



Cumberland Valley Electric

A Touchstone Energy Cooperative

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COMMISSION

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December 1, 2015

Mr. James Murray, Acting Assistant Administrator  
USDA Rural Development  
Rural Utilities Service  
1400 Independence Ave., SW, Rm 5159  
STOP 1530  
Washington, D.C. 20250-1530

Dear Mr. Murray,

Please find enclosed a copy of the Service Life and Net Salvage Study including the recommended depreciation accrual rates as of December 31, 2014.

Cumberland Valley Electric, Inc. will implement the proposed rates on January 1, 2016.

If you have any questions, please let me know.

Sincerely,

Ted Hampton, CEO

Enclosure

cc: Jeff Derouen  
KY Public Service Commissions

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# **Cumberland Valley Electric**

Service Life and Net Salvage Study

December 31, 2014

JDS Consulting, LLC  
Nicholasville, Kentucky

# Cumberland Valley Electric

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# Cumberland Valley Electric

## Distribution Plant Depreciation Study

As of December 31, 2014

### INTRODUCTION

This depreciation study was performed for Cumberland Valley Electric (“Cumberland Valley”) in Gray, Kentucky. The purpose of the study was as follows:

1. To recommend appropriate depreciation rates based on estimates of average life mortality characteristics and net salvage that will fully recover the cost of the property, adjusted for net salvage over its estimated life.
2. To determine the adequacy of the book reserve for depreciation at a point in time by comparing it with a theoretical reserve based on the same average lives, mortality characteristics, and net salvage as used to determine the recommended depreciation rates.
3. To determine if necessary some method to adjust the book reserve for past over or under accruals as indicated by comparison with the theoretical reserve requirement.
4. To review in detail the history, status, procedures and policies of Cumberland Valley’s depreciation functions, records, and operating techniques.

Cumberland Valley’s last depreciation study performed as of December 2004. Since there are many factors affecting estimates of depreciation rates and accrued depreciation, and these factors are constantly changing, a depreciation study only represents the best judgment at the time the study is performed. Actual results may vary from the forecasts and variations may be material. A review of depreciation should be made at least every five (5) years so that Cumberland Valley’s depreciation practices reflect those changes.

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## **DEPRECIATION**

Book depreciation is merely the recognition in financial statements that physical assets are being consumed in the process of providing a service or product. Generally accepted accounting principles require the recording of depreciation provisions to be systematic and rational. In order to be systematic and rational, depreciation should to the extent possible, match either the consumption of the facilities or the revenues generated by the facilities. Accounting theory requires the matching of expenses with either consumption or revenues to ensure that financial statements reflect the results of operations and changes in financial position as accurately as possible. The matching principle is often referred to as the cause and effect principle, thus, both the cause and the effect are required to be recognized for financial statement purposes.

Because price regulation and not the market place controls revenues, for utility accounting purposes consumption is important and is usually assumed to occur at a constant rate. The key to the validity of the utility book depreciation accounting lies in accurately measuring property consumption through determining its mortality characteristics. The term "mortality characteristics" encompasses average service life and dispersion (variation) of retirements around average service life, as well as salvage and cost of removal (net salvage).

## **DEPRECIATION DEFINITIONS**

The Uniform System of Accounts prescribed for electric borrowers of the Rural Utilities Service ("RUS") states that depreciation "as applicable to depreciable electric plant, means the loss in service value not restored by current maintenance, incurred in connection with the consumption for prospective retirement of electric plant in the course of service from causes which are known to be in current operation and against which the utility is not protected by insurance. Among the causes to be given consideration are wear and tear,

## Cumberland Valley Electric

decay, action of the elements, inadequacy, obsolescence, changes in the art, changes in demand, and requirements of public authorities”.

Service value as defined “means the difference between original cost and net salvage of electric plant”.

Net Salvage value is the salvage value of property retired less cost of removal. Salvage value means the amount received for the property retired, and cost of removal means the cost of demolishing, dismantling, tearing down, or otherwise removing electric plant, including the cost of transportation and handling incidental thereto. Thus, salvage is what will actually be received and cost of removal is what will actually be incurred, both measured at the price level at the time of receipt, or incurrence that is required to be recognized by the company through capital recovery.

# Cumberland Valley Electric

## SCOPE

The study included construction and retirement activity for distribution plant from 1939 through 2014. Cumberland Valley has maintained its plant and depreciation records in accordance with the Uniform System of Accounts as issued by RUS. As such, Cumberland Valley's plant records are maintained on a mass property, average historical cost basis in its continuing property records ("CPR's"). Cumberland Valley maintains CPR's on the record unit basis for CPR's.

The study was performed utilizing the Computer Assisted Depreciation and Life Analysis ("CADLAS") program which incorporated the "Iowa Type Survivor Curves". These curves are frequently used by utilities for analyzing depreciation of property recorded on a mass basis. The curves analyze the life of mass property accounted for on the vintage basis. Vintage accounting is a system where plant is accounted for by year of installation and its life is tagged as such through retirement. Since vintage accounting is not required by the uniform system of accounts, this type of record was not maintained for the mass items. The study therefore used the technique of creating simulated plant records on a vintage basis. The CADLAS program is recognized by many governmental organizations, including RUS.

The CADLAS program incorporates the Simulated Plant Record ("SPR") method of analyzing data. Studies have shown that mass property kept on a vintage record basis generally fits one of 31 Iowa Type Survivor Curves. Through additional studies it has been shown that if plant is retired but it was not recorded on a vintage basis, it would still follow the pattern of one of these curves. The SPR method of analyzing the data tests the additions, retirements, and plant balances for each year to fit the data to the best curve for analysis.

## Cumberland Valley Electric

The result of simulating the plant balances and the depreciation reserve, and allocating the net salvage is to be able to develop the average plant lives and calculate the plant balances, reserve balances, and annual depreciation accruals for distribution assets in service.

The most likely retirement patterns and average service lives were developed based on the SPR analysis. This information was then analyzed for appropriateness and a curve and service life was selected for each account.

The study of depreciation also utilizes the estimates of net salvage for the primary plant accounts. Net salvage is the result of combining salvage received for plant removed from service and the cost of removal. These records were not maintained on a primary account basis since it was not required by the uniform system of accounts. As part of this study, both the cost of removal and salvage were allocated to the primary plant accounts on a percentage basis. The percentages were based on a review of salvage and cost of removal accounts at Cumberland Valley for a five (5) year period.

When utilizing the whole life method of accounting for depreciation, it is necessary to determine the adequacy of the depreciation reserve for each account. Cumberland Valley does not maintain separate accumulated depreciation reserve accounts for each of its distribution plant accounts. The calculation of the net salvage is performed on an average of the original cost of units of property retired on a monthly basis. This method does not give consideration for the net salvage ratio being different than the ratio of original cost each month. Therefore, it is necessary to develop a calculated depreciation reserve for each individual account. This was done by utilizing the average service life developed above, along with the net salvage ratio (as noted above) and applying the rate to the historical additions and the simulated retirements to date to obtain the calculated depreciation reserve.

The depreciation expense and the depreciation reserve were calculated on a composite basis for each account historically used by Cumberland Valley. For comparative purposes



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the depreciation expense was calculated for each year based on the proposed rates in this study, and the composite rate was calculated and compared to the current composite rate.

In its last rate application before the Kentucky Public Service Commission (“KPSC”), the KPSC required Cumberland Valley to depreciate mechanical meters for 31 years and solid state meters for 15 years. This study incorporated those rates. The equipment installed at the substations recorded in Account 362 relate to AMI and will be depreciated over the same live as AMI devices.

The following is a summary of the proposed composite depreciation rates and the RUS recommended maximum and minimum rates.

		Proposed	Present	<u>RUS</u>	
	<u>Distribution Plant Account</u>	<u>Rate</u>	<u>Rate</u>	<u>Low</u>	<u>High</u>
362	Substation	6.70%	3.10%	2.7%	3.2%
364	Poles Towers and Fixtures	3.90%	4.00%	3.0%	4.0%
365	O/H Conductor and Devices	3.27%	2.80%	2.3%	2.8%
367	U/G Conductor	4.02%	4.00%	2.4%	2.9%
368	Transformers	2.39%	3.10%	2.6%	3.1%
369	Services	4.14%	3.60%	3.1%	3.6%
370	Meters	3.40%	3.40%	2.9%	3.4%
370.01	Meters, AMI	6.70%	6.70%	2.9%	3.4%
371	Installation on Cons. Premises	4.89%	4.00%	3.9%	4.4%

1. The “Proposed” rates are the rates determined from this depreciation study.
2. The “Present Rates” are those currently in effect. The rate is used for all distribution plant accounts
3. The “RUS Low and High” range are those included in RUS Bulletin 183-1, Depreciation Rates and Procedures. The ranges were developed by RUS in the 1960’s as a result of the study of rural electric borrowers. As per the bulletin, rates can be selected from within the range of rates without prior RUS approval. The bulletin further provides for rates higher or lower than those in the range when supported by a depreciation study. However, the Kentucky Public Service Commission does not allow for changing rates without the support of a depreciation study.

## Cumberland Valley Electric

The study findings are based upon many factors and assumptions which were discussed with Cumberland Valley's personnel. Any changes in the assumptions could significantly impact the results of the study findings. In the future, as plant is added and retired, and methods and technology change, appropriate revisions to the study findings may be necessary. Cumberland Valley should consider the effects of such changes on an ongoing basis.

Cumberland Valley also considered the Whole Life Method of calculating the annual depreciation, with the Net Salvage Ratio as ordered by the Kentucky Public Service Commission in Case No. 2000-373, Adjustment of Rates of Jackson Energy Cooperative. This method of recognizing net salvage ratio is in essence the average of the last five (5) years salvage and removal costs that have been recognized in the accumulated depreciation account.

Based on the lives of the assets and the current reserve ratio to total distribution plant, Cumberland Valley has decided to use these rates as a result of this study.

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## Section 3

### Calculation of Rates and Net Salvage Analysis

Cumberland Valley Electric Cooperative  
 Whole Life Depreciation Rates  
 as of December 31, 2014

Account Number	Description	Balance Dec 31, 2014	Average Service Life	No Net Salvage		Net Salvage Percent	Proposed Rates With Net Salvage		Existing		Difference
				Accrual	Rate		Rate	Accrual	Rate	Accrual	
362	Station equipment	758,414	15	50,561	6.67%	0.00%	6.67%	50,586	3.10%	23,511	27,075
364	Poles, Towers & Fixtures	28,703,498	30.1	953,605	3.32%	0.58%	3.90%	1,118,734	4.00%	1,148,140	(29,406)
365	Overhead Conductors & Dev	27,212,587	37.2	731,521	2.69%	0.58%	3.27%	889,186	2.80%	761,952	127,233
367	Underground Conductors & I	3,736,396	28	133,443	3.57%	0.45%	4.02%	150,174	4.00%	149,456	718
368	Line Transformers	10,203,355	41.9	243,517	2.39%	0.00%	2.39%	243,860	3.10%	316,304	(72,444)
369	Service (Pole-to-House)	8,254,232	27.1	304,584	3.69%	0.45%	4.14%	341,660	3.60%	297,152	44,507
370	Meters	1,594,716	31	51,442	3.40%	0.00%	3.40%	54,220	3.40%	54,220	0
370.01	Meters, AMI	4,849,217	15	323,281	6.70%	0.00%	6.70%	324,898	6.70%	324,898	0
371	Installations on Customers' F	4,788,991	22.5	212,844	4.44%	0.45%	4.89%	234,144	4.00%	191,560	42,584
373	Street Lighting & Signal Syst	0	22.5	0	0.00%	0.00%	0.00%	0	4.00%	0	0
Total		<u>90,101,406</u>		<u>3,004,798</u>				<u>3,407,461</u>		<u>3,267,193</u>	<u>140,268</u>
								Composite rate	3.78%	3.63%	

Cumberland Valley Electric Cooperative  
 Calculation of Net Salvage Percent  
 Distribution Plant

<u>Account Number</u>	<u>Description</u>	<u>Balance Dec 31, 2014</u>	<u>Net Salvage Ratio</u>	<u>Net Salvage Amount</u>	<u>Ratio to Total</u>	<u>Net Salvage Allocation</u>	<u>Net Salvage Percent</u>
362	Station equipment	758,414	0%	0	0.00%	0	0.00%
364	Poles, Towers & Fixtures	28,703,498	45%	12,916,574	41.62%	165,778	0.58%
365	Overhead Conductors & Dev	27,212,587	45%	12,245,664	39.46%	157,167	0.58%
367	Underground Conductors & I	3,736,396	35%	1,307,739	4.21%	16,784	0.45%
368	Line Transformers	10,203,355	0%	0	0.00%	0	0.00%
369	Service (Pole-to-House)	8,254,232	35%	2,888,981	9.31%	37,079	0.45%
370	Meters	1,594,716	0%	0	0.00%	0	0.00%
370..01	Meters, AMI	4,849,217	0%	0	0.00%	0	0.00%
371	Installations on Customers' F	4,788,991	35%	1,676,147	5.40%	21,513	0.45%
373	Street Lighting & Signal Syst	0	0%	0	0.00%	0	0.00%
	<b>Total</b>	<u>90,101,406</u>		<u>31,035,105</u>		<u>398,320</u>	
						<u>Five year average net salvage amount</u>	<u>398,320</u>

Cumberland Valley Electric Cooperative

Calculation of Net Salvage

as of December 31, 2014

Year	Original	Gross Salvage		Cost of Removal		Net Salvage	
	Cost of Retirements	Amount	Percent	Amount	Percent	Amount	Percent
2003	426,584	5,959	1%	288,469	68%	(282,510)	-66%
2004	651,580	64,245	10%	338,083	52%	(273,838)	-42%
2005	607,109	62,616	10%	321,765	53%	(259,149)	-43%
2006	804,672	52,722	7%	407,495	51%	(354,773)	-44%
2007	968,521	132,901	14%	323,949	33%	(191,048)	-20%
2008	1,089,194	117,618	11%	429,725	39%	(312,107)	-29%
2009	803,464	69,123	9%	370,990	46%	(301,867)	-38%
2010	879,706	14,060	2%	424,853	48%	(410,793)	-47%
2011	1,687,539	92,157	5%	542,035	32%	(449,878)	-27%
2012	1,101,509	140,079	13%	438,146	40%	(298,067)	-27%
2013	1,557,401	135,144	9%	529,481	34%	(394,337)	-25%
2014	1,994,914	145,398	7%	583,923	29%	(438,525)	-22%

**Three Year Moving Averages**

04 - 06	687,787	59,861	9%	355,781	52%	(295,920)	-43%
05 - 07	793,434	82,746	10%	351,070	44%	(268,323)	-34%
06 - 08	954,129	101,080	11%	387,056	41%	(285,976)	-30%
07 - 09	953,726	106,547	11%	374,888	39%	(268,341)	-28%
08 - 10	924,121	66,934	7%	408,523	44%	(341,589)	-37%
09 - 11	1,123,570	58,447	5%	445,959	40%	(387,513)	-34%
10 - 12	1,222,918	82,099	7%	468,345	38%	(386,246)	-32%
11 - 13	1,448,816	122,460	8%	503,221	35%	(380,761)	-26%
12 - 14	1,551,275	140,207	9%	517,183	33%	(376,976)	-24%

**Five Year Average**

10 - 14	1,444,214	105,368	7%	503,688	35%	(398,320)	-28%
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**Ten year Average**

05 - 14	1,149,403	96,182	8%	437,236	38%	(341,054)	-30%
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# Cumberland Valley Electric

## Section 4

### Summary of Findings by Iowa Type Curve

# Cumberland Valley

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
3	S1	26.1	5.77E+08	12	83	24.98
16	L2	24.9	5.78E+08	12	83	30.69
4	S1.5	23.2	5.91E+08	12	83	29.4
25	R3	20.5	6.01E+08	12	83	32.45
15	L1.5	30	6.02E+08	12	83	22.8
17	L2.5	22.4	6.05E+08	12	83	36.01
2	S0.5	31.8	6.16E+08	12	83	19.1
14	L1	35.8	6.38E+08	13	76	19.49
5	S2	20.6	6.52E+08	13	76	38.16
1	S0	39.2	6.55E+08	13	76	15.93
24	R2.5	24.3	6.58E+08	13	76	21.85
6	S2.5	19.3	6.92E+08	13	76	44.39
18	L3	20.1	6.92E+08	13	76	46
13	L0.5	47.8	7.23E+08	13	76	14.62
23	R2	29.7	7.37E+08	13	76	16.51
12	L0	61.6	7.53E+08	14	71	13.08
26	R4	17.5	7.56E+08	14	71	57.41
7	S3	18	7.68E+08	14	71	53.95
22	R1.5	40.2	8.48E+08	14	71	12.47
21	R1	53.5	8.96E+08	15	66	11
19	L4	17.4	9.30E+08	15	66	65.04
29	O2	105	9.49E+08	15	66	9.91
28	O1	93.1	9.49E+08	15	66	9.94
30	O3	154.4	9.52E+08	15	66	9.84
31	O4	208.7	9.53E+08	15	66	9.88
8	S4	16.5	9.68E+08	16	62	75.6
20	L5	16.4	1.19E+09	17	58	81.23
27	R5	16.1	1.24E+09	18	55	87.91
9	S5	15.9	1.53E+09	20	50	91.58
10	S6	15.8	2.27E+09	24	41	98.84
11	SQ	17.2	4.83E+09	35	28	100



# Cumberland Valley

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
12	L0	35	4.78E+13	105	9.00	93.52
13	L0.5	33	5.28E+13	110	9.00	96.73
21	R1	30.1	5.47E+13	112	8.00	100
1	S0	30	5.75E+13	115	8.00	100
14	L1	31	5.83E+13	116	8.00	99.08
22	R1.5	29.2	6.08E+13	118	8.00	100
2	S0.5	29.1	6.27E+13	120	8.00	100
15	L1.5	29.8	6.40E+13	121	8.00	99.69
23	R2	28.1	6.80E+13	125	8.00	100
3	S1	28.2	6.84E+13	126	7.00	100
16	L2	28.9	7.02E+13	127	7.00	99.97
4	S1.5	27.6	7.37E+13	130	7.00	100
24	R2.5	27.4	7.50E+13	131	7.00	100
17	L2.5	28	7.54E+13	132	7.00	100
5	S2	27.3	7.94E+13	135	7.00	100
18	L3	27.4	8.12E+13	137	7.00	100
25	R3	27.1	8.25E+13	138	7.00	100
6	S2.5	26.9	8.41E+13	139	7.00	100
7	S3	26.6	8.91E+13	143	6.00	100
19	L4	26.5	9.24E+13	146	6.00	100
26	R4	26.4	9.42E+13	147	6.00	100
8	S4	26.2	9.93E+13	151	6.00	100
20	L5	26.1	1.01E+14	153	6.00	100
27	R5	26	1.04E+14	155	6.00	100
9	S5	25.8	1.06E+14	157	6.00	100
10	S6	25.9	1.11E+14	160	6.00	100
11	SQ	28.2	1.33E+14	175	5.00	100
31	O4	66.7	3.63E+13	91	10	70.08
30	O3	51.4	3.81E+13	93	10	75.94
29	O2	38.4	4.21E+13	98	10	88.35
28	O1	34.8	4.33E+13	100	10.00	100

# Cumberland Valley

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
12	L0	44.9	2.26E+13	75	13	82.45
21	R1	37.2	2.39E+13	77	12	99.83
13	L0.5	40.9	2.47E+13	79	12	89.16
22	R1.5	34.7	2.57E+13	80	12	100.00
1	S0	36.9	2.63E+13	81	12	99.82
14	L1	38.0	2.73E+13	83	12	94.14
23	R2	32.9	2.77E+13	83	12	100.00
2	S0.5	35.0	2.83E+13	84	11	100.00
15	L1.5	35.8	2.94E+13	86	11	97.16
24	R2.5	32.0	2.94E+13	86	11	100.00
3	S1	33.3	3.05E+13	87	11	100.00
4	S1.5	32.3	3.17E+13	89	11	100.00
25	R3	31.0	3.18E+13	89	11	100.00
16	L2	34.0	3.20E+13	90	11	99.03
5	S2	31.3	3.34E+13	92	10	100.00
17	L2.5	33.0	3.35E+13	92	10	99.67
6	S2.5	30.9	3.46E+13	93	10	100.00
18	L3	31.7	3.55E+13	94	10	100.00
7	S3	30.6	3.62E+13	95	10	100.00
26	R4	30.2	3.65E+13	96	10	100.00
19	L4	30.3	3.80E+13	98	10	100.00
8	S4	29.8	3.96E+13	100	10	100.00
20	L5	29.5	4.09E+13	101	9	100.00
27	R5	29.4	4.17E+13	102	9	100.00
9	S5	29.3	4.27E+13	104	9	100.00
10	S6	29.2	4.50E+13	106	9	100.00
11	SQ	31.5	5.57E+13	118	8	100.00
31	O4	93.7	1.83E+13	68	14	60.94
30	O3	70.8	1.87E+13	68	14	65.11
29	O2	51.1	1.96E+13	70	14	76.32
28	O1	45.3	1.97E+13	70	14	80.04

# Cumberland Valley

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
25	R3	28	7.90E+09	13	76.00	100
26	R4	24.8	7.92E+09	14	71.00	100
24	R2.5	31.6	7.97E+09	14	71.00	94.41
23	R2	36.7	8.05E+09	14	71.00	74.47
14	L1	44.2	8.06E+09	14	71.00	57.85
15	L1.5	38.1	8.12E+09	14	71.00	70.07
7	S3	25.2	8.24E+09	14	71.00	100
13	L0.5	55.6	8.24E+09	14	71.00	44.45
2	S0.5	39.2	8.26E+09	14	71.00	64.76
6	S2.5	26.6	8.29E+09	14	71.00	99.82
1	S0	46.4	8.33E+09	14	71.00	50.08
22	R1.5	45.8	8.34E+09	14	71.00	47.86
17	L2.5	30.1	8.35E+09	14	71.00	90.21
16	L2	33	8.36E+09	14	71.00	82.32
4	S1.5	30.6	8.38E+09	14	71.00	92.59
5	S2	27.9	8.41E+09	14	71.00	98.88
3	S1	33.7	8.41E+09	14	71.00	81.67
12	L0	69	8.42E+09	14	71.00	36.03
18	L3	27.6	8.54E+09	14	71.00	96.12
21	R1	58	8.58E+09	14	71.00	33.49
19	L4	24.7	8.77E+09	14	71.00	99.97
29	O2	108.1	8.85E+09	14	71	24.2
28	O1	96.8	8.85E+09	14	71.00	24.02
30	O3	159	8.87E+09	14	71	23.52
31	O4	214.8	8.88E+09	14	71	23.34
8	S4	23.5	8.94E+09	14	71.00	100
27	R5	23.1	9.71E+09	15	66.00	100
20	L5	23.4	9.76E+09	15	66.00	100
9	S5	22.9	1.07E+10	16	62.00	100
10	S6	22.8	1.29E+10	17	58.00	100
11	SQ	24.8	3.80E+10	30	33.00	100

# Cumberland Valley

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
12	L0	50.7	7.42E+12	81	12.00	76.58
21	R1	41.9	8.36E+12	87	11.00	96.46
13	L0.5	46.8	8.70E+12	88	11.00	82.82
1	S0	41.8	9.64E+12	93	10.00	94.75
22	R1.5	39.8	9.97E+12	95	10.00	99.34
14	L1	43.6	1.04E+13	96	10.00	88.61
2	S0.5	40.1	1.11E+13	100	10.00	98.26
15	L1.5	41.5	1.18E+13	103	9.00	92.73
23	R2	37.9	1.18E+13	103	9.00	100
3	S1	38.5	1.29E+13	108	9.00	99.87
24	R2.5	36.7	1.32E+13	109	9.00	100
16	L2	39.4	1.36E+13	111	9.00	96.18
4	S1.5	37.4	1.41E+13	113	8.00	100
17	L2.5	38.2	1.48E+13	115	8.00	98.14
25	R3	35.6	1.48E+13	115	8.00	100
5	S2	36.2	1.55E+13	118	8.00	100
18	L3	37	1.62E+13	121	8.00	99.58
6	S2.5	35.7	1.63E+13	121	8.00	100
26	R4	34.8	1.69E+13	123	8.00	100
7	S3	35.3	1.72E+13	124	8.00	100
19	L4	35	1.79E+13	127	7.00	100
8	S4	34.4	1.86E+13	129	7.00	100
27	R5	34.2	1.90E+13	131	7.00	100
20	L5	34.5	1.92E+13	131	7.00	100
9	S5	34.3	1.97E+13	133	7.00	100
10	S6	34.1	2.05E+13	136	7.00	100
11	SQ	37.1	2.71E+13	156	6.00	100
31	O4	104.2	5.09E+12	67	14	58.14
30	O3	78.7	5.29E+12	69	14	61.67
29	O2	56.8	5.77E+12	72	13	71.13
28	O1	50.9	5.78E+12	72	13.00	72.25

# Cumberland Valley

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
12	L0	31.3	1.87E+12	68	14.00	96.66
13	L0.5	29.4	2.26E+12	75	13.00	98.74
21	R1	27.1	2.35E+12	77	12.00	100
1	S0	27	2.60E+12	81	12.00	100
14	L1	28	2.73E+12	83	12.00	99.82
22	R1.5	26.2	2.91E+12	86	11.00	100
2	S0.5	26.2	3.08E+12	88	11.00	100
15	L1.5	26.9	3.19E+12	89	11.00	99.97
23	R2	25.3	3.57E+12	95	10.00	100
3	S1	25.4	3.62E+12	95	10.00	100
16	L2	25.8	3.72E+12	97	10.00	100
4	S1.5	24.8	4.07E+12	101	9.00	100
17	L2.5	25.3	4.13E+12	102	9.00	100
24	R2.5	24.6	4.16E+12	102	9.00	100
5	S2	24.5	4.56E+12	107	9.00	100
18	L3	24.7	4.59E+12	107	9.00	100
25	R3	24.2	4.77E+12	110	9.00	100
6	S2.5	24.2	4.91E+12	111	9.00	100
7	S3	23.9	5.27E+12	115	8.00	100
19	L4	23.6	5.41E+12	117	8.00	100
26	R4	23.5	5.57E+12	118	8.00	100
8	S4	23.3	5.85E+12	121	8.00	100
20	L5	23.2	5.92E+12	122	8.00	100
27	R5	23.2	6.10E+12	124	8.00	100
9	S5	23	6.17E+12	125	8.00	100
10	S6	22.8	6.33E+12	126	7.00	100
11	SQ	24.9	8.92E+12	150	6.00	100
31	O4	58.9	1.05E+12	51	19	72.99
30	O3	45.9	1.17E+12	54	18	79.34
29	O2	34.3	1.42E+12	60	16	91.65
28	O1	30.7	1.49E+12	61	16.00	100

# Cumberland Valley

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
26	R4	29.2	4.26E+11	92	10.00	100
25	R3	30	4.29E+11	93	10.00	100
7	S3	29.7	4.38E+11	94	10.00	100
6	S2.5	29.9	4.41E+11	94	10.00	100
24	R2.5	30.4	4.41E+11	94	10.00	100
8	S4	29.2	4.43E+11	94	10.00	100
19	L4	29.6	4.46E+11	95	10.00	100
5	S2	30.4	4.47E+11	95	10.00	100
27	R5	29.1	4.52E+11	95	10.00	100
20	L5	29.1	4.54E+11	95	10.00	100
4	S1.5	30.9	4.56E+11	96	10.00	100
18	L3	30.6	4.57E+11	96	10.00	100
23	R2	31.4	4.58E+11	96	10.00	100
17	L2.5	31.5	4.61E+11	96	10.00	99.86
9	S5	29.1	4.61E+11	96	10.00	100
3	S1	31.8	4.68E+11	97	10.00	100
16	L2	32.4	4.70E+11	97	10.00	99.54
22	R1.5	32.6	4.77E+11	98	10.00	100
15	L1.5	33.5	4.79E+11	98	10.00	98.53
2	S0.5	32.9	4.79E+11	98	10.00	100
10	S6	28.9	4.84E+11	99	10.00	100
1	S0	33.9	4.91E+11	99	10.00	100
14	L1	35.1	4.92E+11	99	10.00	96.69
21	R1	34	4.95E+11	100	10.00	100
13	L0.5	37	5.07E+11	101	9.00	93.25
12	L0	39.7	5.25E+11	103	9.00	88.58
28	O1	38.9	5.41E+11	104	9.00	93.24
29	O2	43.4	5.49E+11	105	9	83.99
30	O3	58.6	5.74E+11	107	9	71.71
31	O4	76.9	5.86E+11	108	9	66.49
11	SQ	31.5	7.04E+11	119	8.00	100

# Cumberland Valley

Curve Number	Curve Type	Estimated Life	Squared Error	Index of Variation	Conformation Index	Retirement Experience
13	L0.5	24.3	6.50E+10	24	41.00	96.36
21	R1	22.5	6.97E+10	25	40.00	100
1	S0	22.6	7.41E+10	25	40.00	100
14	L1	22.9	7.94E+10	26	38.00	98.8
22	R1.5	21.7	9.31E+10	29	34.00	100
2	S0.5	21.6	9.35E+10	29	34.00	100
15	L1.5	22.1	9.92E+10	30	33.00	99.54
3	S1	21	1.16E+11	32	31.00	100
23	R2	21	1.22E+11	33	30.00	100
16	L2	21.4	1.23E+11	33	30.00	99.94
4	S1.5	20.5	1.40E+11	35	28.00	100
17	L2.5	20.6	1.47E+11	36	27.00	99.99
24	R2.5	20.4	1.54E+11	37	27.00	100
5	S2	20.1	1.67E+11	38	26.00	100
18	L3	20.1	1.74E+11	39	25.00	100
25	R3	19.9	1.90E+11	41	24.00	100
6	S2.5	19.8	1.92E+11	41	24.00	100
7	S3	19.6	2.20E+11	44	22.00	100
19	L4	19.4	2.36E+11	46	21.00	100
26	R4	19.2	2.49E+11	47	21.00	100
8	S4	19.1	2.77E+11	50	20.00	100
20	L5	18.9	2.87E+11	51	19.00	100
27	R5	18.7	3.05E+11	52	19.00	100
9	S5	18.8	3.17E+11	53	18.00	100
10	S6	18.5	3.41E+11	55	18.00	100
11	SQ	20.2	6.88E+11	78	12.00	100
28	O1	25.3	4.50E+10	20	50.00	100
29	O2	28.3	4.90E+10	21	47	87.85
12	L0	25.6	5.57E+10	22	45.00	93.12
30	O3	37.4	5.67E+10	22	45	75.77
31	O4	48.1	6.09E+10	23	43	70.19

# Cumberland Valley Electric

## Section 5

### Simulated Plant Record Analysis



SIMULATED PLANT RECORD ANALYSIS  
BOARD  
SIMULATED BALANCE METHOD

SURFACE TRANSPORTATION

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 362 Station Equipment

ACCOUNT CONTROL INFORMATION

EARLIEST ADDITION = 1996 LATEST ADDITION = 2014  
EARLIEST BALANCE = 2008 LATEST BALANCE = 2014  
EARLIEST RETIREMENT = 2008 LATEST RETIREMENT = 2014 INPUT = ADD & RET

SIMULATED PLANT RECORD ANALYSIS  
BOARD

SURFACE TRANSPORTATION

SIMULATED BALANCE METHOD

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 362 Station Equipment

ANALYSIS BAND = 2008 THRU 2014 INCREMENT = 1

DISP MEAN SSD IV REI  
S0 39.2 YRS. 0.6549E+09 13 15.93

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	762148.	2012	756476.	2010	720885.	2008	688146.
2013	749789.	2011	762579.	2009	683889.	0	0.

DISP MEAN SSD IV REI  
S1 26.1 YRS. 0.5766E+09 12 24.98

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	756656.	2012	756945.	2010	724005.	2008	691416.
2013	747738.	2011	764735.	2009	687358.	0	0.

DISP MEAN SSD IV REI  
S2 20.6 YRS. 0.6519E+09 13 38.16

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	753011.	2012	758986.	2010	727376.	2008	694039.
2013	747624.	2011	767838.	2009	690480.	0	0.

DISP MEAN SSD IV REI  
S3 18.0 YRS. 0.7677E+09 14 53.95

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	751502.	2012	761123.	2010	729994.	2008	696238.
2013	748553.	2011	770426.	2009	692936.	0	0.

DISP MEAN SSD IV REI  
S4 16.5 YRS. 0.9684E+09 16 75.60

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	748102.	2012	761532.	2010	733032.	2008	698972.
2013	747013.	2011	772491.	2009	696133.	0	0.

DISP MEAN SSD IV REI  
S5 15.9 YRS. 0.1532E+10 20 91.58

SIMULATED BALANCES

YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
 2014 742374. 2012 763744. 2010 737607. 2008 700856.  
 2013 744997. 2011 777016. 2009 699456. 0 0.

DISP MEAN SSD IV REI  
 S6 15.8 YRS. 0.2266E+10 24 98.84

SIMULATED BALANCES

YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
 2014 739538. 2012 770328. 2010 741539. 2008 701351.  
 2013 748123. 2011 783346. 2009 701126. 0 0.

DISP MEAN SSD IV REI  
 SQ 17.2 YRS. 0.4832E+10 35 100.00

SIMULATED BALANCES

YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
 2014 778215. 2012 790385. 2010 743213. 2008 701370.  
 2013 783389. 2011 790385. 2009 701370. 0 0.

DISP MEAN SSD IV REI  
 L0 61.6 YRS. 0.7528E+09 14 13.08

SIMULATED BALANCES

YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
 2014 764237. 2012 756245. 2010 719391. 2008 686244.  
 2013 750587. 2011 761597. 2009 682080. 0 0.

DISP MEAN SSD IV REI  
 L1 35.8 YRS. 0.6380E+09 13 19.49

SIMULATED BALANCES

YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
 2014 760016. 2012 756290. 2010 721366. 2008 688419.  
 2013 748822. 2011 762859. 2009 684346. 0 0.

DISP MEAN SSD IV REI  
 L2 24.9 YRS. 0.5782E+09 12 30.69

SIMULATED BALANCES

YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
 2014 755869. 2012 757475. 2010 725063. 2008 692400.  
 2013 747771. 2011 765602. 2009 688450. 0 0.

DISP MEAN SSD IV REI  
 L3 20.1 YRS. 0.6922E+09 13 46.00

SIMULATED BALANCES

YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
 2014 752018. 2012 759348. 2010 728599. 2008 695117.  
 2013 747339. 2011 768741. 2009 691746. 0 0.

DISP MEAN SSD IV REI  
 L4 17.4 YRS. 0.9296E+09 15 65.04

SIMULATED BALANCES

YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
 2014 747825. 2012 761978. 2010 731473. 2008 696973.  
 2013 747534. 2011 772004. 2009 694018. 0 0.

DISP MEAN SSD IV REI  
L5 16.4 YRS. 0.1192E+10 17 81.23

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	747591.	2012	764088.	2010	735280.	2008	699795.
2013	748234.	2011	775314.	2009	697583.	0	0.

DISP MEAN SSD IV REI  
R1 53.5 YRS. 0.8960E+09 15 11.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	766786.	2012	756590.	2010	718258.	2008	684243.
2013	751965.	2011	761116.	2009	680423.	0	0.

DISP MEAN SSD IV REI  
R2 29.7 YRS. 0.7365E+09 13 16.51

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	762663.	2012	756116.	2010	719663.	2008	686265.
2013	749907.	2011	761770.	2009	682284.	0	0.

DISP MEAN SSD IV REI  
R3 20.5 YRS. 0.6009E+09 12 32.45

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	755959.	2012	757527.	2010	724284.	2008	691166.
2013	747996.	2011	765262.	2009	687334.	0	0.

DISP MEAN SSD IV REI  
R4 17.5 YRS. 0.7557E+09 14 57.41

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	751647.	2012	761094.	2010	729510.	2008	695553.
2013	748727.	2011	770135.	2009	692323.	0	0.

DISP MEAN SSD IV REI  
R5 16.1 YRS. 0.1239E+10 18 87.91

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	746369.	2012	764542.	2010	735311.	2008	699616.
2013	748354.	2011	775580.	2009	697466.	0	0.

DISP MEAN SSD IV REI  
O1 93.1 YRS. 0.9493E+09 15 9.94

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	767667.	2012	756620.	2010	717813.	2008	683617.
2013	752374.	2011	760866.	2009	679849.	0	0.

DISP MEAN SSD IV REI  
O2 105.0 YRS. 0.9489E+09 15 9.91  
SIMULATED BALANCES  
YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
2014 767821. 2012 756747. 2010 717911. 2008 683688.  
2013 752515. 2011 760978. 2009 679934. 0 0.

DISP MEAN SSD IV REI  
O3 154.4 YRS. 0.9516E+09 15 9.84  
SIMULATED BALANCES  
YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
2014 767890. 2012 756768. 2010 717905. 2008 683669.  
2013 752558. 2011 760984. 2009 679919. 0 0.

DISP MEAN SSD IV REI  
O4 208.7 YRS. 0.9528E+09 15 9.88  
SIMULATED BALANCES  
YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
2014 767648. 2012 756560. 2010 717738. 2008 683546.  
2013 752330. 2011 760795. 2009 679773. 0 0.

DISP MEAN SSD IV REI  
S0.5 31.8 YRS. 0.6163E+09 12 19.10  
SIMULATED BALANCES  
YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
2014 759796. 2012 756165. 2010 721536. 2008 688963.  
2013 748610. 2011 762866. 2009 684713. 0 0.

DISP MEAN SSD IV REI  
S1.5 23.2 YRS. 0.5906E+09 12 29.40  
SIMULATED BALANCES  
YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
2014 756225. 2012 758121. 2010 725394. 2008 692426.  
2013 748337. 2011 766140. 2009 688588. 0 0.

DISP MEAN SSD IV REI  
S2.5 19.3 YRS. 0.6919E+09 13 44.39  
SIMULATED BALANCES  
YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
2014 752916. 2012 760111. 2010 728544. 2008 694941.  
2013 748370. 2011 769059. 2009 691529. 0 0.

DISP MEAN SSD IV REI  
L0.5 47.8 YRS. 0.7230E+09 13 14.62  
SIMULATED BALANCES  
YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
2014 763447. 2012 756367. 2010 719881. 2008 686732.  
2013 750331. 2011 761962. 2009 682610. 0 0.

DISP MEAN SSD IV REI  
 L1.5 30.0 YRS. 0.6023E+09 12 22.80  
 SIMULATED BALANCES  
 YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
 2014 758480. 2012 756643. 2010 722597. 2008 689736.  
 2013 748359. 2011 763764. 2009 685712. 0 0.

DISP MEAN SSD IV REI  
 L2.5 22.4 YRS. 0.6049E+09 12 36.01  
 SIMULATED BALANCES  
 YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
 2014 754539. 2012 758238. 2010 726184. 2008 693230.  
 2013 747784. 2011 766682. 2009 689459. 0 0.

DISP MEAN SSD IV REI  
 R1.5 40.2 YRS. 0.8475E+09 14 12.47  
 SIMULATED BALANCES  
 YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
 2014 765327. 2012 756168. 2010 718420. 2008 684652.  
 2013 751086. 2011 761036. 2009 680750. 0 0.

DISP MEAN SSD IV REI  
 R2.5 24.3 YRS. 0.6584E+09 13 21.85  
 SIMULATED BALANCES  
 YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES  
 2014 759903. 2012 756259. 2010 721057. 2008 687881.  
 2013 748843. 2011 762701. 2009 683894. 0 0.

S0.5 31.8 YRS. 0.6163E+09 12 83 19.10  
 S1 26.1 YRS. 0.5766E+09 12 83 24.98  
 S1.5 23.2 YRS. 0.5906E+09 12 83 29.40  
  
 L1.5 30.0 YRS. 0.6023E+09 12 83 22.80  
 L2 24.9 YRS. 0.5782E+09 12 83 30.69  
 L2.5 22.4 YRS. 0.6049E+09 12 83 36.01  
  
 R2.5 24.3 YRS. 0.6584E+09 13 76 21.85  
 R3 20.5 YRS. 0.6009E+09 12 83 32.45  
 R4 17.5 YRS. 0.7557E+09 14 71 57.41

SIMULATED PLANT RECORD ANALYSIS  
BOARD  
SIMULATED BALANCE METHOD

SURFACE TRANSPORTATION

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 362 Station Equipment

ANALYSIS BAND = 2008 THRU 2014

INCREMENT = 1

CURVE	IV	CI	REI
S0 - 39.2	13	76	15.93
S0.5 - 31.8	12	83	19.10
S1 - 26.1	12	83	24.98
S1.5 - 23.2	12	83	29.40
S2 - 20.6	13	76	38.16
S2.5 - 19.3	13	76	44.39
S3 - 18.0	14	71	53.95
S4 - 16.5	16	62	75.60
S5 - 15.9	20	50	91.58
S6 - 15.8	24	41	98.84
SQ - 17.2	35	28	100.00
L0 - 61.6	14	71	13.08
L0.5 - 47.8	13	76	14.62
L1 - 35.8	13	76	19.49
L1.5 - 30.0	12	83	22.80
L2 - 24.9	12	83	30.69
L2.5 - 22.4	12	83	36.01
L3 - 20.1	13	76	46.00
L4 - 17.4	15	66	65.04
L5 - 16.4	17	58	81.23
R1 - 53.5	15	66	11.00
R1.5 - 40.2	14	71	12.47
R2 - 29.7	13	76	16.51
R2.5 - 24.3	13	76	21.85
R3 - 20.5	12	83	32.45
R4 - 17.5	14	71	57.41
R5 - 16.1	18	55	87.91
O1 - 93.1	15	66	9.94
O2 -105.0	15	66	9.91
O3 -154.4	15	66	9.84
O4 -208.7	15	66	9.88

September 2, 2015

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(X) CURVE OVERLAP

(ù) S1 26.1  
(+) L2 24.9  
(\* R3 20.5



SIMULATED PLANT RECORD ANALYSIS  
BOARD

SURFACE TRANSPORTATION

SIMULATED BALANCE METHOD

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 364 Poles, Towers & Fixtures

ACCOUNT CONTROL INFORMATION

EARLIEST ADDITION = 1942 LATEST ADDITION = 2014  
EARLIEST BALANCE = 1947 LATEST BALANCE = 2014  
EARLIEST RETIREMENT = 1947 LATEST RETIREMENT = 2014 INPUT = ADD & RET

SIMULATED PLANT RECORD ANALYSIS  
BOARD

SURFACE TRANSPORTATION

SIMULATED BALANCE METHOD

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 364 Poles, Towers & Fixtures

ANALYSIS BAND = 1947 THRU 2014 INCREMENT = 1

DISP MEAN SSD IV REI  
S0 30.0 YRS. 0.5749E+14 115 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26810702.	1997	13272334.	1980	5946090.	1963	1259369.
2013	25845595.	1996	12727881.	1979	5556247.	1962	1225192.
2012	24936895.	1995	11980637.	1978	5111147.	1961	1178063.
2011	23969656.	1994	11407653.	1977	4510971.	1960	1149896.
2010	23270838.	1993	10995664.	1976	4060660.	1959	1087909.
2009	22360562.	1992	10586811.	1975	3527120.	1958	1076388.
2008	21454592.	1991	10321778.	1974	3117611.	1957	1002195.
2007	20588574.	1990	9906299.	1973	2708534.	1956	978748.
2006	19747632.	1989	9487669.	1972	2335363.	1955	940360.
2005	18749337.	1988	9166899.	1971	2213693.	1954	895328.
2004	18027117.	1987	8807552.	1970	2054111.	1953	852699.
2003	17307395.	1986	8457463.	1969	1955670.	1952	839782.
2002	16582739.	1985	7985310.	1968	1605038.	1951	650379.
2001	15731702.	1984	7576172.	1967	1501548.	1950	515334.
2000	15139710.	1983	7146403.	1966	1459530.	1949	493288.
1999	14549476.	1982	6778404.	1965	1319729.	1948	198592.
1998	13824797.	1981	6386432.	1964	1300883.	1947	121032.

DISP MEAN SSD IV REI  
S1 28.2 YRS. 0.6843E+14 126 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26670937.	1997	13435770.	1980	6013632.	1963	1307937.
2013	25728833.	1996	12898214.	1979	5615221.	1962	1272007.
2012	24843396.	1995	12156423.	1978	5163155.	1961	1222563.
2011	23899513.	1994	11586989.	1977	4557892.	1960	1191564.
2010	23223505.	1993	11176269.	1976	4104186.	1959	1126303.
2009	22335646.	1992	10766329.	1975	3568872.	1958	1111115.
2008	21451659.	1991	10497893.	1974	3158856.	1957	1032995.
2007	20606559.	1990	10077075.	1973	2750279.	1956	1005393.
2006	19785487.	1989	9651375.	1972	2378218.	1955	962771.
2005	18806159.	1988	9321909.	1971	2257765.	1954	913554.
2004	18101622.	1987	8952576.	1970	2099444.	1953	866936.
2003	17398353.	1986	8591597.	1969	2002326.	1952	850419.
2002	16689125.	1985	8108075.	1968	1653186.	1951	658111.

2001	15852481.	1984	7687325.	1967	1550883.	1950	520797.
2000	15273337.	1983	7245928.	1966	1509541.	1949	497044.
1999	14694462.	1982	6866544.	1965	1369912.	1948	201387.
1998	13979794.	1981	6463786.	1964	1350589.	1947	123194.

DISP	MEAN	SSD	IV	REI
S2	27.3 YRS.	0.7935E+14	135	100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26575061.	1997	13640815.	1980	6037373.	1963	1351224.
2013	25636894.	1996	13107442.	1979	5636233.	1962	1311776.
2012	24758731.	1995	12365628.	1978	5183531.	1961	1258386.
2011	23825588.	1994	11792101.	1977	4579359.	1960	1223158.
2010	23163767.	1993	11373576.	1976	4128092.	1959	1153544.
2009	22293368.	1992	10952615.	1975	3596141.	1958	1134051.
2008	21429764.	1991	10670522.	1974	3190028.	1957	1051812.
2007	20607487.	1990	10234090.	1973	2785527.	1956	1020412.
2006	19811039.	1989	9791456.	1972	2417413.	1955	974417.
2005	18857407.	1988	9444406.	1971	2300540.	1954	922336.
2004	18178873.	1987	9057542.	1970	2145270.	1953	873384.
2003	17501098.	1986	8679662.	1969	2050494.	1952	855067.
2002	16816039.	1985	8180409.	1968	1702830.	1951	661424.
2001	16001476.	1984	7745551.	1967	1601064.	1950	523142.
2000	15441651.	1983	7292037.	1966	1559289.	1949	498708.
1999	14878823.	1982	6902775.	1965	1418309.	1948	202554.
1998	14176499.	1981	6492563.	1964	1396793.	1947	123969.

DISP	MEAN	SSD	IV	REI
S3	26.6 YRS.	0.8908E+14	143	100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26431062.	1997	13806880.	1980	6018784.	1963	1381455.
2013	25483494.	1996	13280816.	1979	5620009.	1962	1337760.
2012	24600205.	1995	12540408.	1978	5171838.	1961	1280149.
2011	23666961.	1994	11962677.	1977	4573848.	1960	1240926.
2010	23010591.	1993	11534837.	1976	4129839.	1959	1167700.
2009	22151395.	1992	11100233.	1975	3605663.	1958	1145056.
2008	21304616.	1991	10801098.	1974	3207331.	1957	1060172.
2007	20504348.	1990	10345238.	1973	2810122.	1956	1026632.
2006	19734373.	1989	9881870.	1972	2448417.	1955	978956.
2005	18810681.	1988	9513883.	1971	2336757.	1954	925589.
2004	18164352.	1987	9106856.	1970	2185298.	1953	875675.
2003	17519739.	1986	8710490.	1969	2092827.	1952	856646.
2002	16867414.	1985	8195147.	1968	1745967.	1951	662481.
2001	16083810.	1984	7747100.	1967	1643589.	1950	523823.
2000	15551905.	1983	7283644.	1966	1599983.	1949	499122.
1999	15012872.	1982	6887796.	1965	1456173.	1948	202783.
1998	14329349.	1981	6474266.	1964	1431072.	1947	124083.

DISP MEAN SSD IV REI  
 S4 26.2 YRS. 0.9926E+14 151 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26369071.	1997	14014540.	1980	5979731.	1963	1403746.
2013	25397217.	1996	13492181.	1979	5585809.	1962	1355386.
2012	24493870.	1995	12747772.	1978	5146204.	1961	1293806.
2011	23546359.	1994	12159330.	1977	4559600.	1960	1251302.
2010	22882809.	1993	11715403.	1976	4128702.	1959	1175417.
2009	22024418.	1992	11260707.	1975	3618118.	1958	1150660.
2008	21186920.	1991	10938815.	1974	3232629.	1957	1064130.
2007	20404348.	1990	10458702.	1973	2846436.	1956	1029339.
2006	19659888.	1989	9970644.	1972	2493149.	1955	980737.
2005	18768381.	1988	9578378.	1971	2386895.	1954	926709.
2004	18159206.	1987	9148195.	1970	2237725.	1953	876344.
2003	17554574.	1986	8730448.	1969	2144732.	1952	857022.
2002	16942645.	1985	8196115.	1968	1795054.	1951	662677.
2001	16197417.	1984	7732089.	1967	1688198.	1950	523916.
2000	15699572.	1983	7256238.	1966	1639130.	1949	499161.
1999	15188339.	1982	6852065.	1965	1489485.	1948	202798.
1998	14525046.	1981	6434624.	1964	1458658.	1947	124087.

DISP MEAN SSD IV REI  
 S5 25.8 YRS. 0.1064E+15 157 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26225671.	1997	14115335.	1980	5919347.	1963	1413091.
2013	25236037.	1996	13594492.	1979	5524324.	1962	1362727.
2012	24319370.	1995	12845763.	1978	5089999.	1961	1299210.
2011	23362472.	1994	12249782.	1977	4515384.	1960	1254989.
2010	22692452.	1993	11796648.	1976	4101895.	1959	1177735.
2009	21829890.	1992	11331616.	1975	3611367.	1958	1151998.
2008	20990938.	1991	10998310.	1974	3245064.	1957	1064838.
2007	20211328.	1990	10505785.	1973	2873966.	1956	1029680.
2006	19476745.	1989	10004659.	1972	2529643.	1955	980885.
2005	18604398.	1988	9599294.	1971	2425966.	1954	926766.
2004	18024787.	1987	9156598.	1970	2274358.	1953	876363.
2003	17459108.	1986	8727211.	1969	2176090.	1952	857027.
2002	16892155.	1985	8181978.	1968	1820459.	1951	662678.
2001	16192817.	1984	7707390.	1967	1708435.	1950	523916.
2000	15736328.	1983	7221028.	1966	1655487.	1949	499161.
1999	15257535.	1982	6806638.	1965	1503045.	1948	202798.
1998	14615510.	1981	6380239.	1964	1470017.	1947	124087.

DISP MEAN SSD IV REI  
 S6 25.9 YRS. 0.1108E+15 160 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26314185.	1997	14273037.	1980	5902965.	1963	1419538.
2013	25313212.	1996	13723841.	1979	5501248.	1962	1366314.
2012	24392346.	1995	12954063.	1978	5067269.	1961	1300908.
2011	23437237.	1994	12347248.	1977	4502588.	1960	1255678.
2010	22770531.	1993	11888292.	1976	4108049.	1959	1177974.
2009	21907457.	1992	11415574.	1975	3641239.	1958	1152068.
2008	21061738.	1991	11069876.	1974	3296266.	1957	1064855.
2007	20271373.	1990	10561814.	1973	2936499.	1956	1029683.
2006	19527988.	1989	10045227.	1972	2589645.	1955	980885.
2005	18655721.	1988	9627131.	1971	2472216.	1954	926766.
2004	18089527.	1987	9175611.	1970	2303190.	1953	876363.
2003	17550231.	1986	8741036.	1969	2191532.	1952	857027.
2002	17017268.	1985	8193088.	1968	1830069.	1951	662678.
2001	16351567.	1984	7716592.	1967	1718177.	1950	523916.
2000	15919995.	1983	7227389.	1966	1667075.	1949	499161.
1999	15450189.	1982	6807739.	1965	1514830.	1948	202798.
1998	14798067.	1981	6373219.	1964	1479670.	1947	124087.

DISP MEAN SSD IV REI  
 SQ 28.2 YRS. 0.1333E+15 175 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	27381638.	1997	14699354.	1980	5968722.	1963	1420598.
2013	26453430.	1996	14280859.	1979	5692912.	1962	1366544.
2012	25533185.	1995	13423682.	1978	5313847.	1961	1300944.
2011	24589281.	1994	12689950.	1977	4672897.	1960	1255682.
2010	23865513.	1993	12224952.	1976	4459840.	1959	1177974.
2009	22967632.	1992	11651910.	1975	3951697.	1958	1152068.
2008	22135474.	1991	11254865.	1974	3512341.	1957	1064855.
2007	21305004.	1990	10709571.	1973	3073759.	1956	1029683.
2006	20566798.	1989	10183378.	1972	2660293.	1955	980885.
2005	19838156.	1988	9745069.	1971	2501276.	1954	926766.
2004	19247364.	1987	9310853.	1970	2307081.	1953	876363.
2003	18754010.	1986	8844163.	1969	2267791.	1952	857027.
2002	18143781.	1985	8326652.	1968	1887697.	1951	662678.
2001	17418891.	1984	7829666.	1967	1756710.	1950	523916.
2000	16928918.	1983	7334863.	1966	1688884.	1949	499161.
1999	16201288.	1982	6915963.	1965	1524934.	1948	202798.
1998	15389082.	1981	6477927.	1964	1483392.	1947	124087.

DISP MEAN SSD IV REI  
 L0 35.0 YRS. 0.4776E+14 105 93.52

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	27039331.	1997	13167695.	1980	5867288.	1963	1221297.
2013	26041684.	1996	12614590.	1979	5485142.	1962	1188544.
2012	25103059.	1995	11859560.	1978	5047235.	1961	1143131.
2011	24108318.	1994	11279756.	1977	4453172.	1960	1116959.
2010	23384355.	1993	10862515.	1976	4007860.	1959	1057183.
2009	22450927.	1992	10450175.	1975	3478144.	1958	1048127.
2008	21523233.	1991	10183628.	1974	3071370.	1957	976568.
2007	20636373.	1990	9768367.	1973	2664082.	1956	955905.
2006	19775453.	1989	9351354.	1972	2291888.	1955	920481.
2005	18757817.	1988	9033668.	1971	2170953.	1954	878513.
2004	18017223.	1987	8678790.	1970	2012128.	1953	838974.
2003	17280486.	1986	8334323.	1969	1914470.	1952	829184.
2002	16540115.	1985	7868537.	1968	1564177.	1951	642524.
2001	15674281.	1984	7466317.	1967	1460787.	1950	509665.
2000	15068569.	1983	7043912.	1966	1419121.	1949	489507.
1999	14466053.	1982	6683665.	1965	1279808.	1948	195982.
1998	13730175.	1981	6299704.	1964	1261702.	1947	118974.

DISP MEAN SSD IV REI  
 L1 31.0 YRS. 0.5827E+14 116 99.08

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26850853.	1997	13274406.	1980	5953654.	1963	1266797.
2013	25878119.	1996	12734990.	1979	5558962.	1962	1234016.
2012	24962597.	1995	11993314.	1978	5109745.	1961	1187870.
2011	23989255.	1994	11425820.	1977	4506321.	1960	1160249.
2010	23284748.	1993	11018942.	1976	4053578.	1959	1098367.
2009	22369471.	1992	10614588.	1975	3518493.	1958	1086523.
2008	21459132.	1991	10353251.	1974	3108162.	1957	1011638.
2007	20588993.	1990	9940629.	1973	2698945.	1956	987137.
2006	19744404.	1989	9523716.	1972	2326104.	1955	947476.
2005	18743110.	1988	9203400.	1971	2205105.	1954	901044.
2004	18018468.	1987	8843344.	1970	2046708.	1953	857006.
2003	17297280.	1986	8491477.	1969	1950023.	1952	842876.
2002	16572324.	1985	8016582.	1968	1601624.	1951	652586.
2001	15722051.	1984	7603750.	1967	1500426.	1950	516840.
2000	15131555.	1983	7169498.	1966	1460780.	1949	494375.
1999	14543828.	1982	6796445.	1965	1323311.	1948	199561.
1998	13822633.	1981	6399201.	1964	1306536.	1947	121808.

DISP MEAN SSD IV REI  
 L2 28.9 YRS. 0.7021E+14 127 99.97

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26750013.	1997	13463306.	1980	6007631.	1963	1320995.
2013	25787176.	1996	12937890.	1979	5603937.	1962	1284850.
2012	24881542.	1995	12206903.	1978	5147958.	1961	1234589.
2011	23918560.	1994	11646460.	1977	4540198.	1960	1202367.
2010	23225090.	1993	11242487.	1976	4085402.	1959	1135666.
2009	22321939.	1992	10836768.	1975	3550253.	1958	1119005.
2008	21425294.	1991	10569847.	1974	3141548.	1957	1039504.
2007	20570648.	1990	10147842.	1973	2735203.	1956	1010685.
2006	19743430.	1989	9718425.	1972	2366114.	1955	966981.
2005	18761548.	1988	9383026.	1971	2249148.	1954	916825.
2004	18058058.	1987	9006059.	1970	2094628.	1953	869389.
2003	17359194.	1986	8636271.	1969	2001408.	1952	852193.
2002	16657260.	1985	8143353.	1968	1656014.	1951	659351.
2001	15830248.	1984	7713087.	1967	1557102.	1950	521644.
2000	15262465.	1983	7262520.	1966	1518584.	1949	497625.
1999	14696091.	1982	6874628.	1965	1381096.	1948	201782.
1998	13994445.	1981	6464287.	1964	1363107.	1947	123454.

DISP MEAN SSD IV REI  
 L3 27.4 YRS. 0.8115E+14 137 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26601553.	1997	13646515.	1980	6013646.	1963	1361177.
2013	25642190.	1996	13131378.	1979	5607886.	1962	1320347.
2012	24741515.	1995	12404899.	1978	5152506.	1961	1265568.
2011	23785772.	1994	11843134.	1977	4547661.	1960	1229068.
2010	23102553.	1993	11432517.	1976	4097679.	1959	1158342.
2009	22213100.	1992	11015591.	1975	3568777.	1958	1137885.
2008	21333853.	1991	10733940.	1974	3167165.	1957	1054821.
2007	20500144.	1990	10294813.	1973	2768180.	1956	1022715.
2006	19697002.	1989	9846898.	1972	2406122.	1955	976115.
2005	18741724.	1988	9492583.	1971	2295322.	1954	923536.
2004	18066602.	1987	9096993.	1970	2145622.	1953	874194.
2003	17397081.	1986	8709455.	1969	2055547.	1952	855586.
2002	16724641.	1985	8200069.	1968	1711419.	1951	661739.
2001	15926352.	1984	7755009.	1967	1611889.	1950	523332.
2000	15385524.	1983	7291665.	1966	1571161.	1949	498823.
1999	14843310.	1982	6893352.	1965	1430197.	1948	202624.
1998	14162012.	1981	6475239.	1964	1407933.	1947	124013.

DISP MEAN SSD IV REI  
 L4 26.5 YRS. 0.9236E+14 146 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26420417.	1997	13866889.	1980	5993646.	1963	1390425.
2013	25458419.	1996	13347013.	1979	5591791.	1962	1345266.
2012	24561779.	1995	12608674.	1978	5143308.	1961	1286139.
2011	23616668.	1994	12030194.	1977	4548171.	1960	1245491.
2010	22950124.	1993	11600021.	1976	4110132.	1959	1171031.
2009	22082573.	1992	11162040.	1975	3594354.	1958	1147402.
2008	21229461.	1991	10858358.	1974	3205452.	1957	1061782.
2007	20425351.	1990	10396571.	1973	2817150.	1956	1027722.
2006	19654902.	1989	9926028.	1972	2462500.	1955	979692.
2005	18735182.	1988	9549902.	1971	2355135.	1954	926089.
2004	18098146.	1987	9134215.	1970	2205065.	1953	876017.
2003	17468240.	1986	8729101.	1969	2111793.	1952	856874.
2002	16835236.	1985	8205196.	1968	1762988.	1951	662624.
2001	16073766.	1984	7748910.	1967	1658450.	1950	523903.
2000	15564310.	1983	7277570.	1966	1613001.	1949	499159.
1999	15045548.	1982	6874355.	1965	1467755.	1948	202798.
1998	14378202.	1981	6454286.	1964	1441385.	1947	124087.

DISP MEAN SSD IV REI  
 L5 26.1 YRS. 0.1014E+15 153 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26335014.	1997	14046626.	1980	5957358.	1963	1408210.
2013	25356192.	1996	13524250.	1979	5557935.	1962	1358582.
2012	24447683.	1995	12778315.	1978	5115936.	1961	1295917.
2011	23496334.	1994	12188968.	1977	4531451.	1960	1252667.
2010	22829296.	1993	11745053.	1976	4107425.	1959	1176318.
2009	21966557.	1992	11290045.	1975	3607151.	1958	1151268.
2008	21123123.	1991	10966205.	1974	3232912.	1957	1064532.
2007	20333687.	1990	10482245.	1973	2856099.	1956	1029583.
2006	19583548.	1989	9989194.	1972	2508150.	1955	980865.
2005	18690409.	1988	9591903.	1971	2402700.	1954	926764.
2004	18086069.	1987	9157448.	1970	2251097.	1953	876363.
2003	17493639.	1986	8736314.	1969	2154606.	1952	857027.
2002	16900150.	1985	8199130.	1968	1802260.	1951	662678.
2001	16176574.	1984	7732091.	1967	1694286.	1950	523916.
2000	15699768.	1983	7252313.	1966	1645142.	1949	499161.
1999	15205427.	1982	6842893.	1965	1495520.	1948	202798.
1998	14552770.	1981	6419005.	1964	1464188.	1947	124087.



DISP MEAN SSD IV REI  
R1 30.1 YRS. 0.5471E+14 112 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26847335.	1997	13283870.	1980	5909132.	1963	1250326.
2013	25885874.	1996	12731833.	1979	5526134.	1962	1214110.
2012	24980756.	1995	11976366.	1978	5088528.	1961	1165212.
2011	24016769.	1994	11393978.	1977	4495452.	1960	1135606.
2010	23321126.	1993	10972524.	1976	4051331.	1959	1072498.
2009	22414163.	1992	10554793.	1975	3522980.	1958	1060255.
2008	21510693.	1991	10282101.	1974	3117286.	1957	985758.
2007	20645931.	1990	9860465.	1973	2710749.	1956	962351.
2006	19805147.	1989	9436613.	1972	2338533.	1955	924546.
2005	18805331.	1988	9111918.	1971	2216912.	1954	880590.
2004	18079937.	1987	8750342.	1970	2057284.	1953	839535.
2003	17356489.	1986	8399717.	1969	1958778.	1952	828896.
2002	16627598.	1985	7928367.	1968	1607303.	1951	642004.
2001	15771164.	1984	7521024.	1967	1501753.	1950	509018.
2000	15172638.	1983	7094123.	1966	1457600.	1949	489128.
1999	14575847.	1982	6730108.	1965	1315478.	1948	196081.
1998	13844067.	1981	6343366.	1964	1294111.	1947	119001.

DISP MEAN SSD IV REI  
R2 28.1 YRS. 0.6796E+14 125 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26611100.	1997	13490509.	1980	5988541.	1963	1303515.
2013	25681601.	1996	12938941.	1979	5599254.	1962	1264916.
2012	24810888.	1995	12181895.	1978	5156059.	1961	1213232.
2011	23883264.	1994	11596458.	1977	4558644.	1960	1180488.
2010	23224683.	1993	11170059.	1976	4111461.	1959	1113968.
2009	22354753.	1992	10745554.	1975	3581166.	1958	1098069.
2008	21488075.	1991	10464412.	1974	3174583.	1957	1019747.
2007	20659005.	1990	10033072.	1973	2767920.	1956	992435.
2006	19852083.	1989	9599101.	1972	2396293.	1955	950607.
2005	18884123.	1988	9263928.	1971	2275291.	1954	902611.
2004	18187901.	1987	8891655.	1970	2115810.	1953	857559.
2003	17489860.	1986	8530365.	1969	2016991.	1952	842918.
2002	16782456.	1985	8048832.	1968	1665300.	1951	652438.
2001	15943913.	1984	7632044.	1967	1559729.	1950	516619.
2000	15359450.	1983	7196356.	1966	1514999.	1949	494245.
1999	14772523.	1982	6824168.	1965	1371919.	1948	199494.
1998	14047230.	1981	6429748.	1964	1349214.	1947	121645.

DISP MEAN SSD IV REI  
 R3 27.1 YRS. 0.8254E+14 138 100.00

SIMULATED BALANCES

YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES

2014	26516121.	1997	13770853.	1980	6029335.	1963	1352079.
2013	25581617.	1996	13220261.	1979	5638692.	1962	1310072.
2012	24712449.	1995	12458821.	1978	5195768.	1961	1254751.
2011	23793339.	1994	11864233.	1977	4600029.	1960	1218198.
2010	23150121.	1993	11424258.	1976	4155450.	1959	1147826.
2009	22301991.	1992	10982479.	1975	3628240.	1958	1128063.
2008	21463044.	1991	10681096.	1974	3224882.	1957	1045942.
2007	20666447.	1990	10227601.	1973	2821249.	1956	1014961.
2006	19895187.	1989	9770688.	1972	2452330.	1955	969593.
2005	18964738.	1988	9412555.	1971	2333305.	1954	918244.
2004	18306134.	1987	9018013.	1970	2174826.	1953	870057.
2003	17644073.	1986	8636010.	1969	2076110.	1952	852484.
2002	16969751.	1985	8136119.	1968	1724026.	1951	659482.
2001	16160534.	1984	7703879.	1967	1617614.	1950	521705.
2000	15600683.	1983	7255950.	1966	1571317.	1949	497688.
1999	15032690.	1982	6874661.	1965	1426128.	1948	201819.
1998	14320480.	1981	6474058.	1964	1400843.	1947	123408.

DISP MEAN SSD IV REI  
 R4 26.4 YRS. 0.9415E+14 147 100.00

SIMULATED BALANCES

YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES

2014	26372306.	1997	13943168.	1980	6001331.	1963	1384832.
2013	25416744.	1996	13403504.	1979	5614064.	1962	1339302.
2012	24530364.	1995	12647745.	1978	5178485.	1961	1280434.
2011	23599432.	1994	12053525.	1977	4592699.	1960	1240422.
2010	22951069.	1993	11608370.	1976	4159023.	1959	1166756.
2009	22105695.	1992	11156068.	1975	3642090.	1958	1143926.
2008	21278339.	1991	10839544.	1974	3247358.	1957	1059022.
2007	20502502.	1990	10367343.	1973	2850374.	1956	1025561.
2006	19760777.	1989	9889140.	1972	2486289.	1955	978014.
2005	18867326.	1988	9508032.	1971	2370666.	1954	924797.
2004	18250757.	1987	9089832.	1970	2214721.	1953	875036.
2003	17632742.	1986	8684481.	1969	2117823.	1952	856150.
2002	17001504.	1985	8162721.	1968	1766709.	1951	662110.
2001	16231859.	1984	7711185.	1967	1660238.	1950	523555.
2000	15706297.	1983	7247459.	1966	1612697.	1949	498938.
1999	15166532.	1982	6854690.	1965	1465234.	1948	202662.
1998	14476446.	1981	6447517.	1964	1436959.	1947	124005.

DISP MEAN SSD IV REI  
R5 26.0 YRS. 0.1043E+15 155 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26317486.	1997	14117451.	1980	5941638.	1963	1409384.
2013	25336505.	1996	13588360.	1979	5552947.	1962	1359411.
2012	24426452.	1995	12835762.	1978	5124340.	1961	1296497.
2011	23473556.	1994	12238108.	1977	4552735.	1960	1252982.
2010	22805294.	1993	11783977.	1976	4137665.	1959	1176403.
2009	21943417.	1992	11318217.	1975	3640554.	1958	1151209.
2008	21105816.	1991	10984780.	1974	3263853.	1957	1064423.
2007	20329206.	1990	10493287.	1973	2880919.	1956	1029488.
2006	19598892.	1989	9994543.	1972	2526380.	1955	980809.
2005	18729966.	1988	9592717.	1971	2416242.	1954	926741.
2004	18150117.	1987	9154096.	1970	2262331.	1953	876357.
2003	17578315.	1986	8728545.	1969	2164893.	1952	857026.
2002	16998211.	1985	8186573.	1968	1811573.	1951	662678.
2001	16278999.	1984	7714666.	1967	1701872.	1950	523916.
2000	15797973.	1983	7230503.	1966	1650498.	1949	499161.
1999	15294496.	1982	6818885.	1965	1498826.	1948	202798.
1998	14631959.	1981	6396864.	1964	1466092.	1947	124087.

DISP MEAN SSD IV REI  
O1 34.8 YRS. 0.4331E+14 100 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	27171084.	1997	13164203.	1980	5811632.	1963	1202345.
2013	26163159.	1996	12603790.	1979	5436219.	1962	1168325.
2012	25214305.	1995	11840959.	1978	5006037.	1961	1121898.
2011	24209297.	1994	11251869.	1977	4419469.	1960	1095013.
2010	23476943.	1993	10825107.	1976	3980740.	1959	1034798.
2009	22536489.	1992	10403771.	1975	3456697.	1958	1025640.
2008	21601910.	1991	10129457.	1974	3054177.	1957	954362.
2007	20708273.	1990	9708020.	1973	2649891.	1956	934245.
2006	19840854.	1989	9285577.	1972	2278951.	1955	899899.
2005	18816071.	1988	8963626.	1971	2158346.	1954	859492.
2004	18067492.	1987	8606167.	1970	2000023.	1953	822050.
2003	17323244.	1986	8260815.	1969	1903109.	1952	815173.
2002	16575713.	1985	7795448.	1968	1552884.	1951	631747.
2001	15702157.	1984	7394475.	1967	1448093.	1950	501515.
2000	15088133.	1983	6974327.	1966	1405033.	1949	484113.
1999	14478033.	1982	6617453.	1965	1264184.	1948	192796.
1998	13734573.	1981	6238249.	1964	1244265.	1947	116435.

DISP MEAN SSD IV REI  
 O2 38.4 YRS. 0.4213E+14 98 88.35

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	27124765.	1997	13111441.	1980	5794258.	1963	1198572.
2013	26113765.	1996	12552903.	1979	5420433.	1962	1164903.
2012	25162572.	1995	11792041.	1978	4991726.	1961	1118812.
2011	24155803.	1994	11204992.	1977	4406496.	1960	1092248.
2010	23421061.	1993	10780347.	1976	3968966.	1959	1032339.
2009	22478771.	1992	10361200.	1975	3445991.	1958	1023474.
2008	21542826.	1991	10089138.	1974	3044417.	1957	952474.
2007	20648249.	1990	9669990.	1973	2640966.	1956	932620.
2006	19780282.	1989	9249836.	1972	2270759.	1955	898525.
2005	18755285.	1988	8930164.	1971	2150819.	1954	858356.
2004	18006812.	1987	8574965.	1970	1993117.	1953	821137.
2003	17262983.	1986	8231833.	1969	1896782.	1952	814472.
2002	16516154.	1985	7768621.	1968	1547074.	1951	631231.
2001	15643540.	1984	7369720.	1967	1442740.	1950	501141.
2000	15030680.	1983	6951557.	1966	1400112.	1949	483862.
1999	14421973.	1982	6596579.	1965	1259667.	1948	192628.
1998	13680083.	1981	6219177.	1964	1240127.	1947	116306.

DISP MEAN SSD IV REI  
 O3 51.4 YRS. 0.3807E+14 93 75.94

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	27219197.	1997	13043775.	1980	5752118.	1963	1182395.
2013	26188581.	1996	12483480.	1979	5381516.	1962	1149721.
2012	25219422.	1995	11721283.	1978	4955913.	1961	1104673.
2011	24196233.	1994	11133213.	1977	4373468.	1960	1079195.
2010	23446683.	1993	10708055.	1976	3938357.	1959	1020395.
2009	22491134.	1992	10288964.	1975	3417449.	1958	1012665.
2008	21543216.	1991	10017581.	1974	3017579.	1957	942810.
2007	20637871.	1990	9599681.	1973	2615534.	1956	924094.
2006	19760281.	1989	9181168.	1972	2246429.	1955	891151.
2005	18726594.	1988	8863550.	1971	2127476.	1954	852125.
2004	17970335.	1987	8510812.	1970	1970794.	1953	816032.
2003	17219738.	1986	8170479.	1969	1875508.	1952	810497.
2002	16467053.	1985	7710268.	1968	1526717.	1951	628273.
2001	15589292.	1984	7314474.	1967	1423137.	1950	498986.
2000	14971999.	1983	6899509.	1966	1381322.	1949	482416.
1999	14359679.	1982	6547805.	1965	1241706.	1948	191671.
1998	13614814.	1981	6173738.	1964	1223016.	1947	115565.

DISP MEAN SSD IV REI  
 O4 66.7 YRS. 0.3626E+14 91 70.08

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	27264524.	1997	13013149.	1980	5733670.	1963	1174720.
2013	26225461.	1996	12451816.	1979	5364654.	1962	1142436.
2012	25248487.	1995	11688802.	1978	4940561.	1961	1097817.
2011	24218068.	1994	11100091.	1977	4359443.	1960	1072804.
2010	23461915.	1993	10674568.	1976	3925452.	1959	1014494.
2009	22500374.	1992	10255421.	1975	3405463.	1958	1007281.
2008	21546950.	1991	9984324.	1974	3006313.	1957	937961.
2007	20636562.	1990	9567017.	1973	2604820.	1956	919787.
2006	19754378.	1989	9149313.	1972	2236101.	1955	887405.
2005	18716453.	1988	8832728.	1971	2117471.	1954	848944.
2004	17956319.	1987	8481240.	1970	1961126.	1953	813417.
2003	17202285.	1986	8142335.	1969	1866196.	1952	808457.
2002	16446566.	1985	7683655.	1968	1517692.	1951	626753.
2001	15566085.	1984	7289443.	1967	1414320.	1950	497877.
2000	14946404.	1983	6876098.	1966	1372751.	1949	481672.
1999	14332097.	1982	6526044.	1965	1233400.	1948	191178.
1998	13585562.	1981	6153650.	1964	1214997.	1947	115182.

DISP MEAN SSD IV REI  
 S0.5 29.1 YRS. 0.6266E+14 120 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26771619.	1997	13363825.	1980	5983116.	1963	1283701.
2013	25817674.	1996	12821853.	1979	5588971.	1962	1248503.
2012	24920124.	1995	12076438.	1978	5140341.	1961	1200107.
2011	23963913.	1994	11504407.	1977	4537532.	1960	1170436.
2010	23275522.	1993	11092323.	1976	4085405.	1959	1106754.
2009	22375151.	1992	10682282.	1975	3550810.	1958	1093366.
2008	21478721.	1991	10414994.	1974	3140856.	1957	1017202.
2007	20621400.	1990	9996383.	1973	2731798.	1956	991689.
2006	19788464.	1989	9573825.	1972	2358942.	1955	951216.
2005	18797874.	1988	9248401.	1971	2237626.	1954	904141.
2004	18082895.	1987	8883818.	1970	2078418.	1953	859566.
2003	17369957.	1986	8528107.	1969	1980385.	1952	844913.
2002	16651704.	1985	8050139.	1968	1630234.	1951	654104.
2001	15806614.	1984	7635107.	1967	1527083.	1950	517963.
2000	15219757.	1983	7199476.	1966	1485167.	1949	495097.
1999	14633951.	1982	6825750.	1965	1345230.	1948	199936.
1998	13913124.	1981	6428384.	1964	1325951.	1947	122069.

DISP MEAN SSD IV REI  
 S1.5 27.6 YRS. 0.7370E+14 130 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26534684.	1997	13503938.	1980	6016694.	1963	1327619.
2013	25599042.	1996	12970246.	1979	5617762.	1962	1290170.
2012	24721680.	1995	12230174.	1978	5166111.	1961	1238974.
2011	23787477.	1994	11660415.	1977	4562036.	1960	1206076.
2010	23122750.	1993	11247496.	1976	4110120.	1959	1138845.
2009	22247662.	1992	10833745.	1975	3576976.	1958	1121691.
2008	21377723.	1991	10560179.	1974	3169353.	1957	1041684.
2007	20547718.	1990	10133230.	1973	2763203.	1956	1012338.
2006	19742415.	1989	9700710.	1972	2393465.	1955	968159.
2005	18779157.	1988	9364076.	1971	2275124.	1954	917622.
2004	18090614.	1987	8987548.	1970	2118624.	1953	869924.
2003	17402817.	1986	8619619.	1969	2022949.	1952	852575.
2002	16708155.	1985	8129675.	1968	1674813.	1951	659648.
2001	15884825.	1984	7703219.	1967	1573035.	1950	521886.
2000	15317444.	1983	7257022.	1966	1531721.	1949	497818.
1999	14748579.	1982	6873862.	1965	1391673.	1948	201929.
1998	14041968.	1981	6468424.	1964	1371491.	1947	123555.

DISP MEAN SSD IV REI  
 S2.5 26.9 YRS. 0.8407E+14 139 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26482100.	1997	13717503.	1980	6026655.	1963	1365683.
2013	25540628.	1996	13187630.	1979	5627053.	1962	1324184.
2012	24661392.	1995	12446369.	1978	5176885.	1961	1268759.
2011	23729753.	1994	11870631.	1977	4575999.	1960	1231618.
2010	23072227.	1993	11447406.	1976	4128495.	1959	1160281.
2009	22208964.	1992	11019667.	1975	3600493.	1958	1139279.
2008	21355220.	1991	10729190.	1974	3198277.	1957	1055779.
2007	20545295.	1990	10283282.	1973	2797394.	1956	1023365.
2006	19763264.	1989	9830612.	1972	2432425.	1955	976568.
2005	18825601.	1988	9473515.	1971	2318084.	1954	923874.
2004	18163990.	1987	9077066.	1970	2164646.	1953	874468.
2003	17503431.	1986	8690487.	1969	2070954.	1952	855814.
2002	16835181.	1985	8183764.	1968	1723640.	1951	661922.
2001	16036363.	1984	7742889.	1967	1621542.	1950	523462.
2000	15490639.	1983	7284983.	1966	1578853.	1949	498903.
1999	14939723.	1982	6892963.	1965	1436476.	1948	202662.
1998	14246715.	1981	6481563.	1964	1413207.	1947	124022.

DISP      MEAN          SSD          IV      REI  
 L0.5    33.0 YRS.    0.5277E+14    110    96.73

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	27012143.	1997	13249463.	1980	5915153.	1963	1244957.
2013	26024019.	1996	12701179.	1979	5526621.	1962	1211824.
2012	25094102.	1995	11950755.	1978	5083007.	1961	1165721.
2011	24107320.	1994	11375003.	1977	4484214.	1960	1138551.
2010	23390480.	1993	10960852.	1976	4035127.	1959	1077497.
2009	22463643.	1992	10550458.	1975	3502638.	1958	1066878.
2008	21542249.	1991	10284547.	1974	3093963.	1957	993542.
2007	20661465.	1990	9868728.	1973	2685551.	1956	970905.
2006	19806508.	1989	9450011.	1972	2312834.	1955	933359.
2005	18794897.	1988	9129431.	1971	2191664.	1954	889201.
2004	18060210.	1987	8770572.	1970	2032841.	1953	847494.
2003	17329230.	1986	8421194.	1969	1935423.	1952	835635.
2002	16594571.	1985	7949814.	1968	1585770.	1951	647256.
2001	15734522.	1984	7541431.	1967	1483127.	1950	513036.
2000	15134440.	1983	7112432.	1966	1442090.	1949	491797.
1999	14537346.	1982	6745288.	1965	1303286.	1948	197660.
1998	13806818.	1981	6354346.	1964	1285428.	1947	120295.

DISP      MEAN          SSD          IV      REI  
 L1.5    29.8 YRS.    0.6398E+14    121    99.69

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26782853.	1997	13365147.	1980	5978676.	1963	1292532.
2013	25816496.	1996	12832034.	1979	5580177.	1962	1258014.
2012	24907423.	1995	12094954.	1978	5128195.	1961	1209832.
2011	23940833.	1994	11530244.	1977	4523118.	1960	1179977.
2010	23243431.	1993	11124139.	1976	4069746.	1959	1115803.
2009	22335793.	1992	10718528.	1975	3534914.	1958	1101695.
2008	21433836.	1991	10453998.	1974	3125561.	1957	1024658.
2007	20572871.	1990	10036469.	1973	2717845.	1956	998144.
2006	19738283.	1989	9613296.	1972	2346832.	1955	956594.
2005	18747829.	1988	9285654.	1971	2227719.	1954	908417.
2004	18034675.	1987	8917531.	1970	2071066.	1953	862791.
2003	17325327.	1986	8557265.	1969	1975848.	1952	847225.
2002	16612292.	1985	8074040.	1968	1628649.	1951	655742.
2001	15773809.	1984	7653266.	1967	1528286.	1950	519084.
2000	15194615.	1983	7211673.	1966	1488903.	1949	495892.
1999	14617300.	1982	6832026.	1965	1351160.	1948	200597.
1998	13905420.	1981	6429032.	1964	1333592.	1947	122577.

DISP MEAN SSD IV REI  
 L2.5 28.0 YRS. 0.7541E+14 132 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26645388.	1997	13543554.	1980	6008224.	1963	1339497.
2013	25686300.	1996	13022825.	1979	5604191.	1962	1301213.
2012	24785248.	1995	12293713.	1978	5149095.	1961	1248882.
2011	23828039.	1994	11732388.	1977	4543256.	1960	1214702.
2010	23141834.	1993	11325059.	1976	4091184.	1959	1146135.
2009	22247630.	1992	10913943.	1975	3559352.	1958	1127711.
2008	21361642.	1991	10640091.	1974	3154232.	1957	1046544.
2007	20519242.	1990	10210136.	1973	2751485.	1956	1016199.
2006	19705634.	1989	9772244.	1972	2385709.	1955	971164.
2005	18738362.	1988	9428235.	1971	2271537.	1954	919897.
2004	18050142.	1987	9042874.	1970	2119106.	1953	871597.
2003	17366757.	1986	8665128.	1969	2027133.	1952	853757.
2002	16680146.	1985	8164901.	1968	1682095.	1951	660456.
2001	15867795.	1984	7728168.	1967	1582694.	1950	522425.
2000	15313551.	1983	7272117.	1966	1542980.	1949	498178.
1999	14759099.	1982	6879923.	1965	1403780.	1948	202171.
1998	14067287.	1981	6466539.	1964	1383762.	1947	123711.

DISP MEAN SSD IV REI  
 R1.5 29.2 YRS. 0.6083E+14 118 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26815130.	1997	13411671.	1980	5959035.	1963	1277471.
2013	25868423.	1996	12857444.	1979	5572224.	1962	1239862.
2012	24978821.	1995	12099115.	1978	5131117.	1961	1189412.
2011	24030801.	1994	11513464.	1977	4535140.	1960	1158105.
2010	23350901.	1993	11088159.	1976	4088743.	1959	1093196.
2009	22459137.	1992	10665967.	1975	3558671.	1958	1079052.
2008	21570267.	1991	10388265.	1974	3151796.	1957	1002598.
2007	20719067.	1990	9961198.	1973	2744485.	1956	977211.
2006	19890577.	1989	9531845.	1972	2371877.	1955	937388.
2005	18901859.	1988	9201579.	1971	2249929.	1954	891420.
2004	18186137.	1987	8834348.	1970	2089789.	1953	848383.
2003	17470545.	1986	8478103.	1969	1990596.	1952	835775.
2002	16747701.	1985	8001331.	1968	1638534.	1951	647117.
2001	15895768.	1984	7588887.	1967	1532536.	1950	512740.
2000	15300189.	1983	7157150.	1966	1487716.	1949	491633.
1999	14704667.	1982	6788533.	1965	1344778.	1948	197752.
1998	13972926.	1981	6397387.	1964	1322457.	1947	120294.



DISP	MEAN	SSD	IV	REI
R2.5	27.4 YRS.	0.7495E+14	131	100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26504457.	1997	13611200.	1980	6004089.	1963	1326658.
2013	25576057.	1996	13060560.	1979	5614764.	1962	1286474.
2012	24709845.	1995	12301771.	1978	5172209.	1961	1233088.
2011	23790251.	1994	11712248.	1977	4576037.	1960	1198553.
2010	23143091.	1993	11279644.	1976	4130461.	1959	1130214.
2009	22287645.	1992	10847189.	1975	3601939.	1958	1112478.
2008	21438187.	1991	10556692.	1974	3197170.	1957	1032351.
2007	20628406.	1990	10115131.	1973	2792178.	1956	1003287.
2006	19842036.	1989	9670611.	1972	2422040.	1955	959762.
2005	18895215.	1988	9324954.	1971	2302162.	1954	910160.
2004	18219882.	1987	8942619.	1970	2143307.	1953	863599.
2003	17541629.	1986	8572110.	1969	2044666.	1952	847544.
2002	16852287.	1985	8082563.	1968	1692905.	1951	655846.
2001	16029698.	1984	7659234.	1967	1587032.	1950	519081.
2000	15458588.	1983	7218561.	1966	1541647.	1949	495911.
1999	14881968.	1982	6842854.	1965	1397635.	1948	200619.
1998	14163871.	1981	6446273.	1964	1373763.	1947	122499.
S0	30.0 YRS.	0.5749E+14	115	8	100.00		
S0.5	29.1 YRS.	0.6266E+14	120	8	100.00		
L0	35.0 YRS.	0.4776E+14	105	9	93.52		
L0.5	33.0 YRS.	0.5277E+14	110	9	96.73		
R1	30.1 YRS.	0.5471E+14	112	8	100.00		
R1.5	29.2 YRS.	0.6083E+14	118	8	100.00		

SIMULATED PLANT RECORD ANALYSIS  
BOARD  
SIMULATED BALANCE METHOD

SURFACE TRANSPORTATION

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 364 Poles, Towers & Fixtures

ANALYSIS BAND = 1947 THRU 2014

INCREMENT = 1

CURVE	IV	CI	REI
S0 - 30.0	115	8	100.00
S0.5 - 29.1	120	8	100.00
S1 - 28.2	126	7	100.00
S1.5 - 27.6	130	7	100.00
S2 - 27.3	135	7	100.00
S2.5 - 26.9	139	7	100.00
S3 - 26.6	143	6	100.00
S4 - 26.2	151	6	100.00
S5 - 25.8	157	6	100.00
S6 - 25.9	160	6	100.00
SQ - 28.2	175	5	100.00
L0 - 35.0	105	9	93.52
L0.5 - 33.0	110	9	96.73
L1 - 31.0	116	8	99.08
L1.5 - 29.8	121	8	99.69
L2 - 28.9	127	7	99.97
L2.5 - 28.0	132	7	100.00
L3 - 27.4	137	7	100.00
L4 - 26.5	146	6	100.00
L5 - 26.1	153	6	100.00
R1 - 30.1	112	8	100.00
R1.5 - 29.2	118	8	100.00
R2 - 28.1	125	8	100.00
R2.5 - 27.4	131	7	100.00
R3 - 27.1	138	7	100.00
R4 - 26.4	147	6	100.00
R5 - 26.0	155	6	100.00
O1 - 34.8	100	10	100.00
O2 - 38.4	98	10	88.35
O3 - 51.4	93	10	75.94
O4 - 66.7	91	10	70.08

September 2, 2015

XXXù

(X) CURVE OVERLAP

95! XXXXXù

(ù) S0 30.0

90! +XXXX

(+) L0 35.0

85! ++XXX

(\*) R1 30.1

80! ++XXX

75! ++XX\*

70! +XX\*\*

65! XXX\*

60! +XX\*

55! XXX

50! ùXX+

45! ùXX++

40! ùX\*++++

35! ùXX +++

30! XX +++++

25! XX +++++

20! XXù +++++

15! \*XXù +++++

10! \*XXù +++++++

5! \*XXXù +++

0!----!----!----!----!----!----!----!----!----!----!----\*XXXXXX----!----!----!-

00+ 05+ 10+ 15+ 20+ 25+ 30+ 35+ 40+ 45+ 50+ 55+ 60+ 65+ 70+ 75+

SIMULATED PLANT RECORD ANALYSIS  
BOARD

SURFACE TRANSPORTATION

SIMULATED BALANCE METHOD

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 365 Overhead Conductors & Devices

ACCOUNT CONTROL INFORMATION

EARLIEST ADDITION = 1942 LATEST ADDITION = 2014

EARLIEST BALANCE = 1947 LATEST BALANCE = 2014

EARLIEST RETIREMENT = 1947 LATEST RETIREMENT = 2014 INPUT = ADD & RET

SIMULATED PLANT RECORD ANALYSIS  
BOARD

SURFACE TRANSPORTATION

SIMULATED BALANCE METHOD

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 365 Overhead Conductors & Devices

ANALYSIS BAND = 1947 THRU 2014 INCREMENT = 1

DISP MEAN SSD IV REI  
S0 36.9 YRS. 0.2629E+14 81 99.82

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26858776.	1997	12966875.	1980	5434366.	1963	1179627.
2013	26201471.	1996	12535197.	1979	4449438.	1962	1170546.
2012	24717032.	1995	11920461.	1978	4149266.	1961	1153582.
2011	23584083.	1994	11411315.	1977	3578942.	1960	1139372.
2010	22589386.	1993	10836113.	1976	3142774.	1959	1091178.
2009	21693813.	1992	10420973.	1975	2732860.	1958	1087236.
2008	20597029.	1991	10129419.	1974	2468540.	1957	1003253.
2007	19776466.	1990	9777692.	1973	2110064.	1956	978833.
2006	18823163.	1989	8949431.	1972	1742191.	1955	933564.
2005	17709508.	1988	8177820.	1971	1696639.	1954	882801.
2004	16878452.	1987	7467370.	1970	1612506.	1953	846272.
2003	16072190.	1986	7077195.	1969	1582255.	1952	838007.
2002	15504519.	1985	6682798.	1968	1512429.	1951	661731.
2001	14795072.	1984	6235244.	1967	1386155.	1950	639583.
2000	14455019.	1983	5886987.	1966	1369033.	1949	511169.
1999	14062604.	1982	5700002.	1965	1203659.	1948	184032.
1998	13304665.	1981	5603911.	1964	1198462.	1947	113490.

DISP MEAN SSD IV REI  
S1 33.3 YRS. 0.3045E+14 87 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26666149.	1997	13068043.	1980	5459940.	1963	1218768.
2013	26037682.	1996	12636343.	1979	4472580.	1962	1208025.
2012	24581174.	1995	12020202.	1978	4171188.	1961	1188934.
2011	23475058.	1994	11508386.	1977	3600851.	1960	1172208.
2010	22505880.	1993	10929385.	1976	3165667.	1959	1121199.
2009	21634516.	1992	10509373.	1975	2757493.	1958	1114194.
2008	20560767.	1991	10212123.	1974	2495424.	1957	1027017.
2007	19761914.	1990	9854466.	1973	2139610.	1956	999314.
2006	18829109.	1989	9020727.	1972	1774526.	1955	950746.
2005	17734677.	1988	8244080.	1971	1731426.	1954	896757.
2004	16921099.	1987	7528753.	1970	1649326.	1953	857162.
2003	16130256.	1986	7133484.	1969	1620668.	1952	846111.
2002	15575645.	1985	6733810.	1968	1552044.	1951	667515.

2001	14876862.	1984	6280936.	1967	1426609.	1950	643487.
2000	14544874.	1983	5927284.	1966	1409885.	1949	513769.
1999	14158197.	1982	5734863.	1965	1244502.	1948	185944.
1998	13404077.	1981	5633633.	1964	1238736.	1947	114957.

DISP	MEAN	SSD	IV	REI
S2	31.3 YRS.	0.3343E+14	92	100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26483688.	1997	13179774.	1980	5458055.	1963	1252288.
2013	25891193.	1996	12739427.	1979	4474555.	1962	1238370.
2012	24470503.	1995	12113345.	1978	4177823.	1961	1215884.
2011	23399382.	1994	11590711.	1977	3612632.	1960	1195667.
2010	22463784.	1993	11000426.	1976	3182773.	1959	1141188.
2009	21624056.	1992	10569054.	1975	2779828.	1958	1130840.
2008	20579465.	1991	10260727.	1974	2522651.	1957	1040538.
2007	19806791.	1990	9892573.	1973	2171196.	1956	1009999.
2006	18896796.	1989	9049110.	1972	1809777.	1955	958944.
2005	17821486.	1988	8263635.	1971	1769557.	1954	902856.
2004	17023178.	1987	7540535.	1970	1689533.	1953	861565.
2003	16243722.	1986	7138716.	1969	1662133.	1952	849212.
2002	15696674.	1985	6733894.	1968	1593962.	1951	669663.
2001	15001859.	1984	6277405.	1967	1468190.	1950	644971.
2000	14670545.	1983	5921752.	1966	1450374.	1949	514806.
1999	14281633.	1982	5728987.	1965	1283220.	1948	186663.
1998	13522741.	1981	5629029.	1964	1275089.	1947	115429.

DISP	MEAN	SSD	IV	REI
S3	30.6 YRS.	0.3617E+14	95	100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26464643.	1997	13346994.	1980	5458504.	1963	1275794.
2013	25895723.	1996	12889273.	1979	4482288.	1962	1257913.
2012	24499928.	1995	12243901.	1978	4193022.	1961	1231765.
2011	23454344.	1994	11700840.	1977	3635081.	1960	1208275.
2010	22544238.	1993	11089731.	1976	3211908.	1959	1150969.
2009	21729183.	1992	10637862.	1975	2814785.	1958	1138252.
2008	20707783.	1991	10310102.	1974	2562359.	1957	1046021.
2007	19956235.	1990	9924253.	1973	2214451.	1956	1013966.
2006	19064701.	1989	9065377.	1972	1855303.	1955	961756.
2005	18004708.	1988	8267161.	1971	1816063.	1954	904812.
2004	17218146.	1987	7534295.	1970	1735798.	1953	862900.
2003	16446564.	1986	7125826.	1969	1707053.	1952	850105.
2002	15903345.	1985	6717396.	1968	1636562.	1951	670247.
2001	15208269.	1984	6260126.	1967	1507687.	1950	645338.
2000	14872640.	1983	5906225.	1966	1486219.	1949	515024.
1999	14475496.	1982	5717330.	1965	1315055.	1948	186782.
1998	13704813.	1981	5622858.	1964	1302745.	1947	115488.

DISP MEAN SSD IV REI  
 S4 29.8 YRS. 0.3962E+14 100 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26326183.	1997	13503126.	1980	5432489.	1963	1289048.
2013	25774841.	1996	13024262.	1979	4470606.	1962	1267952.
2012	24398236.	1995	12354860.	1978	4195750.	1961	1239207.
2011	23374337.	1994	11786208.	1977	3651311.	1960	1213678.
2010	22488900.	1993	11149146.	1976	3239982.	1959	1154798.
2009	21701794.	1992	10672096.	1975	2852430.	1958	1140899.
2008	20711251.	1991	10320779.	1974	2606876.	1957	1047806.
2007	19992601.	1990	9913657.	1973	2263100.	1956	1015133.
2006	19134611.	1989	9036414.	1972	1905413.	1955	962492.
2005	18106933.	1988	8223248.	1971	1865283.	1954	905258.
2004	17349731.	1987	7479170.	1970	1782251.	1953	863158.
2003	16602638.	1986	7063509.	1969	1749339.	1952	850246.
2002	16077584.	1985	6652072.	1968	1673846.	1951	670318.
2001	15393401.	1984	6195937.	1967	1539613.	1950	645371.
2000	15060944.	1983	5847083.	1966	1512804.	1949	515038.
1999	14659506.	1982	5666688.	1965	1336633.	1948	186787.
1998	13877730.	1981	5583537.	1964	1319851.	1947	115489.

DISP MEAN SSD IV REI  
 S5 29.3 YRS. 0.4270E+14 104 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26257544.	1997	13598282.	1980	5393519.	1963	1293385.
2013	25693363.	1996	13100058.	1979	4450044.	1962	1270855.
2012	24297728.	1995	12412895.	1978	4194841.	1961	1241044.
2011	23256389.	1994	11828407.	1977	3668609.	1960	1214771.
2010	22362856.	1993	11177047.	1976	3271614.	1959	1155409.
2009	21582611.	1992	10686689.	1975	2893205.	1958	1141217.
2008	20615573.	1991	10322659.	1974	2651380.	1957	1047958.
2007	19934920.	1990	9903150.	1973	2306632.	1956	1015200.
2006	19124079.	1989	9013934.	1972	1944866.	1955	962519.
2005	18146047.	1988	8189261.	1971	1899095.	1954	905267.
2004	17433579.	1987	7434437.	1970	1810145.	1953	863161.
2003	16721456.	1986	7009228.	1969	1771848.	1952	850247.
2002	16218234.	1985	6590036.	1968	1691778.	1951	670318.
2001	15542283.	1984	6128996.	1967	1553777.	1950	645371.
2000	15206169.	1983	5779323.	1966	1523821.	1949	515038.
1999	14792207.	1982	5603082.	1965	1345017.	1948	186787.
1998	13992667.	1981	5529709.	1964	1326012.	1947	115489.

DISP MEAN SSD IV REI  
 S6 29.2 YRS. 0.4502E+14 106 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26344026.	1997	13638385.	1980	5351898.	1963	1294309.
2013	25742085.	1996	13130282.	1979	4429204.	1962	1271244.
2012	24286834.	1995	12440552.	1978	4201853.	1961	1241190.
2011	23183035.	1994	11855389.	1977	3701994.	1960	1214818.
2010	22247624.	1993	11200856.	1976	3321234.	1959	1155422.
2009	21460469.	1992	10703283.	1975	2944816.	1958	1141220.
2008	20522815.	1991	10329323.	1974	2693695.	1957	1047959.
2007	19894098.	1990	9900137.	1973	2335359.	1956	1015200.
2006	19140188.	1989	9003378.	1972	1962243.	1955	962519.
2005	18211307.	1988	8174245.	1971	1910444.	1954	905267.
2004	17536311.	1987	7416950.	1970	1819944.	1953	863161.
2003	16848517.	1986	6989284.	1969	1781861.	1952	850247.
2002	16356129.	1985	6565680.	1968	1701479.	1951	670318.
2001	15675837.	1984	6097272.	1967	1561883.	1950	645371.
2000	15321068.	1983	5738124.	1966	1529649.	1949	515038.
1999	14879649.	1982	5554103.	1965	1348602.	1948	186787.
1998	14052727.	1981	5479081.	1964	1327953.	1947	115489.

DISP MEAN SSD IV REI  
 SQ 31.5 YRS. 0.5567E+14 118 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	27309141.	1997	13784216.	1980	5485734.	1963	1294323.
2013	26501788.	1996	13364271.	1979	4781218.	1962	1271246.
2012	24790381.	1995	12610006.	1978	4509078.	1961	1241190.
2011	23516632.	1994	11983547.	1977	3918730.	1960	1214818.
2010	23208075.	1993	11289508.	1976	3458698.	1959	1155422.
2009	22325755.	1992	10771198.	1975	3016494.	1958	1141220.
2008	21524123.	1991	10381247.	1974	2722551.	1957	1047959.
2007	20876079.	1990	9972674.	1973	2336840.	1956	1015200.
2006	20080600.	1989	9051005.	1972	2028577.	1955	962519.
2005	18990563.	1988	8273076.	1971	1959172.	1954	905267.
2004	18287966.	1987	7503033.	1970	1852484.	1953	863161.
2003	17629920.	1986	7079591.	1969	1800915.	1952	850247.
2002	16898359.	1985	6662540.	1968	1711016.	1951	670318.
2001	16073535.	1984	6182972.	1967	1565891.	1950	645371.
2000	15573661.	1983	5778886.	1966	1531018.	1949	515038.
1999	15070347.	1982	5708137.	1965	1348986.	1948	186787.
1998	14267322.	1981	5578321.	1964	1328035.	1947	115489.



DISP MEAN SSD IV REI  
 L0 44.9 YRS. 0.2260E+14 75 82.45

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	27018255.	1997	12878397.	1980	5394055.	1963	1152075.
2013	26336435.	1996	12444950.	1979	4413385.	1962	1143941.
2012	24828812.	1995	11829554.	1978	4116500.	1961	1128186.
2011	23673579.	1994	11320733.	1977	3548744.	1960	1115429.
2010	22658012.	1993	10746724.	1976	3114269.	1959	1068870.
2009	21743104.	1992	10333728.	1975	2705340.	1958	1066752.
2008	20628166.	1991	10045481.	1974	2441511.	1957	984681.
2007	19790680.	1990	9698016.	1973	2083016.	1956	962270.
2006	18821621.	1989	8873950.	1972	1714530.	1955	919104.
2005	17692847.	1988	8105923.	1971	1668287.	1954	870484.
2004	16847522.	1987	7398576.	1970	1583691.	1953	836143.
2003	16028168.	1986	7011537.	1969	1553214.	1952	830107.
2002	15448890.	1985	6620553.	1968	1483367.	1951	655832.
2001	14729333.	1984	6176591.	1967	1357135.	1950	635482.
2000	14381042.	1983	5832106.	1966	1340210.	1949	508600.
1999	13982424.	1982	5649394.	1965	1175070.	1948	182302.
1998	13219594.	1981	5558247.	1964	1170245.	1947	112125.

DISP MEAN SSD IV REI  
 L1 38.0 YRS. 0.2734E+14 83 94.14

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26841730.	1997	13000650.	1980	5429908.	1963	1190993.
2013	26182803.	1996	12570484.	1979	4442864.	1962	1182213.
2012	24698075.	1995	11956758.	1978	4141175.	1961	1165206.
2011	23565704.	1994	11447942.	1977	3570249.	1960	1150623.
2010	22572539.	1993	10872326.	1976	3134140.	1959	1101781.
2009	21679536.	1992	10456000.	1975	2724892.	1958	1096945.
2008	20586278.	1991	10162716.	1974	2461761.	1957	1011878.
2007	19769940.	1990	9809134.	1973	2104966.	1956	986220.
2006	18821629.	1989	8978985.	1972	1738960.	1955	939637.
2005	17713295.	1988	8205046.	1971	1695274.	1954	887541.
2004	16887431.	1987	7491682.	1970	1613115.	1953	849750.
2003	16086112.	1986	7097913.	1969	1584867.	1952	840413.
2002	15522963.	1985	6699485.	1968	1517042.	1951	663315.
2001	14817571.	1984	6247572.	1967	1392670.	1950	640561.
2000	14480982.	1983	5894661.	1966	1377248.	1949	511899.
1999	14091703.	1982	5702975.	1965	1213317.	1948	184692.
1998	13336456.	1981	5602637.	1964	1209155.	1947	113996.

DISP MEAN SSD IV REI  
 L2 34.0 YRS. 0.3202E+14 90 99.03

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26614574.	1997	13137151.	1980	5439654.	1963	1232005.
2013	25988619.	1996	12706155.	1979	4452447.	1962	1220028.
2012	24536917.	1995	12088996.	1978	4152207.	1961	1199490.
2011	23437470.	1994	11574316.	1977	3583901.	1960	1181251.
2010	22476412.	1993	10990601.	1976	3151467.	1959	1128795.
2009	21614252.	1992	10564174.	1975	2746584.	1958	1120471.
2008	20550421.	1991	10259171.	1974	2488144.	1957	1032109.
2007	19761852.	1990	9892914.	1973	2136100.	1956	1003350.
2006	18839362.	1989	9050182.	1972	1774739.	1955	953855.
2005	17754974.	1988	8264541.	1971	1735152.	1954	899071.
2004	16950866.	1987	7540576.	1970	1656220.	1953	858821.
2003	16168691.	1986	7137342.	1969	1630279.	1952	847263.
2002	15621791.	1985	6730641.	1968	1563820.	1951	668297.
2001	14929707.	1984	6271857.	1967	1439930.	1950	644013.
2000	14603424.	1983	5913536.	1966	1424106.	1949	514127.
1999	14221457.	1982	5717705.	1965	1258967.	1948	186188.
1998	13470914.	1981	5614311.	1964	1252839.	1947	115117.

DISP MEAN SSD IV REI  
 L3 31.7 YRS. 0.3548E+14 94 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26447910.	1997	13275181.	1980	5431075.	1963	1261243.
2013	25852930.	1996	12833851.	1979	4449953.	1962	1245670.
2012	24431455.	1995	12203350.	1978	4156917.	1961	1221725.
2011	23361178.	1994	11673331.	1977	3596437.	1960	1200263.
2010	22428089.	1993	11073365.	1976	3171943.	1959	1144748.
2009	21592651.	1992	10630747.	1975	2774623.	1958	1133551.
2008	20554331.	1991	10310324.	1974	2522944.	1957	1042558.
2007	19790072.	1990	9929837.	1973	2176491.	1956	1011468.
2006	18890611.	1989	9074303.	1972	1819294.	1955	959983.
2005	17827767.	1988	8277420.	1971	1782321.	1954	903566.
2004	17043440.	1987	7543890.	1970	1704451.	1953	862031.
2003	16278871.	1986	7132885.	1969	1678132.	1952	849505.
2002	15746847.	1985	6720314.	1968	1610067.	1951	669842.
2001	15066199.	1984	6257653.	1967	1483604.	1950	645082.
2000	14747246.	1983	5897534.	1966	1464519.	1949	514877.
1999	14368005.	1982	5702084.	1965	1295736.	1948	186709.
1998	13615453.	1981	5601230.	1964	1285823.	1947	115458.

DISP MEAN SSD IV REI  
 L4 30.3 YRS. 0.3796E+14 98 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26374524.	1997	13406185.	1980	5425313.	1963	1281185.
2013	25804799.	1996	12941694.	1979	4456801.	1962	1262085.
2012	24404552.	1995	12289112.	1978	4176827.	1961	1234908.
2011	23353602.	1994	11738641.	1977	3628751.	1960	1210581.
2010	22440513.	1993	11119930.	1976	3214842.	1959	1152608.
2009	21627833.	1992	10660108.	1975	2825209.	1958	1139386.
2008	20616217.	1991	10323870.	1974	2577817.	1957	1046797.
2007	19882291.	1990	9929057.	1973	2232388.	1956	1014495.
2006	19014477.	1989	9061023.	1972	1873609.	1955	962118.
2005	17981375.	1988	8253932.	1971	1833449.	1954	905061.
2004	17221561.	1987	7512821.	1970	1751672.	1953	863069.
2003	16473601.	1986	7097058.	1969	1721280.	1952	850213.
2002	15949083.	1985	6682697.	1968	1649223.	1951	670309.
2001	15266824.	1984	6221134.	1967	1518861.	1950	645370.
2000	14938050.	1983	5864917.	1966	1495903.	1949	515038.
1999	14542523.	1982	5676102.	1965	1323233.	1948	186787.
1998	13769328.	1981	5584323.	1964	1309483.	1947	115489.

DISP MEAN SSD IV REI  
 L5 29.5 YRS. 0.4094E+14 101 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26252544.	1997	13521679.	1980	5392195.	1963	1290634.
2013	25693387.	1996	13039282.	1979	4438508.	1962	1268989.
2012	24298896.	1995	12367725.	1978	4175098.	1961	1239912.
2011	23253860.	1994	11797611.	1977	3643050.	1960	1214166.
2010	22351655.	1993	11158771.	1976	3242304.	1959	1155136.
2009	21558322.	1992	10678801.	1975	2861527.	1958	1141119.
2008	20575030.	1991	10323298.	1974	2618603.	1957	1047933.
2007	19875897.	1990	9911298.	1973	2274295.	1956	1015196.
2006	19045392.	1989	9028949.	1972	1914661.	1955	962519.
2005	18047870.	1988	8210890.	1971	1872813.	1954	905267.
2004	17319105.	1987	7462049.	1970	1788872.	1953	863161.
2003	16595638.	1986	7041366.	1969	1755697.	1952	850247.
2002	16088406.	1985	6624407.	1968	1680022.	1951	670318.
2001	15415427.	1984	6162306.	1967	1545232.	1950	645371.
2000	15087785.	1983	5807817.	1966	1517476.	1949	515038.
1999	14685990.	1982	5623485.	1965	1340130.	1948	186787.
1998	13900649.	1981	5539562.	1964	1322265.	1947	115489.

DISP MEAN SSD IV REI  
R1 37.2 YRS. 0.2391E+14 77 99.83

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26903414.	1997	12908624.	1980	5411221.	1963	1165105.
2013	26243470.	1996	12473460.	1979	4433415.	1962	1154613.
2012	24756712.	1995	11856274.	1978	4138640.	1961	1136611.
2011	23619666.	1994	11345347.	1977	3573203.	1960	1121769.
2010	22620324.	1993	10769070.	1976	3140571.	1959	1073287.
2009	21720132.	1992	10353723.	1975	2733033.	1958	1069443.
2008	20618342.	1991	10063795.	1974	2470198.	1957	985877.
2007	19792312.	1990	9715992.	1973	2112328.	1956	962103.
2006	18833458.	1989	8892415.	1972	1743523.	1955	917847.
2005	17712959.	1988	8124484.	1971	1696152.	1954	868393.
2004	16873648.	1987	7416586.	1970	1610232.	1953	833506.
2003	16058388.	1986	7028570.	1969	1578262.	1952	827393.
2002	15481556.	1985	6636835.	1968	1506884.	1951	653387.
2001	14763042.	1984	6192144.	1967	1378925.	1950	633476.
2000	14414541.	1983	5846858.	1966	1360098.	1949	507476.
1999	14015544.	1982	5663658.	1965	1192898.	1948	181850.
1998	13251711.	1981	5573092.	1964	1185668.	1947	111742.

DISP MEAN SSD IV REI  
R2 32.9 YRS. 0.2772E+14 83 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26665854.	1997	12997942.	1980	5452461.	1963	1207179.
2013	26050884.	1996	12560062.	1979	4472224.	1962	1194866.
2012	24605396.	1995	11939451.	1978	4176299.	1961	1174667.
2011	23506824.	1994	11424830.	1977	3610202.	1960	1157298.
2010	22542196.	1993	10844746.	1976	3177750.	1959	1106066.
2009	21672597.	1992	10425463.	1975	2770974.	1958	1099268.
2008	20597690.	1991	10131029.	1974	2509195.	1957	1012651.
2007	19795007.	1990	9778133.	1973	2152633.	1956	985812.
2006	18856055.	1989	8950044.	1972	1785663.	1955	938433.
2005	17752952.	1988	8179102.	1971	1740076.	1954	885877.
2004	16928652.	1987	7469510.	1970	1655360.	1953	847923.
2003	16125799.	1986	7080373.	1969	1624038.	1952	838718.
2002	15558612.	1985	6687472.	1968	1552775.	1951	661898.
2001	14847180.	1984	6241714.	1967	1424637.	1950	639505.
2000	14503178.	1983	5895394.	1966	1405283.	1949	511277.
1999	14105877.	1982	5710694.	1965	1237335.	1948	184310.
1998	13342173.	1981	5617693.	1964	1229154.	1947	113647.

DISP MEAN SSD IV REI  
R3 31.0 YRS. 0.3177E+14 89 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26498089.	1997	13182027.	1980	5475528.	1963	1247092.
2013	25926426.	1996	12725276.	1979	4498633.	1962	1231970.
2012	24525909.	1995	12084509.	1978	4206601.	1961	1208773.
2011	23473393.	1994	11549324.	1977	3644304.	1960	1188279.
2010	22554170.	1993	10948977.	1976	3215585.	1959	1133885.
2009	21727859.	1992	10510311.	1975	2812242.	1958	1123915.
2008	20693069.	1991	10197680.	1974	2553398.	1957	1034201.
2007	19926167.	1990	9828280.	1973	2199257.	1956	1004392.
2006	19017782.	1989	8986449.	1972	1834365.	1955	954150.
2005	17939884.	1988	8205234.	1971	1790217.	1954	898892.
2004	17135013.	1987	7488729.	1970	1706081.	1953	858404.
2003	16345439.	1986	7095492.	1969	1674581.	1952	846799.
2002	15785321.	1985	6700726.	1968	1602476.	1951	667886.
2001	15075086.	1984	6255100.	1967	1473044.	1950	643714.
2000	14726688.	1983	5910465.	1966	1451978.	1949	513966.
1999	14319794.	1982	5728318.	1965	1282033.	1948	186081.
1998	13542664.	1981	5638092.	1964	1271625.	1947	114993.

DISP MEAN SSD IV REI  
R4 30.2 YRS. 0.3645E+14 96 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26416177.	1997	13385349.	1980	5476969.	1963	1274654.
2013	25857025.	1996	12911312.	1979	4510087.	1962	1256222.
2012	24477014.	1995	12250161.	1978	4227113.	1961	1229828.
2011	23452958.	1994	11692024.	1977	3672254.	1960	1206318.
2010	22568726.	1993	11066988.	1976	3249282.	1959	1149131.
2009	21781426.	1992	10602969.	1975	2850182.	1958	1136614.
2008	20786680.	1991	10265497.	1974	2594519.	1957	1044627.
2007	20057677.	1990	9872831.	1973	2242846.	1956	1012821.
2006	19182498.	1989	9010183.	1972	1879740.	1955	960841.
2005	18131929.	1988	8211311.	1971	1836467.	1954	904101.
2004	17348010.	1987	7480771.	1970	1752184.	1953	862365.
2003	16572790.	1986	7077376.	1969	1719539.	1952	849714.
2002	16020612.	1985	6676632.	1968	1645422.	1951	669968.
2001	15312612.	1984	6229420.	1967	1513404.	1950	645147.
2000	14961465.	1983	5887358.	1966	1489378.	1949	514899.
1999	14547535.	1982	5711313.	1965	1316244.	1948	186701.
1998	13759876.	1981	5629687.	1964	1302532.	1947	115435.

DISP MEAN SSD IV REI  
R5 29.4 YRS. 0.4165E+14 102 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26240804.	1997	13550010.	1980	5418707.	1963	1290910.
2013	25670048.	1996	13060399.	1979	4472483.	1962	1269124.
2012	24279558.	1995	12380954.	1978	4210677.	1961	1239915.
2011	23252876.	1994	11802725.	1977	3675203.	1960	1214088.
2010	22378607.	1993	11156364.	1976	3268543.	1959	1155029.
2009	21615425.	1992	10670378.	1975	2882066.	1958	1141026.
2008	20658479.	1991	10310392.	1974	2635005.	1957	1047872.
2007	19978457.	1990	9895002.	1973	2288201.	1956	1015166.
2006	19159109.	1989	9009774.	1972	1926894.	1955	962508.
2005	18164591.	1988	8188655.	1971	1883172.	1954	905264.
2004	17431362.	1987	7436931.	1970	1796886.	1953	863161.
2003	16697468.	1986	7014664.	1969	1761152.	1952	850247.
2002	16175367.	1985	6598509.	1968	1683269.	1951	670318.
2001	15486171.	1984	6140894.	1967	1546956.	1950	645371.
2000	15143752.	1983	5795276.	1966	1518363.	1949	515038.
1999	14730289.	1982	5623674.	1965	1340679.	1948	186787.
1998	13936233.	1981	5553932.	1964	1322661.	1947	115489.

DISP MEAN SSD IV REI  
O1 45.3 YRS. 0.1971E+14 70 80.04

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	27047557.	1997	12787818.	1980	5347898.	1963	1130007.
2013	26358347.	1996	12351590.	1979	4375676.	1962	1121091.
2012	24844858.	1995	11734522.	1978	4085186.	1961	1104903.
2011	23682307.	1994	11224576.	1977	3523479.	1960	1092088.
2010	22659437.	1993	10650083.	1976	3093611.	1959	1045775.
2009	21737962.	1992	10237354.	1975	2688085.	1958	1044250.
2008	20616664.	1991	9951344.	1974	2426757.	1957	963073.
2007	19772789.	1990	9608807.	1973	2069910.	1956	941702.
2006	18797855.	1989	8790618.	1972	1701329.	1955	899937.
2005	17662153.	1988	8027137.	1971	1653936.	1954	852995.
2004	16808477.	1987	7322803.	1970	1568287.	1953	820650.
2003	15980108.	1986	6938089.	1969	1536884.	1952	817194.
2002	15391741.	1985	6549948.	1968	1466370.	1951	645658.
2001	14663265.	1984	6108940.	1967	1339333.	1950	627973.
2000	14306672.	1983	5767424.	1966	1321554.	1949	504045.
1999	13901991.	1982	5588544.	1965	1155419.	1948	179668.
1998	13133865.	1981	5503342.	1964	1149244.	1947	110039.

DISP MEAN SSD IV REI  
O2 51.1 YRS. 0.1964E+14 70 76.32

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	27083186.	1997	12795931.	1980	5349872.	1963	1130510.
2013	26390826.	1996	12359082.	1979	4377458.	1962	1121556.
2012	24874456.	1995	11741442.	1978	4086803.	1961	1105330.
2011	23709292.	1994	11230970.	1977	3524945.	1960	1092477.
2010	22684046.	1993	10655992.	1976	3094946.	1959	1046127.
2009	21760411.	1992	10242814.	1975	2689306.	1958	1044566.
2008	20637154.	1991	9956378.	1974	2427878.	1957	963353.
2007	19791505.	1990	9613433.	1973	2070942.	1956	941949.
2006	18814964.	1989	8794867.	1972	1702290.	1955	900152.
2005	17677816.	1988	8031045.	1971	1654834.	1954	853179.
2004	16822842.	1987	7326409.	1970	1569126.	1953	820803.
2003	15993305.	1986	6941418.	1969	1537666.	1952	817315.
2002	15403882.	1985	6553020.	1968	1467096.	1951	645750.
2001	14674450.	1984	6111771.	1967	1340007.	1950	628039.
2000	14316987.	1983	5770033.	1966	1322180.	1949	504086.
1999	13911504.	1982	5590941.	1965	1156001.	1948	179694.
1998	13142647.	1981	5505528.	1964	1149787.	1947	110058.

DISP MEAN SSD IV REI  
O3 70.8 YRS. 0.1867E+14 68 65.11

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	27115634.	1997	12761739.	1980	5333267.	1963	1122889.
2013	26415082.	1996	12324890.	1979	4362230.	1962	1114367.
2012	24891291.	1995	11707531.	1978	4072692.	1961	1098612.
2011	23719231.	1994	11197552.	1977	3511819.	1960	1086260.
2010	22687705.	1993	10623254.	1976	3082606.	1959	1040431.
2009	21758456.	1992	10210955.	1975	2677596.	1958	1039409.
2008	20630123.	1991	9925655.	1974	2416685.	1957	958738.
2007	19779923.	1990	9584115.	1973	2060168.	1956	937869.
2006	18799342.	1989	8766985.	1972	1691775.	1955	896609.
2005	17658493.	1988	8004449.	1971	1644528.	1954	850166.
2004	16800161.	1987	7300955.	1970	1559072.	1953	818313.
2003	15967645.	1986	6917065.	1969	1527907.	1952	815355.
2002	15375692.	1985	6529830.	1968	1457678.	1951	644274.
2001	14644151.	1984	6089750.	1967	1330930.	1950	626991.
2000	14285046.	1983	5749187.	1966	1313462.	1949	503429.
1999	13878469.	1982	5571352.	1965	1147637.	1948	179272.
1998	13108863.	1981	5487352.	1964	1141772.	1947	109731.

DISP MEAN SSD IV REI  
 O4 93.7 YRS. 0.1827E+14 68 60.94

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	27143585.	1997	12752077.	1980	5327852.	1963	1119699.
2013	26438827.	1996	12314922.	1979	4357296.	1962	1111322.
2012	24911177.	1995	11697396.	1978	4068120.	1961	1095734.
2011	23735489.	1994	11187361.	1977	3507555.	1960	1083572.
2010	22700637.	1993	10613111.	1976	3078563.	1959	1037945.
2009	21768351.	1992	10200951.	1975	2673705.	1958	1037140.
2008	20637249.	1991	9915930.	1974	2412903.	1957	956693.
2007	19784515.	1990	9574793.	1973	2056447.	1956	936048.
2006	18801640.	1989	8758094.	1972	1688053.	1955	895021.
2005	17658670.	1988	7995926.	1971	1640786.	1954	848809.
2004	16798367.	1987	7292738.	1970	1555337.	1953	817188.
2003	15964079.	1986	6909154.	1969	1524207.	1952	814468.
2002	15370556.	1985	6522251.	1968	1454038.	1951	643604.
2001	14637663.	1984	6082523.	1967	1327360.	1950	626516.
2000	14277437.	1983	5742320.	1966	1309974.	1949	503131.
1999	13870001.	1982	5564890.	1965	1144237.	1948	179080.
1998	13099720.	1981	5481378.	1964	1138463.	1947	109582.

DISP MEAN SSD IV REI  
 S0.5 35.0 YRS. 0.2825E+14 84 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26786155.	1997	13021765.	1980	5450188.	1963	1198519.
2013	26141669.	1996	12589667.	1979	4463999.	1962	1188521.
2012	24669602.	1995	11973892.	1978	4163119.	1961	1170440.
2011	23548494.	1994	11463155.	1977	3592636.	1960	1154951.
2010	22565076.	1993	10885867.	1976	3156756.	1959	1105358.
2009	21680207.	1992	10468169.	1975	2747459.	1958	1099915.
2008	20593585.	1991	10173705.	1974	2483985.	1957	1014382.
2007	19782585.	1990	9818983.	1973	2126537.	1956	988392.
2006	18838292.	1989	8987941.	1972	1759740.	1955	941560.
2005	17733042.	1988	8213768.	1971	1715103.	1954	889278.
2004	16909572.	1987	7500845.	1970	1631692.	1953	851317.
2003	16109942.	1986	7108109.	1969	1601964.	1952	841761.
2002	15547816.	1985	6711085.	1968	1532482.	1951	664405.
2001	14842806.	1984	6260911.	1967	1406388.	1950	641385.
2000	14506006.	1983	5910016.	1966	1389254.	1949	512371.
1999	14115789.	1982	5720371.	1965	1223683.	1948	184915.
1998	13359169.	1981	5621770.	1964	1218041.	1947	114165.



DISP MEAN SSD IV REI  
 S1.5 32.3 YRS. 0.3171E+14 89 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26587327.	1997	13119670.	1980	5461358.	1963	1234703.
2013	25976607.	1996	12683639.	1979	4475890.	1962	1222383.
2012	24537418.	1995	12062681.	1978	4176709.	1961	1201632.
2011	23447912.	1994	11545736.	1977	3608761.	1960	1183220.
2010	22494391.	1993	10961482.	1976	3176004.	1959	1130553.
2009	21637516.	1992	10536263.	1975	2770174.	1958	1121962.
2008	20576892.	1991	10234014.	1974	2510258.	1957	1033312.
2007	19789629.	1990	9871690.	1973	2156319.	1956	1004278.
2006	18866729.	1989	9033693.	1972	1792766.	1955	954548.
2005	17780403.	1988	8253242.	1971	1750823.	1954	899583.
2004	16973077.	1987	7534623.	1970	1669497.	1953	859200.
2003	16186657.	1986	7136646.	1969	1641233.	1952	847544.
2002	15634719.	1985	6734918.	1968	1572631.	1951	668506.
2001	14936990.	1984	6280686.	1967	1446860.	1950	644171.
2000	14604597.	1983	5926399.	1966	1429463.	1949	514246.
1999	14216244.	1982	5734070.	1965	1263106.	1948	186274.
1998	13459358.	1981	5633636.	1964	1256107.	1947	115174.

DISP MEAN SSD IV REI  
 S2.5 30.9 YRS. 0.3457E+14 93 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26442121.	1997	13250484.	1980	5455797.	1963	1263299.
2013	25863495.	1996	12802094.	1979	4476048.	1962	1247517.
2012	24458479.	1995	12167028.	1978	4183191.	1961	1223314.
2011	23400780.	1994	11634894.	1977	3621723.	1960	1201568.
2010	22480031.	1993	11034888.	1976	3195304.	1959	1145765.
2009	21653948.	1992	10594074.	1975	2795346.	1958	1134306.
2008	20622333.	1991	10276737.	1974	2540752.	1957	1043101.
2007	19861280.	1990	9900645.	1973	2190988.	1956	1011854.
2006	18961838.	1989	9050125.	1972	1830772.	1955	960258.
2005	17895230.	1988	8259059.	1971	1791125.	1954	903769.
2004	17103197.	1987	7531789.	1970	1711064.	1953	862188.
2003	16328564.	1986	7127259.	1969	1683082.	1952	849629.
2002	15784092.	1985	6721160.	1968	1613865.	1951	669935.
2001	15089857.	1984	6265078.	1967	1486668.	1950	645141.
2000	14757109.	1983	5910495.	1966	1467150.	1949	514907.
1999	14364517.	1982	5720209.	1965	1298118.	1948	186718.
1998	13600571.	1981	5623627.	1964	1288041.	1947	115456.

DISP MEAN SSD IV REI  
 L0.5 40.9 YRS. 0.2469E+14 79 89.16

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26880967.	1997	12916550.	1980	5405703.	1963	1168876.
2013	26213502.	1996	12485658.	1979	4422811.	1962	1160421.
2012	24720043.	1995	11871974.	1978	4124346.	1961	1144075.
2011	23578700.	1994	11364011.	1977	3555692.	1960	1130494.
2010	22576580.	1993	10790083.	1976	3120946.	1959	1082914.
2009	21674637.	1992	10376342.	1975	2712282.	1958	1079598.
2008	20572322.	1991	10086575.	1974	2449117.	1957	996220.
2007	19746991.	1990	9737069.	1973	2091678.	1956	972404.
2006	18789684.	1989	8910928.	1972	1724537.	1955	927769.
2005	17672317.	1988	8140865.	1971	1679618.	1954	877666.
2004	16837798.	1987	7431396.	1970	1596241.	1953	841860.
2003	16028485.	1986	7041922.	1969	1566838.	1952	834428.
2002	15458261.	1985	6648189.	1968	1497940.	1951	658969.
2001	14746755.	1984	6201288.	1967	1372546.	1950	637608.
2000	14405267.	1983	5853657.	1966	1356279.	1949	509981.
1999	14012274.	1982	5667609.	1965	1191652.	1948	183304.
1998	13254150.	1981	5573030.	1964	1187083.	1947	112908.

DISP MEAN SSD IV REI  
 L1.5 35.8 YRS. 0.2935E+14 86 97.16

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26730500.	1997	13061376.	1980	5436397.	1963	1209444.
2013	26088697.	1996	12630150.	1979	4449653.	1962	1199132.
2012	24620801.	1995	12014177.	1978	4148915.	1961	1180494.
2011	23504893.	1994	11502103.	1977	3579373.	1960	1164273.
2010	22527544.	1993	10922368.	1976	3145035.	1959	1113827.
2009	21649536.	1992	10501215.	1975	2737762.	1958	1107445.
2008	20570422.	1991	10202582.	1974	2476656.	1957	1020921.
2007	19767302.	1990	9843402.	1973	2121826.	1956	993887.
2006	18831145.	1989	9007863.	1972	1757660.	1955	946008.
2005	17733920.	1988	8229099.	1971	1715513.	1954	892717.
2004	16918009.	1987	7511527.	1970	1634464.	1953	853830.
2003	16125290.	1986	7114138.	1969	1606893.	1952	843503.
2002	15569293.	1985	6712672.	1968	1539336.	1951	665568.
2001	14869595.	1984	6258360.	1967	1414853.	1950	642122.
2000	14537212.	1983	5903674.	1966	1398951.	1949	512906.
1999	14150683.	1982	5710730.	1965	1234222.	1948	185367.
1998	13396946.	1981	5609543.	1964	1228962.	1947	114504.

DISP MEAN SSD IV REI  
L2.5 33.0 YRS. 0.3348E+14 92 99.67

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26630371.	1997	13229439.	1980	5448241.	1963	1246503.
2013	26015537.	1996	12789915.	1979	4463784.	1962	1232653.
2012	24574568.	1995	12163360.	1978	4166627.	1961	1210361.
2011	23485376.	1994	11638921.	1977	3601490.	1960	1190480.
2010	22534061.	1993	11045555.	1976	3172079.	1959	1136479.
2009	21681102.	1992	10609978.	1975	2769867.	1958	1126724.
2008	20625917.	1991	10296579.	1974	2513584.	1957	1037076.
2007	19845370.	1990	9922797.	1973	2163058.	1956	1007195.
2006	18930181.	1989	9073486.	1972	1802508.	1955	956751.
2005	17852210.	1988	8282233.	1971	1763022.	1954	901194.
2004	17053455.	1987	7553640.	1970	1683536.	1953	860337.
2003	16275336.	1986	7146776.	1969	1656471.	1952	848321.
2002	15730931.	1985	6737454.	1968	1588447.	1951	669026.
2001	15039517.	1984	6277069.	1967	1462683.	1950	644516.
2000	14711870.	1983	5918156.	1966	1444796.	1949	514478.
1999	14326433.	1982	5722747.	1965	1277539.	1948	186430.
1998	13570425.	1981	5620725.	1964	1269327.	1947	115275.

DISP MEAN SSD IV REI  
R1.5 34.7 YRS. 0.2573E+14 80 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	26765244.	1997	12935873.	1980	5430977.	1963	1184362.
2013	26126921.	1996	12501175.	1979	4452048.	1962	1173021.
2012	24659708.	1995	11884102.	1978	4156709.	1961	1154001.
2011	23540691.	1994	11373103.	1977	3590907.	1960	1137991.
2010	22557583.	1993	10796614.	1976	3158281.	1959	1088245.
2009	21671780.	1992	10380874.	1975	2751011.	1958	1083047.
2008	20582745.	1991	10090146.	1974	2488580.	1957	998086.
2007	19767925.	1990	9741126.	1973	2131231.	1956	972914.
2006	18818802.	1989	8916443.	1972	1763194.	1955	927236.
2005	17706983.	1988	8147943.	1971	1716576.	1954	876370.
2004	16875379.	1987	7439936.	1970	1631148.	1953	840085.
2003	16066789.	1986	7051945.	1969	1599420.	1952	832563.
2002	15495532.	1985	6660093.	1968	1528046.	1951	657273.
2001	14781569.	1984	6215227.	1967	1399961.	1950	636228.
2000	14436577.	1983	5869691.	1966	1380856.	1949	509210.
1999	14039920.	1982	5685951.	1965	1213284.	1948	182972.
1998	13277790.	1981	5594355.	1964	1205594.	1947	112611.

DISP	MEAN	SSD	IV	REI
R2.5	32.0 YRS.	0.2935E+14	86	100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
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2014	26646721.	1997	13095324.	1980	5472471.	1963	1226968.
2013	26051806.	1996	12647164.	1979	4493100.	1962	1213192.
2012	24626537.	1995	12016064.	1978	4198265.	1961	1191457.
2011	23548063.	1994	11491136.	1977	3633202.	1960	1172507.
2010	22602573.	1993	10901237.	1976	3201770.	1959	1119691.
2009	21750528.	1992	10472878.	1975	2795908.	1958	1111315.
2008	20691164.	1991	10170192.	1974	2534857.	1957	1023168.
2007	19901551.	1990	9810027.	1973	2178836.	1956	994869.
2006	18972908.	1989	8976072.	1972	1812311.	1955	946087.
2005	17877434.	1988	8200918.	1971	1766928.	1954	892212.
2004	17058036.	1987	7488637.	1970	1682063.	1953	853023.
2003	16257322.	1986	7098002.	1969	1650280.	1952	842648.
2002	15689582.	1985	6704473.	1968	1578285.	1951	664809.
2001	14975143.	1984	6258823.	1967	1449246.	1950	641551.
2000	14625902.	1983	5913140.	1966	1428833.	1949	512583.
1999	14221359.	1982	5729293.	1965	1259726.	1948	185170.
1998	13449084.	1981	5637084.	1964	1250309.	1947	114300.

S0	36.9 YRS.	0.2629E+14	81	12	99.82
S0.5	35.0 YRS.	0.2825E+14	84	11	100.00

L0	44.9 YRS.	0.2260E+14	75	13	82.45
L0.5	40.9 YRS.	0.2469E+14	79	12	89.16

R1	37.2 YRS.	0.2391E+14	77	12	99.83
R1.5	34.7 YRS.	0.2573E+14	80	12	100.00

SIMULATED PLANT RECORD ANALYSIS  
BOARD  
SIMULATED BALANCE METHOD

SURFACE TRANSPORTATION

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 365 Overhead Conductors & Devices

ANALYSIS BAND = 1947 THRU 2014

INCREMENT = 1

CURVE	IV	CI	REI
S0 - 36.9	81	12	99.82
S0.5 - 35.0	84	11	100.00
S1 - 33.3	87	11	100.00
S1.5 - 32.3	89	11	100.00
S2 - 31.3	92	10	100.00
S2.5 - 30.9	93	10	100.00
S3 - 30.6	95	10	100.00
S4 - 29.8	100	10	100.00
S5 - 29.3	104	9	100.00
S6 - 29.2	106	9	100.00
SQ - 31.5	118	8	100.00
L0 - 44.9	75	13	82.45
L0.5 - 40.9	79	12	89.16
L1 - 38.0	83	12	94.14
L1.5 - 35.8	86	11	97.16
L2 - 34.0	90	11	99.03
L2.5 - 33.0	92	10	99.67
L3 - 31.7	94	10	100.00
L4 - 30.3	98	10	100.00
L5 - 29.5	101	9	100.00
R1 - 37.2	77	12	99.83
R1.5 - 34.7	80	12	100.00
R2 - 32.9	83	12	100.00
R2.5 - 32.0	86	11	100.00
R3 - 31.0	89	11	100.00
R4 - 30.2	96	10	100.00
R5 - 29.4	102	9	100.00
O1 - 45.3	70	14	80.04
O2 - 51.1	70	14	76.32
O3 - 70.8	68	14	65.11
O4 - 93.7	68	14	60.94

September 2, 2015

XXù

(X) CURVE OVERLAP

95! XXXù

(ù) S0 36.9

90! XXù

(+) L0 44.9

85! XX\*

(\*) R1 37.2

80! XX\*

75! +XX

70! +X\*

65! XX

60! ùXX

55! ùX+

50! ù\*++

45! ùX ++

40! X\* ++

35! ù\* ++

30! ùX +++

25! X ++

20! XX ++++

15! Xù

10! \*Xù

5! \*XX

0!----!----!----!----!----!----!---XXX---!----!----!----!----!----!----!-

00+ 10+ 20+ 30+ 40+ 50+ 60+ 70+ 80+ 90+ 100+ 110+ 120+ 130+ 140+ 150+

SIMULATED PLANT RECORD ANALYSIS  
BOARD

SURFACE TRANSPORTATION

SIMULATED BALANCE METHOD

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 367 Underground Conductors & Devices

ACCOUNT CONTROL INFORMATION

EARLIEST ADDITION = 1968 LATEST ADDITION = 2014  
EARLIEST BALANCE = 1974 LATEST BALANCE = 2014  
EARLIEST RETIREMENT = 1974 LATEST RETIREMENT = 2014 INPUT = ADD & RET

SIMULATED PLANT RECORD ANALYSIS  
BOARD

SURFACE TRANSPORTATION

SIMULATED BALANCE METHOD

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 367 Underground Conductors & Devices

ANALYSIS BAND = 1974 THRU 2014 INCREMENT = 1

DISP MEAN SSD IV REI  
S0 46.4 YRS. 0.8328E+10 14 50.08

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3788079.	2003	1624652.	1992	258376.	1981	29274.
2013	3635071.	2002	1415600.	1991	224042.	1980	26961.
2012	3210375.	2001	1212461.	1990	198080.	1979	25849.
2011	3070570.	2000	1027245.	1989	178811.	1978	23614.
2010	2925815.	1999	831942.	1988	141680.	1977	21902.
2009	2774899.	1998	656463.	1987	101536.	1976	21795.
2008	2631514.	1997	541398.	1986	69933.	1975	21714.
2007	2426767.	1996	462152.	1985	58561.	1974	21523.
2006	2229768.	1995	394159.	1984	51041.	0	0.
2005	1982483.	1994	323530.	1983	44555.	0	0.
2004	1835984.	1993	289595.	1982	38549.	0	0.

DISP MEAN SSD IV REI  
S1 33.7 YRS. 0.8413E+10 14 81.67

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3776033.	2003	1628344.	1992	259044.	1981	29569.
2013	3628603.	2002	1418621.	1991	224576.	1980	27248.
2012	3208406.	2001	1214905.	1990	198494.	1979	26119.
2011	3071946.	2000	1029237.	1989	179126.	1978	23859.
2010	2929468.	1999	833621.	1988	141938.	1977	22116.
2009	2779931.	1998	657941.	1987	101780.	1976	21971.
2008	2637200.	1997	542724.	1986	70190.	1975	21850.
2007	2432583.	1996	463342.	1985	58832.	1974	21620.
2006	2235338.	1995	395221.	1984	51324.	0	0.
2005	1987564.	1994	324471.	1983	44845.	0	0.
2004	1840393.	1993	290403.	1982	38843.	0	0.



DISP MEAN SSD IV REI  
 S2 27.9 YRS. 0.8406E+10 14 98.88

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3765983.	2003	1629380.	1992	259135.	1981	29884.
2013	3623409.	2002	1419417.	1991	224681.	1980	27522.
2012	3206645.	2001	1215533.	1990	198633.	1979	26347.
2011	3072430.	2000	1029752.	1989	179317.	1978	24039.
2010	2931269.	1999	834056.	1988	142188.	1977	22251.
2009	2782360.	1998	658307.	1987	102083.	1976	22066.
2008	2639780.	1997	543024.	1986	70533.	1975	21912.
2007	2435011.	1996	463578.	1985	59200.	1974	21657.
2006	2237446.	1995	395399.	1984	51700.	0	0.
2005	1989287.	1994	324602.	1983	45213.	0	0.
2004	1841744.	1993	290503.	1982	39191.	0	0.

DISP MEAN SSD IV REI  
 S3 25.2 YRS. 0.8244E+10 14 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3763785.	2003	1630062.	1992	258959.	1981	30118.
2013	3623527.	2002	1419794.	1991	224684.	1980	27695.
2012	3208050.	2001	1215616.	1990	198798.	1979	26469.
2011	3074519.	2000	1029578.	1989	179614.	1978	24120.
2010	2933606.	1999	833675.	1988	142579.	1977	22301.
2009	2784673.	1998	657744.	1987	102530.	1976	22094.
2008	2641935.	1997	542366.	1986	70998.	1975	21927.
2007	2436883.	1996	462930.	1985	59652.	1974	21664.
2006	2239031.	1995	394773.	1984	52114.	0	0.
2005	1990585.	1994	324098.	1983	45574.	0	0.
2004	1842738.	1993	290149.	1982	39488.	0	0.

DISP MEAN SSD IV REI  
 S4 23.5 YRS. 0.8942E+10 14 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3760374.	2003	1631905.	1992	258615.	1981	30240.
2013	3620398.	2002	1420745.	1991	224755.	1980	27768.
2012	3205401.	2001	1215629.	1990	199187.	1979	26508.
2011	3072605.	2000	1028726.	1989	180207.	1978	24140.
2010	2932729.	1999	832138.	1988	143265.	1977	22310.
2009	2784993.	1998	655801.	1987	103216.	1976	22098.
2008	2643386.	1997	540265.	1986	71619.	1975	21928.
2007	2439259.	1996	460888.	1985	60168.	1974	21664.
2006	2241906.	1995	393050.	1984	52513.	0	0.
2005	1993496.	1994	322787.	1983	45862.	0	0.
2004	1845275.	1993	289328.	1982	39683.	0	0.

DISP MEAN SSD IV REI  
 S5 22.9 YRS. 0.1067E+11 16 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3764176.	2003	1635080.	1992	258964.	1981	30255.
2013	3620988.	2002	1422825.	1991	225525.	1980	27773.
2012	3204838.	2001	1216659.	1990	200163.	1979	26510.
2011	3072701.	2000	1028769.	1989	181188.	1978	24140.
2010	2934608.	1999	831316.	1988	144112.	1977	22310.
2009	2788910.	1998	654330.	1987	103862.	1976	22098.
2008	2648868.	1997	538450.	1986	72060.	1975	21928.
2007	2445452.	1996	459084.	1985	60440.	1974	21664.
2006	2247963.	1995	391584.	1984	52665.	0	0.
2005	1998817.	1994	321890.	1983	45939.	0	0.
2004	1849563.	1993	289085.	1982	39718.	0	0.

DISP MEAN SSD IV REI  
 S6 22.8 YRS. 0.1286E+11 17 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3768974.	2003	1637295.	1992	259860.	1981	30255.
2013	3621863.	2002	1424573.	1991	226681.	1980	27773.
2012	3204318.	2001	1217849.	1990	201272.	1979	26510.
2011	3073720.	2000	1029324.	1989	182034.	1978	24140.
2010	2939035.	1999	831151.	1988	144646.	1977	22310.
2009	2796367.	1998	653458.	1987	104145.	1976	22098.
2008	2657204.	1997	537127.	1986	72187.	1975	21928.
2007	2452559.	1996	457756.	1985	60489.	1974	21664.
2006	2253064.	1995	390672.	1984	52681.	0	0.
2005	2002353.	1994	321613.	1983	45943.	0	0.
2004	1852257.	1993	289460.	1982	39719.	0	0.

DISP MEAN SSD IV REI  
 SQ 24.8 YRS. 0.3797E+11 30 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3829045.	2003	1644048.	1992	264898.	1981	30255.
2013	3687967.	2002	1429849.	1991	229471.	1980	27773.
2012	3280380.	2001	1221053.	1990	202591.	1979	26510.
2011	3151040.	2000	1031110.	1989	182560.	1978	24140.
2010	2998339.	1999	832014.	1988	144818.	1977	22310.
2009	2837416.	1998	655798.	1987	104190.	1976	22098.
2008	2684745.	1997	544073.	1986	72196.	1975	21928.
2007	2471962.	1996	465053.	1985	60490.	1974	21664.
2006	2271845.	1995	396884.	1984	52681.	0	0.
2005	2016042.	1994	331435.	1983	45943.	0	0.
2004	1861231.	1993	295996.	1982	39719.	0	0.

DISP MEAN SSD IV REI  
 L0 69.0 YRS. 0.8419E+10 14 36.03

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3791151.	2003	1621324.	1992	257781.	1981	29145.
2013	3635933.	2002	1412801.	1991	223541.	1980	26830.
2012	3209376.	2001	1210160.	1990	197676.	1979	25719.
2011	3068010.	2000	1025387.	1989	178504.	1978	23488.
2010	2922142.	1999	830439.	1988	141459.	1977	21783.
2009	2770530.	1998	655204.	1987	101370.	1976	21687.
2008	2626810.	1997	540301.	1986	69790.	1975	21622.
2007	2422027.	1996	461184.	1985	58423.	1974	21450.
2006	2225194.	1995	393301.	1984	50907.	0	0.
2005	1978215.	1994	322762.	1983	44424.	0	0.
2004	1832136.	1993	288909.	1982	38421.	0	0.

DISP MEAN SSD IV REI  
 L1 44.2 YRS. 0.8064E+10 14 57.85

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3781387.	2003	1624499.	1992	258305.	1981	29376.
2013	3630662.	2002	1415403.	1991	223956.	1980	27057.
2012	3207751.	2001	1212260.	1990	197990.	1979	25935.
2011	3069134.	2000	1027084.	1989	178737.	1978	23686.
2010	2925165.	1999	831850.	1988	141645.	1977	21958.
2009	2774713.	1998	656427.	1987	101543.	1976	21832.
2008	2631568.	1997	541384.	1986	69975.	1975	21735.
2007	2426918.	1996	462144.	1985	58624.	1974	21532.
2006	2229908.	1995	394151.	1984	51120.	0	0.
2005	1982536.	1994	323508.	1983	44646.	0	0.
2004	1835911.	1993	289546.	1982	38648.	0	0.

DISP MEAN SSD IV REI  
 L2 33.0 YRS. 0.8358E+10 14 82.32

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3774455.	2003	1629001.	1992	258971.	1981	29687.
2013	3628331.	2002	1419141.	1991	224557.	1980	27342.
2012	3208924.	2001	1215280.	1990	198531.	1979	26191.
2011	3072879.	2000	1029467.	1989	179219.	1978	23912.
2010	2930579.	1999	833718.	1988	142079.	1977	22154.
2009	2781082.	1998	657928.	1987	101956.	1976	21997.
2008	2638324.	1997	542634.	1986	70384.	1975	21867.
2007	2433646.	1996	463207.	1985	59030.	1974	21630.
2006	2236320.	1995	395069.	1984	51511.	0	0.
2005	1988451.	1994	324327.	1983	45013.	0	0.
2004	1841173.	1993	290287.	1982	38987.	0	0.

DISP MEAN SSD IV REI  
 L3 27.6 YRS. 0.8540E+10 14 96.12

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3766515.	2003	1630407.	1992	258987.	1981	29957.
2013	3624137.	2002	1420081.	1991	224678.	1980	27571.
2012	3207445.	2001	1215822.	1990	198751.	1979	26379.
2011	3073308.	2000	1029700.	1989	179523.	1978	24060.
2010	2932282.	1999	833728.	1988	142445.	1977	22264.
2009	2783562.	1998	657789.	1987	102357.	1976	22074.
2008	2641182.	1997	542408.	1986	70794.	1975	21917.
2007	2436566.	1996	462951.	1985	59429.	1974	21660.
2006	2239053.	1995	394834.	1984	51886.	0	0.
2005	1990819.	1994	324152.	1983	45357.	0	0.
2004	1843073.	1993	290199.	1982	39295.	0	0.

DISP MEAN SSD IV REI  
 L4 24.7 YRS. 0.8771E+10 14 99.97

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3762676.	2003	1631316.	1992	259024.	1981	30169.
2013	3622198.	2002	1420543.	1991	224936.	1980	27731.
2012	3207113.	2001	1215860.	1990	199150.	1979	26491.
2011	3074358.	2000	1029341.	1989	179987.	1978	24133.
2010	2934439.	1999	833028.	1988	142922.	1977	22308.
2009	2786431.	1998	656845.	1987	102817.	1976	22097.
2008	2644293.	1997	541354.	1986	71225.	1975	21928.
2007	2439494.	1996	461939.	1985	59826.	1974	21664.
2006	2241529.	1995	394003.	1984	52245.	0	0.
2005	1992745.	1994	323596.	1983	45672.	0	0.
2004	1844467.	1993	289951.	1982	39560.	0	0.

DISP MEAN SSD IV REI  
 L5 23.4 YRS. 0.9764E+10 15 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3763918.	2003	1633665.	1992	258830.	1981	30252.
2013	3621833.	2002	1422158.	1991	225157.	1980	27772.
2012	3205862.	2001	1216615.	1990	199658.	1979	26510.
2011	3073266.	2000	1029224.	1989	180649.	1978	24140.
2010	2934367.	1999	832142.	1988	143623.	1977	22310.
2009	2787711.	1998	655380.	1987	103478.	1976	22098.
2008	2646717.	1997	539569.	1986	71797.	1975	21928.
2007	2442583.	1996	460118.	1985	60285.	1974	21664.
2006	2244831.	1995	392405.	1984	52586.	0	0.
2005	1995952.	1994	322409.	1983	45905.	0	0.
2004	1847351.	1993	289264.	1982	39706.	0	0.

DISP MEAN SSD IV REI  
 R1 58.0 YRS. 0.8576E+10 14 33.49

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3798820.	2003	1618649.	1992	257301.	1981	29094.
2013	3641512.	2002	1410494.	1991	223116.	1980	26764.
2012	3213010.	2001	1208263.	1990	197316.	1979	25642.
2011	3069671.	2000	1023910.	1989	178238.	1978	23401.
2010	2922191.	1999	829335.	1988	141303.	1977	21689.
2009	2769319.	1998	654345.	1987	101293.	1976	21589.
2008	2624730.	1997	539570.	1986	69745.	1975	21526.
2007	2419414.	1996	460536.	1985	58381.	1974	21367.
2006	2222305.	1995	392725.	1984	50864.	0	0.
2005	1975209.	1994	322224.	1983	44380.	0	0.
2004	1829185.	1993	288388.	1982	38376.	0	0.

DISP MEAN SSD IV REI  
 R2 36.7 YRS. 0.8048E+10 14 74.47

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3789541.	2003	1622676.	1992	258129.	1981	29312.
2013	3636384.	2002	1413909.	1991	223829.	1980	26976.
2012	3211293.	2001	1211096.	1990	197913.	1979	25844.
2011	3070741.	2000	1026221.	1989	178714.	1978	23590.
2010	2925260.	1999	831225.	1988	141668.	1977	21862.
2009	2773708.	1998	655950.	1987	101587.	1976	21742.
2008	2629846.	1997	540991.	1986	70010.	1975	21655.
2007	2424796.	1996	461810.	1985	58636.	1974	21467.
2006	2227626.	1995	393867.	1984	51110.	0	0.
2005	1980265.	1994	323260.	1983	44616.	0	0.
2004	1833800.	1993	289328.	1982	38601.	0	0.

DISP MEAN SSD IV REI  
 R3 28.0 YRS. 0.7903E+10 13 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3773929.	2003	1626463.	1992	259180.	1981	29697.
2013	3627779.	2002	1416981.	1991	224770.	1980	27336.
2012	3208124.	2001	1213557.	1990	198738.	1979	26173.
2011	3071676.	2000	1028194.	1989	179414.	1978	23885.
2010	2928933.	1999	832858.	1988	142257.	1977	22120.
2009	2779001.	1998	657405.	1987	102106.	1976	21960.
2008	2635865.	1997	542367.	1986	70500.	1975	21831.
2007	2430902.	1996	463131.	1985	59112.	1974	21600.
2006	2233411.	1995	395129.	1984	51569.	0	0.
2005	1985510.	1994	324469.	1983	45052.	0	0.
2004	1838358.	1993	290474.	1982	39011.	0	0.

DISP MEAN SSD IV REI  
 R4 24.8 YRS. 0.7922E+10 14 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3765942.	2003	1628919.	1992	259563.	1981	30043.
2013	3625538.	2002	1418305.	1991	225238.	1980	27629.
2012	3210270.	2001	1213973.	1990	199259.	1979	26414.
2011	3076871.	2000	1027971.	1989	179966.	1978	24078.
2010	2935899.	1999	832281.	1988	142822.	1977	22270.
2009	2786692.	1998	656735.	1987	102675.	1976	22074.
2008	2643510.	1997	541793.	1986	71062.	1975	21913.
2007	2437978.	1996	462754.	1985	59653.	1974	21656.
2006	2239562.	1995	394982.	1984	52072.	0	0.
2005	1990509.	1994	324542.	1983	45508.	0	0.
2004	1842083.	1993	290728.	1982	39413.	0	0.

DISP MEAN SSD IV REI  
 R5 23.1 YRS. 0.9713E+10 15 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3758450.	2003	1633203.	1992	259128.	1981	30246.
2013	3618234.	2002	1421361.	1991	225395.	1980	27770.
2012	3204299.	2001	1215550.	1990	199818.	1979	26509.
2011	3073182.	2000	1027998.	1989	180740.	1978	24140.
2010	2934915.	1999	830924.	1988	143666.	1977	22310.
2009	2788265.	1998	654347.	1987	103489.	1976	22098.
2008	2647103.	1997	538839.	1986	71788.	1975	21928.
2007	2442893.	1996	459742.	1985	60265.	1974	21664.
2006	2245112.	1995	392353.	1984	52565.	0	0.
2005	1996108.	1994	322585.	1983	45888.	0	0.
2004	1847238.	1993	289554.	1982	39695.	0	0.

DISP MEAN SSD IV REI  
 O1 96.8 YRS. 0.8854E+10 14 24.02

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3802183.	2003	1617410.	1992	257060.	1981	29042.
2013	3643628.	2002	1409442.	1991	222910.	1980	26710.
2012	3214058.	2001	1207396.	1990	197146.	1979	25587.
2011	3069794.	2000	1023215.	1989	178110.	1978	23348.
2010	2921615.	1999	828781.	1988	141214.	1977	21638.
2009	2768251.	1998	653882.	1987	101229.	1976	21540.
2008	2623362.	1997	539163.	1986	69691.	1975	21484.
2007	2417898.	1996	460172.	1985	58328.	1974	21333.
2006	2220752.	1995	392399.	1984	50811.	0	0.
2005	1973694.	1994	321926.	1983	44328.	0	0.
2004	1827777.	1993	288115.	1982	38325.	0	0.

DISP MEAN SSD IV REI  
 O2 108.1 YRS. 0.8852E+10 14 24.20

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3800807.	2003	1617088.	1992	257010.	1981	29034.
2013	3642388.	2002	1409171.	1991	222869.	1980	26703.
2012	3212944.	2001	1207170.	1990	197112.	1979	25581.
2011	3068796.	2000	1023026.	1989	178082.	1978	23343.
2010	2920727.	1999	828622.	1988	141191.	1977	21634.
2009	2767466.	1998	653749.	1987	101210.	1976	21537.
2008	2622673.	1997	539050.	1986	69675.	1975	21482.
2007	2417298.	1996	460076.	1985	58314.	1974	21331.
2006	2220234.	1995	392317.	1984	50799.	0	0.
2005	1973248.	1994	321857.	1983	44317.	0	0.
2004	1827396.	1993	288057.	1982	38316.	0	0.

DISP MEAN SSD IV REI  
 O3 159.0 YRS. 0.8868E+10 14 23.52

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3801688.	2003	1617186.	1992	257023.	1981	29035.
2013	3643131.	2002	1409253.	1991	222879.	1980	26703.
2012	3213563.	2001	1207239.	1990	197120.	1979	25581.
2011	3069307.	2000	1023085.	1989	178089.	1978	23342.
2010	2921145.	1999	828673.	1988	141198.	1977	21633.
2009	2767805.	1998	653792.	1987	101216.	1976	21536.
2008	2622948.	1997	539086.	1986	69680.	1975	21481.
2007	2417521.	1996	460105.	1985	58317.	1974	21330.
2006	2220414.	1995	392341.	1984	50802.	0	0.
2005	1973394.	1994	321876.	1983	44320.	0	0.
2004	1827514.	1993	288072.	1982	38318.	0	0.

DISP MEAN SSD IV REI  
 O4 214.8 YRS. 0.8882E+10 14 23.34

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3800751.	2003	1616903.	1992	256978.	1981	29027.
2013	3642258.	2002	1409015.	1991	222841.	1980	26696.
2012	3212751.	2001	1207040.	1990	197089.	1979	25575.
2011	3068553.	2000	1022920.	1989	178064.	1978	23337.
2010	2920452.	1999	828536.	1988	141177.	1977	21628.
2009	2767176.	1998	653676.	1987	101200.	1976	21532.
2008	2622382.	1997	538987.	1986	69666.	1975	21477.
2007	2417018.	1996	460021.	1985	58305.	1974	21328.
2006	2219971.	1995	392269.	1984	50791.	0	0.
2005	1973008.	1994	321814.	1983	44310.	0	0.
2004	1827182.	1993	288019.	1982	38309.	0	0.

DISP MEAN SSD IV REI  
 S0.5 39.2 YRS. 0.8255E+10 14 64.76

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3781267.	2003	1625458.	1992	258549.	1981	29371.
2013	3630544.	2002	1416254.	1991	224180.	1980	27055.
2012	3207713.	2001	1212981.	1990	198187.	1979	25938.
2011	3069335.	2000	1027665.	1989	178892.	1978	23694.
2010	2925600.	1999	832300.	1988	141748.	1977	21973.
2009	2775368.	1998	656789.	1987	101603.	1976	21853.
2008	2632388.	1997	541702.	1986	70008.	1975	21759.
2007	2427846.	1996	462435.	1985	58644.	1974	21555.
2006	2230900.	1995	394420.	1984	51130.	0	0.
2005	1983570.	1994	323767.	1983	44648.	0	0.
2004	1836945.	1993	289802.	1982	38644.	0	0.

DISP MEAN SSD IV REI  
 S1.5 30.6 YRS. 0.8377E+10 14 92.59

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3771964.	2003	1628650.	1992	259110.	1981	29689.
2013	3626379.	2002	1418857.	1991	224648.	1980	27351.
2012	3207484.	2001	1215096.	1990	198579.	1979	26204.
2011	3071875.	2000	1029400.	1989	179228.	1978	23925.
2010	2929902.	1999	833765.	1988	142059.	1977	22165.
2009	2780617.	1998	658070.	1987	101917.	1976	22005.
2008	2637963.	1997	542838.	1986	70338.	1975	21872.
2007	2433312.	1996	463441.	1985	58985.	1974	21633.
2006	2235971.	1995	395305.	1984	51476.	0	0.
2005	1988080.	1994	324543.	1983	44991.	0	0.
2004	1840795.	1993	290469.	1982	38978.	0	0.

DISP MEAN SSD IV REI  
 S2.5 26.6 YRS. 0.8292E+10 14 99.82

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3766443.	2003	1629714.	1992	259155.	1981	29980.
2013	3624600.	2002	1419602.	1991	224767.	1980	27592.
2012	3208199.	2001	1215587.	1990	198776.	1979	26396.
2011	3074091.	2000	1029697.	1989	179502.	1978	24071.
2010	2932874.	1999	833918.	1988	142399.	1977	22271.
2009	2783819.	1998	658115.	1987	102305.	1976	22077.
2008	2641050.	1997	542811.	1986	70752.	1975	21918.
2007	2436077.	1996	463373.	1985	59404.	1974	21659.
2006	2238310.	1995	395229.	1984	51881.	0	0.
2005	1989962.	1994	324486.	1983	45367.	0	0.
2004	1842241.	1993	290453.	1982	39315.	0	0.



DISP MEAN SSD IV REI  
 L0.5 55.6 YRS. 0.8244E+10 14 44.45

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3789432.	2003	1622369.	1992	257968.	1981	29219.
2013	3635398.	2002	1413661.	1991	223693.	1980	26900.
2012	3209755.	2001	1210863.	1990	197796.	1979	25784.
2011	3069048.	2000	1025966.	1989	178600.	1978	23546.
2010	2923606.	1999	830927.	1988	141541.	1977	21834.
2009	2772216.	1998	655629.	1987	101446.	1976	21728.
2008	2628573.	1997	540678.	1986	69866.	1975	21653.
2007	2423747.	1996	461517.	1985	58500.	1974	21473.
2006	2226801.	1995	393597.	1984	50984.	0	0.
2005	1979653.	1994	323021.	1983	44501.	0	0.
2004	1833381.	1993	289131.	1982	38497.	0	0.

DISP MEAN SSD IV REI  
 L1.5 38.1 YRS. 0.8124E+10 14 70.07

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3778530.	2003	1626135.	1992	258623.	1981	29480.
2013	3629452.	2002	1416751.	1991	224239.	1980	27154.
2012	3207847.	2001	1213345.	1990	198239.	1979	26025.
2011	3070234.	2000	1027944.	1989	178948.	1978	23768.
2010	2926955.	1999	832539.	1988	141822.	1977	22031.
2009	2776929.	1998	657004.	1987	101699.	1976	21895.
2008	2633984.	1997	541890.	1986	70119.	1975	21786.
2007	2429362.	1996	462598.	1985	58760.	1974	21570.
2006	2232255.	1995	394561.	1984	51248.	0	0.
2005	1984707.	1994	323887.	1983	44765.	0	0.
2004	1837837.	1993	289897.	1982	38759.	0	0.

DISP MEAN SSD IV REI  
 L2.5 30.1 YRS. 0.8345E+10 14 90.21

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3768686.	2003	1628884.	1992	258989.	1981	29785.
2013	3624484.	2002	1418941.	1991	224606.	1980	27425.
2012	3206542.	2001	1215033.	1990	198608.	1979	26260.
2011	3071569.	2000	1029206.	1989	179316.	1978	23966.
2010	2930006.	1999	833467.	1988	142192.	1977	22194.
2009	2780971.	1998	657700.	1987	102078.	1976	22025.
2008	2638459.	1997	542438.	1986	70511.	1975	21885.
2007	2433868.	1996	463051.	1985	59156.	1974	21641.
2006	2236519.	1995	394958.	1984	51635.	0	0.
2005	1988559.	1994	324262.	1983	45131.	0	0.
2004	1841164.	1993	290266.	1982	39096.	0	0.

DISP MEAN SSD IV REI  
R1.5 45.8 YRS. 0.8338E+10 14 47.86

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3794924.	2003	1619745.	1992	257537.	1981	29156.
2013	3639023.	2002	1411426.	1991	223319.	1980	26825.
2012	3211692.	2001	1209034.	1990	197486.	1979	25701.
2011	3069326.	2000	1024536.	1989	178373.	1978	23457.
2010	2922566.	1999	829843.	1988	141404.	1977	21741.
2009	2770193.	1998	654775.	1987	101373.	1976	21635.
2008	2625910.	1997	539954.	1986	69817.	1975	21566.
2007	2420746.	1996	460883.	1985	58450.	1974	21398.
2006	2223677.	1995	393039.	1984	50931.	0	0.
2005	1976549.	1994	322513.	1983	44445.	0	0.
2004	1830430.	1993	288653.	1982	38439.	0	0.

DISP MEAN SSD IV REI  
R2.5 31.6 YRS. 0.7974E+10 14 94.41

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	3780353.	2003	1623874.	1992	258524.	1981	29455.
2013	3630222.	2002	1414931.	1991	224180.	1980	27112.
2012	3207544.	2001	1211950.	1990	198218.	1979	25969.
2011	3068892.	2000	1026930.	1989	178970.	1978	23703.
2010	2924782.	1999	831828.	1988	141881.	1977	21962.
2009	2774161.	1998	656498.	1987	101773.	1976	21827.
2008	2630871.	1997	541515.	1986	70185.	1975	21725.
2007	2426124.	1996	462315.	1985	58808.	1974	21520.
2006	2229074.	1995	394348.	1984	51277.	0	0.
2005	1981716.	1994	323718.	1983	44776.	0	0.
2004	1835160.	1993	289761.	1982	38753.	0	0.

S2.5 26.6 YRS. 0.8292E+10 14 71 99.82  
S3 25.2 YRS. 0.8244E+10 14 71 100.00  
S4 23.5 YRS. 0.8942E+10 14 71 100.00

L0.5 55.6 YRS. 0.8244E+10 14 71 44.45  
L1 44.2 YRS. 0.8064E+10 14 71 57.85  
L1.5 38.1 YRS. 0.8124E+10 14 71 70.07

R2.5 31.6 YRS. 0.7974E+10 14 71 94.41  
R3 28.0 YRS. 0.7903E+10 13 76 100.00  
R4 24.8 YRS. 0.7922E+10 14 71 100.00

SIMULATED PLANT RECORD ANALYSIS  
BOARD  
SIMULATED BALANCE METHOD

SURFACE TRANSPORTATION

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 367 Underground Conductors & Devices

ANALYSIS BAND = 1974 THRU 2014

INCREMENT = 1

CURVE	IV	CI	REI
S0 - 46.4	14	71	50.08
S0.5 - 39.2	14	71	64.76
S1 - 33.7	14	71	81.67
S1.5 - 30.6	14	71	92.59
S2 - 27.9	14	71	98.88
S2.5 - 26.6	14	71	99.82
S3 - 25.2	14	71	100.00
S4 - 23.5	14	71	100.00
S5 - 22.9	16	62	100.00
S6 - 22.8	17	58	100.00
SQ - 24.8	30	33	100.00
L0 - 69.0	14	71	36.03
L0.5 - 55.6	14	71	44.45
L1 - 44.2	14	71	57.85
L1.5 - 38.1	14	71	70.07
L2 - 33.0	14	71	82.32
L2.5 - 30.1	14	71	90.21
L3 - 27.6	14	71	96.12
L4 - 24.7	14	71	99.97
L5 - 23.4	15	66	100.00
R1 - 58.0	14	71	33.49
R1.5 - 45.8	14	71	47.86
R2 - 36.7	14	71	74.47
R2.5 - 31.6	14	71	94.41
R3 - 28.0	13	76	100.00
R4 - 24.8	14	71	100.00
R5 - 23.1	15	66	100.00
O1 - 96.8	14	71	24.02
O2 -108.1	14	71	24.20
O3 -159.0	14	71	23.52
O4 -214.8	14	71	23.34

September 2, 2015

XXXXXù

95! +XXX

90! +X\*

85! XX

80! X+

75! ù +

70! \* ++

65! ù +

60! \* ++

55! ù +

50! \* ++

45! ù +

40! \* +

35!

30! ù \*

25!

20! ù \*

15! ù

10! \*

5! ùù\*\*

0!----!----!----!----ùùXX\*----!----!----!----!----!----!----!----!----!----!----!----!----!

00+ 10+ 20+ 30+ 40+ 50+ 60+ 70+ 80+ 90+ 100+ 110+ 120+ 130+ 140+ 150+

(X) CURVE OVERLAP

(ù) S3 25.2

(+) L1 44.2

(\*) R3 28.0

SIMULATED PLANT RECORD ANALYSIS  
BOARD  
SIMULATED BALANCE METHOD

SURFACE TRANSPORTATION

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 368 Line Transformers

ACCOUNT CONTROL INFORMATION

EARLIEST ADDITION = 1941 LATEST ADDITION = 2014  
EARLIEST BALANCE = 1948 LATEST BALANCE = 2014  
EARLIEST RETIREMENT = 1948 LATEST RETIREMENT = 2014 INPUT = ADD & RET

SIMULATED PLANT RECORD ANALYSIS  
BOARD

SURFACE TRANSPORTATION

SIMULATED BALANCE METHOD

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 368 Line Transformers

ANALYSIS BAND = 1948 THRU 2014 INCREMENT = 1

DISP MEAN SSD IV REI  
S0 41.8 YRS. 0.9641E+13 93 94.75

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9521341.	1997	6962126.	1980	3951191.	1963	975566.
2013	9471097.	1996	6766156.	1979	3453227.	1962	941520.
2012	9350791.	1995	6556134.	1978	3179280.	1961	893740.
2011	9165481.	1994	6357822.	1977	2916812.	1960	851077.
2010	9175717.	1993	6175318.	1976	2521866.	1959	781407.
2009	9021699.	1992	6010036.	1975	2241052.	1958	716592.
2008	8857175.	1991	5889320.	1974	2024553.	1957	655963.
2007	8577818.	1990	5817656.	1973	1815843.	1956	604962.
2006	8335308.	1989	5765213.	1972	1586832.	1955	568763.
2005	8171953.	1988	5620130.	1971	1438042.	1954	526258.
2004	8071760.	1987	5481358.	1970	1345680.	1953	501293.
2003	7943512.	1986	5223772.	1969	1263692.	1952	480976.
2002	7831241.	1985	4960078.	1968	1212017.	1951	395441.
2001	7637484.	1984	4754931.	1967	1136928.	1950	359962.
2000	7496587.	1983	4456346.	1966	1106426.	1949	300337.
1999	7312249.	1982	4316625.	1965	1034758.	1948	219391.
1998	7184574.	1981	4210974.	1964	1000728.	0	0.

DISP MEAN SSD IV REI  
S1 38.5 YRS. 0.1291E+14 108 99.87

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9404065.	1997	7077624.	1980	4011307.	1963	1002228.
2013	9375599.	1996	6884972.	1979	3509268.	1962	965901.
2012	9276219.	1995	6677136.	1978	3231872.	1961	915830.
2011	9110976.	1994	6479854.	1977	2966538.	1960	870900.
2010	9140280.	1993	6297217.	1976	2569343.	1959	799027.
2009	9004448.	1992	6130629.	1975	2286723.	1958	732092.
2008	8857266.	1991	6007451.	1974	2068721.	1957	669419.
2007	8594393.	1990	5932246.	1973	1858734.	1956	616454.
2006	8367361.	1989	5875344.	1972	1628592.	1955	578377.
2005	8218291.	1988	5725159.	1971	1478676.	1954	534099.
2004	8131086.	1987	5580839.	1970	1385080.	1953	507492.
2003	8014545.	1986	5317500.	1969	1301719.	1952	485698.
2002	7912708.	1985	5047951.	1968	1248508.	1951	398917.

2001	7728176.	1984	4836908.	1967	1171732.	1950	362409.
2000	7595271.	1983	4532508.	1966	1139385.	1949	301991.
1999	7417717.	1982	4387060.	1965	1065745.	1948	220497.
1998	7295623.	1981	4275958.	1964	1029607.	0	0.

DISP      MEAN            SSD            IV            REI  
S2        36.2 YRS.    0.1550E+14    118        100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9238193.	1997	7146057.	1980	4045707.	1963	1020076.
2013	9234173.	1996	6953702.	1979	3543785.	1962	981589.
2012	9158483.	1995	6745086.	1978	3266636.	1961	929435.
2011	9015997.	1994	6546102.	1977	3001580.	1960	882528.
2010	9066964.	1993	6361011.	1976	2604598.	1959	808808.
2009	8951560.	1992	6191425.	1975	2322036.	1958	740169.
2008	8823429.	1991	6064897.	1974	2103877.	1957	675954.
2007	8578101.	1990	5986178.	1973	1893468.	1956	621622.
2006	8366992.	1989	5925780.	1972	1662618.	1955	582359.
2005	8232161.	1988	5772268.	1971	1511697.	1954	537084.
2004	8157499.	1987	5624905.	1970	1416815.	1953	509664.
2003	8051796.	1986	5358879.	1969	1331911.	1952	487234.
2002	7959100.	1985	5087057.	1968	1276938.	1951	399972.
2001	7782038.	1984	4874191.	1967	1198225.	1950	363116.
2000	7654994.	1983	4568428.	1966	1163805.	1949	302457.
1999	7481766.	1982	4422072.	1965	1088001.	1948	220800.
1998	7362539.	1981	4310485.	1964	1049659.	0	0.

DISP      MEAN            SSD            IV            REI  
S3        35.3 YRS.    0.1720E+14    124        100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9189155.	1997	7230322.	1980	4080182.	1963	1030370.
2013	9207944.	1996	7029482.	1979	3579420.	1962	989979.
2012	9154637.	1995	6812350.	1978	3303066.	1961	936144.
2011	9033604.	1994	6605174.	1977	3038374.	1960	887787.
2010	9104636.	1993	6412512.	1976	2641290.	1959	812844.
2009	9007475.	1992	6236205.	1975	2358156.	1958	743199.
2008	8895391.	1991	6103975.	1974	2138968.	1957	678177.
2007	8663632.	1990	6020681.	1973	1927112.	1956	623213.
2006	8463411.	1989	5956865.	1972	1694449.	1955	583470.
2005	8336665.	1988	5801051.	1971	1541414.	1954	537840.
2004	8267269.	1987	5652424.	1970	1444191.	1953	510165.
2003	8164096.	1986	5386050.	1969	1356792.	1952	487557.
2002	8071371.	1985	5114637.	1968	1299239.	1951	400175.
2001	7891971.	1984	4902752.	1967	1217925.	1950	363238.
2000	7760576.	1983	4598350.	1966	1180954.	1949	302527.
1999	7581340.	1982	4453549.	1965	1102704.	1948	220837.
1998	7454867.	1981	4343533.	1964	1062064.	0	0.

DISP MEAN SSD IV REI  
 S4 34.4 YRS. 0.1864E+14 129 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9055499.	1997	7278717.	1980	4109050.	1963	1034888.
2013	9108354.	1996	7064060.	1979	3611502.	1962	993285.
2012	9090394.	1995	6834411.	1978	3337368.	1961	938510.
2011	9004568.	1994	6616482.	1977	3073860.	1960	889440.
2010	9109237.	1993	6415138.	1976	2676931.	1959	813970.
2009	9042830.	1992	6232368.	1975	2393002.	1958	743946.
2008	8957484.	1991	6095914.	1974	2172190.	1957	678658.
2007	8747574.	1990	6010547.	1973	1958039.	1956	623513.
2006	8563746.	1989	5946638.	1972	1722582.	1955	583652.
2005	8447690.	1988	5792468.	1971	1566441.	1954	537946.
2004	8383340.	1987	5646934.	1970	1465971.	1953	510224.
2003	8279958.	1986	5384772.	1969	1375342.	1952	487588.
2002	8182390.	1985	5118347.	1968	1314705.	1951	400190.
2001	7994318.	1984	4911881.	1967	1230551.	1950	363245.
2000	7851361.	1983	4612997.	1966	1191043.	1949	302530.
1999	7658662.	1982	4473501.	1965	1110594.	1948	220838.
1998	7517765.	1981	4368300.	1964	1068102.	0	0.

DISP MEAN SSD IV REI  
 S5 34.3 YRS. 0.1967E+14 133 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9012101.	1997	7310250.	1980	4142453.	1963	1035637.
2013	9094900.	1996	7084242.	1979	3647297.	1962	993728.
2012	9109800.	1995	6846029.	1978	3373749.	1961	938760.
2011	9057652.	1994	6621997.	1977	3109134.	1960	889573.
2010	9194430.	1993	6416531.	1976	2709726.	1959	814038.
2009	9156199.	1992	6231104.	1975	2422364.	1958	743978.
2008	9093147.	1991	6093038.	1974	2197603.	1957	678672.
2007	8898274.	1990	6006856.	1973	1979368.	1956	623519.
2006	8721586.	1989	5942881.	1972	1739985.	1955	583654.
2005	8604948.	1988	5789522.	1971	1580255.	1954	537947.
2004	8533141.	1987	5645881.	1970	1476648.	1953	510224.
2003	8416755.	1986	5386862.	1969	1383372.	1952	487588.
2002	8302282.	1985	5124843.	1968	1320575.	1951	400190.
2001	8095148.	1984	4923826.	1967	1234716.	1950	363245.
2000	7932609.	1983	4630989.	1966	1193905.	1949	302530.
1999	7721196.	1982	4497518.	1965	1112495.	1948	220838.
1998	7563509.	1981	4397647.	1964	1069319.	0	0.



DISP MEAN SSD IV REI  
 S6 34.1 YRS. 0.2046E+14 136 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	8927866.	1997	7307818.	1980	4168665.	1963	1035662.
2013	9032406.	1996	7076087.	1979	3674708.	1962	993736.
2012	9077551.	1995	6835281.	1978	3398889.	1961	938762.
2011	9059476.	1994	6611673.	1977	3130232.	1960	889574.
2010	9229161.	1993	6408760.	1976	2726656.	1959	814038.
2009	9218855.	1992	6226504.	1975	2435899.	1958	743978.
2008	9176460.	1991	6090568.	1974	2208594.	1957	678672.
2007	8994033.	1990	6004285.	1973	1988308.	1956	623519.
2006	8821585.	1989	5937752.	1972	1747037.	1955	583654.
2005	8701668.	1988	5780261.	1971	1585500.	1954	537947.
2004	8620482.	1987	5632596.	1970	1480259.	1953	510224.
2003	8490634.	1986	5371624.	1969	1385660.	1952	487588.
2002	8360852.	1985	5111273.	1968	1321908.	1951	400190.
2001	8138422.	1984	4916086.	1967	1235430.	1950	363245.
2000	7961742.	1983	4632386.	1966	1194257.	1949	302530.
1999	7737831.	1982	4509280.	1965	1112655.	1948	220838.
1998	7569512.	1981	4418390.	1964	1069385.	0	0.

DISP MEAN SSD IV REI  
 SQ 37.1 YRS. 0.2707E+14 156 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9847765.	1997	7445673.	1980	4246791.	1963	1035662.
2013	10056414.	1996	7236380.	1979	3719252.	1962	993736.
2012	10083035.	1995	7011365.	1978	3464388.	1961	938762.
2011	9982833.	1994	6797008.	1977	3177529.	1960	889574.
2010	10073000.	1993	6591909.	1976	2759729.	1959	814038.
2009	10022167.	1992	6392253.	1975	2458082.	1958	743978.
2008	9883840.	1991	6246430.	1974	2222499.	1957	678672.
2007	9577657.	1990	6135074.	1973	1996261.	1956	623519.
2006	9301293.	1989	6041293.	1972	1751105.	1955	583654.
2005	9077019.	1988	5923195.	1971	1587330.	1954	537947.
2004	8942516.	1987	5764546.	1970	1480973.	1953	510224.
2003	8738643.	1986	5514485.	1969	1385898.	1952	487588.
2002	8595205.	1985	5282827.	1968	1321974.	1951	400190.
2001	8336023.	1984	5136638.	1967	1235445.	1950	363245.
2000	8124174.	1983	4842372.	1966	1194260.	1949	302530.
1999	7881094.	1982	4678496.	1965	1112655.	1948	220838.
1998	7711679.	1981	4539071.	1964	1069385.	0	0.

DISP MEAN SSD IV REI  
 L0 50.7 YRS. 0.7417E+13 81 76.58

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9651786.	1997	6887901.	1980	3903350.	1963	956480.
2013	9580940.	1996	6688453.	1979	3409273.	1962	923835.
2012	9441236.	1995	6475650.	1978	3138727.	1961	877496.
2011	9237627.	1994	6275238.	1977	2879332.	1960	836288.
2010	9230844.	1993	6091328.	1976	2486929.	1959	768041.
2009	9061027.	1992	5925369.	1975	2208152.	1958	704588.
2008	8881714.	1991	5804770.	1974	1993364.	1957	645265.
2007	8588410.	1990	5734094.	1973	1786090.	1956	595526.
2006	8332757.	1989	5683531.	1972	1558213.	1955	560567.
2005	8157233.	1988	5541050.	1971	1410364.	1954	519274.
2004	8045997.	1987	5405436.	1970	1318894.	1953	495506.
2003	7907853.	1986	5151345.	1969	1237819.	1952	476365.
2002	7786787.	1985	4891334.	1968	1187113.	1951	391890.
2001	7585226.	1984	4690070.	1967	1113044.	1950	357348.
2000	7437483.	1983	4395460.	1966	1083641.	1949	298535.
1999	7247225.	1982	4259903.	1965	1013129.	1948	218208.
1998	7114547.	1981	4158706.	1964	980319.	0	0.

DISP MEAN SSD IV REI  
 L1 43.6 YRS. 0.1035E+14 96 88.61

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9519476.	1997	6993210.	1980	3960942.	1963	984651.
2013	9468294.	1996	6799601.	1979	3461745.	1962	950054.
2012	9347505.	1995	6591438.	1978	3186899.	1961	901656.
2011	9162143.	1994	6394388.	1977	2923976.	1960	858325.
2010	9172765.	1993	6212467.	1976	2528960.	1959	787959.
2009	9019730.	1992	6047033.	1975	2248292.	1958	722416.
2008	8856731.	1991	5925445.	1974	2032137.	1957	661025.
2007	8579373.	1990	5852270.	1973	1823926.	1956	609247.
2006	8339182.	1989	5797803.	1972	1595474.	1955	572277.
2005	8178395.	1988	5650352.	1971	1447190.	1954	529026.
2004	8081005.	1987	5508979.	1970	1355245.	1953	503372.
2003	7955784.	1986	5248669.	1969	1273576.	1952	482470.
2002	7846714.	1985	4982138.	1968	1222100.	1951	396468.
2001	7656271.	1984	4774143.	1967	1147083.	1950	360620.
2000	7518672.	1983	4472777.	1966	1116516.	1949	300759.
1999	7337537.	1982	4330384.	1965	1044655.	1948	219688.
1998	7212883.	1981	4222448.	1964	1010276.	0	0.

DISP MEAN SSD IV REI  
 L2 39.4 YRS. 0.1363E+14 111 96.18

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9350291.	1997	7107618.	1980	4011448.	1963	1009451.
2013	9324147.	1996	6914543.	1979	3510532.	1962	972198.
2012	9228145.	1995	6705291.	1978	3234417.	1961	921218.
2011	9067279.	1994	6505733.	1977	2970443.	1960	875439.
2010	9101863.	1993	6320152.	1976	2574605.	1959	802792.
2009	8972127.	1992	6150177.	1975	2293274.	1958	735163.
2008	8831670.	1991	6023405.	1974	2076438.	1957	671876.
2007	8575986.	1990	5944606.	1973	1867452.	1956	618375.
2006	8356353.	1989	5884314.	1972	1638123.	1955	579840.
2005	8214653.	1988	5731093.	1971	1488801.	1954	535183.
2004	8134545.	1987	5584207.	1970	1395574.	1953	508272.
2003	8024573.	1986	5318840.	1969	1312343.	1952	486245.
2002	7928579.	1985	5047830.	1968	1259031.	1951	399290.
2001	7748981.	1984	4835895.	1967	1181927.	1950	362656.
2000	7620023.	1983	4531129.	1966	1149049.	1949	302152.
1999	7445322.	1982	4385799.	1965	1074703.	1948	220600.
1998	7324974.	1981	4275226.	1964	1037737.	0	0.

DISP MEAN SSD IV REI  
 L3 37.0 YRS. 0.1621E+14 121 99.58

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9248753.	1997	7213840.	1980	4054451.	1963	1024457.
2013	9247789.	1996	7013454.	1979	3554041.	1962	985058.
2012	9177383.	1995	6796486.	1978	3278332.	1961	932137.
2011	9042046.	1994	6589199.	1977	3014551.	1960	884599.
2010	9101575.	1993	6396197.	1976	2618588.	1959	810369.
2009	8995612.	1992	6219366.	1975	2336733.	1958	741327.
2008	8877201.	1991	6086447.	1974	2118933.	1957	676800.
2007	8641273.	1990	6002322.	1973	1908521.	1956	622227.
2006	8438734.	1989	5937581.	1972	1677306.	1955	582783.
2005	8311167.	1988	5780770.	1971	1525698.	1954	537374.
2004	8242018.	1987	5631101.	1970	1429862.	1953	509856.
2003	8139834.	1986	5363681.	1969	1343797.	1952	487357.
2002	8048548.	1985	5091267.	1968	1287531.	1951	400050.
2001	7870731.	1984	4878479.	1967	1207468.	1950	363165.
2000	7740861.	1983	4573334.	1966	1171703.	1949	302488.
1999	7562995.	1982	4428017.	1965	1094614.	1948	220819.
1998	7437621.	1981	4317753.	1964	1055090.	0	0.

DISP MEAN SSD IV REI  
 L4 35.0 YRS. 0.1794E+14 127 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9078588.	1997	7245953.	1980	4086008.	1963	1032257.
2013	9110930.	1996	7038820.	1979	3588446.	1962	991418.
2012	9074206.	1995	6816075.	1978	3314517.	1961	937223.
2011	8972093.	1994	6604118.	1977	3051336.	1960	888578.
2010	9063277.	1993	6407548.	1976	2654870.	1959	813412.
2009	8986260.	1992	6228173.	1975	2371610.	1958	743596.
2008	8893062.	1991	6093634.	1974	2151767.	1957	678448.
2007	8677784.	1990	6008693.	1973	1938927.	1956	623396.
2006	8490817.	1989	5943823.	1972	1705093.	1955	583592.
2005	8373669.	1988	5787538.	1971	1550801.	1954	537920.
2004	8310096.	1987	5639063.	1970	1452312.	1953	510214.
2003	8209150.	1986	5373541.	1969	1363695.	1952	487585.
2002	8115507.	1985	5103755.	1968	1305009.	1951	400190.
2001	7932671.	1984	4894293.	1967	1222678.	1950	363245.
2000	7796033.	1983	4593024.	1966	1184812.	1949	302530.
1999	7610473.	1982	4451853.	1965	1105790.	1948	220838.
1998	7477220.	1981	4345668.	1964	1064497.	0	0.

DISP MEAN SSD IV REI  
 L5 34.5 YRS. 0.1920E+14 131 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9030163.	1997	7298596.	1980	4121927.	1963	1035311.
2013	9090654.	1996	7078738.	1979	3626157.	1962	993564.
2012	9084288.	1995	6845157.	1978	3352497.	1961	938689.
2011	9012963.	1994	6624511.	1977	3088375.	1960	889549.
2010	9133335.	1993	6421430.	1976	2690157.	1959	814032.
2009	9081950.	1992	6237513.	1975	2404671.	1958	743977.
2008	9009368.	1991	6100054.	1974	2182314.	1957	678672.
2007	8808918.	1990	6013465.	1973	1966737.	1956	623519.
2006	8630783.	1989	5947982.	1972	1729958.	1955	583654.
2005	8516662.	1988	5792050.	1971	1572552.	1954	537947.
2004	8450842.	1987	5644977.	1970	1470869.	1953	510224.
2003	8343183.	1986	5382033.	1969	1379116.	1952	487588.
2002	8239312.	1985	5116030.	1968	1317500.	1951	400190.
2001	8043720.	1984	4911372.	1967	1232550.	1950	363245.
2000	7892758.	1983	4615506.	1966	1192433.	1949	302530.
1999	7692181.	1982	4479722.	1965	1111540.	1948	220838.
1998	7544000.	1981	4378211.	1964	1068737.	0	0.

DISP MEAN SSD IV REI  
R1 41.9 YRS. 0.8361E+13 87 96.46

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9595342.	1997	6947452.	1980	3923499.	1963	961319.
2013	9540705.	1996	6746749.	1979	3429393.	1962	927533.
2012	9415977.	1995	6532129.	1978	3158615.	1961	880195.
2011	9225895.	1994	6329341.	1977	2899200.	1960	838134.
2010	9231376.	1993	6142566.	1976	2506758.	1959	769162.
2009	9072911.	1992	5973315.	1975	2227606.	1958	705055.
2008	8903824.	1991	5849120.	1974	2012282.	1957	645138.
2007	8619471.	1990	5774798.	1973	1804359.	1956	594867.
2006	8371242.	1989	5720828.	1972	1575599.	1955	559467.
2005	8201719.	1988	5575301.	1971	1426548.	1954	517845.
2004	8095336.	1987	5436998.	1970	1333711.	1953	493872.
2003	7961075.	1986	5180564.	1969	1251191.	1952	474729.
2002	7843016.	1985	4918308.	1968	1199013.	1951	390389.
2001	7643613.	1984	4714988.	1967	1123469.	1950	356039.
2000	7497163.	1983	4418503.	1966	1092599.	1949	297546.
1999	7307467.	1982	4281246.	1965	1020672.	1948	217580.
1998	7174713.	1981	4179052.	1964	986454.	0	0.

DISP MEAN SSD IV REI  
R2 37.9 YRS. 0.1183E+14 103 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9430732.	1997	7051426.	1980	3998481.	1963	990544.
2013	9404425.	1996	6855361.	1979	3499148.	1962	954404.
2012	9306148.	1995	6644541.	1978	3223809.	1961	904689.
2011	9140843.	1994	6444747.	1977	2960123.	1960	860258.
2010	9169187.	1993	6260132.	1976	2563975.	1959	788984.
2009	9031624.	1992	6092175.	1975	2281766.	1958	722700.
2008	8881825.	1991	5968320.	1974	2063756.	1957	660731.
2007	8615426.	1990	5893247.	1973	1853426.	1956	608522.
2006	8384006.	1989	5837354.	1972	1622599.	1955	571267.
2005	8229990.	1988	5688899.	1971	1471748.	1954	527870.
2004	8137620.	1987	5546881.	1970	1377159.	1953	502191.
2003	8015873.	1986	5286203.	1969	1292846.	1952	481380.
2002	7908902.	1985	5019460.	1968	1238786.	1951	395532.
2001	7719343.	1984	4811379.	1967	1161284.	1950	359866.
2000	7581593.	1983	4509988.	1966	1128368.	1949	300211.
1999	7399479.	1982	4367623.	1965	1054323.	1948	219324.
1998	7273204.	1981	4259836.	1964	1017945.	0	0.

DISP MEAN SSD IV REI  
R3 35.6 YRS. 0.1478E+14 115 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9267261.	1997	7127935.	1980	4058202.	1963	1014537.
2013	9276736.	1996	6931231.	1979	3556600.	1962	976104.
2012	9211786.	1995	6719715.	1978	3279132.	1961	924146.
2011	9077039.	1994	6519285.	1977	3013255.	1960	877548.
2010	9132701.	1993	6334137.	1976	2615016.	1959	804218.
2009	9018989.	1992	6165751.	1975	2330869.	1958	736022.
2008	8889692.	1991	6041519.	1974	2110930.	1957	672284.
2007	8640617.	1990	5966006.	1973	1898659.	1956	618442.
2006	8423590.	1989	5909491.	1972	1665937.	1955	579668.
2005	8281169.	1988	5760262.	1971	1513216.	1954	534864.
2004	8197749.	1987	5617327.	1970	1416683.	1953	507883.
2003	8082610.	1986	5355636.	1969	1330324.	1952	485855.
2002	7980261.	1985	5087844.	1968	1274121.	1951	398940.
2001	7793723.	1984	4878556.	1967	1194412.	1950	362370.
2000	7657729.	1983	4575796.	1966	1159235.	1949	301943.
1999	7476390.	1982	4431806.	1965	1082902.	1948	220459.
1998	7350149.	1981	4321940.	1964	1044240.	0	0.

DISP MEAN SSD IV REI  
R4 34.8 YRS. 0.1688E+14 123 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9168236.	1997	7209801.	1980	4100268.	1963	1028735.
2013	9212362.	1996	7004831.	1979	3598842.	1962	988397.
2012	9181428.	1995	6785288.	1978	3321119.	1961	934683.
2011	9078607.	1994	6577289.	1977	3054619.	1960	886485.
2010	9162936.	1993	6385200.	1976	2655490.	1959	811720.
2009	9073947.	1992	6210658.	1975	2370207.	1958	742256.
2008	8965108.	1991	6081227.	1974	2148851.	1957	677406.
2007	8732128.	1990	6001639.	1973	1934877.	1956	622598.
2006	8526925.	1989	5942317.	1972	1700220.	1955	582993.
2005	8392308.	1988	5791633.	1971	1545388.	1954	537479.
2004	8313029.	1987	5648542.	1970	1446623.	1953	509897.
2003	8198812.	1986	5387806.	1969	1357959.	1952	487365.
2002	8094682.	1985	5121772.	1968	1299410.	1951	400040.
2001	7904191.	1984	4914640.	1967	1217352.	1950	363147.
2000	7762536.	1983	4614047.	1966	1179860.	1949	302468.
1999	7574256.	1982	4471901.	1965	1101282.	1948	220800.
1998	7440228.	1981	4363322.	1964	1060473.	0	0.

DISP MEAN SSD IV REI  
R5 34.2 YRS. 0.1898E+14 131 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9024565.	1997	7285589.	1980	4133576.	1963	1035208.
2013	9104310.	1996	7066026.	1979	3636149.	1962	993477.
2012	9113504.	1995	6833045.	1978	3361002.	1961	938622.
2011	9053095.	1994	6612801.	1977	3095618.	1960	889503.
2010	9179589.	1993	6409688.	1976	2696253.	1959	814005.
2009	9129964.	1992	6225496.	1975	2409612.	1958	743964.
2008	9055465.	1991	6087965.	1974	2186057.	1957	678667.
2007	8850216.	1990	6002021.	1973	1969308.	1956	623518.
2006	8665296.	1989	5938363.	1972	1731510.	1955	583654.
2005	8543282.	1988	5785682.	1971	1573341.	1954	537947.
2004	8469242.	1987	5643106.	1970	1471170.	1953	510224.
2003	8353664.	1986	5385280.	1969	1379156.	1952	487588.
2002	8242639.	1985	5124113.	1968	1317424.	1951	400190.
2001	8040986.	1984	4923130.	1967	1232433.	1950	363245.
2000	7885300.	1983	4629255.	1966	1192307.	1949	302530.
1999	7681481.	1982	4493802.	1965	1111418.	1948	220838.
1998	7531526.	1981	4391394.	1964	1068623.	0	0.

DISP MEAN SSD IV REI  
O1 50.9 YRS. 0.5778E+13 72 72.25

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9749449.	1997	6844622.	1980	3856494.	1963	937466.
2013	9667307.	1996	6640328.	1979	3367691.	1962	905515.
2012	9516912.	1995	6422938.	1978	3101569.	1961	860039.
2011	9302755.	1994	6218135.	1977	2846539.	1960	819837.
2010	9285992.	1993	6030089.	1976	2457920.	1959	752674.
2009	9107189.	1992	5860318.	1975	2181919.	1958	690272.
2008	8919332.	1991	5736420.	1974	1969341.	1957	631958.
2007	8617526.	1990	5663347.	1973	1763838.	1956	583205.
2006	8352967.	1989	5611681.	1972	1537100.	1955	549274.
2005	8168406.	1988	5469353.	1971	1389733.	1954	509079.
2004	8048510.	1987	5334956.	1970	1298457.	1953	486508.
2003	7902296.	1986	5082889.	1969	1217472.	1952	468776.
2002	7773786.	1985	4825179.	1968	1166857.	1951	385742.
2001	7565276.	1984	4626629.	1967	1092898.	1950	352549.
2000	7410951.	1983	4335028.	1966	1063655.	1949	295106.
1999	7214585.	1982	4202836.	1965	993388.	1948	215986.
1998	7076332.	1981	4106217.	1964	960843.	0	0.

DISP MEAN SSD IV REI  
 O2 56.8 YRS. 0.5768E+13 72 71.13

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9729482.	1997	6834057.	1980	3853419.	1963	936789.
2013	9647709.	1996	6630322.	1979	3364891.	1962	904909.
2012	9497735.	1995	6413477.	1978	3099016.	1961	859500.
2011	9284044.	1994	6209204.	1977	2844212.	1960	819362.
2010	9267787.	1993	6021673.	1976	2455796.	1959	752258.
2009	9089523.	1992	5852403.	1975	2179973.	1958	689910.
2008	8902230.	1991	5728992.	1974	1967555.	1957	631645.
2007	8601000.	1990	5656396.	1973	1762198.	1956	582937.
2006	8337027.	1989	5605196.	1972	1535590.	1955	549047.
2005	8153061.	1988	5463323.	1971	1388340.	1954	508891.
2004	8033767.	1987	5329365.	1970	1297172.	1953	486355.
2003	7888160.	1986	5077717.	1969	1216289.	1952	468656.
2002	7760260.	1985	4820406.	1968	1165770.	1951	385650.
2001	7552356.	1984	4622234.	1967	1091901.	1950	352482.
2000	7398633.	1983	4330989.	1966	1062744.	1949	295060.
1999	7202861.	1982	4199134.	1965	992559.	1948	215956.
1998	7065193.	1981	4102837.	1964	960092.	0	0.

DISP MEAN SSD IV REI  
 O3 78.7 YRS. 0.5294E+13 69 61.67

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9759459.	1997	6807280.	1980	3838395.	1963	931851.
2013	9670945.	1996	6603077.	1979	3351053.	1962	900381.
2012	9514772.	1995	6385956.	1978	3086228.	1961	855382.
2011	9295366.	1994	6181579.	1977	2832405.	1960	815647.
2010	9273909.	1993	5994111.	1976	2444851.	1959	748933.
2009	9090951.	1992	5825068.	1975	2169755.	1958	686949.
2008	8899397.	1991	5702055.	1974	1957980.	1957	629026.
2007	8594286.	1990	5630043.	1973	1753195.	1956	580639.
2006	8326765.	1989	5579628.	1972	1527081.	1955	547055.
2005	8139601.	1988	5438704.	1971	1380257.	1954	507192.
2004	8017489.	1987	5305819.	1970	1289488.	1953	484940.
2003	7869447.	1986	5055320.	1969	1208995.	1952	467520.
2002	7739469.	1985	4799180.	1968	1158865.	1951	384769.
2001	7529806.	1984	4602205.	1967	1085385.	1950	351823.
2000	7374619.	1983	4312161.	1966	1056620.	1949	294601.
1999	7177666.	1982	4181521.	1965	986829.	1948	215656.
1998	7039087.	1981	4086508.	1964	954752.	0	0.



DISP MEAN SSD IV REI  
 O4 104.2 YRS. 0.5085E+13 67 58.14

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9781503.	1997	6799625.	1980	3832806.	1963	929728.
2013	9689830.	1996	6594942.	1979	3345896.	1962	898420.
2012	9530717.	1995	6377431.	1978	3081447.	1961	853587.
2011	9308564.	1994	6172752.	1977	2827975.	1960	814018.
2010	9284566.	1993	5985067.	1976	2440723.	1959	747466.
2009	9099279.	1992	5815889.	1975	2165873.	1958	685636.
2008	8905576.	1991	5692829.	1974	1954310.	1957	627859.
2007	8598469.	1990	5620869.	1973	1749711.	1956	579610.
2006	8329086.	1989	5570606.	1972	1523751.	1955	546159.
2005	8140211.	1988	5429920.	1971	1377056.	1954	506425.
2004	8016555.	1987	5297342.	1970	1286408.	1953	484299.
2003	7867130.	1986	5047196.	1969	1206036.	1952	467004.
2002	7735929.	1985	4791427.	1968	1156034.	1951	384368.
2001	7525187.	1984	4594847.	1967	1082685.	1950	351524.
2000	7369054.	1983	4305210.	1966	1054057.	1949	294392.
1999	7171282.	1982	4174992.	1965	984407.	1948	215519.
1998	7032010.	1981	4080440.	1964	952475.	0	0.

DISP MEAN SSD IV REI  
 S0.5 40.1 YRS. 0.1114E+14 100 98.26

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9477368.	1997	7024018.	1980	3981846.	1963	988394.
2013	9437517.	1996	6829193.	1979	3481797.	1962	953218.
2012	9327141.	1995	6619785.	1978	3206068.	1961	904310.
2011	9151298.	1994	6421550.	1977	2942095.	1960	860538.
2010	9170475.	1993	6238585.	1976	2545941.	1959	789796.
2009	9024929.	1992	6072306.	1975	2264128.	1958	723954.
2008	8868429.	1991	5950063.	1974	2046781.	1957	662339.
2007	8596642.	1990	5876386.	1973	1837329.	1956	610396.
2006	8361187.	1989	5821517.	1972	1607652.	1955	573299.
2005	8204286.	1988	5673727.	1971	1458203.	1954	529951.
2004	8109903.	1987	5532056.	1970	1365138.	1953	504207.
2003	7986834.	1986	5271496.	1969	1282389.	1952	483193.
2002	7879119.	1985	5004797.	1968	1229884.	1951	397071.
2001	7689327.	1984	4796646.	1967	1153901.	1950	361108.
2000	7551799.	1983	4495108.	1966	1122441.	1949	301111.
1999	7370250.	1982	4352493.	1965	1049761.	1948	219909.
1998	7244789.	1981	4244094.	1964	1014666.	0	0.

DISP MEAN SSD IV REI  
 S1.5 37.4 YRS. 0.1412E+14 113 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9331305.	1997	7112808.	1980	4029323.	1963	1010655.
2013	9314548.	1996	6920150.	1979	3527216.	1962	973285.
2012	9226428.	1995	6711822.	1978	3249805.	1961	922214.
2011	9071921.	1994	6513647.	1977	2984463.	1960	876340.
2010	9111386.	1993	6329778.	1976	2587224.	1959	803592.
2009	8985076.	1992	6161720.	1975	2304488.	1958	735852.
2008	8846708.	1991	6036923.	1974	2086270.	1957	672454.
2007	8591909.	1990	5960030.	1973	1875946.	1956	618850.
2006	8372163.	1989	5901454.	1972	1645341.	1955	580220.
2005	8229559.	1988	5749678.	1971	1494830.	1954	535478.
2004	8148014.	1987	5603897.	1970	1400515.	1953	508494.
2003	8036326.	1986	5339255.	1969	1316328.	1952	486406.
2002	7938541.	1985	5068595.	1968	1262198.	1951	399403.
2001	7757289.	1984	4856641.	1967	1184431.	1950	362734.
2000	7626921.	1983	4551528.	1966	1151041.	1949	302205.
1999	7451187.	1982	4405572.	1965	1076328.	1948	220635.
1998	7330250.	1981	4294146.	1964	1039107.	0	0.

DISP MEAN SSD IV REI  
 S2.5 35.7 YRS. 0.1627E+14 121 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9202606.	1997	7181355.	1980	4061550.	1963	1024914.
2013	9210179.	1996	6985237.	1979	3560387.	1962	985529.
2012	9145913.	1995	6772856.	1978	3283587.	1961	932585.
2011	9014452.	1994	6570265.	1977	3018770.	1960	884996.
2010	9075757.	1993	6381864.	1976	2621792.	1959	810702.
2009	8969506.	1992	6209421.	1975	2338998.	1958	741589.
2008	8849451.	1991	6080460.	1974	2120379.	1957	676995.
2007	8611045.	1990	5999872.	1973	1909306.	1956	622366.
2006	8405465.	1989	5938314.	1972	1677613.	1955	582879.
2005	8274908.	1988	5783886.	1971	1525703.	1954	537438.
2004	8202975.	1987	5636258.	1970	1429719.	1953	509898.
2003	8098865.	1986	5370375.	1969	1343638.	1952	487384.
2002	8006336.	1985	5099040.	1968	1287444.	1951	400067.
2001	7828393.	1984	4886717.	1967	1207503.	1950	363173.
2000	7699545.	1983	4581715.	1966	1171879.	1949	302490.
1999	7523748.	1982	4436234.	1965	1094922.	1948	220817.
1998	7401329.	1981	4325531.	1964	1055495.	0	0.

DISP MEAN SSD IV REI  
 L0.5 46.8 YRS. 0.8698E+13 88 82.82

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9595972.	1997	6941215.	1980	3930924.	1963	969447.
2013	9534542.	1996	6743978.	1979	3434532.	1962	935844.
2012	9403881.	1995	6532830.	1978	3162038.	1961	888508.
2011	9208969.	1994	6333484.	1977	2901038.	1960	846287.
2010	9210462.	1993	6150026.	1976	2507430.	1959	777038.
2009	9048590.	1992	5983881.	1975	2227757.	1958	712607.
2008	8876963.	1991	5862439.	1974	2012295.	1957	652325.
2007	8591124.	1990	5790280.	1973	1804519.	1956	601649.
2006	8342661.	1989	5737651.	1972	1576285.	1955	565772.
2005	8173933.	1988	5592674.	1971	1428128.	1954	523594.
2004	8069024.	1987	5454255.	1970	1336325.	1953	498979.
2003	7936719.	1986	5197194.	1969	1254860.	1952	479052.
2002	7821001.	1985	4934113.	1968	1203686.	1951	393900.
2001	7624313.	1984	4729716.	1967	1129071.	1950	358782.
2000	7480927.	1983	4431991.	1966	1099029.	1949	299509.
1999	7294504.	1982	4293311.	1965	1027799.	1948	218856.
1998	7165106.	1981	4189058.	1964	994182.	0	0.

DISP MEAN SSD IV REI  
 L1.5 41.5 YRS. 0.1180E+14 103 92.73

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9463711.	1997	7056051.	1980	3988636.	1963	996219.
2013	9424437.	1996	6861729.	1979	3488372.	1962	960344.
2012	9315295.	1995	6652222.	1978	3212646.	1961	910726.
2011	9141282.	1994	6453311.	1977	2948921.	1960	866246.
2010	9162849.	1993	6269126.	1976	2553196.	1959	794818.
2009	9020272.	1992	6101159.	1975	2271888.	1958	728305.
2008	8867217.	1991	5976846.	1974	2055084.	1957	666038.
2007	8599220.	1990	5900826.	1973	1846188.	1956	613465.
2006	8367708.	1989	5843502.	1972	1617015.	1955	575772.
2005	8214758.	1988	5693256.	1971	1467959.	1954	531876.
2004	8124233.	1987	5549232.	1970	1375147.	1953	505644.
2003	8004848.	1986	5286483.	1969	1292507.	1952	484222.
2002	7900544.	1985	5017779.	1968	1239955.	1951	397780.
2001	7713830.	1984	4807836.	1967	1163775.	1950	361568.
2000	7578940.	1983	4504742.	1966	1131971.	1949	301408.
1999	7399555.	1982	4360811.	1965	1058824.	1948	220112.
1998	7275730.	1981	4251440.	1964	1023147.	0	0.

DISP MEAN SSD IV REI  
 L2.5 38.2 YRS. 0.1477E+14 115 98.14

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9320757.	1997	7162037.	1980	4034830.	1963	1016471.
2013	9306932.	1996	6965135.	1979	3533877.	1962	978208.
2012	9223187.	1995	6752015.	1978	3257648.	1961	926317.
2011	9074275.	1994	6548720.	1977	2993443.	1960	879708.
2010	9120247.	1993	6359634.	1976	2597220.	1959	806320.
2009	9001063.	1992	6186475.	1975	2315316.	1958	738030.
2008	8870099.	1991	6056885.	1974	2097714.	1957	674163.
2007	8622615.	1990	5975669.	1973	1887764.	1956	620164.
2006	8409760.	1989	5913359.	1972	1657288.	1955	581206.
2005	8273328.	1988	5758501.	1971	1506669.	1954	536199.
2004	8196960.	1987	5610333.	1970	1412030.	1953	509006.
2003	8089238.	1986	5343989.	1969	1327331.	1952	486759.
2002	7994096.	1985	5072266.	1968	1272529.	1951	399641.
2001	7814088.	1984	4859837.	1967	1193967.	1950	362891.
2000	7683589.	1983	4554764.	1966	1159693.	1949	302307.
1999	7506460.	1982	4409268.	1965	1084039.	1948	220701.
1998	7382979.	1981	4298632.	1964	1045863.	0	0.

DISP MEAN SSD IV REI  
 R1.5 39.8 YRS. 0.9972E+13 95 99.34

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9523164.	1997	7002095.	1980	3960638.	1963	975179.
2013	9481823.	1996	6803488.	1979	3463875.	1962	940258.
2012	9369494.	1995	6590536.	1978	3190766.	1961	891780.
2011	9191037.	1994	6388998.	1977	2929174.	1960	848584.
2010	9207252.	1993	6203050.	1976	2534831.	1959	778515.
2009	9058623.	1992	6034187.	1975	2254098.	1958	713373.
2008	8898632.	1991	5909911.	1974	2037380.	1957	652482.
2007	8622773.	1990	5834975.	1973	1828207.	1956	601294.
2006	8382517.	1989	5779827.	1972	1598367.	1955	565018.
2005	8220375.	1988	5632642.	1971	1448375.	1954	522558.
2004	8120674.	1987	5492310.	1970	1354627.	1953	497782.
2003	7992396.	1986	5233598.	1969	1271189.	1952	477854.
2002	7879641.	1985	4968958.	1968	1218058.	1951	392805.
2001	7684947.	1984	4763132.	1967	1141536.	1950	357836.
2000	7542638.	1983	4464085.	1966	1109652.	1949	298798.
1999	7356536.	1982	4324184.	1965	1036685.	1948	218399.
1998	7226820.	1981	4219133.	1964	1001412.	0	0.

DISP MEAN SSD IV REI  
R2.5 36.7 YRS. 0.1321E+14 109 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	9350359.	1997	7085126.	1980	4027872.	1963	1001996.
2013	9341220.	1996	6889341.	1979	3527322.	1962	964762.
2012	9258695.	1995	6678773.	1978	3250837.	1961	913977.
2011	9107650.	1994	6479252.	1977	2985986.	1960	868512.
2010	9148577.	1993	6294936.	1976	2588736.	1959	796258.
2009	9021896.	1992	6127271.	1975	2305513.	1958	729064.
2008	8881404.	1991	6003668.	1974	2086507.	1957	666251.
2007	8622864.	1990	5928748.	1973	1875189.	1956	613264.
2006	8397996.	1989	5872837.	1972	1643409.	1955	575285.
2005	8249327.	1988	5724208.	1971	1491627.	1954	531217.
2004	8161174.	1987	5581874.	1970	1396081.	1953	504917.
2003	8042635.	1986	5320769.	1969	1310772.	1952	483524.
2002	7938029.	1985	5053519.	1968	1255675.	1951	397165.
2001	7750179.	1984	4844805.	1967	1177109.	1950	361066.
2000	7613631.	1983	4542671.	1966	1143106.	1949	301041.
1999	7432318.	1982	4399416.	1965	1067966.	1948	219868.
1998	7306557.	1981	4290503.	1964	1030496.	0	0.
S0	41.8 YRS.	0.9641E+13	93	10	94.75		
S0.5	40.1 YRS.	0.1114E+14	100	10	98.26		
L0	50.7 YRS.	0.7417E+13	81	12	76.58		
L0.5	46.8 YRS.	0.8698E+13	88	11	82.82		
R1	41.9 YRS.	0.8361E+13	87	11	96.46		
R1.5	39.8 YRS.	0.9972E+13	95	10	99.34		

SIMULATED PLANT RECORD ANALYSIS  
BOARD  
SIMULATED BALANCE METHOD

SURFACE TRANSPORTATION

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 368 Line Transformers

ANALYSIS BAND = 1948 THRU 2014

INCREMENT = 1

CURVE	IV	CI	REI
S0 - 41.8	93	10	94.75
S0.5 - 40.1	100	10	98.26
S1 - 38.5	108	9	99.87
S1.5 - 37.4	113	8	100.00
S2 - 36.2	118	8	100.00
S2.5 - 35.7	121	8	100.00
S3 - 35.3	124	8	100.00
S4 - 34.4	129	7	100.00
S5 - 34.3	133	7	100.00
S6 - 34.1	136	7	100.00
SQ - 37.1	156	6	100.00
L0 - 50.7	81	12	76.58
L0.5 - 46.8	88	11	82.82
L1 - 43.6	96	10	88.61
L1.5 - 41.5	103	9	92.73
L2 - 39.4	111	9	96.18
L2.5 - 38.2	115	8	98.14
L3 - 37.0	121	8	99.58
L4 - 35.0	127	7	100.00
L5 - 34.5	131	7	100.00
R1 - 41.9	87	11	96.46
R1.5 - 39.8	95	10	99.34
R2 - 37.9	103	9	100.00
R2.5 - 36.7	109	9	100.00
R3 - 35.6	115	8	100.00
R4 - 34.8	123	8	100.00
R5 - 34.2	131	7	100.00
O1 - 50.9	72	13	72.25
O2 - 56.8	72	13	71.13
O3 - 78.7	69	14	61.67
O4 - 104.2	67	14	58.14

September 2, 2015

XXXù

(X) CURVE OVERLAP

95! \*XXù

(ù) S0 41.8

90! XXXù

(+) L0 50.7

85! XXX

(\*) R1 41.9

80! +XX

75! +X\*

70! XX\*

65! XX

60! ùXX

55! ùX+

50! ùXX+

45! ù\*+++

40! ùX ++

35! X\* +++

30! ùX ++

25! XX +++

20! Xù

15! \*Xù

10! \*Xù

5! \*X

0!----!----!----!----!----!----!----!----!----!----!----!----!----!-

00+ 10+ 20+ 30+ 40+ 50+ 60+ 70+ 80+ 90+ 100+ 110+ 120+ 130+ 140+ 150+

SIMULATED PLANT RECORD ANALYSIS  
BOARD  
SIMULATED BALANCE METHOD

SURFACE TRANSPORTATION

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 369 Services

ACCOUNT CONTROL INFORMATION

EARLIEST ADDITION = 1942 LATEST ADDITION = 2014  
EARLIEST BALANCE = 1947 LATEST BALANCE = 2014  
EARLIEST RETIREMENT = 1947 LATEST RETIREMENT = 2014 INPUT = ADD & RET



SIMULATED PLANT RECORD ANALYSIS  
BOARD

SURFACE TRANSPORTATION

SIMULATED BALANCE METHOD

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 369 Services

ANALYSIS BAND = 1947 THRU 2014 INCREMENT = 1

DISP MEAN SSD IV REI  
S0 27.0 YRS. 0.2603E+13 81 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7782517.	1997	4495621.	1980	1526061.	1963	276966.
2013	7586137.	1996	4276737.	1979	1369568.	1962	267101.
2012	7372682.	1995	3996549.	1978	1250443.	1961	250641.
2011	7124188.	1994	3711351.	1977	1077336.	1960	239751.
2010	6913289.	1993	3495688.	1976	941783.	1959	225550.
2009	6688590.	1992	3311841.	1975	825082.	1958	223805.
2008	6537633.	1991	3127692.	1974	705931.	1957	210841.
2007	6309751.	1990	2946803.	1973	608001.	1956	202512.
2006	6103908.	1989	2790807.	1972	542534.	1955	189850.
2005	5919896.	1988	2651368.	1971	496496.	1954	182399.
2004	5766826.	1987	2498628.	1970	442583.	1953	166836.
2003	5609135.	1986	2352682.	1969	392400.	1952	154069.
2002	5426329.	1985	2208106.	1968	367547.	1951	113387.
2001	5260249.	1984	2070336.	1967	346157.	1950	102624.
2000	5078521.	1983	1908167.	1966	327416.	1949	84293.
1999	4883539.	1982	1780304.	1965	302716.	1948	46493.
1998	4706660.	1981	1659778.	1964	295908.	1947	30825.

DISP MEAN SSD IV REI  
S1 25.4 YRS. 0.3617E+13 95 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7690307.	1997	4560179.	1980	1541135.	1963	286805.
2013	7509274.	1996	4341319.	1979	1381861.	1962	276674.
2012	7311107.	1995	4060797.	1978	1260513.	1961	259826.
2011	7077753.	1994	3774858.	1977	1085823.	1960	248426.
2010	6881605.	1993	3557907.	1976	949250.	1959	233599.
2009	6671078.	1992	3372175.	1975	832006.	1958	231118.
2008	6533480.	1991	3185585.	1974	712726.	1957	217344.
2007	6318117.	1990	3001749.	1973	614963.	1956	208152.
2006	6123769.	1989	2842324.	1972	549836.	1955	194610.
2005	5950017.	1988	2699038.	1971	504232.	1954	186288.
2004	5805784.	1987	2542162.	1970	450823.	1953	169910.
2003	5655520.	1986	2391893.	1969	401161.	1952	156420.
2002	5478762.	1985	2242913.	1968	376766.	1951	115152.

2001	5317332.	1984	2100759.	1967	355737.	1950	103906.
2000	5138983.	1983	1934358.	1966	337250.	1949	85207.
1999	4946262.	1982	1802455.	1965	312690.	1948	47170.
1998	4770667.	1981	1678177.	1964	305879.	1947	31334.

DISP    MEAN        SSD        IV        REI  
S2       24.5 YRS.    0.4562E+13    107       100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7642585.	1997	4625321.	1980	1546187.	1963	295861.
2013	7470518.	1996	4407846.	1979	1385358.	1962	285147.
2012	7281313.	1995	4127620.	1978	1263145.	1961	267583.
2011	7056841.	1994	3840824.	1977	1088184.	1960	255367.
2010	6869414.	1993	3621872.	1976	951816.	1959	239664.
2009	6667381.	1992	3433079.	1975	835139.	1958	236290.
2008	6537995.	1991	3242496.	1974	716673.	1957	221643.
2007	6330514.	1990	3053895.	1973	619865.	1956	211633.
2006	6143665.	1989	2889126.	1972	555745.	1955	197355.
2005	5977001.	1988	2740132.	1971	511130.	1954	188399.
2004	5839432.	1987	2577401.	1970	458625.	1953	171496.
2003	5695393.	1986	2421340.	1969	409729.	1952	157590.
2002	5524393.	1985	2266829.	1968	385924.	1951	116001.
2001	5368205.	1984	2119576.	1967	365289.	1950	104514.
2000	5194516.	1983	1948650.	1966	346986.	1949	85640.
1999	5005794.	1982	1812903.	1965	322397.	1948	47470.
1998	4833439.	1981	1685536.	1964	315354.	1947	31532.

DISP    MEAN        SSD        IV        REI  
S3       23.9 YRS.    0.5274E+13    115       100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7600810.	1997	4669858.	1980	1542566.	1963	302557.
2013	7434236.	1996	4455606.	1979	1381087.	1962	291082.
2012	7249535.	1995	4177106.	1978	1258867.	1961	272698.
2011	7028754.	1994	3890511.	1977	1084445.	1960	259661.
2010	6844481.	1993	3670294.	1976	949056.	1959	243178.
2009	6645394.	1992	3478910.	1975	833684.	1958	239095.
2008	6519085.	1991	3284610.	1974	716730.	1957	223831.
2007	6315117.	1990	3091409.	1973	621522.	1956	213304.
2006	6132453.	1989	2921435.	1972	558980.	1955	198605.
2005	5970782.	1988	2766913.	1971	515820.	1954	189316.
2004	5839033.	1987	2598607.	1970	464568.	1953	172156.
2003	5701537.	1986	2437171.	1969	416657.	1952	158052.
2002	5537590.	1985	2277695.	1968	393536.	1951	116314.
2001	5388667.	1984	2126059.	1967	373263.	1950	104718.
2000	5222101.	1983	1951448.	1966	355014.	1949	85764.
1999	5039988.	1982	1812781.	1965	330199.	1948	47540.
1998	4873381.	1981	1683281.	1964	322693.	1947	31567.

DISP MEAN SSD IV REI  
 S4 23.3 YRS. 0.5853E+13 121 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7550085.	1997	4700076.	1980	1533175.	1963	307668.
2013	7388602.	1996	4491715.	1979	1370646.	1962	295347.
2012	7206121.	1995	4216664.	1978	1248146.	1961	276181.
2011	6985285.	1994	3931102.	1977	1074259.	1960	262451.
2010	6799519.	1993	3709767.	1976	940198.	1959	245368.
2009	6598417.	1992	3515531.	1975	826841.	1958	240773.
2008	6470470.	1991	3317140.	1974	712391.	1957	225080.
2007	6266033.	1990	3119111.	1973	619926.	1956	214202.
2006	6084673.	1989	2944011.	1972	560097.	1955	199223.
2005	5926455.	1988	2784406.	1971	519362.	1954	189720.
2004	5800442.	1987	2611277.	1970	470051.	1953	172404.
2003	5670834.	1986	2445397.	1969	423486.	1952	158195.
2002	5516554.	1985	2281898.	1968	401083.	1951	116391.
2001	5378507.	1984	2126657.	1967	380965.	1950	104755.
2000	5223284.	1983	1948847.	1966	362414.	1949	85780.
1999	5052179.	1982	1807408.	1965	336977.	1948	47546.
1998	4895473.	1981	1675616.	1964	328669.	1947	31569.

DISP MEAN SSD IV REI  
 S5 23.0 YRS. 0.6170E+13 125 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7527738.	1997	4719234.	1980	1526866.	1963	309987.
2013	7367203.	1996	4516092.	1979	1362518.	1962	297442.
2012	7182570.	1995	4243319.	1978	1238557.	1961	278016.
2011	6958061.	1994	3957520.	1977	1063936.	1960	263936.
2010	6768389.	1993	3734104.	1976	930188.	1959	246462.
2009	6563917.	1992	3536666.	1975	818308.	1958	241499.
2008	6433420.	1991	3334561.	1974	706401.	1957	225512.
2007	6227200.	1990	3132758.	1973	617188.	1956	214432.
2006	6044766.	1989	2954121.	1972	560745.	1955	199332.
2005	5886400.	1988	2791432.	1971	522922.	1954	189766.
2004	5761701.	1987	2615788.	1970	475553.	1953	172421.
2003	5635522.	1986	2447962.	1969	429768.	1952	158200.
2002	5487293.	1985	2282968.	1968	407116.	1951	116392.
2001	5357860.	1984	2126482.	1967	386098.	1950	104755.
2000	5213110.	1983	1947445.	1966	366485.	1949	85780.
1999	5053069.	1982	1804603.	1965	340171.	1948	47546.
1998	4906551.	1981	1671153.	1964	331302.	1947	31569.

DISP MEAN SSD IV REI  
 S6 22.8 YRS. 0.6332E+13 126 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7538268.	1997	4740282.	1980	1525168.	1963	311679.
2013	7373786.	1996	4539145.	1979	1359424.	1962	299282.
2012	7184314.	1995	4265213.	1978	1233926.	1961	279415.
2011	6954974.	1994	3976510.	1977	1057931.	1960	264746.
2010	6761424.	1993	3750179.	1976	923573.	1959	246831.
2009	6554782.	1992	3550340.	1975	812363.	1958	241636.
2008	6423816.	1991	3345841.	1974	702299.	1957	225554.
2007	6218059.	1990	3141357.	1973	615668.	1956	214442.
2006	6035596.	1989	2960151.	1972	562269.	1955	199334.
2005	5875596.	1988	2795367.	1971	527484.	1954	189766.
2004	5748155.	1987	2618181.	1970	482126.	1953	172421.
2003	5620327.	1986	2449360.	1969	436433.	1952	158200.
2002	5473538.	1985	2283950.	1968	412102.	1951	116392.
2001	5349261.	1984	2127440.	1967	388700.	1950	104755.
2000	5212437.	1983	1948369.	1966	367255.	1949	85780.
1999	5061185.	1982	1805080.	1965	340464.	1948	47546.
1998	4922363.	1981	1670692.	1964	332228.	1947	31569.

DISP MEAN SSD IV REI  
 SQ 24.9 YRS. 0.8919E+13 150 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	8048066.	1997	4972578.	1980	1553965.	1963	315608.
2013	7838251.	1996	4720889.	1979	1384918.	1962	300848.
2012	7628611.	1995	4420828.	1978	1263351.	1961	279878.
2011	7381194.	1994	4116806.	1977	1086866.	1960	264842.
2010	7174010.	1993	3861449.	1976	977423.	1959	246845.
2009	6950243.	1992	3638651.	1975	858304.	1958	241637.
2008	6828584.	1991	3416928.	1974	745507.	1957	225554.
2007	6599884.	1990	3208271.	1973	674389.	1956	214442.
2006	6390053.	1989	3010284.	1972	614465.	1955	199334.
2005	6219315.	1988	2844481.	1971	564375.	1954	189766.
2004	6106306.	1987	2659695.	1970	509614.	1953	172421.
2003	5955516.	1986	2491547.	1969	451291.	1952	158200.
2002	5837894.	1985	2322317.	1968	418867.	1951	116392.
2001	5703883.	1984	2166178.	1967	390670.	1950	104755.
2000	5540025.	1983	1976042.	1966	383163.	1949	85780.
1999	5370170.	1982	1834059.	1965	352346.	1948	47546.
1998	5202132.	1981	1697258.	1964	339837.	1947	31569.

DISP MEAN SSD IV REI  
 L0 31.3 YRS. 0.1872E+13 68 96.66

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7876436.	1997	4446763.	1980	1507245.	1963	268769.
2013	7662092.	1996	4228031.	1979	1353138.	1962	259216.
2012	7431925.	1995	3948205.	1978	1236134.	1961	243123.
2011	7167885.	1994	3663381.	1977	1064769.	1960	232651.
2010	6942642.	1993	3448250.	1976	930543.	1959	218916.
2009	6704845.	1992	3265254.	1975	814835.	1958	217705.
2008	6542164.	1991	3082277.	1974	696350.	1957	205329.
2007	6303845.	1990	2902847.	1973	598800.	1956	197625.
2006	6088743.	1989	2748618.	1972	533542.	1955	185614.
2005	5896705.	1988	2611273.	1971	487636.	1954	178834.
2004	5736857.	1987	2460890.	1970	433781.	1953	163938.
2003	5573641.	1986	2317493.	1969	383581.	1952	151806.
2002	5386412.	1985	2175611.	1968	358705.	1951	111657.
2001	5216890.	1984	2040626.	1967	337336.	1950	101343.
2000	5032639.	1983	1881233.	1966	318668.	1949	83395.
1999	4835946.	1982	1756122.	1965	294084.	1948	45850.
1998	4658116.	1981	1638333.	1964	287461.	1947	30335.

DISP MEAN SSD IV REI  
 L1 28.0 YRS. 0.2729E+13 83 99.82

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7798553.	1997	4506775.	1980	1530819.	1963	278279.
2013	7598864.	1996	4288383.	1979	1372762.	1962	268730.
2012	7382995.	1995	4008970.	1978	1252284.	1961	252517.
2011	7132945.	1994	3724643.	1977	1078109.	1960	241781.
2010	6921194.	1993	3509813.	1976	941717.	1959	227633.
2009	6696221.	1992	3326711.	1975	824415.	1958	225843.
2008	6545418.	1991	3143166.	1974	704881.	1957	212757.
2007	6318073.	1990	2962658.	1973	606731.	1956	204234.
2006	6112919.	1989	2806745.	1972	541170.	1955	191329.
2005	5929586.	1988	2667064.	1971	495164.	1954	183608.
2004	5777051.	1987	2513766.	1970	441411.	1953	167784.
2003	5619771.	1986	2366940.	1969	391476.	1952	154788.
2002	5437235.	1985	2221193.	1968	366927.	1951	113927.
2001	5271235.	1984	2082001.	1967	345892.	1950	103009.
2000	5089486.	1983	1918221.	1966	327547.	1949	84580.
1999	4894461.	1982	1788592.	1965	303259.	1948	46728.
1998	4717597.	1981	1666259.	1964	296848.	1947	31008.

DISP MEAN SSD IV REI  
 L2 25.8 YRS. 0.3716E+13 97 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7678805.	1997	4554903.	1980	1540971.	1963	288579.
2013	7496376.	1996	4340128.	1979	1380203.	1962	278649.
2012	7297091.	1995	4063592.	1978	1257652.	1961	261849.
2011	7062759.	1994	3781337.	1977	1082060.	1960	250369.
2010	6865653.	1993	3567591.	1976	944875.	1959	235376.
2009	6654109.	1992	3384445.	1975	827295.	1958	232676.
2008	6515414.	1991	3199714.	1974	707938.	1957	218666.
2007	6298915.	1990	3016938.	1973	610334.	1956	209251.
2006	6103491.	1989	2857758.	1972	545573.	1955	195508.
2005	5928890.	1988	2713961.	1971	500515.	1954	187010.
2004	5784243.	1987	2555926.	1970	447796.	1953	170478.
2003	5634198.	1986	2403996.	1969	398921.	1952	156852.
2002	5458419.	1985	2253017.	1968	375362.	1951	115466.
2001	5298756.	1984	2108687.	1967	355165.	1950	104125.
2000	5122915.	1983	1940068.	1966	337452.	1949	85356.
1999	4933352.	1982	1806023.	1965	313563.	1948	47269.
1998	4761416.	1981	1679767.	1964	307283.	1947	31398.

DISP MEAN SSD IV REI  
 L3 24.7 YRS. 0.4586E+13 107 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7644926.	1997	4621270.	1980	1545339.	1963	297823.
2013	7474160.	1996	4408699.	1979	1383028.	1962	286944.
2012	7285012.	1995	4133014.	1978	1259573.	1961	269165.
2011	7059220.	1994	3850094.	1977	1083663.	1960	256724.
2010	6869181.	1993	3634145.	1976	946685.	1959	240809.
2009	6663523.	1992	3447375.	1975	829771.	1958	237243.
2008	6529919.	1991	3257833.	1974	711448.	1957	222423.
2007	6318106.	1990	3069380.	1973	615139.	1956	212257.
2006	6127285.	1989	2904016.	1972	551816.	1955	197836.
2005	5957414.	1988	2753862.	1971	508210.	1954	188753.
2004	5817710.	1987	2589579.	1970	456817.	1953	171744.
2003	5672796.	1986	2431723.	1969	409019.	1952	157753.
2002	5502255.	1985	2275288.	1968	386197.	1951	116103.
2001	5347829.	1984	2126065.	1967	366351.	1950	104574.
2000	5177076.	1983	1953179.	1966	348601.	1949	85675.
1999	4992250.	1982	1815529.	1965	324324.	1948	47490.
1998	4824469.	1981	1686356.	1964	317379.	1947	31544.

DISP MEAN SSD IV REI  
 L4 23.6 YRS. 0.5410E+13 117 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7552161.	1997	4662101.	1980	1537580.	1963	303920.
2013	7389449.	1996	4453442.	1979	1374893.	1962	292414.
2012	7206593.	1995	4179115.	1978	1251646.	1961	273948.
2011	6986201.	1994	3895226.	1977	1076548.	1960	260751.
2010	6801425.	1993	3676426.	1976	940984.	1959	244056.
2009	6601430.	1992	3485485.	1975	826028.	1958	239753.
2008	6474161.	1991	3290959.	1974	710091.	1957	224298.
2007	6269398.	1990	3097084.	1973	616405.	1956	213623.
2006	6086272.	1989	2926145.	1972	555656.	1955	198819.
2005	5924670.	1988	2770522.	1971	514285.	1954	189460.
2004	5793760.	1987	2601098.	1970	464581.	1953	172253.
2003	5658182.	1986	2438595.	1969	417786.	1952	158117.
2002	5497561.	1985	2278119.	1968	395261.	1951	116358.
2001	5353520.	1984	2125521.	1967	375144.	1950	104744.
2000	5193199.	1983	1949925.	1966	356780.	1949	85778.
1999	5018211.	1982	1810198.	1965	331769.	1948	47546.
1998	4858903.	1981	1679533.	1964	324116.	1947	31569.

DISP MEAN SSD IV REI  
 L5 23.2 YRS. 0.5921E+13 122 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7550478.	1997	4706724.	1980	1532543.	1963	308658.
2013	7389139.	1996	4500896.	1979	1368986.	1962	296369.
2012	7205652.	1995	4227021.	1978	1245395.	1961	277070.
2011	6983282.	1994	3941546.	1977	1070572.	1960	263102.
2010	6795863.	1993	3719610.	1976	935964.	1959	245794.
2009	6593311.	1992	3524422.	1975	822658.	1958	241043.
2008	6464206.	1991	3324869.	1974	708947.	1957	225253.
2007	6258707.	1990	3125498.	1973	617788.	1956	214313.
2006	6076086.	1989	2948982.	1972	559570.	1955	199291.
2005	5916282.	1988	2788078.	1971	520416.	1954	189756.
2004	5788622.	1987	2613926.	1970	472279.	1953	172420.
2003	5658015.	1986	2447348.	1969	426212.	1952	158200.
2002	5504148.	1985	2283438.	1968	403605.	1951	116392.
2001	5368298.	1984	2127973.	1967	382855.	1950	104755.
2000	5216858.	1983	1949971.	1966	363667.	1949	85780.
1999	5050397.	1982	1808197.	1965	337883.	1948	47546.
1998	4898305.	1981	1675821.	1964	329548.	1947	31569.

DISP MEAN SSD IV REI  
R1 27.1 YRS. 0.2354E+13 77 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7824658.	1997	4494084.	1980	1515352.	1963	275659.
2013	7627744.	1996	4273469.	1979	1361024.	1962	265364.
2012	7413542.	1995	3991634.	1978	1244106.	1961	248515.
2011	7163843.	1994	3704428.	1977	1073102.	1960	237271.
2010	6951178.	1993	3486498.	1976	939280.	1959	222765.
2009	6724211.	1992	3300493.	1975	824030.	1958	220807.
2008	6570682.	1991	3114411.	1974	705988.	1957	207747.
2007	6340016.	1990	2931799.	1973	608751.	1956	199416.
2006	6130885.	1989	2774364.	1972	543662.	1955	186857.
2005	5943247.	1988	2633933.	1971	497836.	1954	179621.
2004	5786430.	1987	2480678.	1970	443984.	1953	164387.
2003	5625117.	1986	2334641.	1969	393633.	1952	152042.
2002	5438797.	1985	2190407.	1968	368447.	1951	111770.
2001	5269322.	1984	2053407.	1967	346669.	1950	101357.
2000	5084458.	1983	1892326.	1966	327507.	1949	83411.
1999	4886593.	1982	1765806.	1965	302338.	1948	45895.
1998	4707196.	1981	1647010.	1964	295050.	1947	30356.

DISP MEAN SSD IV REI  
R2 25.3 YRS. 0.3566E+13 95 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7704802.	1997	4575525.	1980	1531898.	1963	286718.
2013	7524924.	1996	4353979.	1979	1375110.	1962	275975.
2012	7327941.	1995	4070245.	1978	1256221.	1961	258584.
2011	7095697.	1994	3780549.	1977	1083789.	1960	246725.
2010	6900576.	1993	3559565.	1976	949123.	1959	231538.
2009	6691000.	1992	3369859.	1975	833445.	1958	228823.
2008	6554342.	1991	3179538.	1974	715343.	1957	214944.
2007	6339825.	1990	2992327.	1973	618353.	1956	205762.
2006	6146061.	1989	2830029.	1972	553664.	1955	192337.
2005	5972660.	1988	2684513.	1971	508244.	1954	184229.
2004	5828593.	1987	2526099.	1970	454777.	1953	168139.
2003	5678305.	1986	2374994.	1969	404811.	1952	154980.
2002	5501234.	1985	2225885.	1968	379939.	1951	114016.
2001	5339157.	1984	2084283.	1967	358334.	1950	103036.
2000	5159804.	1983	1919009.	1966	339205.	1949	84590.
1999	4965663.	1982	1788733.	1965	313954.	1948	46724.
1998	4788247.	1981	1666543.	1964	306451.	1947	30979.



DISP MEAN SSD IV REI  
R3 24.2 YRS. 0.4774E+13 110 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7613195.	1997	4645148.	1980	1536514.	1963	296511.
2013	7440807.	1996	4426207.	1979	1377759.	1962	285232.
2012	7251194.	1995	4143487.	1978	1257786.	1961	267207.
2011	7026632.	1994	3853421.	1977	1085078.	1960	254646.
2010	6839802.	1993	3630723.	1976	950833.	1959	238714.
2009	6639335.	1992	3437989.	1975	836034.	1958	235217.
2008	6512671.	1991	3243496.	1974	719109.	1957	220542.
2007	6309091.	1990	3051207.	1973	623450.	1956	210576.
2006	6127190.	1989	2883126.	1972	560080.	1955	196393.
2005	5966281.	1988	2731315.	1971	515841.	1954	187563.
2004	5834922.	1987	2566339.	1970	463376.	1953	170802.
2003	5697120.	1986	2408656.	1969	414233.	1952	157034.
2002	5531935.	1985	2253171.	1968	389965.	1951	115567.
2001	5380741.	1984	2105595.	1967	368721.	1950	104182.
2000	5210917.	1983	1934962.	1966	349723.	1949	85395.
1999	5024726.	1982	1800078.	1965	324407.	1948	47289.
1998	4853500.	1981	1674081.	1964	316655.	1947	31396.

DISP MEAN SSD IV REI  
R4 23.5 YRS. 0.5571E+13 118 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7569671.	1997	4690368.	1980	1533186.	1963	303718.
2013	7401217.	1996	4475620.	1979	1372441.	1962	291813.
2012	7214066.	1995	4195306.	1978	1251574.	1961	273077.
2011	6990874.	1994	3906035.	1977	1079034.	1960	259787.
2010	6804776.	1993	3682699.	1976	945875.	1959	243140.
2009	6604883.	1992	3488054.	1975	832829.	1958	238960.
2008	6479092.	1991	3290583.	1974	718024.	1957	223648.
2007	6277213.	1990	3094496.	1973	624555.	1956	213105.
2006	6098372.	1989	2922044.	1972	563177.	1955	198412.
2005	5942278.	1988	2765464.	1971	520561.	1954	189141.
2004	5817656.	1987	2595436.	1970	469295.	1953	172005.
2003	5688397.	1986	2432510.	1969	420973.	1952	157928.
2002	5533116.	1985	2271708.	1968	397258.	1951	116218.
2001	5392439.	1984	2118874.	1967	376385.	1950	104647.
2000	5232907.	1983	1943209.	1966	357592.	1949	85714.
1999	5056054.	1982	1803725.	1965	332286.	1948	47507.
1998	4892669.	1981	1673795.	1964	324314.	1947	31546.

DISP MEAN SSD IV REI  
R5 23.2 YRS. 0.6100E+13 124 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7564479.	1997	4730226.	1980	1529204.	1963	309528.
2013	7399641.	1996	4521741.	1979	1365516.	1962	296891.
2012	7213087.	1995	4244955.	1978	1242514.	1961	277380.
2011	6988367.	1994	3956539.	1977	1068958.	1960	263304.
2010	6799421.	1993	3731719.	1976	936095.	1959	245924.
2009	6595833.	1992	3533786.	1975	824741.	1958	241107.
2008	6465766.	1991	3331802.	1974	712809.	1957	225266.
2007	6259529.	1990	3130517.	1973	622849.	1956	214298.
2006	6076964.	1989	2952634.	1972	564978.	1955	199270.
2005	5918650.	1988	2790794.	1971	525314.	1954	189741.
2004	5794365.	1987	2615977.	1970	476079.	1953	172413.
2003	5668658.	1986	2448842.	1969	428840.	1952	158198.
2002	5520201.	1985	2284299.	1968	405477.	1951	116392.
2001	5389153.	1984	2128026.	1967	384470.	1950	104755.
2000	5241111.	1983	1949065.	1966	365271.	1949	85780.
1999	5076180.	1982	1806304.	1965	339414.	1948	47546.
1998	4923684.	1981	1673076.	1964	330810.	1947	31569.

DISP MEAN SSD IV REI  
O1 30.7 YRS. 0.1491E+13 61 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7911542.	1997	4416011.	1980	1489689.	1963	264552.
2013	7691433.	1996	4197680.	1979	1338168.	1962	254811.
2012	7456042.	1995	3918418.	1978	1223764.	1961	238569.
2011	7186647.	1994	3633696.	1977	1054884.	1960	227967.
2010	6955896.	1993	3418242.	1976	922674.	1959	214136.
2009	6712861.	1992	3234935.	1975	808663.	1958	212905.
2008	6545197.	1991	3051780.	1974	691499.	1957	200625.
2007	6302145.	1990	2872230.	1973	594792.	1956	193095.
2006	6082179.	1989	2717995.	1972	530028.	1955	181356.
2005	5885238.	1988	2580964.	1971	484470.	1954	174956.
2004	5720758.	1987	2431247.	1970	430844.	1953	160559.
2003	5553471.	1986	2288794.	1969	380638.	1952	149030.
2002	5362956.	1985	2148153.	1968	355590.	1951	109457.
2001	5190698.	1984	2014724.	1967	334021.	1950	99621.
2000	5004368.	1983	1857079.	1966	315148.	1949	82197.
1999	4806170.	1982	1733835.	1965	290319.	1948	45048.
1998	4627496.	1981	1618253.	1964	283445.	1947	29716.

DISP MEAN SSD IV REI  
 O2 34.3 YRS. 0.1421E+13 60 91.65

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7931525.	1997	4414269.	1980	1487942.	1963	264188.
2013	7709836.	1996	4195534.	1979	1336576.	1962	254483.
2012	7472670.	1995	3915951.	1978	1222318.	1961	238276.
2011	7201670.	1994	3630981.	1977	1053571.	1960	227707.
2010	6969371.	1993	3415349.	1976	921481.	1959	213906.
2009	6724511.	1992	3231928.	1975	807577.	1958	212704.
2008	6555019.	1991	3048716.	1974	690509.	1957	200452.
2007	6310293.	1990	2869162.	1973	593887.	1956	192948.
2006	6088757.	1989	2714965.	1972	529199.	1955	181233.
2005	5890445.	1988	2578010.	1971	483711.	1954	174855.
2004	5724787.	1987	2428400.	1970	430149.	1953	160480.
2003	5556496.	1986	2286076.	1969	380001.	1952	148969.
2002	5364872.	1985	2145582.	1968	355005.	1951	109411.
2001	5191630.	1984	2012313.	1967	333487.	1950	99587.
2000	5004453.	1983	1854833.	1966	314660.	1949	82173.
1999	4805534.	1982	1731756.	1965	289875.	1948	45032.
1998	4626254.	1981	1616342.	1964	283042.	1947	29703.

DISP MEAN SSD IV REI  
 O3 45.9 YRS. 0.1166E+13 54 79.34

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7981484.	1997	4392212.	1980	1478947.	1963	260684.
2013	7749832.	1996	4173747.	1979	1328425.	1962	251198.
2012	7503590.	1995	3894563.	1978	1214932.	1961	235218.
2011	7224328.	1994	3610023.	1977	1046845.	1960	224882.
2010	6984554.	1993	3394866.	1976	915280.	1959	211319.
2009	6732992.	1992	3212021.	1975	801805.	1958	210364.
2008	6557586.	1991	3029481.	1974	685071.	1957	198367.
2007	6307694.	1990	2850670.	1973	588692.	1956	191120.
2006	6081654.	1989	2697285.	1972	524195.	1955	179659.
2005	5879490.	1988	2561221.	1971	478881.	1954	173534.
2004	5710636.	1987	2412563.	1970	425481.	1953	159405.
2003	5539782.	1986	2271227.	1969	375471.	1952	148128.
2002	5346160.	1985	2131741.	1968	350610.	1951	108770.
2001	5171431.	1984	1999490.	1967	329242.	1950	99107.
2000	4983234.	1983	1843005.	1966	310582.	1949	81838.
1999	4783695.	1982	1720891.	1965	285972.	1948	44797.
1998	4604153.	1981	1606428.	1964	279331.	1947	29527.

DISP MEAN SSD IV REI  
 O4 58.9 YRS. 0.1051E+13 51 72.99

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7980951.	1997	4371913.	1980	1472543.	1963	258531.
2013	7745958.	1996	4154144.	1979	1322712.	1962	249172.
2012	7496705.	1995	3875695.	1978	1209842.	1961	233326.
2011	7214719.	1994	3591874.	1977	1042291.	1960	223128.
2010	6972500.	1993	3377439.	1976	911160.	1959	209707.
2009	6718774.	1992	3195354.	1975	798037.	1958	208900.
2008	6541504.	1991	3013615.	1974	681580.	1957	197060.
2007	6290035.	1990	2835631.	1973	585407.	1956	189970.
2006	6062662.	1989	2683100.	1972	521068.	1955	178668.
2005	5859420.	1988	2547923.	1971	475892.	1954	172701.
2004	5689755.	1987	2400175.	1970	422612.	1953	158726.
2003	5518363.	1986	2259754.	1969	372700.	1952	147597.
2002	5324443.	1985	2121181.	1968	347927.	1951	108363.
2001	5149636.	1984	1989829.	1967	326652.	1950	98803.
2000	4961567.	1983	1834211.	1966	308092.	1949	81625.
1999	4762332.	1982	1712925.	1965	283585.	1948	44648.
1998	4583255.	1981	1599262.	1964	277056.	1947	29415.

DISP MEAN SSD IV REI  
 S0.5 26.2 YRS. 0.3075E+13 88 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7750601.	1997	4531924.	1980	1534541.	1963	281993.
2013	7561599.	1996	4312590.	1979	1376658.	1962	271952.
2012	7355420.	1995	4031812.	1978	1256416.	1961	255261.
2011	7114072.	1994	3745832.	1977	1082501.	1960	244086.
2010	6910061.	1993	3529156.	1976	946410.	1959	229549.
2009	6691903.	1992	3344051.	1975	829399.	1958	227421.
2008	6547034.	1991	3158414.	1974	710135.	1957	214042.
2007	6324781.	1990	2975830.	1973	612230.	1956	205277.
2006	6124018.	1989	2817939.	1972	546870.	1955	192176.
2005	5944435.	1988	2676436.	1971	500982.	1954	184295.
2004	5795032.	1987	2521519.	1970	447251.	1953	168331.
2003	5640305.	1986	2373333.	1969	397257.	1952	155211.
2002	5459786.	1985	2226502.	1968	372562.	1951	114242.
2001	5295285.	1984	2086506.	1967	351285.	1950	103245.
2000	5114531.	1983	1922204.	1966	332606.	1949	84736.
1999	4920030.	1982	1792316.	1965	307915.	1948	46820.
1998	4743208.	1981	1669916.	1964	301051.	1947	31070.

DISP MEAN SSD IV REI  
 S1.5 24.8 YRS. 0.4074E+13 101 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7640124.	1997	4583990.	1980	1541668.	1963	290923.
2013	7464784.	1996	4366387.	1979	1381827.	1962	280546.
2012	7272322.	1995	4086535.	1978	1260230.	1961	263385.
2011	7044639.	1994	3800657.	1977	1085564.	1960	251621.
2010	6854081.	1993	3583173.	1976	949232.	1959	236398.
2009	6649022.	1992	3396363.	1975	832392.	1958	233510.
2008	6516736.	1991	3208217.	1974	713624.	1957	219335.
2007	6306496.	1990	3022426.	1973	616430.	1956	209767.
2006	6117048.	1989	2860744.	1972	551887.	1955	195884.
2005	5947952.	1988	2715009.	1971	506848.	1954	187269.
2004	5808117.	1987	2555598.	1970	453956.	1953	170648.
2003	5661978.	1986	2402810.	1969	404736.	1952	156964.
2002	5489053.	1985	2251424.	1968	380691.	1951	115547.
2001	5331133.	1984	2107062.	1967	359911.	1950	104189.
2000	5155933.	1983	1938715.	1966	341565.	1949	85409.
1999	4965963.	1982	1805183.	1965	317039.	1948	47310.
1998	4792672.	1981	1679626.	1964	310160.	1947	31426.

DISP MEAN SSD IV REI  
 S2.5 24.2 YRS. 0.4912E+13 111 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7619401.	1997	4647305.	1980	1544175.	1963	299117.
2013	7450128.	1996	4431348.	1979	1383117.	1962	288024.
2012	7263237.	1995	4151870.	1978	1260968.	1961	270057.
2011	7040735.	1994	3865030.	1977	1086381.	1960	257439.
2010	6855053.	1993	3645351.	1976	950500.	1959	241356.
2009	6654756.	1992	3455186.	1975	834516.	1958	237638.
2008	6527113.	1991	3262704.	1974	716851.	1957	222694.
2007	6321656.	1990	3071750.	1973	620809.	1956	212435.
2006	6137202.	1989	2904399.	1972	557450.	1955	197954.
2005	5973335.	1988	2752651.	1971	513548.	1954	188837.
2004	5838847.	1987	2587190.	1970	461632.	1953	171810.
2003	5698350.	1986	2428500.	1969	413201.	1952	157809.
2002	5530946.	1985	2271593.	1968	389710.	1951	116150.
2001	5378431.	1984	2122221.	1967	369260.	1950	104611.
2000	5208326.	1983	1949567.	1966	350935.	1949	85699.
1999	5022847.	1982	1812452.	1965	326218.	1948	47503.
1998	4853249.	1981	1684123.	1964	318935.	1947	31549.

DISP MEAN SSD IV REI  
 L0.5 29.4 YRS. 0.2264E+13 75 98.74

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7825288.	1997	4471373.	1980	1517358.	1963	273207.
2013	7618927.	1996	4253155.	1979	1361515.	1962	263647.
2012	7396505.	1995	3973834.	1978	1242995.	1961	247486.
2011	7139988.	1994	3689510.	1977	1070416.	1960	236879.
2010	6921948.	1993	3474745.	1976	935269.	1959	222941.
2009	6690964.	1992	3291889.	1975	818898.	1958	221454.
2008	6534585.	1991	3108801.	1974	699996.	1957	208742.
2007	6302082.	1990	2928993.	1973	602227.	1956	200653.
2006	6092258.	1989	2774079.	1972	536885.	1955	188227.
2005	5904872.	1988	2635730.	1971	490983.	1954	181012.
2004	5748995.	1987	2484065.	1970	437221.	1953	165690.
2003	5589079.	1986	2339143.	1969	387182.	1952	153163.
2002	5404546.	1985	2195532.	1968	362491.	1951	112688.
2001	5237153.	1984	2058663.	1967	341303.	1950	102100.
2000	5054531.	1983	1897307.	1966	322803.	1949	83934.
1999	4859055.	1982	1770179.	1965	298367.	1948	46249.
1998	4682090.	1981	1650372.	1964	291846.	1947	30640.

DISP MEAN SSD IV REI  
 L1.5 26.9 YRS. 0.3191E+13 89 99.97

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7740332.	1997	4531541.	1980	1535565.	1963	283278.
2013	7549278.	1996	4314693.	1979	1376320.	1962	273496.
2012	7341628.	1995	4036421.	1978	1254955.	1961	256963.
2011	7099317.	1994	3752813.	1977	1080197.	1960	245848.
2010	6894750.	1993	3538205.	1976	943510.	1959	231283.
2009	6676363.	1992	3354786.	1975	826147.	1958	229052.
2008	6531514.	1991	3170392.	1974	706756.	1957	215526.
2007	6309532.	1990	2988546.	1973	608910.	1956	206583.
2006	6109229.	1989	2830863.	1972	543757.	1955	193284.
2005	5930292.	1988	2689063.	1971	498213.	1954	185197.
2004	5781760.	1987	2533404.	1970	444944.	1953	169039.
2003	5628163.	1986	2384097.	1969	395487.	1952	155748.
2002	5449051.	1985	2235859.	1968	371365.	1951	114640.
2001	5286224.	1984	2094260.	1967	350672.	1950	103526.
2000	5107381.	1983	1928245.	1966	332561.	1949	84940.
1999	4914983.	1982	1796601.	1965	308391.	1948	46979.
1998	4740424.	1981	1672500.	1964	301973.	1947	31189.

DISP MEAN SSD IV REI  
 L2.5 25.3 YRS. 0.4128E+13 102 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7666205.	1997	4589681.	1980	1543276.	1963	293075.
2013	7489262.	1996	4375604.	1979	1381828.	1962	282666.
2012	7294702.	1995	4099080.	1978	1258909.	1961	265380.
2011	7064338.	1994	3816098.	1977	1083233.	1960	253429.
2010	6870534.	1993	3600901.	1976	946215.	1959	237986.
2009	6661786.	1992	3415659.	1975	829015.	1958	234863.
2008	6525568.	1991	3228318.	1974	710200.	1957	220458.
2007	6311402.	1990	3042581.	1973	613243.	1956	210678.
2006	6118303.	1989	2880259.	1972	549174.	1955	196609.
2005	5946094.	1988	2733292.	1971	504787.	1954	187832.
2004	5803926.	1987	2572185.	1970	452653.	1953	171074.
2003	5656418.	1986	2417372.	1969	404226.	1952	157277.
2002	5483185.	1985	2263760.	1968	380939.	1951	115768.
2001	5326014.	1984	2117087.	1967	360826.	1950	104338.
2000	5152528.	1983	1946441.	1966	343017.	1949	85507.
1999	4965079.	1982	1810698.	1965	318874.	1948	47374.
1998	4794905.	1981	1683085.	1964	312224.	1947	31467.

DISP MEAN SSD IV REI  
 R1.5 26.2 YRS. 0.2913E+13 86 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	7768730.	1997	4535158.	1980	1524098.	1963	281111.
2013	7580876.	1996	4313652.	1979	1368615.	1962	270573.
2012	7375750.	1995	4030521.	1978	1250757.	1961	253440.
2011	7135146.	1994	3741797.	1977	1079056.	1960	241880.
2010	6931500.	1993	3522148.	1976	944801.	1959	227031.
2009	6713346.	1992	3334183.	1975	829306.	1958	224695.
2008	6568242.	1991	3145945.	1974	711185.	1957	211232.
2007	6345516.	1990	2961053.	1973	614010.	1956	202483.
2006	6143810.	1989	2801255.	1972	549052.	1955	189502.
2005	5962915.	1988	2658399.	1971	503360.	1954	181843.
2004	5811994.	1987	2502721.	1970	449631.	1953	166195.
2003	5655646.	1986	2354331.	1969	399406.	1952	153457.
2002	5473352.	1985	2207852.	1968	374316.	1951	112851.
2001	5306937.	1984	2068743.	1967	352569.	1950	102165.
2000	5124180.	1983	1905743.	1966	333377.	1949	83978.
1999	4927554.	1982	1777502.	1965	308127.	1948	46293.
1998	4748579.	1981	1657143.	1964	300699.	1947	30655.

DISP    MEAN        SSD        IV        REI  
R2.5    24.6 YRS.    0.4155E+13    102    100.00

SIMULATED BALANCES

YEAR BALANCES YEAR BALANCES YEAR BALANCES YEAR BALANCES

2014	7639214.	1997	4605099.	1980	1532748.	1963	291346.
2013	7463986.	1996	4385092.	1979	1375230.	1962	280358.
2012	7271701.	1995	4102073.	1978	1256019.	1961	262674.
2011	7044403.	1994	3812374.	1977	1083626.	1960	250487.
2010	6854604.	1993	3590694.	1976	949303.	1959	234952.
2009	6650809.	1992	3399623.	1975	834161.	1958	231869.
2008	6520391.	1991	3207368.	1974	716713.	1957	217614.
2007	6312561.	1990	3017780.	1973	620433.	1956	208062.
2006	6125880.	1989	2852767.	1972	556435.	1955	194276.
2005	5959780.	1988	2704304.	1971	511629.	1954	185826.
2004	5823003.	1987	2542833.	1970	458682.	1953	169415.
2003	5679768.	1986	2388681.	1969	409145.	1952	155965.
2002	5509322.	1985	2236645.	1968	384591.	1951	114760.
2001	5353252.	1984	2092332.	1967	363183.	1950	103587.
2000	5179130.	1983	1924664.	1966	344136.	1949	84976.
1999	4989353.	1982	1792376.	1965	318871.	1948	46995.
1998	4815359.	1981	1668574.	1964	311264.	1947	31180.

S0    27.0 YRS.    0.2603E+13    81    12    100.00  
S0.5    26.2 YRS.    0.3075E+13    88    11    100.00

L0    31.3 YRS.    0.1872E+13    68    14    96.66  
L0.5    29.4 YRS.    0.2264E+13    75    13    98.74

R1    27.1 YRS.    0.2354E+13    77    12    100.00  
R1.5    26.2 YRS.    0.2913E+13    86    11    100.00



SIMULATED PLANT RECORD ANALYSIS  
BOARD  
SIMULATED BALANCE METHOD

SURFACE TRANSPORTATION

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 369 Services

ANALYSIS BAND = 1947 THRU 2014

INCREMENT = 1

CURVE	IV	CI	REI
S0 - 27.0	81	12	100.00
S0.5 - 26.2	88	11	100.00
S1 - 25.4	95	10	100.00
S1.5 - 24.8	101	9	100.00
S2 - 24.5	107	9	100.00
S2.5 - 24.2	111	9	100.00
S3 - 23.9	115	8	100.00
S4 - 23.3	121	8	100.00
S5 - 23.0	125	8	100.00
S6 - 22.8	126	7	100.00
SQ - 24.9	150	6	100.00
L0 - 31.3	68	14	96.66
L0.5 - 29.4	75	13	98.74
L1 - 28.0	83	12	99.82
L1.5 - 26.9	89	11	99.97
L2 - 25.8	97	10	100.00
L2.5 - 25.3	102	9	100.00
L3 - 24.7	107	9	100.00
L4 - 23.6	117	8	100.00
L5 - 23.2	122	8	100.00
R1 - 27.1	77	12	100.00
R1.5 - 26.2	86	11	100.00
R2 - 25.3	95	10	100.00
R2.5 - 24.6	102	9	100.00
R3 - 24.2	110	9	100.00
R4 - 23.5	118	8	100.00
R5 - 23.2	124	8	100.00
O1 - 30.7	61	16	100.00
O2 - 34.3	60	16	91.65
O3 - 45.9	54	18	79.34
O4 - 58.9	51	19	72.99

September 2, 2015

XXXù

(X) CURVE OVERLAP

95! \*XXXXXù

(ù) S0 27.0

90! +XXXù

(+) L0 31.3

85! +XXXX

(\*) R1 27.1

80! ++XX\*

75! ++XX\*

70! +XX\*

65! +XX\*

60! XX\*

55! XXX

50! ùXX+

45! ùXX++

40! ùX\*+++

35! ùX +++

30! XX +++

25! XX ++++

20! XXù +++++

15! \*Xù +++++

10! \*XXù ++++++

5! \*XXXù +++++++

0!----!----!----!----!----!----!----!----!----!----!\*XXXXX!----!----!----!----!

00+ 05+ 10+ 15+ 20+ 25+ 30+ 35+ 40+ 45+ 50+ 55+ 60+ 65+ 70+ 75+

SIMULATED PLANT RECORD ANALYSIS  
BOARD  
SIMULATED BALANCE METHOD

SURFACE TRANSPORTATION

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 370 Meters

ACCOUNT CONTROL INFORMATION

EARLIEST ADDITION = 1942 LATEST ADDITION = 2014  
EARLIEST BALANCE = 1947 LATEST BALANCE = 2014  
EARLIEST RETIREMENT = 1947 LATEST RETIREMENT = 2014 INPUT = ADD & RET

SIMULATED PLANT RECORD ANALYSIS  
BOARD

SURFACE TRANSPORTATION

SIMULATED BALANCE METHOD

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 370 Meters

ANALYSIS BAND = 1947 THRU 2014 INCREMENT = 1

DISP MEAN SSD IV REI  
S0 33.9 YRS. 0.4913E+12 99 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2220847.	1997	1303925.	1980	663994.	1963	201457.
2013	2211786.	1996	1266482.	1979	645018.	1962	199728.
2012	2252822.	1995	1244358.	1978	596254.	1961	193988.
2011	2098440.	1994	1174228.	1977	509237.	1960	187030.
2010	1914118.	1993	1141428.	1976	431612.	1959	178930.
2009	1930740.	1992	1134630.	1975	389403.	1958	171133.
2008	1893329.	1991	1105644.	1974	356077.	1957	166406.
2007	1813537.	1990	1099650.	1973	340394.	1956	152367.
2006	1812715.	1989	1076237.	1972	305489.	1955	143384.
2005	1773928.	1988	1022187.	1971	282123.	1954	135120.
2004	1765619.	1987	989513.	1970	261640.	1953	127649.
2003	1701135.	1986	943432.	1969	256236.	1952	123514.
2002	1666144.	1985	910390.	1968	249058.	1951	115754.
2001	1610550.	1984	874456.	1967	234060.	1950	101616.
2000	1608673.	1983	803649.	1966	230142.	1949	93009.
1999	1488296.	1982	776067.	1965	219454.	1948	63040.
1998	1373976.	1981	725829.	1964	212315.	1947	48969.

DISP MEAN SSD IV REI  
S1 31.8 YRS. 0.4676E+12 97 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2207516.	1997	1319347.	1980	670631.	1963	209057.
2013	2201518.	1996	1282446.	1979	651287.	1962	206981.
2012	2245408.	1995	1260661.	1978	602337.	1961	200833.
2011	2093901.	1994	1190695.	1977	515353.	1960	193417.
2010	1912424.	1993	1157833.	1976	437925.	1959	184821.
2009	1931594.	1992	1150720.	1975	395989.	1958	176496.
2008	1896436.	1991	1121207.	1974	362965.	1957	171219.
2007	1818646.	1990	1114498.	1973	347585.	1956	156626.
2006	1819518.	1989	1090247.	1972	312986.	1955	147086.
2005	1782164.	1988	1035303.	1971	289903.	1954	138269.
2004	1775061.	1987	1001683.	1970	269654.	1953	130257.
2003	1711640.	1986	954639.	1969	264409.	1952	125605.
2002	1677582.	1985	920638.	1968	257315.	1951	117370.

2001	1622824.	1984	883787.	1967	242333.	1950	102820.
2000	1621709.	1983	812156.	1966	238355.	1949	93873.
1999	1502152.	1982	783827.	1965	227533.	1948	63648.
1998	1388669.	1981	732958.	1964	220189.	1947	49385.

DISP      MEAN            SSD            IV            REI  
S2        30.4 YRS.    0.4474E+12        95        100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2182689.	1997	1333536.	1980	671221.	1963	215231.
2013	2180146.	1996	1296102.	1979	652483.	1962	212677.
2012	2227593.	1995	1273460.	1978	604256.	1961	206007.
2011	2079680.	1994	1202375.	1977	518063.	1960	198039.
2010	1901745.	1993	1168192.	1976	441443.	1959	188879.
2009	1924351.	1992	1159626.	1975	400292.	1958	179993.
2008	1892493.	1991	1128608.	1974	368002.	1957	174173.
2007	1817822.	1990	1120410.	1973	353281.	1956	159065.
2006	1821595.	1989	1094745.	1972	319248.	1955	149052.
2005	1786902.	1988	1038514.	1971	296620.	1954	139811.
2004	1782196.	1987	1003779.	1970	276704.	1953	131430.
2003	1720872.	1986	955823.	1969	271670.	1952	126470.
2002	1688581.	1985	921135.	1968	264665.	1951	117988.
2001	1635240.	1984	883842.	1967	249652.	1950	103248.
2000	1635172.	1983	812011.	1966	245530.	1949	94158.
1999	1516265.	1982	783716.	1965	234463.	1948	63832.
1998	1403020.	1981	733102.	1964	226780.	1947	49497.

DISP      MEAN            SSD            IV            REI  
S3        29.7 YRS.    0.4378E+12        94        100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2161455.	1997	1351063.	1980	669798.	1963	219775.
2013	2160867.	1996	1312097.	1979	652067.	1962	216618.
2012	2210793.	1995	1287545.	1978	604919.	1961	209350.
2011	2065835.	1994	1214280.	1977	519827.	1960	200813.
2010	1891271.	1993	1177765.	1976	444279.	1959	191127.
2009	1917570.	1992	1166831.	1975	404128.	1958	181769.
2008	1889590.	1991	1133510.	1974	372733.	1957	175541.
2007	1818859.	1990	1123167.	1973	358768.	1956	160091.
2006	1826482.	1989	1095598.	1972	325331.	1955	149799.
2005	1795395.	1988	1037762.	1971	303127.	1954	140338.
2004	1793921.	1987	1001763.	1970	283458.	1953	131791.
2003	1735332.	1986	952911.	1969	278497.	1952	126708.
2002	1705188.	1985	917698.	1968	271400.	1951	118139.
2001	1653345.	1984	880236.	1967	256148.	1950	103339.
2000	1654091.	1983	808567.	1966	251662.	1949	94211.
1999	1535333.	1982	780724.	1965	240128.	1948	63860.
1998	1421605.	1981	730801.	1964	231907.	1947	49511.

DISP MEAN SSD IV REI  
 S4 29.2 YRS. 0.4429E+12 94 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2139615.	1997	1372440.	1980	667150.	1963	223144.
2013	2139784.	1996	1330639.	1979	650778.	1962	219264.
2012	2191741.	1995	1303000.	1978	605145.	1961	211369.
2011	2050003.	1994	1226570.	1977	521641.	1960	202307.
2010	1879664.	1993	1186964.	1976	447656.	1959	192199.
2009	1910958.	1992	1173126.	1975	408955.	1958	182515.
2008	1888460.	1991	1137166.	1974	378807.	1957	176042.
2007	1823364.	1990	1124500.	1973	365827.	1956	160415.
2006	1836475.	1989	1094946.	1972	333062.	1955	150000.
2005	1810412.	1988	1035476.	1971	311206.	1954	140458.
2004	1813240.	1987	998195.	1970	291563.	1953	131858.
2003	1758029.	1986	948418.	1969	286340.	1952	126744.
2002	1730202.	1985	912637.	1968	278742.	1951	118157.
2001	1679568.	1984	874972.	1967	262809.	1950	103347.
2000	1680437.	1983	803455.	1966	257527.	1949	94214.
1999	1560805.	1982	776118.	1965	245144.	1948	63861.
1998	1445355.	1981	727030.	1964	236078.	1947	49511.

DISP MEAN SSD IV REI  
 S5 29.1 YRS. 0.4614E+12 96 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2125242.	1997	1386986.	1980	664109.	1963	224374.
2013	2125896.	1996	1342191.	1979	648843.	1962	220069.
2012	2179040.	1995	1311820.	1978	604742.	1961	211868.
2011	2039213.	1994	1233011.	1977	523022.	1960	202600.
2010	1871628.	1993	1191389.	1976	450856.	1959	192360.
2009	1906575.	1992	1175880.	1975	413780.	1958	182597.
2008	1888616.	1991	1138555.	1974	384878.	1957	176081.
2007	1828732.	1990	1124788.	1973	372665.	1956	160432.
2006	1847279.	1989	1094355.	1972	340181.	1955	150007.
2005	1826353.	1988	1034179.	1971	318173.	1954	140460.
2004	1833433.	1987	996314.	1970	298051.	1953	131859.
2003	1781149.	1986	946014.	1969	292122.	1952	126744.
2002	1754710.	1985	909748.	1968	283696.	1951	118157.
2001	1703927.	1984	871624.	1967	266892.	1950	103347.
2000	1703357.	1983	799753.	1966	260759.	1949	94214.
1999	1581351.	1982	772262.	1965	247600.	1948	63861.
1998	1462991.	1981	723356.	1964	237856.	1947	49511.

DISP MEAN SSD IV REI  
 S6 28.9 YRS. 0.4839E+12 99 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2113301.	1997	1392381.	1980	659083.	1963	224593.
2013	2114721.	1996	1345815.	1979	644247.	1962	220162.
2012	2168296.	1995	1314159.	1978	601713.	1961	211903.
2011	2028386.	1994	1234510.	1977	522345.	1960	202611.
2010	1860274.	1993	1192283.	1976	452640.	1959	192363.
2009	1895136.	1992	1176183.	1975	417415.	1958	182598.
2008	1878760.	1991	1138186.	1974	389423.	1957	176081.
2007	1823049.	1990	1123718.	1973	377234.	1956	160432.
2006	1847994.	1989	1092712.	1972	344304.	1955	150007.
2005	1833896.	1988	1032209.	1971	321796.	1954	140460.
2004	1846119.	1987	994322.	1970	301326.	1953	131859.
2003	1796249.	1986	944218.	1969	295115.	1952	126744.
2002	1769791.	1985	908155.	1968	286290.	1951	118157.
2001	1717622.	1984	869959.	1967	268930.	1950	103347.
2000	1715145.	1983	797504.	1966	262172.	1949	94214.
1999	1591038.	1982	768970.	1965	248458.	1948	63861.
1998	1470501.	1981	718948.	1964	238318.	1947	49511.

DISP MEAN SSD IV REI  
 SQ 31.5 YRS. 0.7042E+12 119 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2243104.	1997	1420114.	1980	677459.	1963	224597.
2013	2227196.	1996	1373366.	1979	680462.	1962	220163.
2012	2284659.	1995	1339163.	1978	638370.	1961	211903.
2011	2159153.	1994	1261463.	1977	553684.	1960	202611.
2010	1961668.	1993	1212698.	1976	487674.	1959	192363.
2009	1995447.	1992	1194634.	1975	444419.	1958	182598.
2008	2013993.	1991	1156312.	1974	406132.	1957	176081.
2007	1981448.	1990	1142835.	1973	385219.	1956	160432.
2006	1993191.	1989	1112387.	1972	362038.	1955	150007.
2005	1958929.	1988	1049011.	1971	334063.	1954	140460.
2004	1938405.	1987	1017063.	1970	309227.	1953	131859.
2003	1881901.	1986	967391.	1969	299695.	1952	126744.
2002	1844342.	1985	930760.	1968	288609.	1951	118157.
2001	1784323.	1984	891161.	1967	269924.	1950	103347.
2000	1763985.	1983	814069.	1966	262525.	1949	94214.
1999	1628054.	1982	784471.	1965	248560.	1948	63861.
1998	1507041.	1981	739225.	1964	238341.	1947	49511.

DISP MEAN SSD IV REI  
 L0 39.7 YRS. 0.5250E+12 103 88.58

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2251087.	1997	1295370.	1980	656040.	1963	195642.
2013	2238536.	1996	1256790.	1979	637604.	1962	194160.
2012	2276434.	1995	1233723.	1978	589341.	1961	188707.
2011	2118936.	1994	1162776.	1977	502663.	1960	182067.
2010	1931264.	1993	1129302.	1976	425185.	1959	174307.
2009	1944671.	1992	1122061.	1975	383015.	1958	166869.
2008	1904311.	1991	1092853.	1974	349685.	1957	162521.
2007	1821708.	1990	1086857.	1973	333993.	1956	148864.
2006	1818315.	1989	1063637.	1972	299060.	1955	140260.
2005	1777238.	1988	1009883.	1971	275644.	1954	132379.
2004	1766914.	1987	977595.	1970	255113.	1953	125292.
2003	1700624.	1986	931983.	1969	249696.	1952	121547.
2002	1664009.	1985	899483.	1968	242552.	1951	114171.
2001	1606971.	1984	864156.	1967	227618.	1950	100390.
2000	1603865.	1983	793941.	1966	223804.	1949	92107.
1999	1482299.	1982	766960.	1965	213258.	1948	62392.
1998	1366695.	1981	717326.	1964	206293.	1947	48509.

DISP MEAN SSD IV REI  
 L1 35.1 YRS. 0.4919E+12 99 96.69

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2227810.	1997	1308327.	1980	663595.	1963	202979.
2013	2218293.	1996	1271321.	1979	644219.	1962	201363.
2012	2258955.	1995	1249592.	1978	595216.	1961	195694.
2011	2104364.	1994	1179783.	1977	508110.	1960	188763.
2010	1919791.	1993	1147153.	1976	430485.	1959	180646.
2009	1936043.	1992	1140370.	1975	388330.	1958	172789.
2008	1898258.	1991	1111259.	1974	355112.	1957	167965.
2007	1818058.	1990	1104998.	1973	339589.	1956	153799.
2006	1816783.	1989	1081219.	1972	304896.	1955	144659.
2005	1777580.	1988	1026711.	1971	281768.	1954	136215.
2004	1768917.	1987	993480.	1970	261538.	1953	128550.
2003	1704194.	1986	946773.	1969	256390.	1952	124222.
2002	1669067.	1985	913055.	1968	249478.	1951	116286.
2001	1613471.	1984	876441.	1967	234744.	1950	101998.
2000	1611760.	1983	804969.	1966	231076.	1949	93276.
1999	1491764.	1982	776739.	1965	220618.	1948	63227.
1998	1377911.	1981	725927.	1964	213677.	1947	49091.



DISP MEAN SSD IV REI  
 L2 32.4 YRS. 0.4698E+12 97 99.54

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2200079.	1997	1325118.	1980	666703.	1963	210913.
2013	2193240.	1996	1288830.	1979	647316.	1962	208826.
2012	2236444.	1995	1267347.	1978	598459.	1961	202597.
2011	2084465.	1994	1197372.	1977	511692.	1960	195045.
2010	1902774.	1993	1164202.	1976	434584.	1959	186278.
2009	1922046.	1992	1156507.	1975	393053.	1958	177764.
2008	1887336.	1991	1126183.	1974	360499.	1957	172295.
2007	1810332.	1990	1118485.	1973	345636.	1956	157515.
2006	1812292.	1989	1093130.	1972	311580.	1955	147802.
2005	1776288.	1988	1037036.	1971	289046.	1954	138827.
2004	1770733.	1987	1002291.	1970	269332.	1953	130676.
2003	1708984.	1986	954196.	1969	264593.	1952	125908.
2002	1676636.	1985	919249.	1968	257959.	1951	117583.
2001	1623550.	1984	881584.	1967	243378.	1950	102965.
2000	1624000.	1983	809284.	1966	239729.	1949	93968.
1999	1505840.	1982	780443.	1965	229156.	1948	63709.
1998	1393532.	1981	729224.	1964	221972.	1947	49422.

DISP MEAN SSD IV REI  
 L3 30.6 YRS. 0.4569E+12 96 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2174207.	1997	1342589.	1980	666858.	1963	216933.
2013	2169325.	1996	1305450.	1979	648142.	1962	214168.
2012	2214972.	1995	1282650.	1978	600114.	1961	207268.
2011	2065900.	1994	1211008.	1977	514283.	1960	199075.
2010	1887507.	1993	1175948.	1976	438167.	1959	189704.
2009	1910368.	1992	1166276.	1975	397633.	1958	180632.
2008	1879429.	1991	1134006.	1974	366039.	1957	174654.
2007	1806264.	1990	1124486.	1973	352055.	1956	159417.
2006	1812033.	1989	1097494.	1972	318754.	1955	149303.
2005	1779701.	1988	1039977.	1971	296812.	1954	139983.
2004	1777577.	1987	1004034.	1970	277503.	1953	131545.
2003	1718923.	1986	954975.	1969	272964.	1952	126544.
2002	1689253.	1985	919311.	1968	266324.	1951	118035.
2001	1638348.	1984	881181.	1967	251543.	1950	103276.
2000	1640413.	1983	808668.	1966	247523.	1949	94176.
1999	1523251.	1982	779857.	1965	236441.	1948	63843.
1998	1411290.	1981	728900.	1964	228652.	1947	49504.

DISP      MEAN            SSD            IV      REI  
 L4      29.6 YRS.    0.4455E+12      95      100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2151508.	1997	1360319.	1980	666707.	1963	221123.
2013	2150050.	1996	1320317.	1979	649218.	1962	217677.
2012	2199574.	1995	1294638.	1978	602573.	1961	210163.
2011	2054699.	1994	1220230.	1977	518226.	1960	201424.
2010	1880728.	1993	1182615.	1976	443602.	1959	191577.
2009	1908176.	1992	1170642.	1975	404448.	1958	182095.
2008	1881930.	1991	1136349.	1974	373995.	1957	175771.
2007	1813480.	1990	1125099.	1973	360819.	1956	160250.
2006	1823848.	1989	1096679.	1972	327948.	1955	149906.
2005	1795791.	1988	1038055.	1971	306079.	1954	140409.
2004	1797377.	1987	1001336.	1970	286533.	1953	131836.
2003	1741564.	1986	951833.	1969	281532.	1952	126735.
2002	1713608.	1985	916042.	1968	274283.	1951	118155.
2001	1663203.	1984	878072.	1967	258792.	1950	103347.
2000	1664629.	1983	805978.	1966	254007.	1949	94214.
1999	1545890.	1982	777812.	1965	242140.	1948	63861.
1998	1431682.	1981	727704.	1964	233578.	1947	49511.

DISP      MEAN            SSD            IV      REI  
 L5      29.1 YRS.    0.4542E+12      95      100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2131793.	1997	1377098.	1980	664091.	1963	223649.
2013	2131480.	1996	1334446.	1979	647740.	1962	219603.
2012	2182937.	1995	1305991.	1978	602566.	1961	211594.
2011	2040748.	1994	1228840.	1977	519895.	1960	202454.
2010	1870156.	1993	1188612.	1976	446955.	1959	192294.
2009	1901619.	1992	1174236.	1975	409281.	1958	182572.
2008	1880021.	1991	1137790.	1974	379949.	1957	176074.
2007	1816729.	1990	1124688.	1973	367492.	1956	160431.
2006	1832474.	1989	1094758.	1972	334984.	1955	150007.
2005	1809548.	1988	1034996.	1971	313196.	1954	140460.
2004	1815409.	1987	997505.	1970	293533.	1953	131859.
2003	1762607.	1986	947563.	1969	288234.	1952	126744.
2002	1736269.	1985	911602.	1968	280509.	1951	118157.
2001	1686232.	1984	873658.	1967	264375.	1950	103347.
2000	1687041.	1983	801738.	1966	258829.	1949	94214.
1999	1566951.	1982	773884.	1965	246152.	1948	63861.
1998	1450820.	1981	724294.	1964	236807.	1947	49511.

DISP MEAN SSD IV REI  
R1 34.0 YRS. 0.4950E+12 100 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2233016.	1997	1304017.	1980	662328.	1963	199659.
2013	2223458.	1996	1265583.	1979	644068.	1962	197683.
2012	2264415.	1995	1242568.	1978	596130.	1961	191757.
2011	2110033.	1994	1171556.	1977	509803.	1960	184660.
2010	1924893.	1993	1137801.	1976	432549.	1959	176465.
2009	1940302.	1992	1130193.	1975	390469.	1958	168616.
2008	1901859.	1991	1100594.	1974	357148.	1957	163895.
2007	1820901.	1990	1094204.	1973	341415.	1956	149903.
2006	1818872.	1989	1070677.	1972	306400.	1955	140986.
2005	1779043.	1988	1016658.	1971	282809.	1954	132826.
2004	1769858.	1987	984109.	1970	262021.	1953	125500.
2003	1704641.	1986	938284.	1969	256278.	1952	121567.
2002	1668962.	1985	905619.	1968	248782.	1951	114071.
2001	1612783.	1984	870227.	1967	233459.	1950	100228.
2000	1610557.	1983	799999.	1966	229216.	1949	91940.
1999	1489930.	1982	773020.	1965	218225.	1948	62254.
1998	1374987.	1981	723490.	1964	210793.	1947	48383.

DISP MEAN SSD IV REI  
R2 31.4 YRS. 0.4583E+12 96 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2201440.	1997	1314293.	1980	669389.	1963	207689.
2013	2197390.	1996	1276002.	1979	651083.	1962	205338.
2012	2243278.	1995	1252982.	1978	603075.	1961	198977.
2011	2093522.	1994	1181922.	1977	516808.	1960	191405.
2010	1913172.	1993	1148133.	1976	439812.	1959	182709.
2009	1933096.	1992	1140383.	1975	398088.	1958	174338.
2008	1898520.	1991	1110543.	1974	365123.	1957	169075.
2007	1820984.	1990	1103823.	1973	349691.	1956	154541.
2006	1821845.	1989	1079878.	1972	314930.	1955	145097.
2005	1784297.	1988	1025465.	1971	291572.	1954	136417.
2004	1776834.	1987	992573.	1970	270969.	1953	128580.
2003	1712872.	1986	946435.	1969	265331.	1952	124141.
2002	1678090.	1985	913487.	1968	257836.	1951	116149.
2001	1622470.	1984	877813.	1967	242442.	1950	101844.
2000	1620440.	1983	807386.	1966	238057.	1949	93135.
1999	1499836.	1982	780266.	1965	226850.	1948	63110.
1998	1385047.	1981	730603.	1964	219146.	1947	48993.

DISP MEAN SSD IV REI  
R3 30.0 YRS. 0.4288E+12 93 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2168905.	1997	1334367.	1980	671660.	1963	214902.
2013	2169651.	1996	1294781.	1979	654090.	1962	212061.
2012	2220638.	1995	1270150.	1978	606854.	1961	205178.
2011	2076308.	1994	1197300.	1977	521432.	1960	197068.
2010	1901792.	1993	1161633.	1976	445342.	1959	187830.
2009	1927550.	1992	1151920.	1975	404495.	1958	178923.
2008	1898452.	1991	1120106.	1974	372303.	1957	173129.
2007	1826014.	1990	1111469.	1973	357497.	1956	158085.
2006	1831427.	1989	1085723.	1972	323216.	1955	148162.
2005	1797736.	1988	1029745.	1971	300210.	1954	139028.
2004	1793388.	1987	995573.	1970	279822.	1953	130764.
2003	1731809.	1986	948458.	1969	274256.	1952	125924.
2002	1698698.	1985	914847.	1968	266695.	1951	117557.
2001	1644060.	1984	878811.	1967	251128.	1950	102920.
2000	1642321.	1983	808344.	1966	246475.	1949	93920.
1999	1521459.	1982	781460.	1965	234921.	1948	63664.
1998	1406065.	1981	732237.	1964	226811.	1947	49382.

DISP MEAN SSD IV REI  
R4 29.2 YRS. 0.4259E+12 92 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2137343.	1997	1353625.	1980	668263.	1963	219902.
2013	2139581.	1996	1312819.	1979	651997.	1962	216547.
2012	2193059.	1995	1286614.	1978	606246.	1961	209148.
2011	2052255.	1994	1211893.	1977	522359.	1960	200535.
2010	1882238.	1993	1174118.	1976	447733.	1959	190816.
2009	1913231.	1992	1162113.	1975	408183.	1958	181459.
2008	1889823.	1991	1127910.	1974	377071.	1957	175253.
2007	1823203.	1990	1116881.	1973	363127.	1956	159837.
2006	1834191.	1989	1088831.	1972	329501.	1955	149586.
2005	1805493.	1988	1030725.	1971	306954.	1954	140166.
2004	1805325.	1987	994666.	1970	286829.	1953	131657.
2003	1747006.	1986	945962.	1969	281342.	1952	126608.
2002	1716288.	1985	911103.	1968	273680.	1951	118067.
2001	1663263.	1984	874215.	1967	257865.	1950	103289.
2000	1662423.	1983	803344.	1966	252861.	1949	94178.
1999	1541819.	1982	776535.	1965	240886.	1948	63839.
1998	1426121.	1981	727862.	1964	232309.	1947	49498.

DISP MEAN SSD IV REI  
R5 29.1 YRS. 0.4515E+12 95 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2127191.	1997	1380045.	1980	665125.	1963	223709.
2013	2127971.	1996	1336405.	1979	650090.	1962	219620.
2012	2180979.	1995	1307136.	1978	605968.	1961	211584.
2011	2041041.	1994	1229301.	1977	523895.	1960	202432.
2010	1873532.	1993	1188507.	1976	451097.	1959	192269.
2009	1908638.	1992	1173685.	1975	413262.	1958	182552.
2008	1890566.	1991	1136932.	1974	383635.	1957	176061.
2007	1829980.	1990	1123653.	1973	370839.	1956	160424.
2006	1847141.	1989	1093635.	1972	337969.	1955	150004.
2005	1824307.	1988	1033791.	1971	315770.	1954	140459.
2004	1829261.	1987	996149.	1970	295629.	1953	131859.
2003	1774975.	1986	945958.	1969	289812.	1952	126744.
2002	1746949.	1985	909728.	1968	281592.	1951	118157.
2001	1695193.	1984	871617.	1967	265057.	1950	103347.
2000	1694312.	1983	799834.	1966	259226.	1949	94214.
1999	1572596.	1982	772583.	1965	246377.	1948	63861.
1998	1454998.	1981	724023.	1964	236929.	1947	49511.

DISP MEAN SSD IV REI  
O1 38.9 YRS. 0.5413E+12 104 93.24

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2256850.	1997	1290069.	1980	649716.	1963	191809.
2013	2243357.	1996	1250606.	1979	632115.	1962	190235.
2012	2281000.	1995	1226758.	1978	584883.	1961	184753.
2011	2123552.	1994	1155014.	1977	499112.	1960	178127.
2010	1934964.	1993	1120585.	1976	422166.	1959	170419.
2009	1946957.	1992	1112520.	1975	380243.	1958	163065.
2008	1905515.	1991	1082689.	1974	347031.	1957	158854.
2007	1821717.	1990	1076289.	1973	331421.	1956	145369.
2006	1817096.	1989	1052989.	1972	296528.	1955	136941.
2005	1775036.	1988	999302.	1971	273029.	1954	129261.
2004	1763964.	1987	967154.	1970	252330.	1953	122412.
2003	1697133.	1986	921815.	1969	246714.	1952	118959.
2002	1660037.	1985	889711.	1968	239411.	1951	111947.
2001	1602653.	1984	854978.	1967	224317.	1950	98562.
2000	1599516.	1983	785399.	1966	220342.	1949	90699.
1999	1478094.	1982	759068.	1965	209664.	1948	61363.
1998	1362148.	1981	710235.	1964	202576.	1947	47742.

DISP MEAN SSD IV REI  
 O2 43.4 YRS. 0.5487E+12 105 83.99

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2260327.	1997	1288044.	1980	648852.	1963	191577.
2013	2246051.	1996	1248588.	1979	631317.	1962	190024.
2012	2282992.	1995	1224765.	1978	584148.	1961	184562.
2011	2124912.	1994	1153060.	1977	498434.	1960	177955.
2010	1935753.	1993	1118681.	1976	421538.	1959	170265.
2009	1947238.	1992	1110678.	1975	379659.	1958	162929.
2008	1905351.	1991	1080918.	1974	346487.	1957	158735.
2007	1821165.	1990	1074597.	1973	330915.	1956	145266.
2006	1816211.	1989	1051382.	1972	296057.	1955	136851.
2005	1773871.	1988	997781.	1971	272591.	1954	129186.
2004	1762566.	1987	965722.	1970	251922.	1953	122348.
2003	1695548.	1986	920470.	1969	246334.	1952	118908.
2002	1658303.	1985	888453.	1968	239059.	1951	111907.
2001	1600805.	1984	853806.	1967	223991.	1950	98531.
2000	1597588.	1983	784310.	1966	220041.	1949	90676.
1999	1476114.	1982	758058.	1965	209387.	1948	61347.
1998	1360136.	1981	709300.	1964	202322.	1947	47730.

DISP MEAN SSD IV REI  
 O3 58.6 YRS. 0.5736E+12 107 71.71

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2276217.	1997	1284471.	1980	644889.	1963	189428.
2013	2259864.	1996	1244562.	1979	627553.	1962	188003.
2012	2294957.	1995	1220363.	1978	580591.	1961	182677.
2011	2135169.	1994	1148336.	1977	495048.	1960	176211.
2010	1944294.	1993	1113679.	1976	418266.	1959	168664.
2009	1954149.	1992	1105474.	1975	376468.	1958	161470.
2008	1910801.	1991	1075589.	1974	343366.	1957	157421.
2007	1825261.	1990	1069216.	1973	327865.	1956	144093.
2006	1819073.	1989	1046022.	1972	293079.	1955	135814.
2005	1775639.	1988	992484.	1971	269677.	1954	128280.
2004	1763373.	1987	960518.	1970	249071.	1953	121571.
2003	1695503.	1986	915392.	1969	243555.	1952	118258.
2002	1657496.	1985	883529.	1968	236366.	1951	111381.
2001	1599326.	1984	849065.	1967	221393.	1950	98121.
2000	1595543.	1983	779756.	1966	217545.	1949	90373.
1999	1473565.	1982	753696.	1965	207001.	1948	61129.
1998	1357069.	1981	705143.	1964	200053.	1947	47575.

DISP MEAN SSD IV REI  
 O4 76.9 YRS. 0.5857E+12 108 66.49

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2286598.	1997	1284395.	1980	643817.	1963	188579.
2013	2269198.	1996	1244214.	1979	626529.	1962	187192.
2012	2303349.	1995	1219784.	1978	579620.	1961	181910.
2011	2142679.	1994	1147554.	1977	494115.	1960	175491.
2010	1950913.	1993	1112714.	1976	417343.	1959	167995.
2009	1959917.	1992	1104365.	1975	375540.	1958	160855.
2008	1915798.	1991	1074374.	1974	342429.	1957	156861.
2007	1829533.	1990	1067927.	1973	326921.	1956	143589.
2006	1822679.	1989	1044697.	1972	292129.	1955	135365.
2005	1778647.	1988	991143.	1971	268718.	1954	127885.
2004	1765846.	1987	959176.	1970	248105.	1953	121229.
2003	1697495.	1986	914063.	1969	242587.	1952	117970.
2002	1659053.	1985	882227.	1968	235404.	1951	111147.
2001	1600495.	1984	847806.	1967	220442.	1950	97938.
2000	1596374.	1983	778539.	1966	216611.	1949	90237.
1999	1474091.	1982	752525.	1965	206091.	1948	61032.
1998	1357290.	1981	704024.	1964	199171.	1947	47505.

DISP MEAN SSD IV REI  
 S0.5 32.9 YRS. 0.4788E+12 98 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2218825.	1997	1313335.	1980	668078.	1963	205294.
2013	2211053.	1996	1276060.	1979	648883.	1962	203369.
2012	2253270.	1995	1254009.	1978	599987.	1961	197407.
2011	2100076.	1994	1183870.	1977	512944.	1960	190205.
2010	1916938.	1993	1150958.	1976	435369.	1959	181845.
2009	1934618.	1992	1143928.	1975	393246.	1958	173776.
2008	1898126.	1991	1114614.	1974	360020.	1957	168769.
2007	1819130.	1990	1108206.	1973	344437.	1956	154451.
2006	1818969.	1989	1084323.	1972	309634.	1955	145190.
2005	1780733.	1988	1029780.	1971	286359.	1954	136652.
2004	1772877.	1987	996592.	1970	265943.	1953	128914.
2003	1708787.	1986	949993.	1969	260573.	1952	124526.
2002	1674134.	1985	916437.	1968	253393.	1951	116534.
2001	1618837.	1984	880013.	1967	238362.	1950	102196.
2000	1617226.	1983	808763.	1966	234376.	1949	93425.
1999	1497145.	1982	780777.	1965	223588.	1948	63332.
1998	1383131.	1981	730192.	1964	216315.	1947	49169.

DISP MEAN SSD IV REI  
 S1.5 30.9 YRS. 0.4560E+12 96 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2188213.	1997	1322890.	1980	670018.	1963	211861.
2013	2184281.	1996	1285880.	1979	651052.	1962	209574.
2012	2230267.	1995	1263832.	1978	602526.	1961	203193.
2011	2080853.	1994	1193480.	1977	515992.	1960	195529.
2010	1901422.	1993	1160139.	1976	439014.	1959	186677.
2009	1922559.	1992	1152486.	1975	397512.	1958	178096.
2008	1889275.	1991	1122408.	1974	364891.	1957	172572.
2007	1813245.	1990	1115140.	1973	349874.	1956	157744.
2006	1815749.	1989	1090366.	1972	315588.	1955	147988.
2005	1779891.	1988	1034958.	1971	292760.	1954	138976.
2004	1774136.	1987	1000951.	1970	272706.	1953	130795.
2003	1711902.	1986	953611.	1969	267593.	1952	126002.
2002	1678858.	1985	919418.	1968	260570.	1951	117654.
2001	1624937.	1984	882484.	1967	245599.	1950	103016.
2000	1624472.	1983	810879.	1966	241576.	1949	94004.
1999	1505371.	1982	782679.	1965	230659.	1948	63733.
1998	1392146.	1981	732036.	1964	223173.	1947	49437.

DISP MEAN SSD IV REI  
 S2.5 29.9 YRS. 0.4408E+12 94 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2163441.	1997	1338679.	1980	669223.	1963	217263.
2013	2162259.	1996	1300679.	1979	651050.	1962	214447.
2012	2211311.	1995	1277281.	1978	603436.	1961	207513.
2011	2065174.	1994	1205280.	1977	517881.	1960	199293.
2010	1889314.	1993	1170110.	1976	441855.	1959	189897.
2009	1914156.	1992	1160527.	1975	401271.	1958	180799.
2008	1884561.	1991	1128515.	1974	369497.	1957	174795.
2007	1812136.	1990	1119390.	1973	355245.	1956	159532.
2006	1818134.	1989	1092908.	1972	321554.	1955	149393.
2005	1785527.	1988	1036018.	1971	299202.	1954	140051.
2004	1782747.	1987	1000766.	1970	279473.	1953	131595.
2003	1723054.	1986	952476.	1969	274535.	1952	126579.
2002	1692103.	1985	917635.	1968	267542.	1951	118057.
2001	1639743.	1984	880355.	1967	252466.	1950	103289.
2000	1640332.	1983	808708.	1966	248215.	1949	94182.
1999	1521746.	1982	780740.	1965	236964.	1948	63845.
1998	1408467.	1981	730553.	1964	229059.	1947	49503.



DISP      MEAN          SSD          IV          REI  
 L0.5      37.0 YRS.      0.5067E+12      101      93.25

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2235967.	1997	1300222.	1980	659189.	1963	199036.
2013	2225077.	1996	1262444.	1979	640374.	1962	197484.
2012	2264501.	1995	1240056.	1978	591822.	1961	191923.
2011	2108580.	1994	1169683.	1977	504991.	1960	185140.
2010	1922564.	1993	1136638.	1976	427484.	1959	177207.
2009	1937503.	1992	1129644.	1975	385354.	1958	169569.
2008	1898548.	1991	1100513.	1974	352106.	1957	164997.
2007	1817265.	1990	1094429.	1973	336519.	1956	151102.
2006	1815056.	1989	1070986.	1972	301719.	1955	142249.
2005	1775047.	1988	1016919.	1971	278455.	1954	134108.
2004	1765687.	1987	984234.	1970	258079.	1953	126758.
2003	1700307.	1986	938160.	1969	252799.	1952	122747.
2002	1664555.	1985	905144.	1968	245769.	1951	115118.
2001	1608349.	1984	869272.	1967	230932.	1950	101109.
2000	1606039.	1983	798530.	1966	227185.	1949	92629.
1999	1485332.	1982	771026.	1965	216676.	1948	62764.
1998	1370649.	1981	720902.	1964	209716.	1947	48768.

DISP      MEAN          SSD          IV          REI  
 L1.5      33.5 YRS.      0.4786E+12      98      98.53

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2207553.	1997	1313536.	1980	664421.	1963	206540.
2013	2199703.	1996	1276942.	1979	645133.	1962	204705.
2012	2241975.	1995	1255408.	1978	596281.	1961	198779.
2011	2089026.	1994	1185607.	1977	509405.	1960	191567.
2010	1906219.	1993	1152818.	1976	432084.	1959	183159.
2009	1924291.	1992	1145713.	1975	390274.	1958	175009.
2008	1888330.	1991	1116148.	1974	357411.	1957	169899.
2007	1809982.	1990	1109341.	1973	342231.	1956	155462.
2006	1810547.	1989	1084961.	1972	307862.	1955	146068.
2005	1773129.	1988	1029856.	1971	285030.	1954	137389.
2004	1766173.	1987	996066.	1970	265051.	1953	129508.
2003	1703057.	1986	948858.	1969	260098.	1952	124985.
2002	1669411.	1985	914711.	1968	253314.	1951	116874.
2001	1615141.	1984	877745.	1967	238648.	1950	102438.
2000	1614567.	1983	806018.	1966	234983.	1949	93592.
1999	1495535.	1982	777626.	1965	224466.	1948	63448.
1998	1382494.	1981	726738.	1964	217408.	1947	49243.

DISP MEAN SSD IV REI  
 L2.5 31.5 YRS. 0.4608E+12 96 99.86

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2187955.	1997	1333579.	1980	667170.	1963	213749.
2013	2182265.	1996	1296758.	1979	648141.	1962	211333.
2012	2226849.	1995	1274550.	1978	599709.	1961	204783.
2011	2076457.	1994	1203716.	1977	513406.	1960	196927.
2010	1896512.	1993	1169616.	1976	436775.	1959	187875.
2009	1917630.	1992	1160979.	1975	395711.	1958	179099.
2008	1884813.	1991	1129748.	1974	363592.	1957	173392.
2007	1809693.	1990	1121216.	1973	349112.	1956	158399.
2006	1813480.	1989	1095126.	1972	315369.	1955	148499.
2005	1779193.	1988	1038403.	1971	293063.	1954	139364.
2004	1775203.	1987	1003139.	1970	273482.	1953	131080.
2003	1714825.	1986	954639.	1969	268776.	1952	126204.
2002	1683617.	1985	919407.	1968	262081.	1951	117793.
2001	1631411.	1984	881576.	1967	247352.	1950	103110.
2000	1632458.	1983	809231.	1966	243481.	1949	94064.
1999	1514594.	1982	780459.	1965	232632.	1948	63771.
1998	1402281.	1981	729416.	1964	225137.	1947	49460.

DISP MEAN SSD IV REI  
 R1.5 32.6 YRS. 0.4767E+12 98 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2219407.	1997	1308781.	1980	666358.	1963	203560.
2013	2212453.	1996	1270480.	1979	648039.	1962	201391.
2012	2255688.	1995	1247541.	1978	600026.	1961	195246.
2011	2103394.	1994	1176593.	1977	513682.	1960	187913.
2010	1920388.	1993	1142915.	1976	436505.	1959	179470.
2009	1937776.	1992	1135332.	1975	394548.	1958	171365.
2008	1900985.	1991	1105709.	1974	361351.	1957	166380.
2007	1821461.	1990	1099247.	1973	345717.	1956	152125.
2006	1820625.	1989	1075597.	1972	310781.	1955	142954.
2005	1781722.	1988	1021456.	1971	287263.	1954	134543.
2004	1773225.	1987	988797.	1970	266527.	1953	126971.
2003	1708502.	1986	942862.	1969	260801.	1952	122796.
2002	1673173.	1985	910087.	1968	253276.	1951	115062.
2001	1617211.	1984	874572.	1967	237893.	1950	100999.
2000	1615056.	1983	804249.	1966	233558.	1949	92510.
1999	1494442.	1982	777191.	1965	222443.	1948	62662.
1998	1379600.	1981	727575.	1964	214864.	1947	48673.

DISP MEAN SSD IV REI  
R2.5 30.4 YRS. 0.4411E+12 94 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	2172674.	1997	1318907.	1980	668785.	1963	210953.
2013	2171694.	1996	1280188.	1979	650996.	1962	208399.
2012	2220782.	1995	1256581.	1978	603510.	1961	201816.
2011	2074354.	1994	1184845.	1977	517786.	1960	194011.
2010	1897495.	1993	1150338.	1976	441351.	1959	185075.
2009	1920869.	1992	1141827.	1975	400163.	1958	176465.
2008	1889529.	1991	1111223.	1974	367674.	1957	170963.
2007	1815006.	1990	1103775.	1973	352638.	1956	156196.
2006	1818571.	1989	1079164.	1972	318195.	1955	146533.
2005	1783350.	1988	1024203.	1971	295086.	1954	137644.
2004	1777809.	1987	990906.	1970	274660.	1953	129610.
2003	1715372.	1986	944515.	1969	269124.	1952	124983.
2002	1681729.	1985	911462.	1968	261659.	1951	116815.
2001	1626877.	1984	875825.	1967	246239.	1950	102354.
2000	1625254.	1983	805588.	1966	241775.	1949	93508.
1999	1504767.	1982	778780.	1965	230448.	1948	63373.
1998	1389908.	1981	729516.	1964	222590.	1947	49178.
S2.5	29.9 YRS.	0.4408E+12	94	10	100.00		
S3	29.7 YRS.	0.4378E+12	94	10	100.00		
S4	29.2 YRS.	0.4429E+12	94	10	100.00		
L3	30.6 YRS.	0.4569E+12	96	10	100.00		
L4	29.6 YRS.	0.4455E+12	95	10	100.00		
L5	29.1 YRS.	0.4542E+12	95	10	100.00		
R3	30.0 YRS.	0.4288E+12	93	10	100.00		
R4	29.2 YRS.	0.4259E+12	92	10	100.00		
R5	29.1 YRS.	0.4515E+12	95	10	100.00		

SIMULATED PLANT RECORD ANALYSIS  
BOARD  
SIMULATED BALANCE METHOD

SURFACE TRANSPORTATION

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 370 Meters

ANALYSIS BAND = 1947 THRU 2014

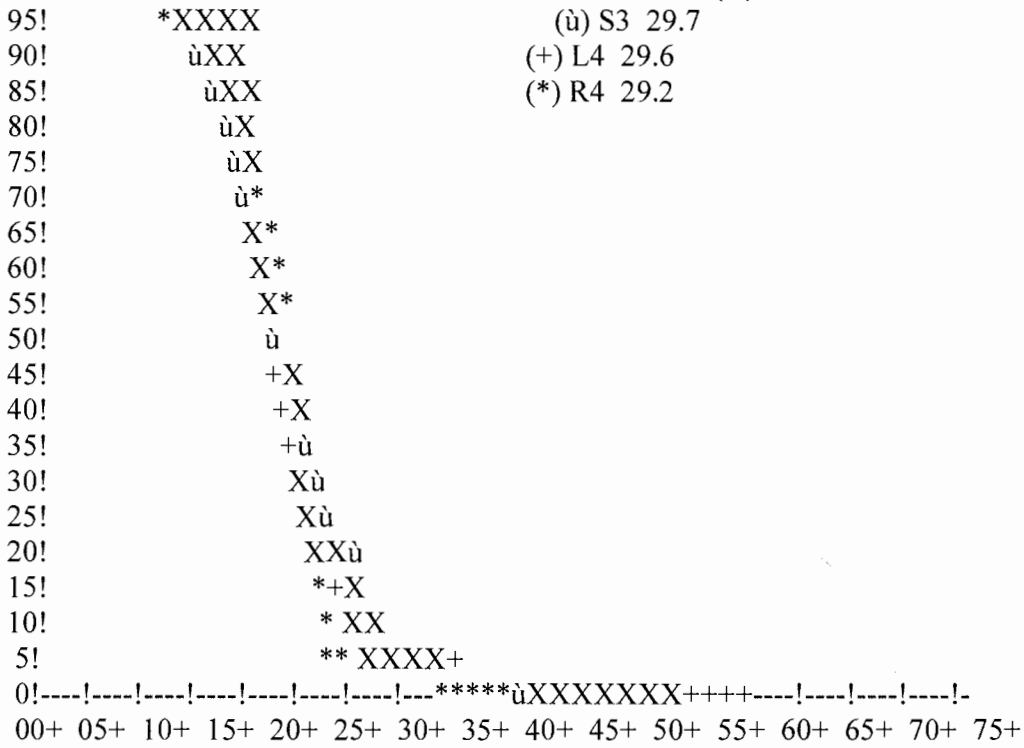
INCREMENT = 1

CURVE	IV	CI	REI
S0 - 33.9	99	10	100.00
S0.5 - 32.9	98	10	100.00
S1 - 31.8	97	10	100.00
S1.5 - 30.9	96	10	100.00
S2 - 30.4	95	10	100.00
S2.5 - 29.9	94	10	100.00
S3 - 29.7	94	10	100.00
S4 - 29.2	94	10	100.00
S5 - 29.1	96	10	100.00
S6 - 28.9	99	10	100.00
SQ - 31.5	119	8	100.00
L0 - 39.7	103	9	88.58
L0.5 - 37.0	101	9	93.25
L1 - 35.1	99	10	96.69
L1.5 - 33.5	98	10	98.53
L2 - 32.4	97	10	99.54
L2.5 - 31.5	96	10	99.86
L3 - 30.6	96	10	100.00
L4 - 29.6	95	10	100.00
L5 - 29.1	95	10	100.00
R1 - 34.0	100	10	100.00
R1.5 - 32.6	98	10	100.00
R2 - 31.4	96	10	100.00
R2.5 - 30.4	94	10	100.00
R3 - 30.0	93	10	100.00
R4 - 29.2	92	10	100.00
R5 - 29.1	95	10	100.00
O1 - 38.9	104	9	93.24
O2 - 43.4	105	9	83.99
O3 - 58.6	107	9	71.71
O4 - 76.9	108	9	66.49

September 2, 2015

XXXXXXXXXXXXXXXXXX+

(X) CURVE OVERLAP



SIMULATED PLANT RECORD ANALYSIS  
BOARD  
SIMULATED BALANCE METHOD

SURFACE TRANSPORTATION

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 371 Installations on Customers' Premises

ACCOUNT CONTROL INFORMATION

EARLIEST ADDITION = 1962 LATEST ADDITION = 2014  
EARLIEST BALANCE = 1962 LATEST BALANCE = 2014  
EARLIEST RETIREMENT = 1962 LATEST RETIREMENT = 2014 INPUT = ADD & RET

SIMULATED PLANT RECORD ANALYSIS  
BOARD

SURFACE TRANSPORTATION

SIMULATED BALANCE METHOD

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 371 Installations on Customers' Premises

ANALYSIS BAND = 1962 THRU 2014 INCREMENT = 1

DISP MEAN SSD IV REI  
S0 22.6 YRS. 0.7411E+11 25 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4745912.	2000	2242037.	1986	794806.	1972	289061.
2013	4524274.	1999	2066088.	1985	750753.	1971	227410.
2012	4316022.	1998	1923682.	1984	715061.	1970	195245.
2011	4070805.	1997	1731447.	1983	669277.	1969	152961.
2010	3839974.	1996	1594110.	1982	630262.	1968	111602.
2009	3570306.	1995	1450953.	1981	606292.	1967	84412.
2008	3435512.	1994	1345841.	1980	582459.	1966	72740.
2007	3277582.	1993	1248245.	1979	548893.	1965	60746.
2006	3147027.	1992	1151394.	1978	530899.	1964	53202.
2005	3011030.	1991	1059227.	1977	512200.	1963	24100.
2004	2877560.	1990	1008138.	1976	492359.	1962	15575.
2003	2730317.	1989	946723.	1975	435983.	0	0.
2002	2587450.	1988	898621.	1974	400197.	0	0.
2001	2395312.	1987	856601.	1973	359916.	0	0.

DISP MEAN SSD IV REI  
S1 21.0 YRS. 0.1155E+12 32 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4730517.	2000	2225545.	1986	809555.	1972	294883.
2013	4513232.	1999	2049241.	1985	767310.	1971	231995.
2012	4308283.	1998	1907208.	1984	733001.	1970	198770.
2011	4065536.	1997	1716147.	1983	688167.	1969	155622.
2010	3836448.	1996	1580633.	1982	649628.	1968	113580.
2009	3567838.	1995	1439844.	1981	625619.	1967	85830.
2008	3433168.	1994	1337482.	1980	601255.	1966	73676.
2007	3274468.	1993	1242914.	1979	566720.	1965	61287.
2006	3142380.	1992	1149283.	1978	547343.	1964	53448.
2005	3004279.	1991	1060398.	1977	526934.	1963	24187.
2004	2868398.	1990	1012480.	1976	505193.	1962	15589.
2003	2718731.	1989	954065.	1975	446900.	0	0.
2002	2573682.	1988	908720.	1974	409238.	0	0.
2001	2379886.	1987	869170.	1973	367218.	0	0.

DISP MEAN SSD IV REI  
 S2 20.1 YRS. 0.1667E+12 38 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4727685.	2000	2208944.	1986	822919.	1972	298467.
2013	4516880.	1999	2030796.	1985	782662.	1971	234685.
2012	4317160.	1998	1887896.	1984	749678.	1970	200726.
2011	4078158.	1997	1696941.	1983	705486.	1969	156988.
2010	3851155.	1996	1562442.	1982	666931.	1968	114480.
2009	3582911.	1995	1423491.	1981	642319.	1967	86373.
2008	3446980.	1994	1323673.	1980	616866.	1966	73965.
2007	3285642.	1993	1232222.	1979	580879.	1965	61415.
2006	3149864.	1992	1142115.	1978	559826.	1964	53491.
2005	3007405.	1991	1056991.	1977	537654.	1963	24197.
2004	2866883.	1990	1012901.	1976	514179.	1962	15589.
2003	2712650.	1989	958225.	1975	454264.	0	0.
2002	2563415.	1988	916375.	1974	415147.	0	0.
2001	2366052.	1987	879936.	1973	371869.	0	0.

DISP MEAN SSD IV REI  
 S3 19.6 YRS. 0.2196E+12 44 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4738158.	2000	2200132.	1986	835606.	1972	300289.
2013	4532782.	1999	2019005.	1985	796708.	1971	235911.
2012	4336857.	1998	1873890.	1984	764404.	1970	201498.
2011	4099852.	1997	1681585.	1983	720041.	1969	157436.
2010	3873493.	1996	1546853.	1982	680853.	1968	114714.
2009	3604465.	1995	1408491.	1981	655108.	1967	86480.
2008	3466699.	1994	1310375.	1980	628317.	1966	74006.
2007	3302804.	1993	1221632.	1979	590863.	1965	61427.
2006	3163735.	1992	1134804.	1978	568321.	1964	53494.
2005	3017620.	1991	1053354.	1977	544714.	1963	24197.
2004	2873267.	1990	1013276.	1976	519907.	1962	15589.
2003	2715029.	1989	962464.	1975	458792.	0	0.
2002	2561783.	1988	924052.	1974	418619.	0	0.
2001	2360641.	1987	890454.	1973	374439.	0	0.



DISP MEAN SSD IV REI  
 S4 19.1 YRS. 0.2767E+12 50 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4734291.	2000	2190456.	1986	845807.	1972	301044.
2013	4535818.	1999	2005650.	1985	807787.	1971	236306.
2012	4344247.	1998	1856559.	1984	775479.	1970	201684.
2011	4109356.	1997	1660616.	1983	730798.	1969	157512.
2010	3882989.	1996	1523104.	1982	690945.	1968	114741.
2009	3612704.	1995	1383754.	1981	664502.	1967	86488.
2008	3472945.	1994	1286491.	1980	636866.	1966	74008.
2007	3306782.	1993	1200467.	1979	598462.	1965	61427.
2006	3165779.	1992	1118164.	1978	574851.	1964	53494.
2005	3018029.	1991	1042387.	1977	550080.	1963	24197.
2004	2872223.	1990	1008157.	1976	524084.	1962	15589.
2003	2712589.	1989	962827.	1975	461843.	0	0.
2002	2557641.	1988	928985.	1974	420698.	0	0.
2001	2354123.	1987	898698.	1973	375747.	0	0.

DISP MEAN SSD IV REI  
 S5 18.8 YRS. 0.3166E+12 53 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4731117.	2000	2187996.	1986	853017.	1972	301115.
2013	4537451.	1999	2000891.	1985	814022.	1971	236326.
2012	4348566.	1998	1848246.	1984	780398.	1970	201688.
2011	4114601.	1997	1647981.	1983	734883.	1969	157513.
2010	3887681.	1996	1506233.	1982	695021.	1968	114741.
2009	3615650.	1995	1363800.	1981	669129.	1967	86488.
2008	3473423.	1994	1265517.	1980	641985.	1966	74008.
2007	3304822.	1993	1181004.	1979	603506.	1965	61427.
2006	3162154.	1992	1102578.	1978	579154.	1964	53494.
2005	3013883.	1991	1032268.	1977	553241.	1963	24197.
2004	2868580.	1990	1003983.	1976	526086.	1962	15589.
2003	2709972.	1989	963963.	1975	462937.	0	0.
2002	2555930.	1988	933966.	1974	421211.	0	0.
2001	2352608.	1987	905673.	1973	375954.	0	0.

DISP MEAN SSD IV REI  
 S6 18.5 YRS. 0.3407E+12 55 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4708645.	2000	2182227.	1986	855306.	1972	301115.
2013	4518669.	1999	1994773.	1985	815559.	1971	236326.
2012	4331770.	1998	1841083.	1984	779444.	1970	201688.
2011	4100496.	1997	1638322.	1983	732266.	1969	157513.
2010	3876699.	1996	1492354.	1982	693246.	1968	114741.
2009	3605939.	1995	1345846.	1981	669841.	1967	86488.
2008	3462469.	1994	1245512.	1980	644792.	1966	74008.
2007	3291690.	1993	1160757.	1979	606822.	1965	61427.
2006	3147889.	1992	1083828.	1978	581640.	1964	53494.
2005	3000390.	1991	1017658.	1977	554546.	1963	24197.
2004	2856901.	1990	994943.	1976	526584.	1962	15589.
2003	2700071.	1989	959224.	1975	463079.	0	0.
2002	2547828.	1988	932035.	1974	421242.	0	0.
2001	2346169.	1987	906307.	1973	375959.	0	0.

DISP MEAN SSD IV REI  
 SQ 20.2 YRS. 0.6876E+12 78 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4959429.	2000	2243730.	1986	891861.	1972	301115.
2013	4738739.	1999	2059053.	1985	840937.	1971	236326.
2012	4535344.	1998	1895244.	1984	795152.	1970	201688.
2011	4294983.	1997	1684997.	1983	762018.	1969	157513.
2010	4032541.	1996	1533042.	1982	716260.	1968	114741.
2009	3745952.	1995	1413715.	1981	693744.	1967	86488.
2008	3584815.	1994	1313524.	1980	656965.	1966	74008.
2007	3398193.	1993	1226855.	1979	611633.	1965	61427.
2006	3262343.	1992	1172866.	1978	583005.	1964	53494.
2005	3106958.	1991	1115675.	1977	554802.	1963	24197.
2004	2949419.	1990	1071355.	1976	526613.	1962	15589.
2003	2791876.	1989	1028099.	1975	463081.	0	0.
2002	2635587.	1988	998501.	1974	421242.	0	0.
2001	2418615.	1987	962139.	1973	375959.	0	0.

DISP MEAN SSD IV REI  
 L0 25.6 YRS. 0.5573E+11 22 93.12

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4750710.	2000	2228737.	1986	772113.	1972	283238.
2013	4526513.	1999	2052642.	1985	728116.	1971	222815.
2012	4315910.	1998	1909957.	1984	692702.	1970	191693.
2011	4068402.	1997	1717168.	1983	647387.	1969	150278.
2010	3835283.	1996	1579036.	1982	609022.	1968	109585.
2009	3563259.	1995	1434918.	1981	585937.	1967	82906.
2008	3426393.	1994	1328765.	1980	563232.	1966	71670.
2007	3266812.	1993	1230129.	1979	530988.	1965	60060.
2006	3135033.	1992	1132233.	1978	514522.	1964	52847.
2005	2998227.	1991	1039029.	1977	497554.	1963	23955.
2004	2864328.	1990	987047.	1976	479597.	1962	15541.
2003	2716950.	1989	924927.	1975	425095.	0	0.
2002	2574141.	1988	876320.	1974	391126.	0	0.
2001	2382042.	1987	834022.	1973	352583.	0	0.

DISP MEAN SSD IV REI  
 L1 22.9 YRS. 0.7944E+11 26 98.80

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4730384.	2000	2233706.	1986	787361.	1972	290430.
2013	4511058.	1999	2056347.	1985	744821.	1971	228578.
2012	4305134.	1998	1912734.	1984	710704.	1970	196204.
2011	4062286.	1997	1719587.	1983	666485.	1969	153744.
2010	3833771.	1996	1581570.	1982	628918.	1968	112222.
2009	3566174.	1995	1437990.	1981	606197.	1967	84863.
2008	3432908.	1994	1332668.	1980	583366.	1966	73020.
2007	3275913.	1993	1235100.	1979	550519.	1965	60881.
2006	3145638.	1992	1138509.	1978	532937.	1964	53241.
2005	3009307.	1991	1046789.	1977	514391.	1963	24105.
2004	2874987.	1990	996302.	1976	494523.	1962	15568.
2003	2726519.	1989	935690.	1975	438015.	0	0.
2002	2582193.	1988	888582.	1974	402003.	0	0.
2001	2388526.	1987	847760.	1973	361485.	0	0.

DISP MEAN SSD IV REI  
 L2 21.4 YRS. 0.1233E+12 33 99.94

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4728154.	2000	2230871.	1986	805433.	1972	296216.
2013	4514997.	1999	2051812.	1985	765064.	1971	233010.
2012	4314267.	1998	1907101.	1984	732445.	1970	199495.
2011	4075458.	1997	1713506.	1983	689000.	1969	156108.
2010	3849712.	1996	1575659.	1982	651493.	1968	113887.
2009	3583630.	1995	1432819.	1981	628159.	1967	86010.
2008	3450552.	1994	1328774.	1980	604146.	1966	73772.
2007	3292501.	1993	1232985.	1979	569710.	1965	61329.
2006	3160170.	1992	1138672.	1978	550265.	1964	53463.
2005	3021059.	1991	1049680.	1977	529677.	1963	24191.
2004	2883559.	1990	1002232.	1976	507694.	1962	15589.
2003	2731819.	1989	944827.	1975	449131.	0	0.
2002	2584366.	1988	900934.	1974	411185.	0	0.
2001	2387950.	1987	863144.	1973	368867.	0	0.

DISP MEAN SSD IV REI  
 L3 20.1 YRS. 0.1742E+12 39 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4706985.	2000	2211164.	1986	819107.	1972	299096.
2013	4501304.	1999	2031267.	1985	780643.	1971	235077.
2012	4306303.	1998	1886092.	1984	749008.	1970	200952.
2011	4071373.	1997	1692467.	1983	705752.	1969	157111.
2010	3847684.	1996	1555136.	1982	667809.	1968	114545.
2009	3581993.	1995	1413490.	1981	643594.	1967	86406.
2008	3447944.	1994	1311437.	1980	618410.	1966	73981.
2007	3287948.	1993	1218488.	1979	582609.	1965	61421.
2006	3153104.	1992	1127807.	1978	561663.	1964	53493.
2005	3011272.	1991	1043081.	1977	539502.	1963	24197.
2004	2871114.	1990	1000272.	1976	515926.	1962	15589.
2003	2716972.	1989	947544.	1975	455798.	0	0.
2002	2567492.	1988	908012.	1974	416389.	0	0.
2001	2369459.	1987	873951.	1973	372793.	0	0.

DISP MEAN SSD IV REI  
 L4 19.4 YRS. 0.2355E+12 46 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4725907.	2000	2198417.	1986	837346.	1972	300595.
2013	4524805.	1999	2016150.	1985	798880.	1971	236099.
2012	4331956.	1998	1869074.	1984	766477.	1970	201605.
2011	4097046.	1997	1674292.	1983	722080.	1969	157490.
2010	3871663.	1996	1536822.	1982	682941.	1968	114737.
2009	3602928.	1995	1396309.	1981	657571.	1967	86488.
2008	3464806.	1994	1296854.	1980	631126.	1966	74008.
2007	3300168.	1993	1207969.	1979	593789.	1965	61427.
2006	3160634.	1992	1122471.	1978	571021.	1964	53494.
2005	3014451.	1991	1043478.	1977	546925.	1963	24197.
2004	2870449.	1990	1006337.	1976	521546.	1962	15589.
2003	2712900.	1989	958579.	1975	459920.	0	0.
2002	2560304.	1988	922809.	1974	419364.	0	0.
2001	2359377.	1987	891117.	1973	374921.	0	0.

DISP MEAN SSD IV REI  
 L5 18.9 YRS. 0.2872E+12 51 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4716495.	2000	2187089.	1986	845956.	1972	301098.
2013	4521513.	1999	2002292.	1985	807960.	1971	236325.
2012	4332512.	1998	1852388.	1984	775063.	1970	201688.
2011	4099775.	1997	1654763.	1983	729958.	1969	157513.
2010	3875115.	1996	1514897.	1982	690422.	1968	114741.
2009	3605650.	1995	1373130.	1981	664889.	1967	86488.
2008	3465673.	1994	1274151.	1980	638139.	1966	74008.
2007	3298785.	1993	1187570.	1979	600110.	1965	61427.
2006	3157316.	1992	1105992.	1978	576337.	1964	53494.
2005	3009782.	1991	1032153.	1977	551155.	1963	24197.
2004	2864786.	1990	1000639.	1976	524763.	1962	15589.
2003	2706271.	1989	958073.	1975	462250.	0	0.
2002	2552520.	1988	926520.	1974	420931.	0	0.
2001	2350077.	1987	897912.	1973	375869.	0	0.

DISP MEAN SSD IV REI  
R1 22.5 YRS. 0.6972E+11 25 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4743235.	2000	2230869.	1986	796685.	1972	285097.
2013	4519850.	1999	2057517.	1985	751643.	1971	224100.
2012	4309841.	1998	1917780.	1984	714881.	1970	192515.
2011	4062840.	1997	1728072.	1983	667964.	1969	150802.
2010	3830062.	1996	1592851.	1982	627733.	1968	109888.
2009	3558090.	1995	1451465.	1981	602584.	1967	83006.
2008	3420887.	1994	1347731.	1980	577735.	1966	71603.
2007	3261059.	1993	1251230.	1979	543314.	1965	59904.
2006	3129157.	1992	1155121.	1978	524674.	1964	52692.
2005	2992543.	1991	1063244.	1977	505670.	1963	23869.
2004	2859237.	1990	1012103.	1976	485927.	1962	15499.
2003	2712939.	1989	950437.	1975	429920.	0	0.
2002	2571742.	1988	901861.	1974	394654.	0	0.
2001	2381755.	1987	859246.	1973	355135.	0	0.

DISP MEAN SSD IV REI  
R2 21.0 YRS. 0.1222E+12 33 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4754730.	2000	2216832.	1986	818499.	1972	292125.
2013	4535181.	1999	2042667.	1985	774769.	1971	229644.
2012	4327348.	1998	1903198.	1984	738784.	1970	196811.
2011	4081076.	1997	1714869.	1983	692155.	1969	154039.
2010	3847863.	1996	1582049.	1982	651784.	1968	112304.
2009	3574634.	1995	1443811.	1981	626047.	1967	84803.
2008	3435292.	1994	1343736.	1980	600170.	1966	72891.
2007	3272327.	1993	1251130.	1979	564378.	1965	60747.
2006	3136593.	1992	1159013.	1978	544065.	1964	53149.
2005	2995693.	1991	1071112.	1977	523100.	1963	24060.
2004	2857978.	1990	1023694.	1976	501178.	1962	15553.
2003	2707466.	1989	965332.	1975	442961.	0	0.
2002	2562521.	1988	919596.	1974	405566.	0	0.
2001	2369610.	1987	879272.	1973	363987.	0	0.

DISP MEAN SSD IV REI  
R3 19.9 YRS. 0.1898E+12 41 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4751896.	2000	2198059.	1986	833419.	1972	297299.
2013	4539559.	1999	2019633.	1985	791917.	1971	233660.
2012	4337315.	1998	1877375.	1984	757464.	1970	199866.
2011	4095153.	1997	1687990.	1983	711694.	1969	156300.
2010	3864709.	1996	1555885.	1982	671556.	1968	113954.
2009	3593009.	1995	1419952.	1981	645456.	1967	85992.
2008	3453808.	1994	1323495.	1980	618686.	1966	73711.
2007	3289474.	1993	1235424.	1979	581601.	1965	61264.
2006	3150949.	1992	1148390.	1978	559699.	1964	53419.
2005	3005928.	1991	1065763.	1977	536928.	1963	24169.
2004	2862983.	1990	1023440.	1976	513084.	1962	15583.
2003	2706487.	1989	969750.	1975	452979.	0	0.
2002	2555233.	1988	928145.	1974	413811.	0	0.
2001	2356229.	1987	891321.	1973	370588.	0	0.

DISP MEAN SSD IV REI  
R4 19.2 YRS. 0.2488E+12 47 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4732349.	2000	2185766.	1986	840028.	1972	299947.
2013	4528304.	1999	2001973.	1985	800682.	1971	235616.
2012	4332446.	1998	1854616.	1984	767977.	1970	201270.
2011	4094743.	1997	1661111.	1983	723551.	1969	157275.
2010	3866987.	1996	1526521.	1982	684189.	1968	114610.
2009	3596624.	1995	1390199.	1981	658157.	1967	86419.
2008	3457934.	1994	1295509.	1980	630780.	1966	73974.
2007	3293666.	1993	1211022.	1979	592623.	1965	61411.
2006	3154897.	1992	1128819.	1978	569402.	1964	53488.
2005	3009250.	1991	1051627.	1977	545243.	1963	24195.
2004	2865051.	1990	1014698.	1976	520035.	1962	15589.
2003	2706413.	1989	965910.	1975	458653.	0	0.
2002	2552029.	1988	928540.	1974	418330.	0	0.
2001	2348906.	1987	895197.	1973	374091.	0	0.

DISP MEAN SSD IV REI  
R5 18.7 YRS. 0.3053E+12 52 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4714147.	2000	2182359.	1986	847049.	1972	301072.
2013	4519901.	1999	1995574.	1985	808425.	1971	236316.
2012	4331327.	1998	1843400.	1984	775854.	1970	201686.
2011	4098130.	1997	1644014.	1983	731611.	1969	157513.
2010	3872213.	1996	1503641.	1982	692672.	1968	114741.
2009	3601380.	1995	1362647.	1981	667066.	1967	86488.
2008	3460755.	1994	1265542.	1980	639773.	1966	74008.
2007	3294147.	1993	1181795.	1979	601126.	1965	61427.
2006	3153420.	1992	1103362.	1978	576899.	1964	53494.
2005	3006634.	1991	1032097.	1977	551426.	1963	24197.
2004	2862273.	1990	1002270.	1976	524852.	1962	15589.
2003	2704130.	1989	960674.	1975	462231.	0	0.
2002	2550173.	1988	929342.	1974	420872.	0	0.
2001	2346849.	1987	900117.	1973	375820.	0	0.

DISP MEAN SSD IV REI  
O1 25.3 YRS. 0.4500E+11 20 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4754602.	2000	2229277.	1986	769119.	1972	277897.
2013	4530190.	1999	2054265.	1985	724056.	1971	218413.
2012	4319621.	1998	1912656.	1984	687623.	1970	188099.
2011	4072344.	1997	1720780.	1983	641331.	1969	147470.
2010	3839062.	1996	1583077.	1982	601950.	1968	107385.
2009	3566097.	1995	1439077.	1981	577918.	1967	81119.
2008	3427648.	1994	1332698.	1980	554472.	1966	70223.
2007	3266684.	1993	1233692.	1979	521663.	1965	58979.
2006	3133711.	1992	1135232.	1978	504828.	1964	52180.
2005	2996137.	1991	1041148.	1977	487856.	1963	23650.
2004	2861950.	1990	988103.	1976	470342.	1962	15435.
2003	2714789.	1989	924942.	1975	416580.	0	0.
2002	2572696.	1988	875265.	1974	383471.	0	0.
2001	2381584.	1987	831991.	1973	346057.	0	0.



DISP MEAN SSD IV REI  
 O2 28.3 YRS. 0.4897E+11 21 87.85

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4777125.	2000	2226483.	1986	767706.	1972	277738.
2013	4548904.	1999	2051350.	1985	722775.	1971	218291.
2012	4334819.	1998	1909701.	1984	686466.	1970	188007.
2011	4084218.	1997	1717850.	1983	640291.	1969	147402.
2010	3848037.	1996	1580218.	1982	601020.	1968	107336.
2009	3572570.	1995	1436323.	1981	577090.	1967	81083.
2008	3431992.	1994	1330073.	1980	553743.	1966	70199.
2007	3269249.	1993	1231214.	1979	521025.	1965	58964.
2006	3134814.	1992	1132907.	1978	504277.	1964	52172.
2005	2996064.	1991	1038981.	1977	487387.	1963	23647.
2004	2860954.	1990	986094.	1976	469950.	1962	15434.
2003	2713091.	1989	923090.	1975	416258.	0	0.
2002	2570485.	1988	873565.	1974	383211.	0	0.
2001	2379017.	1987	830438.	1973	345852.	0	0.

DISP MEAN SSD IV REI  
 O3 37.4 YRS. 0.5673E+11 22 75.77

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4798295.	2000	2220185.	1986	756464.	1972	275459.
2013	4566651.	1999	2044276.	1985	711881.	1971	216504.
2012	4349489.	1998	1901912.	1984	676004.	1970	186630.
2011	4096078.	1997	1709366.	1983	630327.	1969	146370.
2010	3857274.	1996	1571050.	1982	591602.	1968	106568.
2009	3579295.	1995	1426517.	1981	568276.	1967	80512.
2008	3436383.	1994	1319695.	1980	545594.	1966	69788.
2007	3271575.	1993	1220364.	1979	513581.	1965	58693.
2006	3135323.	1992	1121678.	1978	497571.	1964	52025.
2005	2995004.	1991	1027452.	1977	481461.	1963	23585.
2004	2858548.	1990	974379.	1976	464834.	1962	15416.
2003	2709528.	1989	911320.	1975	411929.	0	0.
2002	2565928.	1988	861859.	1974	379620.	0	0.
2001	2373558.	1987	818919.	1973	342961.	0	0.

DISP MEAN SSD IV REI  
 O4 48.1 YRS. 0.6089E+11 23 70.19

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4800534.	2000	2214995.	1986	750745.	1972	274173.
2013	4567525.	1999	2039112.	1985	706292.	1971	215492.
2012	4349189.	1998	1896759.	1984	670588.	1970	185847.
2011	4094754.	1997	1704186.	1983	625120.	1969	145781.
2010	3855039.	1996	1565794.	1982	586631.	1968	106128.
2009	3576221.	1995	1421157.	1981	563578.	1967	80184.
2008	3432578.	1994	1314217.	1980	541211.	1966	69551.
2007	3267207.	1993	1214775.	1979	509542.	1965	58537.
2006	3130538.	1992	1115985.	1978	493904.	1964	51940.
2005	2989944.	1991	1021658.	1977	478197.	1963	23549.
2004	2853335.	1990	968511.	1976	461999.	1962	15406.
2003	2704257.	1989	905424.	1975	409518.	0	0.
2002	2560669.	1988	855976.	1974	377610.	0	0.
2001	2368334.	1987	813099.	1973	341335.	0	0.

DISP MEAN SSD IV REI  
 S0.5 21.6 YRS. 0.9350E+11 29 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4727662.	2000	2229720.	1986	801297.	1972	291767.
2013	4508448.	1999	2054113.	1985	758176.	1971	229541.
2012	4302086.	1998	1912361.	1984	723201.	1970	196884.
2011	4058377.	1997	1721125.	1983	677916.	1969	154197.
2010	3828763.	1996	1585057.	1982	639165.	1968	112520.
2009	3560047.	1995	1443389.	1981	615209.	1967	85070.
2008	3425795.	1994	1339908.	1980	591152.	1966	73174.
2007	3267971.	1993	1244041.	1979	557151.	1965	60997.
2006	3137155.	1992	1148971.	1978	538525.	1964	53316.
2005	3000642.	1991	1058583.	1977	519038.	1963	24140.
2004	2866539.	1990	1009188.	1976	498319.	1962	15581.
2003	2718690.	1989	949358.	1975	441054.	0	0.
2002	2575341.	1988	902700.	1974	404398.	0	0.
2001	2382968.	1987	861965.	1973	363310.	0	0.

DISP MEAN SSD IV REI  
 S1.5 20.5 YRS. 0.1400E+12 35 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4723951.	2000	2214455.	1986	815745.	1972	296565.
2013	4510088.	1999	2037541.	1985	774491.	1971	233256.
2012	4307873.	1998	1895381.	1984	740841.	1970	199686.
2011	4067074.	1997	1704668.	1983	696330.	1969	156260.
2010	3839083.	1996	1569936.	1982	657793.	1968	114000.
2009	3570707.	1995	1430315.	1981	633503.	1967	86083.
2008	3435473.	1994	1329443.	1980	608624.	1966	73811.
2007	3275551.	1993	1236620.	1979	573401.	1965	61346.
2006	3141759.	1992	1144902.	1978	553231.	1964	53468.
2005	3001668.	1991	1058015.	1977	531989.	1963	24191.
2004	2863696.	1990	1012095.	1976	509428.	1962	15589.
2003	2712007.	1989	955606.	1975	450367.	0	0.
2002	2565148.	1988	912040.	1974	412018.	0	0.
2001	2369869.	1987	874059.	1973	369404.	0	0.

DISP MEAN SSD IV REI  
 S2.5 19.8 YRS. 0.1916E+12 41 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4725796.	2000	2201378.	1986	828278.	1972	299320.
2013	4518125.	1999	2021932.	1985	788801.	1971	235259.
2012	4320715.	1998	1878099.	1984	756209.	1970	201087.
2011	4083182.	1997	1686654.	1983	712062.	1969	157197.
2010	3856860.	1996	1552165.	1982	673267.	1968	114589.
2009	3588608.	1995	1413743.	1981	648204.	1967	86423.
2008	3452102.	1994	1314958.	1980	622163.	1966	73984.
2007	3289744.	1993	1224982.	1979	585515.	1965	61420.
2006	3152612.	1992	1136696.	1978	563782.	1964	53493.
2005	3008560.	1991	1053612.	1977	540949.	1963	24197.
2004	2866289.	1990	1011638.	1976	516857.	1962	15589.
2003	2710227.	1989	959010.	1975	456383.	0	0.
2002	2559162.	1988	919010.	1974	416773.	0	0.
2001	2360055.	1987	884117.	1973	373073.	0	0.

DISP MEAN SSD IV REI  
 L0.5 24.3 YRS. 0.6504E+11 24 96.36

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4748425.	2000	2234265.	1986	781014.	1972	286706.
2013	4526248.	1999	2057437.	1985	737578.	1971	225579.
2012	4317561.	1998	1914192.	1984	702634.	1970	193845.
2011	4071941.	1997	1721123.	1983	657681.	1969	151922.
2010	3840656.	1996	1582939.	1982	619529.	1968	110828.
2009	3570357.	1995	1438969.	1981	596447.	1967	83822.
2008	3434817.	1994	1333105.	1980	573520.	1966	72297.
2007	3276088.	1993	1234873.	1979	540840.	1965	60440.
2006	3144669.	1992	1137492.	1978	523713.	1964	53029.
2005	3007762.	1991	1044890.	1977	505888.	1963	24024.
2004	2873369.	1990	993519.	1976	486937.	1962	15553.
2003	2725218.	1989	932018.	1975	431412.	0	0.
2002	2581471.	1988	884023.	1974	396418.	0	0.
2001	2388443.	1987	842322.	1973	356896.	0	0.

DISP MEAN SSD IV REI  
 L1.5 22.1 YRS. 0.9920E+11 30 99.54

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4734923.	2000	2234006.	1986	797633.	1972	293193.
2013	4518159.	1999	2055831.	1985	755934.	1971	230684.
2012	4314276.	1998	1911707.	1984	722323.	1970	197763.
2011	4072893.	1997	1718376.	1983	678266.	1969	154862.
2010	3845230.	1996	1580487.	1982	640533.	1968	113010.
2009	3577915.	1995	1437319.	1981	617345.	1967	85407.
2008	3444336.	1994	1332675.	1980	593803.	1966	73377.
2007	3286488.	1993	1236028.	1979	560079.	1965	61095.
2006	3154937.	1992	1140584.	1978	541510.	1964	53347.
2005	3017047.	1991	1050208.	1977	521908.	1963	24146.
2004	2881033.	1990	1001181.	1976	500964.	1962	15578.
2003	2730876.	1989	942067.	1975	443421.	0	0.
2002	2584970.	1988	896413.	1974	406443.	0	0.
2001	2389934.	1987	856914.	1973	365033.	0	0.

DISP MEAN SSD IV REI  
 L2.5 20.6 YRS. 0.1469E+12 36 99.99

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4709807.	2000	2217617.	1986	811372.	1972	297499.
2013	4500535.	1999	2038424.	1985	771910.	1971	233936.
2012	4302810.	1998	1893763.	1984	739773.	1970	200151.
2011	4066107.	1997	1700452.	1983	696452.	1969	156561.
2010	3841604.	1996	1563178.	1982	658789.	1968	114184.
2009	3575994.	1995	1421261.	1981	635095.	1967	86189.
2008	3442769.	1994	1318531.	1980	610582.	1966	73866.
2007	3284136.	1993	1224456.	1979	575544.	1965	61371.
2006	3150973.	1992	1132203.	1978	555420.	1964	53477.
2005	3010937.	1991	1045521.	1977	534111.	1963	24193.
2004	2872532.	1990	1000492.	1976	511394.	1962	15589.
2003	2719992.	1989	945451.	1975	452111.	0	0.
2002	2571895.	1988	903708.	1974	413501.	0	0.
2001	2375002.	1987	867717.	1973	370611.	0	0.

DISP MEAN SSD IV REI  
 R1.5 21.7 YRS. 0.9314E+11 29 100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4746765.	2000	2223028.	1986	807741.	1972	288470.
2013	4524928.	1999	2049727.	1985	763240.	1971	226758.
2012	4315633.	1998	1910522.	1984	726765.	1970	194573.
2011	4068670.	1997	1721825.	1983	679907.	1969	152352.
2010	3835439.	1996	1588039.	1982	639537.	1968	111044.
2009	3562706.	1995	1448383.	1981	614045.	1967	83865.
2008	3424405.	1994	1346561.	1980	588650.	1966	72218.
2007	3263087.	1993	1252029.	1979	553528.	1965	60307.
2006	3129462.	1992	1157886.	1978	534052.	1964	52910.
2005	2991001.	1991	1067926.	1977	514083.	1963	23960.
2004	2855870.	1990	1018546.	1976	493275.	1962	15525.
2003	2707906.	1989	958414.	1975	436195.	0	0.
2002	2565317.	1988	911131.	1974	399899.	0	0.
2001	2374368.	1987	869532.	1973	359387.	0	0.

DISP	MEAN	SSD	IV	REI
R2.5	20.4 YRS.	0.1540E+12	37	100.00

SIMULATED BALANCES

YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES	YEAR	BALANCES
2014	4749856.	2000	2204545.	1986	825855.	1972	294612.
2013	4533989.	1999	2028672.	1985	783196.	1971	231575.
2012	4329020.	1998	1888269.	1984	747929.	1970	198280.
2011	4084865.	1997	1699875.	1983	701684.	1969	155127.
2010	3853069.	1996	1567844.	1982	661391.	1968	113098.
2009	3580583.	1995	1431134.	1981	635448.	1967	85376.
2008	3441245.	1994	1333167.	1980	609115.	1966	73286.
2007	3277499.	1993	1243041.	1979	572681.	1965	60997.
2006	3140255.	1992	1153596.	1978	551592.	1964	53279.
2005	2997193.	1991	1068395.	1977	529752.	1963	24113.
2004	2856813.	1990	1023544.	1976	506902.	1962	15567.
2003	2703342.	1989	967514.	1975	447776.	0	0.
2002	2555379.	1988	923827.	1974	409528.	0	0.
2001	2359670.	1987	885227.	1973	367159.	0	0.
S0	22.6 YRS.	0.7411E+11	25	40	100.00		
S0.5	21.6 YRS.	0.9350E+11	29	34	100.00		
L0	25.6 YRS.	0.5573E+11	22	45	93.12		
L0.5	24.3 YRS.	0.6504E+11	24	41	96.36		
R1	22.5 YRS.	0.6972E+11	25	40	100.00		
R1.5	21.7 YRS.	0.9314E+11	29	34	100.00		

SIMULATED PLANT RECORD ANALYSIS  
BOARD  
SIMULATED BALANCE METHOD

SURFACE TRANSPORTATION

September 2, 2015

CARRIERS - KY57 Cumberland Valley Rural Electric  
ACCOUNT - 371 Installations on Customers' Premises

ANALYSIS BAND = 1962 THRU 2014

INCREMENT = 1

CURVE	IV	CI	REI
S0 - 22.6	25	40	100.00
S0.5 - 21.6	29	34	100.00
S1 - 21.0	32	31	100.00
S1.5 - 20.5	35	28	100.00
S2 - 20.1	38	26	100.00
S2.5 - 19.8	41	24	100.00
S3 - 19.6	44	22	100.00
S4 - 19.1	50	20	100.00
S5 - 18.8	53	18	100.00
S6 - 18.5	55	18	100.00
SQ - 20.2	78	12	100.00
L0 - 25.6	22	45	93.12
L0.5 - 24.3	24	41	96.36
L1 - 22.9	26	38	98.80
L1.5 - 22.1	30	33	99.54
L2 - 21.4	33	30	99.94
L2.5 - 20.6	36	27	99.99
L3 - 20.1	39	25	100.00
L4 - 19.4	46	21	100.00
L5 - 18.9	51	19	100.00
R1 - 22.5	25	40	100.00
R1.5 - 21.7	29	34	100.00
R2 - 21.0	33	30	100.00
R2.5 - 20.4	37	27	100.00
R3 - 19.9	41	24	100.00
R4 - 19.2	47	21	100.00
R5 - 18.7	52	19	100.00
O1 - 25.3	20	50	100.00
O2 - 28.3	21	47	87.85
O3 - 37.4	22	45	75.77
O4 - 48.1	23	43	70.19

September 2, 2015

XXùù

(X) CURVE OVERLAP

95! XXXXù

(ù) S0 22.6

90! +XXX

(+) L0 25.6

85! ++XX

(\*) R1 22.5

80! +XX\*

75! +XX\*

70! +XX\*

65! +X\*

60! XX\*

55! XX\*

50! XX

45! ùXX+

40! ùX++

35! X +++

30! XX +++

25! Xù +++

20! \*Xù +++

15! \*Xù +++++

10! \*Xù ++++++

5! \*XXùù +

0!----!----!----!----!----!----!----!----!----!----!----!----!----!----!----!-

00+ 05+ 10+ 15+ 20+ 25+ 30+ 35+ 40+ 45+ 50+ 55+ 60+ 65+ 70+ 75+



# Cumberland Valley Electric

## Section 6

### Data Used for Input Into the Study

# Cumberland Valley Electric Company

Year	Account: Beginning Balance	362	Station Equipment	Ending Balance
		Additions	Retirements	
1945	0			0
1946	0			0
1947	0			0
1948	0			0
1949	0			0
1950	0			0
1951	0			0
1952	0			0
1953	0			0
1954	0			0
1955	0			0
1956	0			0
1957	0			0
1958	0			0
1959	0			0
1960	0			0
1961	0			0
1962	0			0
1963	0			0
1964	0			0
1965	0			0
1966	0			0
1967	0			0
1968	0			0
1969	0			0
1970	0			0
1971	0			0
1972	0			0
1973	0			0
1974	0			0
1975	0			0
1976	0			0
1977	0			0
1978	0			0
1979	0			0
1980	0			0
1981	0			0
1982	0			0
1983	0			0
1984	0			0
1985	0			0
1986	0			0
1987	0			0
1988	0			0
1989	0			0
1990	0			0
1991	0			0
1992	0			0

## Cumberland Valley Electric Company

Year	Account: Beginning Balance	362 Additions	Station Equipment Retirements	Ending Balance
1993	0			0
1994	0			0
1995	0			0
1996	0	6,996		6,996
1997	6,996	24,765		31,761
1998	31,761	29,989		61,750
1999	61,750	41,470		103,220
2000	103,220	20,434		123,654
2001	123,654	0	0	123,654
2002	123,654	5,104		128,758
2003	128,758	30,813		159,571
2004	159,571	56,137		215,708
2005	215,708	411,385		627,093
2006	627,093	54,810		681,903
2007	681,903	8,361		690,264
2008	690,264	11,106	1	701,369
2009	701,369	0	0	701,369
2010	701,369	41,843	33,561	709,651
2011	709,651	47,172	0	756,823
2012	756,823	0	0	756,823
2013	756,823	0	6,000	750,823
2014	750,823	19,591	12,000	758,414

## Cumberland Valley Electric Company

Year	Account:	364	Poles, Towers & Fixtures		Ending Balance
	Beginning Balance	Additions	Retirements		
1941	0				0
1942	0	91,163		0	91,163
1943	0				91,163
1944	91,163				91,163
1945	91,163				91,163
1946	91,163	14,459		0	105,622
1947	105,622	18,465		468	123,619
1948	123,619	78,711		232	202,098
1949	202,098	296,363		7,523	490,938
1950	490,938	24,755		632	515,061
1951	515,061	138,762		1,076	652,747
1952	652,747	194,349		1,843	845,253
1953	845,253	19,336		3,766	860,823
1954	860,823	50,403		4,000	907,226
1955	907,226	54,119		10,750	950,595
1956	950,595	48,798		7,717	991,676
1957	991,676	35,172		9,338	1,017,510
1958	1,017,510	87,213		19,404	1,085,319
1959	1,085,319	25,906		16,724	1,094,501
1960	1,094,501	77,708		36,377	1,135,832
1961	1,135,832	45,262		16,991	1,164,103
1962	1,164,103	65,600		25,935	1,203,768
1963	1,203,768	54,054		22,252	1,235,570
1964	1,235,570	62,794		10,707	1,287,657
1965	1,287,657	41,542		14,821	1,314,378
1966	1,314,378	163,950		44,058	1,434,270
1967	1,434,270	67,826		18,761	1,483,335
1968	1,483,335	130,987		54,018	1,560,304
1969	1,560,304	380,094		41,654	1,898,744
1970	1,898,744	130,453		40,435	1,988,762
1971	1,988,762	194,195		49,152	2,133,805
1972	2,133,805	159,017		53,357	2,239,465
1973	2,239,465	413,466		157,166	2,495,765
1974	2,495,765	453,041		309,505	2,639,301
1975	2,639,301	457,821		136,054	2,961,068
1976	2,961,068	586,854		242,627	3,305,295
1977	3,305,295	509,420		208,267	3,606,448
1978	3,606,448	665,705		171,031	4,101,122
1979	4,101,122	517,827		135,164	4,483,785
1980	4,483,785	470,159		238,612	4,715,332
1981	4,715,332	528,541		131,803	5,112,070
1982	5,112,070	488,439		192,089	5,408,420
1983	5,408,420	473,019		256,851	5,624,588
1984	5,624,588	543,601		161,978	6,006,211
1985	6,006,211	532,158		168,621	6,369,748
1986	6,369,748	604,724		200,793	6,773,679
1987	6,773,679	492,596		119,077	7,147,198
1988	7,147,198	511,924		152,941	7,506,181

## Cumberland Valley Electric Company

	Account:	364	Poles, Towers & Fixtures	
Year	Beginning Balance	Additions	Retirements	Ending Balance
1989	7,506,181	483,571	146,179	7,843,573
1990	7,843,573	591,793	158,289	8,277,077
1991	8,277,077	599,348	136,266	8,740,159
1992	8,740,159	459,839	95,202	9,104,796
1993	9,104,796	614,584	132,396	9,586,984
1994	9,586,984	628,948	122,464	10,093,468
1995	10,093,468	801,558	144,920	10,750,106
1996	10,750,106	988,164	143,699	11,594,571
1997	11,594,571	798,589	150,049	12,243,111
1998	12,243,111	820,181	147,725	12,915,567
1999	12,915,567	1,006,401	168,889	13,753,079
2000	13,753,079	886,647	145,898	14,493,828
2001	14,493,828	903,439	223,867	15,173,400
2002	15,173,400	1,177,931	149,643	16,201,688
2003	16,201,688	1,068,050	177,680	17,092,058
2004	17,092,058	1,080,208	205,717	17,966,549
2005	17,966,549	1,100,212	214,886	18,851,875
2006	18,851,875	1,394,347	193,075	20,053,147
2007	20,053,147	1,256,033	225,088	21,084,092
2008	21,084,092	1,300,629	268,842	22,115,879
2009	22,115,879	1,360,699	273,171	23,203,407
2010	23,203,407	1,386,320	284,332	24,305,395
2011	24,305,395	1,196,787	313,442	25,188,740
2012	25,188,740	1,487,505	300,225	26,376,020
2013	26,376,020	1,452,403	299,736	27,528,687
2014	27,528,687	1,532,932	358,121	28,703,498

## Cumberland Valley Electric Company

Account: 365 Overhead Conductors & Devices				
Year	Beginning Balance	Additions	Retirements	Ending Balance
1941	0			0
1942	0	84,882	0	84,882
1943	84,882			84,882
1944	84,882			84,882
1945	84,882			84,882
1946	84,882	11,559	0	96,441
1947	96,441	19,048	115	115,374
1948	115,374	71,298	168	186,504
1949	186,504	328,251	1,162	513,593
1950	513,593	130,333	768	643,158
1951	643,158	24,947	283	667,822
1952	667,822	179,929	875	846,876
1953	846,876	12,914	1,751	858,039
1954	858,039	42,106	1,328	898,817
1955	898,817	57,252	1,842	954,227
1956	954,227	52,681	3,863	1,003,045
1957	1,003,045	32,759	3,814	1,031,990
1958	1,031,990	93,261	6,039	1,119,212
1959	1,119,212	14,202	8,909	1,124,505
1960	1,124,505	59,396	9,336	1,174,565
1961	1,174,565	26,372	7,064	1,193,873
1962	1,193,873	30,056	12,692	1,211,237
1963	1,211,237	23,077	11,796	1,222,518
1964	1,222,518	33,712	3,212	1,253,018
1965	1,253,018	20,951	7,595	1,266,374
1966	1,266,374	182,032	20,891	1,427,515
1967	1,427,515	34,873	9,586	1,452,802
1968	1,452,802	145,125	31,979	1,565,948
1969	1,565,948	89,899	22,291	1,633,556
1970	1,633,556	51,569	31,290	1,653,835
1971	1,653,835	106,688	26,295	1,734,228
1972	1,734,228	69,405	31,260	1,772,373
1973	1,772,373	393,145	161,302	2,004,216
1974	2,004,216	385,711	307,693	2,082,234
1975	2,082,234	293,943	151,266	2,224,911
1976	2,224,911	442,204	171,754	2,495,361
1977	2,495,361	471,591	184,740	2,782,212
1978	2,782,212	609,396	123,459	3,268,149
1979	3,268,149	343,438	79,386	3,532,201
1980	3,532,201	1,032,767	121,934	4,443,034
1981	4,443,034	222,920	40,834	4,625,120
1982	4,625,120	154,763	38,420	4,741,463
1983	4,741,463	250,678	50,314	4,941,827
1984	4,941,827	417,000	79,156	5,279,671
1985	5,279,671	521,674	94,009	5,707,336
1986	5,707,336	474,303	78,958	6,102,681
1987	6,102,681	476,123	95,560	6,483,244
1988	6,483,244	802,802	194,843	7,091,203

## Cumberland Valley Electric Company

Account:		365	Overhead Conductors & Devices	
Year	Beginning Balance	Additions	Retirements	Ending Balance
1989	7,091,203	871,190	176,542	7,785,851
1990	7,785,851	935,871	179,941	8,541,781
1991	8,541,781	467,969	77,960	8,931,790
1992	8,931,790	416,323	39,684	9,308,429
1993	9,308,429	548,366	43,532	9,813,263
1994	9,813,263	717,116	98,980	10,431,399
1995	10,431,399	660,171	89,576	11,001,994
1996	11,001,994	775,216	83,243	11,693,967
1997	11,693,967	601,977	81,880	12,214,064
1998	12,214,064	517,979	71,958	12,660,085
1999	12,660,085	948,150	105,027	13,503,208
2000	13,503,208	593,213	52,694	14,043,727
2001	14,043,727	551,443	72,210	14,522,960
2002	14,522,960	931,512	81,200	15,373,272
2003	15,373,272	800,966	82,189	16,092,049
2004	16,092,049	1,051,191	122,956	17,020,284
2005	17,020,284	1,088,308	155,350	17,953,242
2006	17,953,242	1,383,980	126,074	19,211,148
2007	19,211,148	1,237,683	151,911	20,296,920
2008	20,296,920	1,119,635	190,931	21,225,624
2009	21,225,624	1,411,028	222,729	22,413,923
2010	22,413,923	1,225,758	255,681	23,384,000
2011	23,384,000	1,341,324	267,077	24,458,247
2012	24,458,247	1,496,669	390,661	25,564,255
2013	25,564,255	1,866,170	873,094	26,557,331
2014	26,557,331	1,058,031	402,775	27,212,587

## Cumberland Valley Electric Company

Year	Account:	367		Underground Conductors & Devi
	Beginning Balance	Additions	Retirements	Ending Balance
1941	0			0
1942	0			0
1943	0			0
1944	0			0
1945	0			0
1946	0			0
1947	0			0
1948	0			0
1949	0			0
1950	0			0
1951	0			0
1952	0			0
1953	0			0
1954	0			0
1955	0			0
1956	0			0
1957	0			0
1958	0			0
1959	0			0
1960	0			0
1961	0			0
1962	0			0
1963	0			0
1964	0			0
1965	0			0
1966	0			0
1967	0			0
1968	0	1,410	0	1,410
1969	1,410	0	0	1,410
1970	1,410	6,930	0	8,340
1971	8,340	1,879	0	10,219
1972	10,219	2,638	0	12,857
1973	12,857	6,176	0	19,033
1974	19,033	2,631	418	21,246
1975	21,246	264	0	21,510
1976	21,510	170	0	21,680
1977	21,680	212	0	21,892
1978	21,892	1,830	117	23,605
1979	23,605	2,370	299	25,676
1980	25,676	1,263	0	26,939
1981	26,939	2,482	0	29,421
1982	29,421	9,464	130	38,755
1983	38,755	6,224	349	44,630
1984	44,630	6,738	4,674	46,694
1985	46,694	7,809	1,172	53,331
1986	53,331	11,706	0	65,037
1987	65,037	31,994	201	96,830
1988	96,830	40,628	670	136,788



## Cumberland Valley Electric Company

Year	Account:	367	Underground Conductors & Devi	
	Beginning Balance	Additions	Retirements	Ending Balance
1989	136,788	37,742	128	174,402
1990	174,402	20,031	5,405	189,028
1991	189,028	26,880	2,070	213,838
1992	213,838	35,427	2,916	246,349
1993	246,349	32,508	1,190	277,667
1994	277,667	35,439	907	312,199
1995	312,199	72,379	1,716	382,862
1996	382,862	70,048	2,152	450,758
1997	450,758	81,658	671	531,745
1998	531,745	117,901	1,753	647,893
1999	647,893	178,847	4,050	822,690
2000	822,690	199,360	1,239	1,020,811
2001	1,020,811	190,113	7,524	1,203,400
2002	1,203,400	209,008	8,643	1,403,765
2003	1,403,765	216,029	6,140	1,613,654
2004	1,613,654	219,553	8,748	1,824,459
2005	1,824,459	156,074	13,159	1,967,374
2006	1,967,374	258,285	9,871	2,215,788
2007	2,215,788	209,581	5,041	2,420,328
2008	2,420,328	219,007	9,772	2,629,563
2009	2,629,563	159,409	7,930	2,781,042
2010	2,781,042	168,732	7,860	2,941,914
2011	2,941,914	164,407	8,488	3,097,833
2012	3,097,833	161,334	0	3,259,167
2013	3,259,167	448,215	70,813	3,636,569
2014	3,636,569	178,820	78,993	3,736,396

## Cumberland Valley Electric Company

Account: 368		Line Transformers		
Year	Beginning Balance	Additions	Retirements	Ending Balance
1941	0	820	0	820
1942	820	46,803	0	47,623
1943	47,623	890	0	48,513
1944	48,513	1,107	0	49,620
1945	49,620	3,001	0	52,621
1946	52,621	15,705	0	68,326
1947	68,326	47,286	0	115,612
1948	115,612	105,226	130	220,708
1949	220,708	81,692	260	302,140
1950	302,140	60,715	156	362,699
1951	362,699	36,945	461	399,183
1952	399,183	87,398	0	486,581
1953	486,581	22,636	190	509,027
1954	509,027	27,723	24	536,726
1955	536,726	45,707	3,270	579,163
1956	579,163	39,865	0	619,028
1957	619,028	55,153	6,881	667,300
1958	667,300	65,306	11,232	721,374
1959	721,374	70,060	9,192	782,242
1960	782,242	75,536	6,109	851,669
1961	851,669	49,188	7,762	893,095
1962	893,095	54,974	6,453	941,616
1963	941,616	41,926	2,653	980,889
1964	980,889	33,723	7,856	1,006,756
1965	1,006,756	43,270	13,752	1,036,274
1966	1,036,274	81,605	2,114	1,115,765
1967	1,115,765	41,185	7,528	1,149,422
1968	1,149,422	86,529	19,938	1,216,013
1969	1,216,013	63,924	18,890	1,261,047
1970	1,261,047	95,075	15,740	1,340,382
1971	1,340,382	106,357	24,129	1,422,610
1972	1,422,610	163,775	27,521	1,558,864
1973	1,558,864	245,156	18,913	1,785,107
1974	1,785,107	226,238	35,046	1,976,299
1975	1,976,299	235,583	91,101	2,120,781
1976	2,120,781	301,647	156,166	2,266,262
1977	2,266,262	417,800	36,213	2,647,849
1978	2,647,849	287,679	141,768	2,793,760
1979	2,793,760	301,667	55,361	3,040,066
1980	3,040,066	528,429	23,507	3,544,988
1981	3,544,988	293,387	112,160	3,726,215
1982	3,726,215	142,426	57,930	3,810,711
1983	3,810,711	179,581	147,141	3,843,151
1984	3,843,151	341,552	154,517	4,030,186
1985	4,030,186	251,415	64,536	4,217,065
1986	4,217,065	313,350	71,922	4,458,493
1987	4,458,493	310,776	81,983	4,687,286
1988	4,687,286	195,594	43,061	4,839,819

## Cumberland Valley Electric Company

Account: 368		Line Transformers		
Year	Beginning Balance	Additions	Retirements	Ending Balance
1989	4,839,819	205,496	36,002	5,009,313
1990	5,009,313	116,417	33,523	5,092,207
1991	5,092,207	139,079	36,762	5,194,524
1992	5,194,524	191,530	32,488	5,353,566
1993	5,353,566	239,521	28,514	5,564,573
1994	5,564,573	260,252	15,236	5,809,589
1995	5,809,589	279,663	34,419	6,054,833
1996	6,054,833	295,075	51,178	6,298,730
1997	6,298,730	284,829	15,026	6,568,533
1998	6,568,533	315,194	18,953	6,864,774
1999	6,864,774	224,389	0	7,089,163
2000	7,089,163	285,006	0	7,374,169
2001	7,374,169	245,572	95,876	7,523,865
2002	7,523,865	302,452	17,749	7,808,568
2003	7,808,568	225,043		8,033,611
2004	8,033,611	245,058	131,485	8,147,184
2005	8,147,184	221,032	71,508	8,296,708
2006	8,296,708	288,198	58,125	8,526,781
2007	8,526,781	371,439	74,987	8,823,233
2008	8,823,233	412,540	51,238	9,184,535
2009	9,184,535	302,102	129,456	9,357,181
2010	9,357,181	295,989	95,938	9,557,232
2011	9,557,232	136,071	91,510	9,601,793
2012	9,601,793	335,785	105,635	9,831,943
2013	9,831,943	275,026	34,898	10,072,071
2014	10,072,071	209,151	77,867	10,203,355

## Cumberland Valley Electric Company

Year	Account:	369		Service (Pole-to-House)	Ending Balance
	Beginning Balance	Additions	Retirements		
1941	0				0
1942	0	17,811	0		17,811
1943	17,811	254	0		18,065
1944	18,065	3	0		18,068
1945	18,068	0	0		18,068
1946	18,068	7,967	0		26,035
1947	26,035	5,534	6		31,563
1948	31,563	15,977	69		47,471
1949	47,471	38,234	67		85,638
1950	85,638	18,975	59		104,554
1951	104,554	11,637	433		115,758
1952	115,758	41,808	1,048		156,518
1953	156,518	14,221	1,794		168,945
1954	168,945	17,345	1,153		185,137
1955	185,137	9,568	1,639		193,066
1956	193,066	15,108	3,913		204,261
1957	204,261	11,112	3,657		211,716
1958	211,716	16,083	6,885		220,914
1959	220,914	5,208	5,949		220,173
1960	220,173	17,997	5,826		232,344
1961	232,344	15,036	6,011		241,369
1962	241,369	20,970	8,974		253,365
1963	253,365	14,760	7,857		260,268
1964	260,268	24,229	4,075		280,422
1965	280,422	12,509	4,262		288,669
1966	288,669	30,817	7,020		312,466
1967	312,466	25,318	6,314		331,470
1968	331,470	28,451	8,053		351,868
1969	351,868	32,427	8,957		375,338
1970	375,338	58,323	11,044		422,617
1971	422,617	62,728	11,035		474,310
1972	474,310	55,624	17,822		512,112
1973	512,112	75,901	23,694		564,319
1974	564,319	109,352	33,196		640,475
1975	640,475	131,772	23,390		748,857
1976	748,857	130,756	30,592		849,021
1977	849,021	151,251	43,402		956,870
1978	956,870	190,706	31,057		1,116,519
1979	1,116,519	138,912	28,704		1,226,727
1980	1,226,727	178,615	42,936		1,362,406
1981	1,362,406	158,401	39,767		1,481,040
1982	1,481,040	147,913	48,103		1,580,850
1983	1,580,850	158,066	56,123		1,682,793
1984	1,682,793	195,344	55,504		1,822,633
1985	1,822,633	174,136	54,595		1,942,174
1986	1,942,174	184,266	51,854		2,074,586
1987	2,074,586	189,118	53,966		2,209,738
1988	2,209,738	199,546	67,832		2,341,452

## Cumberland Valley Electric Company

	Account:	369	Service (Pole-to-House)	
Year	Beginning Balance	Additions	Retirements	Ending Balance
1989	2,341,452	190,032	61,121	2,470,363
1990	2,470,363	210,496	66,543	2,614,316
1991	2,614,316	239,474	63,833	2,789,957
1992	2,789,957	247,041	58,697	2,978,301
1993	2,978,301	251,249	63,528	3,166,022
1994	3,166,022	287,784	73,889	3,379,917
1995	3,379,917	362,345	68,523	3,673,739
1996	3,673,739	362,789	71,169	3,965,359
1997	3,965,359	307,313	85,068	4,187,604
1998	4,187,604	305,455	70,650	4,422,409
1999	4,422,409	277,390	93,213	4,606,586
2000	4,606,586	301,627	79,811	4,828,402
2001	4,828,402	294,614	98,653	5,024,363
2002	5,024,363	285,262	73,931	5,235,694
2003	5,235,694	308,328	87,123	5,456,899
2004	5,456,899	289,702	97,643	5,648,958
2005	5,648,958	291,624	84,951	5,855,631
2006	5,855,631	329,139	87,834	6,096,936
2007	6,096,936	357,744	94,176	6,360,504
2008	6,360,504	386,766	101,813	6,645,457
2009	6,645,457	317,003	82,624	6,879,836
2010	6,879,836	397,903	117,195	7,160,544
2011	7,160,544	391,450	186,222	7,365,772
2012	7,365,772	436,535	100,786	7,701,521
2013	7,701,521	409,186	100,393	8,010,314
2014	8,010,314	399,847	155,929	8,254,232

## Cumberland Valley Electric Company

Year	Account: Beginning Balance	370 Additions	Meters Retirements	Ending Balance
1941	0			0
1942	0	16,624	0	16,624
1943	16,624	0	0	16,624
1944	16,624	612	0	17,236
1945	17,236	4,915	0	22,151
1946	22,151	18,033	0	40,184
1947	40,184	9,327	215	49,296
1948	49,296	14,350	0	63,646
1949	63,646	30,353	0	93,999
1950	93,999	9,133	21	103,111
1951	103,111	14,810	25	117,896
1952	117,896	8,587	0	126,483
1953	126,483	5,115	136	131,462
1954	131,462	8,601	0	140,063
1955	140,063	9,547	5,061	144,549
1956	144,549	10,425	1,012	153,962
1957	153,962	15,649	975	168,636
1958	168,636	6,517	2,093	173,060
1959	173,060	9,765	0	182,825
1960	182,825	10,248	0	193,073
1961	193,073	9,292	7	202,358
1962	202,358	8,260	1,119	209,499
1963	209,499	4,434	528	213,405
1964	213,405	13,744	5,100	222,049
1965	222,049	10,219	3,431	228,837
1966	228,837	13,965	344	242,458
1967	242,458	7,399	225	249,632
1968	249,632	18,685	6,538	261,779
1969	261,779	11,086	3,233	269,632
1970	269,632	9,532	822	278,342
1971	278,342	24,836	9,152	294,026
1972	294,026	27,975	11,302	310,699
1973	310,699	39,805	560	349,944
1974	349,944	20,913	560	370,297
1975	370,297	38,899	1,073	408,123
1976	408,123	48,170	1,833	454,460
1977	454,460	84,043	0	538,503
1978	538,503	94,013	21,767	610,749
1979	610,749	56,442	0	667,191
1980	667,191	27,350	0	694,541
1981	694,541	70,899	30,554	734,886
1982	734,886	60,056	19,344	775,598
1983	775,598	38,185	17,079	796,704
1984	796,704	82,207	15,205	863,706
1985	863,706	48,200	11,451	900,455
1986	900,455	46,178	404	946,229
1987	946,229	60,097	24,120	982,206
1988	982,206	47,597	26,130	1,003,673

## Cumberland Valley Electric Company

Year	Account: Beginning Balance	370 Additions	Meters Retirements	Ending Balance
1989	1,003,673	69,893	20,361	1,053,205
1990	1,053,205	40,213	18,776	1,074,642
1991	1,074,642	23,725	9,951	1,088,416
1992	1,088,416	47,614	6,750	1,129,280
1993	1,129,280	26,324	6,497	1,149,107
1994	1,149,107	53,199	0	1,202,306
1995	1,202,306	91,444	11,086	1,282,664
1996	1,282,664	44,422	5,430	1,321,656
1997	1,321,656	60,713	0	1,382,369
1998	1,382,369	94,326		1,476,695
1999	1,476,695	139,698	61,738	1,554,655
2000	1,554,655	147,017	51,684	1,649,988
2001	1,649,988	29,870	62,721	1,617,137
2002	1,617,137	84,855	89,385	1,612,607
2003	1,612,607	65,534	0	1,678,141
2004	1,678,141	96,309	6,221	1,768,229
2005	1,768,229	41,437	6,594	1,803,072
2006	1,803,072	73,161	1,796	1,874,437
2007	1,874,437	36,427	15,721	1,895,143
2008	1,895,143	116,588	42,704	1,969,027
2009	1,969,027	75,467	18,560	2,025,934
2010	2,025,934	22,663	16,897	2,031,700
2011	2,031,700	224,835	28,797	2,227,738
2012	2,227,738	196,405	113,888	2,310,255
2013	2,310,255	2,593	100,962	2,211,886
2014	2,211,886	54,093	671,263	1,594,716

## Cumberland Valley Electric Company

Year	Account: Beginning Balance	371 Additions	Installations on Customers' Prem Retirements	Ending Balance
1941	0			0
1942	0			0
1943	0			0
1944	0			0
1945	0			0
1946	0			0
1947	0			0
1948	0			0
1949	0			0
1950	0			0
1951	0			0
1952	0			0
1953	0			0
1954	0			0
1955	0			0
1956	0			0
1957	0			0
1958	0			0
1959	0			0
1960	0			0
1961	0			0
1962	0	15,589	4,912	10,677
1963	10,677	8,608	744	18,541
1964	18,541	29,297	3,135	44,703
1965	44,703	7,933	2,270	50,366
1966	50,366	12,581	2,387	60,560
1967	60,560	12,480	4,656	68,384
1968	68,384	28,253	3,939	92,698
1969	92,698	42,772	3,470	132,000
1970	132,000	44,175	3,650	172,525
1971	172,525	34,638	7,094	200,069
1972	200,069	64,789	8,373	256,485
1973	256,485	74,844	9,375	321,954
1974	321,954	45,283	17,255	349,982
1975	349,982	41,839	8,618	383,203
1976	383,203	63,532	9,404	437,331
1977	437,331	28,189	12,836	452,684
1978	452,684	28,203	13,615	467,272
1979	467,272	28,628	13,063	482,837
1980	482,837	45,332	13,026	515,143
1981	515,143	36,779	12,539	539,383
1982	539,383	38,105	10,512	566,976
1983	566,976	54,366	15,627	605,715
1984	605,715	62,431	11,991	656,155
1985	656,155	53,718	14,607	695,266
1986	695,266	63,505	12,624	746,147
1987	746,147	82,758	12,042	816,863
1988	816,863	64,615	15,743	865,735



## Cumberland Valley Electric Company

Year	Account: Beginning Balance	371 Additions	Installations on Customers' Prem Retirements	Ending Balance
1989	865,735	72,370	10,844	927,261
1990	927,261	87,431	17,604	997,088
1991	997,088	78,958	18,530	1,057,516
1992	1,057,516	121,980	20,162	1,159,334
1993	1,159,334	128,833	30,379	1,257,788
1994	1,257,788	131,952	26,019	1,363,721
1995	1,363,721	142,030	22,050	1,483,701
1996	1,483,701	182,859	29,998	1,636,562
1997	1,636,562	180,144	33,504	1,783,202
1998	1,783,202	238,450	46,755	1,974,897
1999	1,974,897	192,437	63,748	2,103,586
2000	2,103,586	230,009	92,156	2,241,439
2001	2,241,439	211,664	67,427	2,385,676
2002	2,385,676	255,077	57,802	2,582,951
2003	2,582,951	210,655	73,452	2,720,154
2004	2,720,154	219,974	78,810	2,861,318
2005	2,861,318	211,257	60,661	3,011,914
2006	3,011,914	218,890	88,158	3,142,646
2007	3,142,646	218,608	69,823	3,291,431
2008	3,291,431	251,237	137,707	3,404,961
2009	3,404,961	233,507	68,615	3,569,853
2010	3,569,853	374,020	101,171	3,842,702
2011	3,842,702	341,400	180,863	4,003,239
2012	4,003,239	362,341	84,945	4,280,635
2013	4,280,635	332,228	77,400	4,535,463
2014	4,535,463	352,642	99,114	4,788,991