027548	0	0.0052	-0.0327	May-93
58	Jun-93	NORTHERN STATES POWER CO MN	NSP	45.875	0.03966	0	0.0062	0.0335	Jun-93
58	Jul-93	NORTHERN STATES POWER CO MN	NSP	45.875	0.01406	0.645	0.0054	0.0087	Jul-93
58	Aug-93	NORTHERN STATES POWER CO MN	NSP	47.25	0.029973	0	0.0056	0.0244	Aug-93
58	Sep-93	NORTHERN STATES POWER CO MN	NSP	46.375	-0.004868	0.645	0.0050	-0.0099	Sep-93
58	Oct-93	NORTHERN STATES POWER CO MN	NSP	44.375	-0.043127	0	0.0049	-0.0480	Oct-93
58	Nov-93	NORTHERN STATES POWER CO MN	NSP	42.25	-0.047887	0	0.0053	-0.0532	Nov-93
58	Dec-93	NORTHERN STATES POWER CO MN	NSP	43.125	0.035976	0.645	0.0055	0.0305	Dec-93
58	Jan-94	NORTHERN STATES POWER CO MN	NSP	43.625	0.011594	0	0.0055	0.0061	Jan-94

58	Feb-94	NORTHERN STATES POWER CO MN	NSP	41.25	-0.054441	0	0.0049	-0.0593	Feb-94
58	Mar-94	NORTHERN STATES POWER CO MN	NSP	40.875	-0.009091	0	0.0058	-0.0149	Mar-94
58	Apr-94	NORTHERN STATES POWER CO MN	NSP	42	0.043303	0.645	0.0057	0.0376	Apr-94
58	May-94	NORTHERN STATES POWER CO MN	NSP	40.875	-0.026786	0	0.0063	-0.0331	May-94
58	Jun-94	NORTHERN STATES POWER CO MN	NSP	41	0.003058	0	0.0061	-0.0030	Jun-94
58	Jul-94	NORTHERN STATES POWER CO MN	NSP	42.75	0.05878	0.66	0.0060	0.0528	Jul-94
58	Aug-94	NORTHERN STATES POWER CO MN	NSP	43.25	0.011696	0	0.0066	0.0051	Aug-94
58	Sep-94	NORTHERN STATES POWER CO MN	NSP	42.25	-0.007861	0.66	0.0061	-0.0140	Sep-94
58	Oct-94	NORTHERN STATES POWER CO MN	NSP	44.375	0.050296	0	0.0066	0.0437	Oct-94
58	Nov-94	NORTHERN STATES POWER CO MN	NSP	45.125	0.016901	0	0.0064	0.0105	Nov-94
58	Dec-94	NORTHERN STATES POWER CO MN	NSP	44	-0.010305	0.66	0.0066	-0.0169	Dec-94
58	Jan-95	NORTHERN STATES POWER CO MN	NSP	46.25	0.051136	0	0.0070	0.0441	Jan-95
58	Feb-95	NORTHERN STATES POWER CO MN	NSP	45.25	-0.021622	0	0.0059	-0.0275	Feb-95
58	Mar-95	NORTHERN STATES POWER CO MN	NSP	44	-0.027624	0	0.0064	-0.0340	Mar-95
58	Apr-95	NORTHERN STATES POWER CO MN	NSP	44.25	0.020682	0.66	0.0058	0.0149	Apr-95
58	May-95	NORTHERN STATES POWER CO MN	NSP	47.375	0.070621	0	0.0065	0.0641	May-95
58	Jun-95	NORTHERN STATES POWER CO MN	NSP	46.125	-0.026385	0	0.0054	-0.0318	Jun-95
58	Jul-95	NORTHERN STATES POWER CO MN	NSP	44.25	-0.026016	0.675	0.0056	-0.0316	Jul-95
58	Aug-95	NORTHERN STATES POWER CO MN	NSP	42.625	-0.036723	0	0.0057	-0.0424	Aug-95
58	Sep-95	NORTHERN STATES POWER CO MN	NSP	45.375	0.080352	0.675	0.0052	0.0752	Sep-95
58	Oct-95	NORTHERN STATES POWER CO MN	NSP	47.25	0.041322	0	0.0057	0.0356	Oct-95
58	Nov-95	NORTHERN STATES POWER CO MN	NSP	47	-0.005291	0	0.0051	-0.0104	Nov-95
58	Dec-95	NORTHERN STATES POWER CO MN	NSP	49.125	0.059574	0.675	0.0049	0.0547	Dec-95
58	Jan-96	NORTHERN STATES POWER CO MN	NSP	51.375	0.045802	0	0.0054	0.0404	Jan-96
58	Feb-96	NORTHERN STATES POWER CO MN	NSP	49.25	-0.041363	0	0.0048	-0.0462	Feb-96
58	Mar-96	NORTHERN STATES POWER CO MN	NSP	48.75	-0.010152	0	0.0052	-0.0154	Mar-96
58	Apr-96	NORTHERN STATES POWER CO MN	NSP	46.625	-0.029744	0.675	0.0059	-0.0356	Apr-96
58	May-96	NORTHERN STATES POWER CO MN	NSP	47	0.008043	0	0.0058	0.0022	May-96
58	Jun-96	NORTHERN STATES POWER CO MN	NSP	49.375	0.050532	0	0.0054	0.0451	Jun-96
58	Jul-96	NORTHERN STATES POWER CO MN	NSP	44.75	-0.079696	0.69	0.0062	-0.0859	Jul-96
58	Aug-96	NORTHERN STATES POWER CO MN	NSP	45.625	0.019553	0	0.0057	0.0139	Aug-96
58	Sep-96	NORTHERN STATES POWER CO MN	NSP	46.625	0.037041	0.69	0.0060	0.0310	Sep-96
58	Oct-96	NORTHERN STATES POWER CO MN	NSP	47	0.008043	0	0.0058	0.0022	Oct-96
58	Nov-96	NORTHERN STATES POWER CO MN	NSP	47.125	0.00266	0	0.0052	-0.0025	Nov-96
58	Dec-96	NORTHERN STATES POWER CO MN	NSP	45.875	-0.011883	0.69	0.0056	-0.0175	Dec-96
58	Jan-97	NORTHERN STATES POWER CO MN	NSP	46.125	0.00545	0	0.0056	-0.0002	Jan-97
58	Feb-97	NORTHERN STATES POWER CO MN	NSP	47.625	0.03252	0	0.0051	0.0274	Feb-97
58	Mar-97	NORTHERN STATES POWER CO MN	NSP	47.375	-0.005249	0	0.0059	-0.0111	Mar-97
58	Apr-97	NORTHERN STATES POWER CO MN	NSP	45.5	-0.025013	0.69	0.0059	-0.0309	Apr-97

58	May-97	NORTHERN STATES POWER CO MN	NSP	49	0.076923	0	0.0058	0.0711	May-97
58	Jun-97	NORTHERN STATES POWER CO MN	NSP	51.75	0.056122	0	0.0059	0.0502	Jun-97
58	Jul-97	NORTHERN STATES POWER CO MN	NSP	51.375	0.006377	0.705	0.0058	0.0006	Jul-97
58	Aug-97	NORTHERN STATES POWER CO MN	NSP	48.125	-0.06326	0	0.0049	-0.0682	Aug-97
58	Sep-97	NORTHERN STATES POWER CO MN	NSP	49.75	0.048416	0.705	0.0058	0.0426	Sep-97
58	Oct-97	NORTHERN STATES POWER CO MN	NSP	50.375	0.012563	0	0.0054	0.0072	Oct-97
58	Nov-97	NORTHERN STATES POWER CO MN	NSP	54.875	0.08933	0	0.0047	0.0846	Nov-97
58	Dec-97	NORTHERN STATES POWER CO MN	NSP	58.25	0.074351	0.705	0.0054	0.0690	Dec-97
58	Jan-98	NORTHERN STATES POWER CO MN	NSP	53.625	-0.079399	0	0.0048	-0.0842	Jan-98
58	Feb-98	NORTHERN STATES POWER CO MN	NSP	54.938	0.024476	0	0.0044	0.0201	Feb-98
58	Mar-98	NORTHERN STATES POWER CO MN	NSP	59	0.073948	0	0.0052	0.0687	Mar-98
58	Apr-98	NORTHERN STATES POWER CO MN	NSP	56.375	-0.032542	0.705	0.0049	-0.0374	Apr-98
58	May-98	NORTHERN STATES POWER CO MN	NSP	56.875	0.008869	0	0.0048	0.0041	May-98
58	Jun-98	NORTHERN STATES POWER CO MN	NSP	28.625	0.006593	0	0.0052	0.0014	Jun-98
58	Jul-98	NORTHERN STATES POWER CO MN	NSP	26.313	-0.068297	0.3575	0.0049	-0.0732	Jul-98
58	Aug-98	NORTHERN STATES POWER CO MN	NSP	26.5	0.007126	0	0.0048	0.0023	Aug-98
58	Sep-98	NORTHERN STATES POWER CO MN	NSP	28.063	0.072453	0.3575	0.0044	0.0681	Sep-98
58	Oct-98	NORTHERN STATES POWER CO MN	NSP	27	-0.037862	0	0.0042	-0.0421	Oct-98
58	Nov-98	NORTHERN STATES POWER CO MN	NSP	27.188	0.006944	0	0.0045	0.0024	Nov-98
58	Dec-98	NORTHERN STATES POWER CO MN	NSP	27.75	0.033839	0.3575	0.0045	0.0293	Dec-98
58	Jan-99	NORTHERN STATES POWER CO MN	NSP	26.938	-0.029279	0	0.0042	-0.0335	Jan-99
58	Feb-99	NORTHERN STATES POWER CO MN	NSP	25.813	-0.041763	0	0.0040	-0.0458	Feb-99
58	Mar-99	NORTHERN STATES POWER CO MN	NSP	23.188	-0.101695	0	0.0053	-0.1070	Mar-99
58	Apr-99	NORTHERN STATES POWER CO MN	NSP	24.125	0.055849	0.3575	0.0048	0.0510	Apr-99
58	May-99	NORTHERN STATES POWER CO MN	NSP	26.063	0.080311	0	0.0045	0.0758	May-99
58	Jun-99	NORTHERN STATES POWER CO MN	NSP	24.188	-0.071942	0	0.0055	-0.0774	Jun-99
58	Jul-99	NORTHERN STATES POWER CO MN	NSP	22.5	-0.05478	0.3625	0.0051	-0.0599	Jul-99
58	Aug-99	NORTHERN STATES POWER CO MN	NSP	23.563	0.047222	0	0.0054	0.0418	Aug-99
58	Sep-99	NORTHERN STATES POWER CO MN	NSP	21.563	-0.069496	0.3625	0.0052	-0.0747	Sep-99
58	Oct-99	NORTHERN STATES POWER CO MN	NSP	21.5	-0.002899	0	0.0050	-0.0079	Oct-99
58	Nov-99	NORTHERN STATES POWER CO MN	NSP	20.438	-0.049419	0	0.0056	-0.0550	Nov-99
58	Dec-99	NORTHERN STATES POWER CO MN	NSP	19.5	-0.028135	0.3625	0.0055	-0.0336	Dec-99
58	Jan-00	NORTHERN STATES POWER CO MN	NSP	19.25	-0.012821	0	0.0057	-0.0185	Jan-00
58	Feb-00	NORTHERN STATES POWER CO MN	NSP	17.563	-0.087662	0	0.0051	-0.0928	Feb-00
58	Mar-00	NORTHERN STATES POWER CO MN	NSP	19.875	0.131673	0	0.0054	0.1263	Mar-00
58	Apr-00	NORTHERN STATES POWER CO MN	NSP	21.813	0.115723	0.3625	0.0047	0.1110	Apr-00
58	May-00	NORTHERN STATES POWER CO MN	NSP	22.125	0.014327	0	0.0056	0.0087	May-00
58	Jun-00	NORTHERN STATES POWER CO MN	NSP	20.188	-0.087571	0	0.0052	-0.0928	Jun-00
58	Jul-00	NORTHERN STATES POWER CO MN	NSP	22.063	0.111084	0.3675	0.0052	0.1059	Jul-00

58	Aug-00	X C E L ENERGY INC	XEL	25.063	0.143175	0.1588	0.0050	0.1382	Aug-00
58	Sep-00	X C E L ENERGY INC	XEL	27.5	0.097257	0	0.0046	0.0927	Sep-00
58	Oct-00	X C E L ENERGY INC	XEL	25.563	-0.062527	0.218	0.0053	-0.0678	Oct-00
58	Nov-00	X C E L ENERGY INC	XEL	27.25	0.066015	0	0.0048	0.0612	Nov-00
58	Dec-00	X C E L ENERGY INC	XEL	29.063	0.080275	0.375	0.0045	0.0758	Dec-00
58	Jan-01	X C E L ENERGY INC	XEL	25.47	-0.123613	0	0.0049	-0.1285	Jan-01
58	Feb-01	X C E L ENERGY INC	XEL	28.2	0.107185	0	0.0042	0.1030	Feb-01
58	Mar-01	X C E L ENERGY INC	XEL	30.11	0.081028	0.375	0.0045	0.0765	Mar-01
58	Apr-01	X C E L ENERGY INC	XEL	31.2	0.036201	0	0.0047	0.0315	Apr-01
58	May-01	X C E L ENERGY INC	XEL	30.3	-0.028846	0	0.0050	-0.0338	May-01
58	Jun-01	X C E L ENERGY INC	XEL	28.45	-0.061056	0	0.0047	-0.0658	Jun-01
58	Jul-01	X C E L ENERGY INC	XEL	26.94	-0.039895	0.375	0.0052	-0.0451	Jul-01
58	Aug-01	X C E L ENERGY INC	XEL	27.4	0.017075	0	0.0046	0.0125	Aug-01
58	Sep-01	X C E L ENERGY INC	XEL	28.15	0.041058	0.375	0.0041	0.0370	Sep-01
58	Oct-01	X C E L ENERGY INC	XEL	28.28	0.004618	0	0.0048	-0.0002	Oct-01
58	Nov-01	X C E L ENERGY INC	XEL	27.31	-0.0343	0	0.0041	-0.0384	Nov-01
58	Dec-01	X C E L ENERGY INC	XEL	27.74	0.029476	0.375	0.0046	0.0249	Dec-01
58	Jan-02	X C E L ENERGY INC	XEL	26.7	-0.037491	0	0.0048	-0.0423	Jan-02
58	Feb-02	X C E L ENERGY INC	XEL	23.65	-0.114232	0	0.0043	-0.1185	Feb-02
58	Mar-02	X C E L ENERGY INC	XEL	25.35	0.071882	0	0.0043	0.0676	Mar-02
58	Apr-02	X C E L ENERGY INC	XEL	25.43	0.017949	0.375	0.0054	0.0125	Apr-02
58	May-02	X C E L ENERGY INC	XEL	21.49	-0.154935	0	0.0049	-0.1598	May-02
58	Jun-02	X C E L ENERGY INC	XEL	16.77	-0.219637	0	0.0044	-0.2240	Jun-02
58	Jul-02	X C E L ENERGY INC	XEL	6.96	-0.562612	0.375	0.0051	-0.5677	Jul-02
58	Aug-02	X C E L ENERGY INC	XEL	9.66	0.387931	0	0.0044	0.3835	Aug-02
58	Sep-02	X C E L ENERGY INC	XEL	9.31	-0.036232	0	0.0042	-0.0404	Sep-02
58	Oct-02	X C E L ENERGY INC	XEL	10.4	0.137218	0.1875	0.0040	0.1332	Oct-02
58	Nov-02	X C E L ENERGY INC	XEL	10.74	0.032692	0	0.0040	0.0287	Nov-02
58	Dec-02	X C E L ENERGY INC	XEL	11	0.041667	0.1875	0.0045	0.0372	Dec-02
58	Jan-03	X C E L ENERGY INC	XEL	11.02	0.001818	0	0.0041	-0.0023	Jan-03
58	Feb-03	X C E L ENERGY INC	XEL	11.09	0.006352	0	0.0038	0.0026	Feb-03
58	Mar-03	X C E L ENERGY INC	XEL	12.81	0.155095	0	0.0040	0.1511	Mar-03
58	Apr-03	X C E L ENERGY INC	XEL	13.52	0.055425	0	0.0040	0.0514	Apr-03
58	May-03	X C E L ENERGY INC	XEL	15.39	0.138314	0	0.0039	0.1344	May-03
58	Jun-03	X C E L ENERGY INC	XEL	15.04	-0.010559	0.1875	0.0036	-0.0142	Jun-03
58	Jul-03	X C E L ENERGY INC	XEL	14.48	-0.024767	0.1875	0.0038	-0.0286	Jul-03
58	Aug-03	X C E L ENERGY INC	XEL	14.65	0.01174	0	0.0042	0.0075	Aug-03
58	Sep-03	X C E L ENERGY INC	XEL	15.47	0.055973	0	0.0046	0.0514	Sep-03
58	Oct-03	X C E L ENERGY INC	XEL	16.4	0.060116	0	0.0041	0.0560	Oct-03

58	Nov-03	X C E L ENERGY INC	XEL	16.7	0.018293	0	0.0039	0.0144	Nov-03
58	Dec-03	X C E L ENERGY INC	XEL	16.98	0.039221	0.375	0.0047	0.0345	Dec-03
58	Jan-04	X C E L ENERGY INC	XEL	17.32	0.020024	0	0.0042	0.0158	Jan-04
58	Feb-04	X C E L ENERGY INC	XEL	17.47	0.00866	0	0.0038	0.0049	Feb-04
58	Mar-04	X C E L ENERGY INC	XEL	17.81	0.030195	0.1875	0.0043	0.0259	Mar-04
58	Apr-04	X C E L ENERGY INC	XEL	16.73	-0.06064	0	0.0039	-0.0645	Apr-04
58	May-04	X C E L ENERGY INC	XEL	16.99	0.015541	0	0.0040	0.0115	May-04
58	Jun-04	X C E L ENERGY INC	XEL	16.71	-0.004267	0.2075	0.0048	-0.0091	Jun-04
58	Jul-04	X C E L ENERGY INC	XEL	17.1	0.023339	0	0.0043	0.0190	Jul-04
58	Aug-04	X C E L ENERGY INC	XEL	17.65	0.032164	0	0.0045	0.0277	Aug-04
58	Sep-04	X C E L ENERGY INC	XEL	17.32	-0.006941	0.2075	0.0040	-0.0109	Sep-04
58	Oct-04	X C E L ENERGY INC	XEL	17.1	-0.012702	0	0.0038	-0.0165	Oct-04
58	Nov-04	X C E L ENERGY INC	XEL	18.06	0.05614	0	0.0041	0.0520	Nov-04
58	Dec-04	X C E L ENERGY INC	XEL	18.2	0.019241	0.2075	0.0043	0.0149	Dec-04
58	Jan-05	X C E L ENERGY INC	XEL	18.19	-0.000549	0	0.0041	-0.0046	Jan-05
58	Feb-05	X C E L ENERGY INC	XEL	17.72	-0.025838	0	0.0035	-0.0293	Feb-05
58	Mar-05	X C E L ENERGY INC	XEL	17.18	-0.018764	0.2075	0.0041	-0.0229	Mar-05
58	Apr-05	X C E L ENERGY INC	XEL	17.18	0	0	0.0039	-0.0039	Apr-05
58	May-05	X C E L ENERGY INC	XEL	18.43	0.072759	0	0.0040	0.0688	May-05
58	Jun-05	X C E L ENERGY INC	XEL	19.52	0.070808	0.215	0.0036	0.0672	Jun-05
58	Jul-05	X C E L ENERGY INC	XEL	19.41	-0.005635	0	0.0034	-0.0090	Jul-05
58	Aug-05	X C E L ENERGY INC	XEL	19.24	-0.008758	0	0.0040	-0.0128	Aug-05
58	Sep-05	X C E L ENERGY INC	XEL	19.61	0.030405	0.215	0.0035	0.0269	Sep-05
58	Oct-05	X C E L ENERGY INC	XEL	18.33	-0.065273	0	0.0039	-0.0692	Oct-05
58	Nov-05	X C E L ENERGY INC	XEL	18.51	0.00982	0	0.0039	0.0059	Nov-05
58	Dec-05	X C E L ENERGY INC	XEL	18.46	0.008914	0.215	0.0039	0.0050	Dec-05
58	Jan-06	X C E L ENERGY INC	XEL	19.42	0.052004	0	0.0040	0.0480	Jan-06
58	Feb-06	X C E L ENERGY INC	XEL	18.56	-0.044284	0	0.0036	-0.0479	Feb-06
58	Mar-06	X C E L ENERGY INC	XEL	18.15	-0.010506	0.215	0.0039	-0.0144	Mar-06
58	Apr-06	X C E L ENERGY INC	XEL	18.84	0.038017	0	0.0039	0.0341	Apr-06
58	May-06	X C E L ENERGY INC	XEL	18.77	-0.003715	0	0.0048	-0.0085	May-06
58	Jun-06	X C E L ENERGY INC	XEL	19.18	0.033697	0.2225	0.0044	0.0293	Jun-06
58	Jul-06	X C E L ENERGY INC	XEL	20.04	0.044838	0	0.0045	0.0403	Jul-06
58	Aug-06	X C E L ENERGY INC	XEL	20.8	0.037924	0	0.0043	0.0336	Aug-06
58	Sep-06	X C E L ENERGY INC	XEL	20.65	0.003486	0.2225	0.0039	-0.0004	Sep-06
58	Oct-06	X C E L ENERGY INC	XEL	22.07	0.068765	0	0.0042	0.0646	Oct-06
58	Nov-06	X C E L ENERGY INC	XEL	22.96	0.040326	0	0.0039	0.0364	Nov-06
58	Dec-06	X C E L ENERGY INC	XEL	23.06	0.014046	0.2225	0.0036	0.0104	Dec-06
58	Jan-07	X C E L ENERGY INC	XEL	23.33	0.011709	0	0.0043	0.0074	Jan-07

58	Feb-07	X C E L ENERGY INC	XEL	23.63	0.012859	0	0.0038	0.0091	Feb-07
58	Mar-07	X C E L ENERGY INC	XEL	24.69	0.054274	0.2225	0.0039	0.0504	Mar-07
58	Apr-07	X C E L ENERGY INC	XEL	24.09	-0.024301	0	0.0042	-0.0285	Apr-07
58	May-07	X C E L ENERGY INC	XEL	22.95	-0.047323	0	0.0041	-0.0514	May-07
58	Jun-07	X C E L ENERGY INC	XEL	20.47	-0.098039	0.23	0.0040	-0.1020	Jun-07
58	Jul-07	X C E L ENERGY INC	XEL	20.3	-0.008305	0	0.0046	-0.0129	Jul-07
58	Aug-07	X C E L ENERGY INC	XEL	20.61	0.015271	0	0.0042	0.0111	Aug-07
58	Sep-07	X C E L ENERGY INC	XEL	21.54	0.056283	0.23	0.0037	0.0526	Sep-07
58	Oct-07	X C E L ENERGY INC	XEL	22.55	0.046889	0	0.0043	0.0426	Oct-07
58	Nov-07	X C E L ENERGY INC	XEL	23.11	0.024834	0	0.0039	0.0209	Nov-07
58	Dec-07	X C E L ENERGY INC	XEL	22.57	-0.013414	0.23	0.0037	-0.0171	Dec-07
58	Jan-08	X C E L ENERGY INC	XEL	20.75	-0.080638	0	0.0040	-0.0846	Jan-08
58	Feb-08	X C E L ENERGY INC	XEL	19.82	-0.044819	0	0.0034	-0.0482	Feb-08
58	Mar-08	X C E L ENERGY INC	XEL	19.95	0.018164	0.23	0.0037	0.0145	Mar-08
58	Apr-08	X C E L ENERGY INC	XEL	20.8	0.042606	0	0.0035	0.0391	Apr-08
58	May-08	X C E L ENERGY INC	XEL	21.31	0.024519	0	0.0037	0.0208	May-08
58	Jun-08	X C E L ENERGY INC	XEL	20.07	-0.047044	0.2375	0.0040	-0.0510	Jun-08
58	Jul-08	X C E L ENERGY INC	XEL	20.06	-0.000498	0	0.0039	-0.0044	Jul-08
58	Aug-08	X C E L ENERGY INC	XEL	20.51	0.022433	0	0.0036	0.0188	Aug-08
58	Sep-08	X C E L ENERGY INC	XEL	19.99	-0.013774	0.2375	0.0039	-0.0177	Sep-08
58	Oct-08	X C E L ENERGY INC	XEL	17.42	-0.128564	0	0.0037	-0.1323	Oct-08
58	Nov-08	X C E L ENERGY INC	XEL	18.81	0.079793	0	0.0036	0.0762	Nov-08
58	Dec-08	X C E L ENERGY INC	XEL	18.55	-0.001196	0.2375	0.0033	-0.0045	Dec-08
58	Jan-09	X C E L ENERGY INC	XEL	18.46	-0.004852	0	0.0024	-0.0073	Jan-09
58	Feb-09	X C E L ENERGY INC	XEL	17.74	-0.039003	0	0.0030	-0.0420	Feb-09
58	Mar-09	X C E L ENERGY INC	XEL	18.63	0.063557	0.2375	0.0035	0.0601	Mar-09
58	Apr-09	X C E L ENERGY INC	XEL	18.44	-0.010199	0	0.0029	-0.0131	Apr-09
58	May-09	X C E L ENERGY INC	XEL	17.15	-0.069957	0	0.0033	-0.0733	May-09
58	Jun-09	X C E L ENERGY INC	XEL	18.41	0.087755	0.245	0.0038	0.0840	Jun-09
58	Jul-09	X C E L ENERGY INC	XEL	19.94	0.083107	0	0.0036	0.0795	Jul-09
58	Aug-09	X C E L ENERGY INC	XEL	19.75	-0.009529	0	0.0036	-0.0131	Aug-09
58	Sep-09	X C E L ENERGY INC	XEL	19.24	-0.013418	0.245	0.0034	-0.0168	Sep-09
58	Oct-09	X C E L ENERGY INC	XEL	18.86	-0.01975	0	0.0033	-0.0231	Oct-09
58	Nov-09	X C E L ENERGY INC	XEL	20.32	0.077412	0	0.0035	0.0739	Nov-09
58	Dec-09	X C E L ENERGY INC	XEL	21.22	0.056348	0.245	0.0034	0.0529	Dec-09
58	Jan-10	X C E L ENERGY INC	XEL	20.78	-0.020735	0	0.0036	-0.0243	Jan-10
58	Feb-10	X C E L ENERGY INC	XEL	20.81	0.001444	0	0.0033	-0.0019	Feb-10
58	Mar-10	X C E L ENERGY INC	XEL	21.2	0.030514	0.245	0.0040	0.0265	Mar-10
58	Apr-10	X C E L ENERGY INC	XEL	21.75	0.025943	0	0.0038	0.0221	Apr-10

58	May-10	X C E L ENERGY INC	XEL	20.49	-0.057931	0	0.0034	-0.0613	May-10
58	Jun-10	X C E L ENERGY INC	XEL	20.61	0.01818	0.2525	0.0037	0.0145	Jun-10
58	Jul-10	X C E L ENERGY INC	XEL	21.99	0.066958	0	0.0031	0.0639	Jul-10
58	Aug-10	X C E L ENERGY INC	XEL	22.31	0.014552	0	0.0032	0.0114	Aug-10
58	Sep-10	X C E L ENERGY INC	XEL	22.97	0.040901	0.2525	0.0026	0.0383	Sep-10
58	Oct-10	X C E L ENERGY INC	XEL	23.86	0.038746	0	0.0027	0.0360	Oct-10
58	Nov-10	X C E L ENERGY INC	XEL	23.5	-0.015088	0	0.0032	-0.0183	Nov-10
58	Dec-10	X C E L ENERGY INC	XEL	23.55	0.012872	0.2525	0.0032	0.0097	Dec-10
58	Jan-11	X C E L ENERGY INC	XEL	23.57	0.000849	0	0.00357	-0.0027	Jan-11
58	Feb-11	X C E L ENERGY INC	XEL	23.94	0.015698	0	0.00368	0.0120	Feb-11
58	Mar-11	X C E L ENERGY INC	XEL	23.89	0.008459	0.2525	0.00356	0.0049	Mar-11
58	Apr-11	X C E L ENERGY INC	XEL	24.33	0.018418	0	0.00357	0.0149	Apr-11
58	May-11	X C E L ENERGY INC	XEL	24.74	0.016852	0	0.00334	0.0135	May-11
58	Jun-11	X C E L ENERGY INC	XEL	24.3	-0.007276	0.26	0.00326	-0.0105	Jun-11
58	Jul-11	X C E L ENERGY INC	XEL	24	-0.012346	0	0.00329	-0.0156	Jul-11
58	Aug-11	X C E L ENERGY INC	XEL	24.67	0.027917	0	0.00304	0.0249	Aug-11
58	Sep-11	X C E L ENERGY INC	XEL	24.69	0.01135	0.26	0.00236	0.0090	Sep-11
58	Oct-11	X C E L ENERGY INC	XEL	25.85	0.046983	0	0.00239	0.0446	Oct-11
58	Nov-11	X C E L ENERGY INC	XEL	26.29	0.017021	0	0.00227	0.0148	Nov-11
58	Dec-11	X C E L ENERGY INC	XEL	27.64	0.06124	0.26	0.00248	0.0588	Dec-11
58	Jan-12	X C E L ENERGY INC	XEL	26.6	-0.037627	0	0.0021	-0.0397	Jan-12
58	Feb-12	X C E L ENERGY INC	XEL	26.49	-0.004135	0	0.002	-0.0061	Feb-12
58	Mar-12	X C E L ENERGY INC	XEL	26.47	0.00906	0.26	0.0022	0.0069	Mar-12
58	Apr-12	X C E L ENERGY INC	XEL	27.06	0.022289	0	0.0025	0.0198	Apr-12
58	May-12	X C E L ENERGY INC	XEL	28.02	0.035477	0	0.0023	0.0332	May-12
58	Jun-12	X C E L ENERGY INC	XEL	28.41	0.023555	0.27	0.0018	0.0218	Jun-12
	Jul-12	X C E L ENERGY INC	XEL	29.3	0.031326998	0	0.002	0.0293	Jul-12
	Aug-12	X C E L ENERGY INC	XEL	27.89	-0.048122867	0	0.0018	-0.0499	Aug-12
	Sep-12	X C E L ENERGY INC	XEL	27.71	0.003226963	0.27	0.0017	0.0015	Sep-12
	Oct-12	X C E L ENERGY INC	XEL	28.25	0.01948755	0	0.0021	0.0174	Oct-12
	Nov-12	X C E L ENERGY INC	XEL	27.05	-0.042477876	0	0.0019	-0.0444	Nov-12
	Dec-12	X C E L ENERGY INC	XEL	26.71	-0.0025878	0.27	0.0019	-0.0045	Dec-12
	Jan-13	X C E L ENERGY INC	XEL	27.78	0.040059903	0	0.0022	0.0379	Jan-13
	Feb-13	X C E L ENERGY INC	XEL	28.7	0.033117351	0	0.0022	0.0309	Feb-13
	Mar-13	X C E L ENERGY INC	XEL	29.7	0.044250871	0.27	0.0021	0.0422	Mar-13
	Apr-13	X C E L ENERGY INC	XEL	31.79	0.07037037	0	0.0026	0.0678	Apr-13
	May-13	X C E L ENERGY INC	XEL	28.72	-0.096571249	0	0.0023	-0.0989	May-13
	Jun-13	X C E L ENERGY INC	XEL	28.34	-0.003481894	0.28	0.0024	-0.0059	Jun-13
	Jul-13	X C E L ENERGY INC	XEL	29.85	0.053281581	0	0.003	0.0503	Jul-13

Aug-13	X C E L ENERGY INC	XEL	27.92	-0.064656616	0	0.0028	-0.0675	Aug-13
Sep-13	X C E L ENERGY INC	XEL	27.61	-0.001074499	0.28	0.0029	-0.0040	Sep-13
Oct-13	X C E L ENERGY INC	XEL	28.86	0.045273452	0	0.0029	0.0424	Oct-13
Nov-13	X C E L ENERGY INC	XEL	28.02	-0.029106029	0	0.0027	-0.0318	Nov-13
Dec-13	X C E L ENERGY INC	XEL	27.94	0.007137759	0.28	0.0031	0.0040	Dec-13
Jan-14	X C E L ENERGY INC	XEL	28.91	0.034717251	0	0.0032	0.0315	Jan-14
Feb-14	X C E L ENERGY INC	XEL	30.29	0.047734348	0	0.0026	0.0451	Feb-14
Mar-14	X C E L ENERGY INC	XEL	30.36	0.012215253	0.3	0.0029	0.0093	Mar-14
Apr-14	X C E L ENERGY INC	XEL	31.87	0.049736495	0	0.0028	0.0469	Apr-14
May-14	X C E L ENERGY INC	XEL	30.76	-0.034828993	0	0.0028	-0.0376	May-14
Jun-14	X C E L ENERGY INC	XEL	32.23	0.057542263	0.3	0.0025	0.0550	Jun-14
Jul-14	X C E L ENERGY INC	XEL	30.8	-0.044368601	0	0.0027	-0.0471	Jul-14
Aug-14	X C E L ENERGY INC	XEL	32.05	0.040584416	0	0.0026	0.0380	Aug-14
Sep-14	X C E L ENERGY INC	XEL	30.4	-0.042121685	0.3	0.0023	-0.0444	Sep-14
Oct-14	X C E L ENERGY INC	XEL	33.47	0.100986842	0	0.0025	0.0985	Oct-14
Nov-14	X C E L ENERGY INC	XEL	33.94	0.014042426	0	0.0023	0.0117	Nov-14
Dec-14	X C E L ENERGY INC	XEL	35.92	0.067177372	0.3	0.0022	0.0650	Dec-14
Jan-15	X C E L ENERGY INC	XEL	37.53	0.044821826	0	0.002	0.0428	Jan-15
Feb-15	X C E L ENERGY INC	XEL	35.28	-0.059952038	0	0.0015	-0.0615	Feb-15
Mar-15	X C E L ENERGY INC	XEL	34.81	-0.004251701	0.32	0.0021	-0.0064	Mar-15
Apr-15	X C E L ENERGY INC	XEL	33.91	-0.025854639	0	0.0019	-0.0278	Apr-15
May-15	X C E L ENERGY INC	XEL	34.05	0.004128576	0	0.002	0.0021	May-15
Jun-15	X C E L ENERGY INC	XEL	32.18	-0.045521292	0.32	0.0023	-0.04782	Jun-15
Jul-15	X C E L ENERGY INC	XEL	34.67	0.077377253	0	0.0024	0.07498	Jul-15
Aug-15	X C E L ENERGY INC	XEL	33.73	-0.027112778	0	0.0022	-0.02931	Aug-15
Sep-15	X C E L ENERGY INC	XEL	35.41	0.059294397	0.32	0.0021	0.05719	Sep-15
Oct-15	X C E L ENERGY INC	XEL	35.63	0.006212934	0	0.0021	0.00411	Oct-15
Nov-15	X C E L ENERGY INC	XEL	35.66	0.000841987	0	0.0022	-0.00136	Nov-15
Dec-15	X C E L ENERGY INC	XEL	35.91	0.015984296	0.32	0.0022	0.01378	Dec-15
Jan-16	X C E L ENERGY INC	XEL	38.22	0.064327485	0	0.0021	0.06223	Jan-16
Feb-16	X C E L ENERGY INC	XEL	39.54	0.034536892	0	0.002	0.03254	Feb-16
Mar-16	X C E L ENERGY INC	XEL	41.82	0.066262013	0.34	0.0018	0.06446	Mar-16
Apr-16	X C E L ENERGY INC	XEL	40.03	-0.042802487	0	0.0017	-0.0445	Apr-16
May-16	X C E L ENERGY INC	XEL	41.37	0.033474894	0	0.002	0.03147	May-16
Jun-16	X C E L ENERGY INC	XEL	44.78	0.090645395	0.34	0.0018	0.08885	Jun-16
Jul-16	X C E L ENERGY INC	XEL	43.98	-0.017865118	0	0.0014	-0.01927	Jul-16
Aug-16	X C E L ENERGY INC	XEL	41.36	-0.059572533	0	0.0016	-0.06117	Aug-16
Sep-16	X C E L ENERGY INC	XEL	41.14	0.002901354	0.34	0.0015	0.0014	Sep-16

Oct-16	X C E L ENERGY INC	XEL	41.55	0.00996597	0	0.0016	0.00837	Oct-16
Nov-16	X C E L ENERGY INC	XEL	39.01	-0.061131167	0	0.0018	-0.06293	Nov-16
Dec-16	X C E L ENERGY INC	XEL	40.7	0.052037939	0.34	0.0022	0.04984	Dec-16
Jan-17	X C E L ENERGY INC	XEL	41.32	0.015233415	0	0.0024	0.01283	Jan-17
Feb-17	X C E L ENERGY INC	XEL	43.71	0.057841239	0	0.0021	0.05574	Feb-17
Mar-17	X C E L ENERGY INC	XEL	44.45	0.025165866	0.36	0.0023	0.02287	Mar-17
Apr-17	X C E L ENERGY INC	XEL	45.05	0.013498313	0	0.0021	0.0114	Apr-17
May-17	X C E L ENERGY INC	XEL	47.91	0.063485017	0	0.0024	0.06109	May-17
Jun-17	X C E L ENERGY INC	XEL	45.88	-0.034857024	0.36	0.0021	-0.03696	Jun-17
Jul-17	X C E L ENERGY INC	XEL	47.31	0.031168265	0	0.0022	0.02897	Jul-17
Aug-17	X C E L ENERGY INC	XEL	49.5	0.046290425	0	0.0022	0.04409	Aug-17
Sep-17	X C E L ENERGY INC	XEL	47.32	-0.036767677	0.36	0.0019	-0.03867	Sep-17
Oct-17	X C E L ENERGY INC	XEL	49.52	0.04649197	0	0.0022	0.04429	Oct-17
Nov-17	X C E L ENERGY INC	XEL	51.61	0.04220517	0	0.0021	0.04011	Nov-17
Dec-17	X C E L ENERGY INC	XEL	48.11	-0.060840922	0.36	0.002	-0.06284	Dec-17
Jan-18	X C E L ENERGY INC	XEL	45.64	-0.051340678	0	0.0024	-0.05374	Jan-18
Feb-18	X C E L ENERGY INC	XEL	43.28	-0.051709027	0	0.0022	-0.05391	Feb-18
Mar-18	X C E L ENERGY INC	XEL	45.48	0.05961183	0.38	0.0024	0.05721	Mar-18
Apr-18	X C E L ENERGY INC	XEL	46.84	0.029903254	0	0.0025	0.0274	Apr-18
May-18	X C E L ENERGY INC	XEL	45.52	-0.028181042	0	0.0025	-0.03068	May-18
Jun-18	X C E L ENERGY INC	XEL	45.68	0.011862917	0.38	0.0023	0.00956	Jun-18
Jul-18	X C E L ENERGY INC	XEL	46.86	0.025831874	0	0.0025	0.02333	Jul-18
Aug-18	X C E L ENERGY INC	XEL	48.05	0.025394793	0	0.0025	0.02289	Aug-18
Sep-18	X C E L ENERGY INC	XEL	47.21	-0.009573361	0.38	0.0022	-0.01177	Sep-18
Oct-18	X C E L ENERGY INC	XEL	49.01	0.038127515	0	0.003	0.03513	Oct-18
Nov-18	X C E L ENERGY INC	XEL	52.45	0.070189757	0	0.0028	0.06739	Nov-18
Dec-18	X C E L ENERGY INC	XEL	49.27	-0.053384175	0.38	0.0027	-0.05608	Dec-18
Jan-19	X C E L ENERGY INC	XEL	52.36	0.062715648	0	0.0025	0.06022	Jan-19
Feb-19	X C E L ENERGY INC	XEL	54.86	0.047746371	0	0.0022	0.04555	Feb-19
Mar-19	X C E L ENERGY INC	XEL	56.21	0.031990521	0.405	0.0023	0.02969	Mar-19
Apr-19	X C E L ENERGY INC	XEL	56.5	0.005159224	0	0.0023	0.00286	Apr-19
May-19	X C E L ENERGY INC	XEL	57.34	0.014867257	0	0.0023	0.01257	May-19
Jun-19	X C E L ENERGY INC	XEL	59.49	0.044558772	0.405	0.0018	0.04276	Jun-19
Jul-19	X C E L ENERGY INC	XEL	59.61	0.002017146	0	0.0021	-8.3E-05	Jul-19
Aug-19	X C E L ENERGY INC	XEL	64.22	0.077336017	0	0.0019	0.07544	Aug-19
Sep-19	X C E L ENERGY INC	XEL	64.89	0.016739334	0.405	0.0015	0.01524	Sep-19
Oct-19	X C E L ENERGY INC	XEL	63.51	-0.021266759	0	0.0016	-0.02287	Oct-19
Nov-19	X C E L ENERGY INC	XEL	61.49	-0.031806015	0	0.0016	-0.03341	Nov-19
Dec-19	X C E L ENERGY INC	XEL	63.49	0.039112051	0.405	0.0018	0.03731	Dec-19

Jan-20	X C E L ENERGY INC	XEL	69.19	0.089777918	0	0.002	0.08778	Jan-20
Feb-20	X C E L ENERGY INC	XEL	62.32	-0.099291805	0	0.0015	-0.10079	Feb-20
Mar-20	X C E L ENERGY INC	XEL	60.3	-0.025513479	0.43	0.00123	-0.02674	Mar-20
Apr-20	X C E L ENERGY INC	XEL	63.56	0.054063018	0	0.0009	0.05316	Apr-20
May-20	X C E L ENERGY INC	XEL	65.03	0.023127753	0	0.0009	0.02223	May-20
Jun-20	X C E L ENERGY INC	XEL	62.5	-0.032292788	0.43	0.0009	-0.03319	Jun-20
Jul-20	X C E L ENERGY INC	XEL	69.04	0.10464	0	0.001	0.10364	Jul-20
Aug-20	X C E L ENERGY INC	XEL	69.475	0.006300695	0	0.0008	0.0055	Aug-20
Sep-20	X C E L ENERGY INC	XEL	69.01	-0.000503778	0.43	0	-0.0005	Sep-20
Oct-20	X C E L ENERGY INC	XEL	70.03	0.014780467	0	0.0009	0.01388	Oct-20
Nov-20	X C E L ENERGY INC	XEL	67.36	-0.038126517	0	0.0011	-0.03923	Nov-20
Dec-20	X C E L ENERGY INC	XEL	66.67	-0.003859857	0.43	0.0011	-0.00496	Dec-20
Jan-21	X C E L ENERGY INC	XEL	63.99	-0.04019799	0	0.00152	-0.04171	Jan-21
Feb-21	X C E L ENERGY INC	XEL	58.59	-0.084388186	0	0.0017	-0.08609	Feb-21
Mar-21	X C E L ENERGY INC	XEL	66.51	0.142985151	0.4575	0.00195	0.14104	Mar-21
Apr-21	X C E L ENERGY INC	XEL	71.3	0.072019245	0	0.00192	0.0701	Apr-21
May-21	X C E L ENERGY INC	XEL	70.88	-0.005890603	0	0.00193	-0.00782	May-21
Jun-21	X C E L ENERGY INC	XEL	65.88	-0.06408719	0.4575	0.0018	-0.06589	Jun-21
Jul-21	X C E L ENERGY INC	XEL	68.25	0.035974499	0	0.00162	0.03436	Jul-21
Aug-21	X C E L ENERGY INC	XEL	68.75	0.007326007	0	0.0016	0.00573	Aug-21

Duke Energy Kentucky
Case No. 2021-00190
STAFF Fourth Set Data Requests
Date Received: August 31, 2021

CONFIDENTIAL STAFF-DR-04-007
(As to Attachment only)

REQUEST:

Refer to the Attachment to Duke Kentucky's response to Commission Staff's Second Request for Information (Staff's Second Request), Item 37(b). Provide detailed support for the amount listed as "Contracted Rate for Gas Reconnection (Seasonal)."

RESPONSE:

CONFIDENTIAL PROPRIETARY TRADE SECRET (As to Attachment only)

Please see STAFF-DR-04-007 Confidential Attachment for the current contract. The cost for reconnections is listed on Line 1.

PERSON RESPONSIBLE: Jeff L. Kern

CONFIDENTIAL PROPRIETARY TRADE SECRET

STAFF-DR-04-007 CONFIDENTIAL ATTACHMENT

FILED UNDER SEAL

Duke Energy Kentucky
Case No. 2021-00190
STAFF Fourth Set Data Requests
Date Received: August 31, 2021

STAFF-DR-04-008

REQUEST:

Refer to Duke Kentucky's response to Staff's Third Request, Item 1.

a. Explain whether service would be refused if a customer failed to provide their Social Security Number, Driver's License Number, or alternate identification number. If so, explain why service would be refused instead of just requiring a deposit of such customer.

b. Explain whether Duke retains the customer's Social Security Number, Driver's License Number, or alternate identification numbers. If so, explain the measures Duke Kentucky takes to protect such information.

c. Explain whether a credit check can be run without the Social Security Number, Driver's License Number, or alternate identification numbers.

d. Explain whether prospective customers can put alternate identification numbers in the Social Security Number field of the online application or whether they must contact Duke Kentucky to provide alternate identification numbers.

e. Explain how someone uncomfortable providing their Social Security Number would know they can provide an alternate identification number when filling out the online application for service.

f. Explain whether completing the online service application is the only way for prospective customers to apply for service. If not, explain the other methods available to prospective customers.

RESPONSE:

a. If a customer fails to provide their Social Security Number, Driver's License Number or alternate identification number, Duke Energy's policy is to refuse service to that customer. To remain in compliance with FACTA, the Company runs a credit check to verify the customer's identity using their name, date of birth, and either their Social Security Number, Driver's License Number or an alternate identification number.

b. Duke Energy does retain the customer's Social Security Number, Driver's License Number, or alternate identification number within the billing system. The Company's Cybersecurity department continuously monitors and defends against hacking threats. As part of its internal defense, multiple layers of protection are in place within the billing system including encrypting customers' personal identifiable information (Social Security Numbers, Driver's License Numbers, and alternate identification numbers).

c. A credit and identity check can be run without the Social Security Number, Driver's License Number, or alternate identification numbers. The Company is able to work with customers in a few cases where the customer does not have identification in order to establish service. The Company attempts to use other identifying information and along with the full first and last name, and previous address may be able to run the identity check and establish service.

d. The customer must contact Duke Kentucky if they are using an alternate identification number to establish service.

e. When using Duke Energy Kentucky's online application page, customers are provided a link to the options they have if they do not have a social security number to start service. Other forms of identification are listed such as: driver's license, passport number,

and matricula number. The customer would need to call customer service to process the request.

f. Customers can place an online request to apply for service or they have the choice of calling customer service Monday – Friday 7am-7pm at 1.800.544.6900.

PERSON RESPONSIBLE: Lesley G. Quick

PUBLIC STAFF-DR-04-009

REQUEST:

Refer to Duke Kentucky's Response to Staff's Third Request, Item 5, in which Duke Kentucky states that its bad check charge is not solely based on costs, explaining that while the charge is intended to cover the costs associated with bank assessed fees, it is also intended to deter customers from making payments that utilize accounts with insufficient funds.

a. Explain how this complies with 807 KAR 5:006, Section 9(2), which states in part "[a] charge shall relate directly to the service performed or action taken and shall yield only enough revenue to pay the expenses incurred in rendering the service."

b. Provide the amount of bank fees attributed to bad checks by year for the past 4 calendar years and 2021 to date.

c. Provide the number of bad checks Duke Kentucky has received by year for the past 4 calendar years and 2021 to date.

RESPONSE:

CONFIDENTIAL PROPRIETARY TRADE SECRET

a. 807 KAR 5:006, Section 9(3)(g) provides: "Returned payment charge. A returned payment charge may be assessed if payment of a utility bill is not honored by the customer's financial institution." Duke Energy Kentucky's current bad check of charge was raised

from $8 to $11 in Case No. 1992-00346.[1] The Company is not proposing to change this nonrecurring charge in this case.

Duke Energy Kentucky's response to Staff's Second Request, Item 6 provided the costs associated with bank processing fees resulting from bad checks, but noted that the per transaction charges are volume based and are in addition to a monthly maintenance fee. In response to Staff's Third Request, Item 5.a., the Company stated that the current charge is "intended to cover the costs associated with bank assessed fees and to deter customers from making payments that utilizes insufficient funds."

The bad check charge is directly related to the service of handling returned payments as it is only charged to those customers whose checks are rejected and returned by the bank.

Duke Energy Kentucky believes that having an economic deterrent to tendering a bad check or non-sufficient funds payment promotes responsibility on the part of customers and is a generally accepted business practice across all industries. Moreover, the volumetric aspect of the bank's actual charges makes it administratively impractical to charge each specific customer who tenders a deficient payment for the actual charges incurred by the Company to rectify the error because the actual bank fees charged to Duke Energy Kentucky may be higher or lower based upon the total number of customers who have tendered a cold check or an ACH with insufficient funds during the applicable period. Finally, to the extent that any given returned payment charge revenues may be in excess of the actual bank charge the Company incurs and includes in operations and maintenance expense, that revenue is recorded as miscellaneous revenues and offsets the total revenue

[1] *In the Matter of the Application of the Union Light, Heat & Power Company for an Adjustment of Rates*, Order, Case No. 1992-00346 (Ky. P.S.C. July 23, 1993).

requirement the Company requests to recover from all customers and therefore benefits the Company's customers who timely pay their bills by incrementally reducing the Company's revenue requirement.

b. The amount of Bank Fees for all Duke Energy returned checks including ACH Returned Item, ACH Reclears, Returns-Chargebacks, Returns Erin, ACH File Maintenance by year are in the table below. All Duke Energy checks and returned checks are processed through one account so these amounts are attributable to all Duke Energy jurisdictions.

Year	Amount
2017	$ 63,926
2018	$ 88,428
2019	$ 77,437
2020	$ 64,271
2021*	$ 27,653

**Bank data through July 2021*

Note the Company received notice that pricing for various treasury management services would change effective September 1, 2021. This pricing change included an increase related to returned checks.

[redacted]

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c. Duke Energy Kentucky's Customer Information System (CMS) purges this data after two years under record retention schedules so returned check count information is not available in CMS to query for 2017, 2018 and part of 2019.

Year	Count
2017	Not available
2018	Not available
2019	2,642 *(Partial year data)*
2020**	3,776
2021***	4,023

**The Company suspended Disconnections in 2020 from March to December and saw a decrease in payment volumes. As such, the 2020 count of returned payments is not reflective of a normal year of activity

****Data through September 3, 2021*

PERSON RESPONSIBLE: Lesley G. Quick

Duke Energy Kentucky
Case No. 2021-00190
STAFF Fourth Set Data Requests
Date Received: August 31, 2021

STAFF-DR-04-010

REQUEST:

Refer to Duke Kentucky's Response to Staff's Third Request, Item 5, in which Duke Kentucky states that it found the amount of its bad check charge is supported by how it compares with other industries, including the bad check charge established in KRS 131.180 for the Kentucky Department of Revenue related to their collection practices. Explain what relevance KRS 131.180 has to public utilities.

RESPONSE:

As stated in Duke Energy Kentucky's response to Staff's Third Request, Item 5, and in this question itself, the bad check charge is supported by how it compares with other industries. The reference to KRS 131.180 was not intended to imply that it was applicable to public utilities. The relevance is to show the collection practices by the Kentucky Department Revenue as an example of this business practice from another industry that could be familiar to Commission Staff.

PERSON RESPONSIBLE: Lesley G. Quick

Duke Energy Kentucky
Case No. 2021-00190
STAFF Fourth Set Data Requests
Date Received: August 31, 2021

STAFF-DR-04-011

REQUEST:

Refer to Duke Kentucky's response to Staff's Third Request, Items 15 and 25.

a. Explain whether the percentage of field collections performed by contractors and employees would be similar to what is included in the chart in response to Item 15, which lists the percentage of reconnections performed by contractors and employees.

b. Explain how Duke Kentucky decides whether a contractor or an employee will perform a reconnection or field collection.

RESPONSE:

a. Since any reconnection could become a "field collection" once the crew has been dispatched, the percentages for field collections would be similar to reconnections.

b. Generally, contractors perform reconnections on meters smaller than 425 cubic feet per hour. Larger meters, usually commercial customers, are handled by Duke Energy employees. Any other distribution of work is based on staffing.

PERSON RESPONSIBLE: Jeff L. Kern

Duke Energy Kentucky
Case No. 2021-00190
STAFF Fourth Set Data Requests
Date Received: August 31, 2021

STAFF-DR-04-012

REQUEST:

Refer to Duke Kentucky's response to Staff's Third Request, Item 19.

a. State whether the payout of the Executive Long Term Incentive plan related to safety measures is awarded if Earnings per Share is met.

b. If the response to Item 12.a. cannot be confirmed, provide the metric that is used to determine if the payout specific to safety measures is awarded.

RESPONSE:

Payout of the portion of performance shares based on safety measures (Total Incident Case Rate, or TICR) is awarded solely based on Duke Energy's TICR achievement measured over the performance period, regardless of Earnings Per Share achievement during that same period. Performance results of each individual metric do not impact the achievement level attributed to the other metrics.

PERSON RESPONSIBLE: Jake J. Stewart

Duke Energy Kentucky
Case No. 2021-00190
STAFF Fourth Set Data Requests
Date Received: August 31, 2021

STAFF-DR-04-013

REQUEST:

Refer to the response to the Attorney General's First Request for Information, Item 14.

a. For the months beginning September 2021 and ending December 2022, provide all specific projects more than $500,000 that are expected to be completed that result in the forecasted plant additions for this period.

b. For the months beginning September 2021 and ending December 2022, provide the total amount of forecasted plant additions that are expected to have a total cost under $500,000.

RESPONSE:

Please see STAFF-DR-04-013 Attachment for additions to gas plant by model project for the requested period. Note, this schedule includes the same data as provided in response to STAFF-DR-02-001, with the additional months September 2021-December 2021. The company's plant forecasting data is performed at a summarized level and is therefore provided by model project. This attachment includes model project data both above and below the requested $500,000 threshold.

PERSON RESPONSIBLE: Abby L. Motsinger

DUKE ENERGY KENTUCKY, INC.
Plant Additions
September 1, 2021 to December 31, 2022

Model Project	Sep - 2021	Oct - 2021	Nov - 2021	Dec - 2021	Jan - 2022	Feb - 2022	Mar - 2022	Apr - 2022	May - 2022	Jun - 2022	Jul - 2022	Aug - 2022	Sep - 2022	Oct - 2022	Nov - 2022	Dec - 2022
Casing & Remediation	-	-	-	202,156	-	-	-	-	-	-	-	-	-	-	-	3,570,958
Distribution Integrity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,258,481
Government Relocation	-	-	-	1,849,763	-	-	-	-	-	-	-	-	-	-	-	1,876,469
Measurement & Relocation	1,132,843	1,454,924	1,188,623	719,570	10,139	10,994	12,273	14,257	20,165	31,908	50,885	61,772	70,841	90,982	74,329	10,787,365
Meters	255,212	255,212	254,635	254,635	255,856	255,855	257,017	256,436	257,017	256,436	257,017	257,017	257,017	257,017	256,436	256,436
New Service	177,167	198,763	411,408	578,086	197,162	295,549	393,277	216,275	439,440	304,677	144,651	503,380	180,710	202,738	419,636	589,647
New Business	657,153	-	-	908,276	-	-	733,440	-	-	775,470	-	-	682,995	-	-	943,994
Replacement Services	358,153	326,601	293,073	466,750	198,066	254,925	252,517	401,658	496,333	458,994	68,863	267,777	333,462	304,086	272,869	434,573
System Infrastructure UL60 Pipeline	6,452,322	1,243,985	361,995	21,408,547	93,175	94,330	85,033	75,444	91,011	104,375	138,234	181,343	174,684	174,684	101,680	76,192
System Infrastructure	-	-	-	4,247,399	-	-	-	-	-	-	-	-	-	-	-	2,360,013
Transmission Integrity Line AM00B	-	-	-	-	-	-	-	-	-	4,142,863	51,091	65,063	232,913	414,873	337,783	95,307
Maintenance & Other	67,357	14,163	14,163	3,418,754	15,021	15,021	87,137	15,021	15,021	116,616	15,021	15,021	87,524	15,021	15,021	1,631,695
Intangible Plant	-	-	-	-	-	-	-	-	-	-	-	-	-	1,810,303	83,820	322,241
Total Additions	9,100,206	3,493,648	2,523,896	34,053,936	769,419	926,675	1,820,695	979,092	1,318,988	6,191,339	725,762	1,351,372	2,020,147	3,269,704	1,561,574	26,203,371

Duke Energy Kentucky
Case No. 2021-00190
STAFF Fourth Set Data Requests
Date Received: August 31, 2021

STAFF-DR-04-014

REQUEST:

Refer to the response to the Attorney General's First Request for Information, Item 15(i). Additionally, refer to the Direct Testimony of Brian R. Weisker, page 26, lines 5–9. State whether a Certificate of Public Convenience and Necessity (CPCN) was obtained for this project and the corresponding case number. If a CPCN was not obtained, explain why Duke Kentucky does not believe a CPCN was necessary.

RESPONSE:

The Company did not obtain a CPCN for the referenced project, as it was solely a replacement of existing facilities that had reached the end of their useful life, needed replacement to continue providing safe, reliable, and reasonable service, and thus constituted an ordinary extension of the existing system in the usual course of business, consistent with 807 KAR 5:001 Section 15. As this was a replacement of an existing facility in the same location, and the old facility needed to be taken out of service, it was not a wasteful duplication of plant, equipment or properties. As this was necessary to maintain service in Duke Energy Kentucky's gas territory, the project did not conflict with existing certificates of other utilities, and did not involve a sufficient capital outlay, as initially budgeted, to materially affect the financial condition of the Company. The costs of this project were treated like normal plant additions, (*i.e.* were not recovered through any discrete riders that would incrementally impact rates customer rates). Therefore, a CPCN was not necessary.

PERSON RESPONSIBLE: Brian R. Weisker

Duke Energy Kentucky
Case No. 2021-00190
STAFF Fourth Set Data Requests
Date Received: August 31, 2021

STAFF-DR-04-015

REQUEST:

Refer to the response to the Attorney General's Second Request for Information, Item 28. State whether a CPCN was obtained for this project and the corresponding case number. If a CPCN was not obtained, explain why Duke Kentucky does not believe a CPCN was necessary.

RESPONSE:

The Company did not obtain a CPCN for the referenced project, as it was solely a replacement of existing facilities that had reached the end of their useful life, needed replacement to continue providing safe, reliable, and reasonable service, and thus constituted an ordinary extension of the existing system in the usual course of business, consistent with 807 KAR 5:001 Section 15. As this was a replacement of an existing facility in the same location, and the old facility needed to be taken out of service, it was not a wasteful duplication of plant, equipment or properties. As this was necessary to maintain service in Duke Energy Kentucky's gas territory, the project did not conflict with existing certificates of other utilities, and did not involve a sufficient capital outlay, as initially budgeted, to materially affect the financial condition of the Company. The costs of this project were treated like normal plant additions, (*i.e.* were not recovered through any discrete riders that would incrementally impact rates customer rates). Therefore, a CPCN was not necessary.

PERSON RESPONSIBLE: Brian R. Weisker

Duke Energy Kentucky
Case No. 2021-00190
STAFF Fourth Set Data Requests
Date Received: August 31, 2021

STAFF-DR-04-016

REQUEST:

Refer to the Application, Schedule J. Duke Kentucky is forecasting an increase in common equity from $752,091,746 in the base year to $861,861,344 in the forecasted test year. Provide the expected date of this equity issuance.

RESPONSE:

The increase in forecasted common equity is due to both an increase in retained earnings, as a result of net income over the period, as well as two equity contributions from the parent entity during the forecasted test year. $50M of equity contributions are expected in September 2021 and $20M in March 2022.

PERSON RESPONSIBLE: Abby L. Motsinger