Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResAvgUse**
Dependent Variable:	**mSales.ResAvgUse**
Date:	**December 03, 2020**
Time:	**03:13 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructResRev.XHeat	1.783	0.037	48.458	0%
mStructResRev.XCool	0.556	0.020	27.238	0%
mStructResRev.XOther	0.998	0.023	43.517	0%
mBin.Yr2014Plus	-57.434	13.877	-4.139	0%
mBin.Yr2018Plus	-42.546	15.596	-2.728	1%
mBin.Jul15	737.211	68.648	10.739	0%
mBin.Apr16	-437.823	68.258	-6.414	0%

Model Statistics	
Iterations	1
Adjusted Observations	128
Deg. of Freedom for Error	121
R-Squared	0.963
Adjusted R-Squared	0.962
AIC	8.467
BIC	8.623
F-Statistic	456.236
Prob (F-Statistic)	0.000
Log-Likelihood	-716.49
Model Sum of Squares	14395713
Sum of Squared Errors	545420
Mean Squared Error	4507.60
Std. Error of Regression	67.14
Mean Abs. Dev. (MAD)	49.77
Mean Abs. % Err. (MAPE)	4.18%
Durbin-Watson Statistic	1.891
Durbin-H Statistic	0.000
Ljung-Box Statistic	46.03
Prob (Ljung-Box)	0.004
Skewness	-0.124
Kurtosis	3.865
Jarque-Bera	4.316
Prob (Jarque-Bera)	0.116

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructResRev.XHeat	1.783	207.363	0.306
mStructResRev.XCool	0.556	316.203	0.146
mStructResRev.XOther	0.998	707.876	0.585
mBin.Yr2014Plus	-57.434	0.625	-0.030
mBin.Yr2018Plus	-42.546	0.250	-0.009
mBin.Jul15	737.211	0.008	0.005
mBin.Apr16	-437.823	0.008	-0.003

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComSales**
Dependent Variable:	**mSales.ComSales**
Date:	**December 03, 2020**
Time:	**03:13 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mStructComRev.XHeat	9185.427	790.292	11.623	0%
mStructComRev.XCool	1947.490	197.811	9.845	0%
mStructComRev.XOther	329.316	6.613	49.798	0%
mBin.Yr2013	210.114	93.316	2.252	3%
mBin.Yr2016Plus	-152.362	61.511	-2.477	1%
mBin.Yr2019Plus	-596.295	82.045	-7.268	0%
mBin.JanJun11	931.191	125.512	7.419	0%
mBin.JulDec11	-782.533	126.300	-6.196	0%
MA(1)	0.220	0.090	2.437	2%

Model Statistics	
Iterations	13
Adjusted Observations	128
Deg. of Freedom for Error	119
R-Squared	0.925
Adjusted R-Squared	0.920
AIC	11.062
BIC	11.263
F-Statistic	162.525
Prob (F-Statistic)	0.000
Log-Likelihood	-880.62
Model Sum of Squares	87111258
Sum of Squared Errors	7086937
Mean Squared Error	59554.09
Std. Error of Regression	244.04
Mean Abs. Dev. (MAD)	178.76
Mean Abs. % Err. (MAPE)	4.21%
Durbin-Watson Statistic	1.887
Durbin-H Statistic	0.000
Ljung-Box Statistic	57.30
Prob (Ljung-Box)	0.000
Skewness	0.400
Kurtosis	3.739
Jarque-Bera	6.323
Prob (Jarque-Bera)	0.042

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mStructComRev.XHeat	9185.427	0.043	0.090
mStructComRev.XCool	1947.490	0.167	0.075
mStructComRev.XOther	329.316	11.425	0.865
mBin.Yr2013	210.114	0.094	0.005
mBin.Yr2016Plus	-152.362	0.438	-0.015
mBin.Yr2019Plus	-596.295	0.156	-0.021
mBin.JanJun11	931.191	0.047	0.010
mBin.JulDec11	-782.533	0.047	-0.008

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**IndSales**
Dependent Variable:	**mSales.IndSales**
Date:	**December 03, 2020**
Time:	**03:13 PM**
Estimation Begin Date:	**2012:2**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mEcon.NManEmp	-147.889	25.690	-5.757	0%
mBin.Jan	1880.516	243.873	7.711	0%
mBin.Feb	1862.372	247.243	7.533	0%
mBin.Mar	1882.176	244.787	7.689	0%
mBin.Apr	1880.277	244.232	7.699	0%
mBin.May	2001.126	243.676	8.212	0%
mBin.Jun	2017.398	244.429	8.254	0%
mBin.Jul	2067.507	242.565	8.524	0%
mBin.Aug	2054.779	242.140	8.486	0%
mBin.Sep	1946.110	246.142	7.906	0%
mBin.Oct	1909.878	245.575	7.777	0%
mBin.Nov	1857.190	245.007	7.580	0%
mBin.Dec	1880.369	244.440	7.693	0%
mBin.Feb19Feb20	733.051	41.137	17.820	0%
mBin.Jun17	-232.176	134.544	-1.726	9%

Model Statistics	
Iterations	1
Adjusted Observations	103
Deg. of Freedom for Error	88
R-Squared	0.862
Adjusted R-Squared	0.840
AIC	9.815
BIC	10.199
F-Statistic	36.738
Prob (F-Statistic)	-0.000
Log-Likelihood	-636.64
Model Sum of Squares	8827061
Sum of Squared Errors	1409601
Mean Squared Error	16018.20
Std. Error of Regression	126.56
Mean Abs. Dev. (MAD)	78.78
Mean Abs. % Err. (MAPE)	12.45%
Durbin-Watson Statistic	0.448
Durbin-H Statistic	0.000
Ljung-Box Statistic	120.19
Prob (Ljung-Box)	0.000
Skewness	1.898
Kurtosis	8.751
Jarque-Bera	203.757
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mEcon.NManEmp	-147.889	9.280	-2.091
mBin.Jan	1880.516	0.078	0.222
mBin.Feb	1862.372	0.087	0.248
mBin.Mar	1882.176	0.087	0.251
mBin.Apr	1880.277	0.087	0.250
mBin.May	2001.126	0.087	0.266

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Variable	Coefficient	Mean	Elast
mBin.Jun	2017.398	0.087	0.269
mBin.Jul	2067.507	0.087	0.275
mBin.Aug	2054.779	0.087	0.273
mBin.Sep	1946.110	0.078	0.230
mBin.Oct	1909.878	0.078	0.226
mBin.Nov	1857.190	0.078	0.220
mBin.Dec	1880.369	0.078	0.222
mBin.Feb19Feb20	733.051	0.126	0.141
mBin.Jun17	-232.176	0.010	-0.003

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResCusts**
Dependent Variable:	**mSales.ResCusts**
Date:	**December 03, 2020**
Time:	**03:13 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
CONST	6387.107	127.910	49.935	0%
Econ.HH	381.042	8.767	43.463	0%

Model Statistics	
Iterations	1
Adjusted Observations	128
Deg. of Freedom for Error	126
R-Squared	0.937
Adjusted R-Squared	0.937
AIC	7.295
BIC	7.339
F-Statistic	1889.000
Prob (F-Statistic)	0.000
Log-Likelihood	-646.48
Model Sum of Squares	2738675
Sum of Squared Errors	182675
Mean Squared Error	1449.80
Std. Error of Regression	38.08
Mean Abs. Dev. (MAD)	27.87
Mean Abs. % Err. (MAPE)	0.23%
Durbin-Watson Statistic	1.304
Durbin-H Statistic	0.371
Ljung-Box Statistic	49.91
Prob (Ljung-Box)	0.001
Skewness	1.273
Kurtosis	9.788
Jarque-Bera	280.335
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
Econ.HH	381.042	14.585	0.465

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComCusts**
Dependent Variable:	**mSales.ComCusts**
Date:	**December 03, 2020**
Time:	**03:13 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
ResCusts.Filled	0.091	0.000	296.592	0%
AR(1)	0.822	0.053	15.633	0%

Model Statistics	
Iterations	6
Adjusted Observations	127
Deg. of Freedom for Error	125
R-Squared	0.894
Adjusted R-Squared	0.893
AIC	3.966
BIC	4.011
F-Statistic	525.679
Prob (F-Statistic)	0.000
Log-Likelihood	-430.07
Model Sum of Squares	54642
Sum of Squared Errors	6497
Mean Squared Error	51.97
Std. Error of Regression	7.21
Mean Abs. Dev. (MAD)	5.65
Mean Abs. % Err. (MAPE)	0.52%
Durbin-Watson Statistic	2.325
Durbin-H Statistic	0.000
Ljung-Box Statistic	27.47
Prob (Ljung-Box)	0.283
Skewness	-0.097
Kurtosis	3.030
Jarque-Bera	0.205
Prob (Jarque-Bera)	0.903

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
ResCusts.Filled	0.091	11944.469	0.998

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**Peaks**
Dependent Variable:	**mLoad.Peak**
Date:	**December 03, 2020**
Time:	**03:13 PM**
Estimation Begin Date:	**2012:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mPeakVars.HeatingVar	0.591	0.039	15.325	0%
mPeakVars.CoolingVar	0.885	0.105	8.420	0%
mPeakVars.BaseVar	0.260	0.006	42.140	0%
mBin.Yr2016Plus	-2.515	0.676	-3.719	0%
mBin.Yr2019	-2.532	1.020	-2.483	1%
mBin.Mar	6.572	1.239	5.306	0%
mBin.May	-3.478	1.200	-2.898	0%
mBin.Oct	-4.484	1.266	-3.541	0%
mBin.Oct12	-7.585	3.303	-2.297	2%
mBin.Jan14	12.244	3.228	3.793	0%
mBin.Dec14	-8.730	3.114	-2.803	1%
mBin.Feb15	18.112	3.237	5.595	0%
mBin.Mar16	-10.852	3.288	-3.301	0%

Model Statistics	
Iterations	1
Adjusted Observations	98
Deg. of Freedom for Error	85
R-Squared	0.930
Adjusted R-Squared	0.920
AIC	2.350
BIC	2.693
F-Statistic	87.087
Prob (F-Statistic)	0.000
Log-Likelihood	-241.20
Model Sum of Squares	10496
Sum of Squared Errors	788
Mean Squared Error	9.27
Std. Error of Regression	3.04
Mean Abs. Dev. (MAD)	2.03
Mean Abs. % Err. (MAPE)	4.00%
Durbin-Watson Statistic	1.834
Durbin-H Statistic	0.000
Ljung-Box Statistic	19.73
Prob (Ljung-Box)	0.712
Skewness	0.244
Kurtosis	4.291
Jarque-Bera	7.779
Prob (Jarque-Bera)	0.020

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mPeakVars.HeatingVar	0.591	13.459	0.163
mPeakVars.CoolingVar	0.885	3.500	0.063
mPeakVars.BaseVar	0.260	151.574	0.808
mBin.Yr2016Plus	-2.515	0.510	-0.026
mBin.Yr2019	-2.532	0.122	-0.006
mBin.Mar	6.572	0.082	0.011
mBin.May	-3.478	0.082	-0.006
mBin.Oct	-4.484	0.082	-0.007

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Variable	Coefficient	Mean	Elast
mBin.Oct12	-7.585	0.010	-0.002
mBin.Jan14	12.244	0.010	0.003
mBin.Dec14	-8.730	0.010	-0.002
mBin.Feb15	18.112	0.010	0.004
mBin.Mar16	-10.852	0.010	-0.002

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResAvgUse**
Dependent Variable:	**mSales.ResAvgUse**
Date:	**December 03, 2020**
Time:	**03:17 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructResRev.XHeat	1.817	0.070	26.116	0%
mStructResRev.XCool	0.882	0.048	18.444	0%
mStructResRev.XOther	0.837	0.039	21.596	0%
mBin.Yr2019Plus	-3.691	31.728	-0.116	91%
mBin.Yr2015Plus	-73.006	22.761	-3.208	0%

Model Statistics	
Iterations	1
Adjusted Observations	127
Deg. of Freedom for Error	122
R-Squared	0.870
Adjusted R-Squared	0.866
AIC	9.562
BIC	9.674
F-Statistic	163.378
Prob (F-Statistic)	0.000
Log-Likelihood	-782.41
Model Sum of Squares	11174830
Sum of Squared Errors	1668924
Mean Squared Error	13679.70
Std. Error of Regression	116.96
Mean Abs. Dev. (MAD)	83.67
Mean Abs. % Err. (MAPE)	6.67%
Durbin-Watson Statistic	1.589
Durbin-H Statistic	0.000
Ljung-Box Statistic	53.03
Prob (Ljung-Box)	0.001
Skewness	0.586
Kurtosis	5.269
Jarque-Bera	34.522
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructResRev.XHeat	1.817	222.503	0.323
mStructResRev.XCool	0.882	269.214	0.190
mStructResRev.XOther	0.837	775.596	0.519
mBin.Yr2019Plus	-3.691	0.150	-0.000
mBin.Yr2015Plus	-73.006	0.528	-0.031

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComSales**
Dependent Variable:	**mSales.ComSales**
Date:	**December 03, 2020**
Time:	**03:17 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructComRev.XHeat	24704.779	2380.341	10.379	0%
mStructComRev.XCool	8759.669	622.446	14.073	0%
mStructComRev.XOther	996.354	17.144	58.116	0%
Dummies.MartoJun2020	-1824.642	507.230	-3.597	0%
mBin.Bef13	-773.110	132.397	-5.839	0%
mBin.Dec10	-1856.954	677.253	-2.742	1%
Dummies.After2020	346.207	388.287	0.892	37%

Model Statistics	
Iterations	1
Adjusted Observations	127
Deg. of Freedom for Error	120
R-Squared	0.736
Adjusted R-Squared	0.723
AIC	13.040
BIC	13.197
F-Statistic	47.754
Prob (F-Statistic)	0.000
Log-Likelihood	-1001.24
Model Sum of Squares	145885924
Sum of Squared Errors	52370172
Mean Squared Error	436418.10
Std. Error of Regression	660.62
Mean Abs. Dev. (MAD)	503.14
Mean Abs. % Err. (MAPE)	3.75%
Durbin-Watson Statistic	1.982
Durbin-H Statistic	0.000
Ljung-Box Statistic	61.81
Prob (Ljung-Box)	0.000
Skewness	0.337
Kurtosis	3.066
Jarque-Bera	2.434
Prob (Jarque-Bera)	0.296

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructComRev.XHeat	24704.779	0.041	0.075
mStructComRev.XCool	8759.669	0.154	0.100
mStructComRev.XOther	996.354	11.434	0.846
Dummies.MartoJun2020	-1824.642	0.031	-0.004
mBin.Bef13	-773.110	0.283	-0.016
mBin.Dec10	-1856.954	0.008	-0.001
Dummies.After2020	346.207	0.055	0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**IndSales**
Dependent Variable:	**mSales.IndSales**
Date:	**December 03, 2020**
Time:	**03:17 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	19285.489	2500.655	7.712	0%
ComSales.Filled	0.571	0.183	3.124	0%
mBin.Jan	245.167	609.449	0.402	69%
mBin.Feb	-399.176	572.773	-0.697	49%
mBin.Mar	1164.735	575.732	2.023	5%
mBin.Apr	1328.706	597.005	2.226	3%
mBin.May	1989.886	575.375	3.458	0%
mBin.Jun	1982.083	588.228	3.370	0%
mBin.Jul	1425.113	651.725	2.187	3%
mBin.Aug	2893.801	708.379	4.085	0%
mBin.Sep	1758.284	620.423	2.834	1%
mBin.Oct	1903.648	586.506	3.246	0%
mBin.Nov	841.178	597.083	1.409	16%
mBin.Bef13	-6242.478	348.994	-17.887	0%
mBin.Yr2013	-1123.928	433.782	-2.591	1%
mBin.Yr2018Plus	149.761	315.827	0.474	64%
Dummies.MartoJun2020	-3211.241	820.234	-3.915	0%

Model Statistics	
Iterations	1
Adjusted Observations	127
Deg. of Freedom for Error	110
R-Squared	0.879
Adjusted R-Squared	0.861
AIC	14.478
BIC	14.859
F-Statistic	49.917
Prob (F-Statistic)	0.000
Log-Likelihood	-1082.57
Model Sum of Squares	1368689879
Sum of Squared Errors	188506847
Mean Squared Error	1713698.61
Std. Error of Regression	1309.08
Mean Abs. Dev. (MAD)	844.62
Mean Abs. % Err. (MAPE)	3.36%
Durbin-Watson Statistic	1.634
Durbin-H Statistic	0.000
Ljung-Box Statistic	15.78
Prob (Ljung-Box)	0.896
Skewness	-1.980
Kurtosis	15.218
Jarque-Bera	872.959
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
ComSales.Filled	0.571	13471.151	0.293
mBin.Jan	245.167	0.087	0.001
mBin.Feb	-399.176	0.087	-0.001
mBin.Mar	1164.735	0.087	0.004

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Variable	Coefficient	Mean	Elast
mBin.Apr	1328.706	0.087	0.004
mBin.May	1989.886	0.087	0.007
mBin.Jun	1982.083	0.087	0.007
mBin.Jul	1425.113	0.087	0.005
mBin.Aug	2893.801	0.079	0.009
mBin.Sep	1758.284	0.079	0.005
mBin.Oct	1903.648	0.079	0.006
mBin.Nov	841.178	0.079	0.003
mBin.Bef13	-6242.478	0.283	-0.067
mBin.Yr2013	-1123.928	0.094	-0.004
mBin.Yr2018Plus	149.761	0.244	0.001
Dummies.MartoJun2020	-3211.241	0.031	-0.004

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**SLSales**
Dependent Variable:	**mSales.SLSales**
Date:	**December 03, 2020**
Time:	**03:17 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
ResCusts.Filled	0.002	0.000	213.300	0%
mBin.AftSep17	-33.126	1.150	-28.796	0%
mBin.AftNov18	4.421	1.339	3.303	0%
AR(1)	0.471	0.080	5.900	0%

Model Statistics	
Iterations	7
Adjusted Observations	126
Deg. of Freedom for Error	122
R-Squared	0.963
Adjusted R-Squared	0.963
AIC	1.723
BIC	1.813
F-Statistic	804.058
Prob (F-Statistic)	0.000
Log-Likelihood	-283.36
Model Sum of Squares	17469
Sum of Squared Errors	663
Mean Squared Error	5.43
Std. Error of Regression	2.33
Mean Abs. Dev. (MAD)	1.09
Mean Abs. % Err. (MAPE)	1.19%
Durbin-Watson Statistic	2.232
Durbin-H Statistic	0.000
Ljung-Box Statistic	20.44
Prob (Ljung-Box)	0.671
Skewness	-4.164
Kurtosis	35.350
Jarque-Bera	5858.219
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
ResCusts.Filled	0.002	54021.858	1.092
mBin.AftSep17	-33.126	0.276	-0.101
mBin.AftNov18	4.421	0.165	0.008

Project: H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020
Model: ResCusts
Dependent Variable: mSales.ResCusts
Date: December 03, 2020
Time: 03:17 PM
Estimation Begin Date: 2010:1
Estimation End Date: 2020:7
Forecast Period End Date: 2040:12

Variable	Coefficient	StdErr	T-Stat	P-Value
CONST	1786.385	778.656	2.294	2%
Econ.HH	571.456	8.540	66.912	0%
Dummies.After2020	304.354	89.444	3.403	0%

Model Statistics	
Iterations	1
Adjusted Observations	127
Deg. of Freedom for Error	124
R-Squared	0.978
Adjusted R-Squared	0.978
AIC	10.721
BIC	10.788
F-Statistic	2793.020
Prob (F-Statistic)	0.000
Log-Likelihood	-858.01
Model Sum of Squares	247265371
Sum of Squared Errors	5488844
Mean Squared Error	44264.87
Std. Error of Regression	210.39
Mean Abs. Dev. (MAD)	169.32
Mean Abs. % Err. (MAPE)	0.32%
Durbin-Watson Statistic	0.543
Durbin-H Statistic	-0.310
Ljung-Box Statistic	381.07
Prob (Ljung-Box)	0.000
Skewness	-0.124
Kurtosis	2.435
Jarque-Bera	2.010
Prob (Jarque-Bera)	0.366

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
Econ.HH	571.456	91.378	0.967
Dummies.After2020	304.354	0.055	0.000

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComCusts**
Dependent Variable:	**mSales.ComCusts**
Date:	**December 03, 2020**
Time:	**03:17 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
ResCusts.Filled	0.005	0.010	0.526	60%
Econ.EmpMan	-2.998	9.905	-0.303	76%
AR(1)	1.001	0.000	4352.778	0%
MA(1)	-0.607	0.073	-8.278	0%

Model Statistics	
Iterations	21
Adjusted Observations	126
Deg. of Freedom for Error	122
R-Squared	0.983
Adjusted R-Squared	0.982
AIC	5.353
BIC	5.443
F-Statistic	1744.621
Prob (F-Statistic)	0.000
Log-Likelihood	-512.01
Model Sum of Squares	1428399
Sum of Squared Errors	24972
Mean Squared Error	204.69
Std. Error of Regression	14.31
Mean Abs. Dev. (MAD)	10.11
Mean Abs. % Err. (MAPE)	0.37%
Durbin-Watson Statistic	2.007
Durbin-H Statistic	0.000
Ljung-Box Statistic	13.78
Prob (Ljung-Box)	0.952
Skewness	1.740
Kurtosis	12.981
Jarque-Bera	586.538
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
ResCusts.Filled	0.005	54021.858	0.107
Econ.EmpMan	-2.998	13.814	-0.015

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**Peaks**
Dependent Variable:	**mLoad.Peak**
Date:	**December 03, 2020**
Time:	**03:17 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mPeakVars.HeatingVar	3.587	0.159	22.488	0%
mPeakVars.CoolingVar	6.514	0.453	14.392	0%
mPeakVars.BaseVar	0.188	0.006	33.797	0%
mBin.Yr2010	15.245	5.824	2.617	1%
mBin.Mar15Plus	-11.783	3.746	-3.145	0%
mBin.Mar	15.366	4.289	3.582	0%
mBin.Oct	-16.359	4.550	-3.596	0%
MA(1)	0.350	0.088	3.959	0%

Model Statistics	
Iterations	9
Adjusted Observations	122
Deg. of Freedom for Error	114
R-Squared	0.918
Adjusted R-Squared	0.913
AIC	5.346
BIC	5.530
F-Statistic	158.684
Prob (F-Statistic)	0.000
Log-Likelihood	-491.22
Model Sum of Squares	249960
Sum of Squared Errors	22447
Mean Squared Error	196.90
Std. Error of Regression	14.03
Mean Abs. Dev. (MAD)	11.32
Mean Abs. % Err. (MAPE)	4.46%
Durbin-Watson Statistic	1.977
Durbin-H Statistic	0.000
Ljung-Box Statistic	12.61
Prob (Ljung-Box)	0.972
Skewness	0.358
Kurtosis	2.605
Jarque-Bera	3.395
Prob (Jarque-Bera)	0.183

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mPeakVars.HeatingVar	3.587	14.556	0.208
mPeakVars.CoolingVar	6.514	4.499	0.117
mPeakVars.BaseVar	0.188	920.581	0.692
mBin.Yr2010	15.245	0.098	0.006
mBin.Mar15Plus	-11.783	0.492	-0.023
mBin.Mar	15.366	0.082	0.005
mBin.Oct	-16.359	0.082	-0.005

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResAvgUse**
Dependent Variable:	**mSales.ResAvgUse**
Date:	**December 03, 2020**
Time:	**03:20 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructResRev.XHeat	2.543	0.054	47.037	0%
mStructResRev.XCool	1.282	0.042	30.400	0%
mStructResRev.XOther	0.712	0.019	36.979	0%
mBin.Yr2015Plus	-77.309	11.004	-7.026	0%
mBin.Mar2020	-210.514	61.407	-3.428	0%
mBin.Apr2020	-101.097	61.195	-1.652	10%

Model Statistics	
Iterations	1
Adjusted Observations	127
Deg. of Freedom for Error	121
R-Squared	0.957
Adjusted R-Squared	0.955
AIC	8.252
BIC	8.387
F-Statistic	445.202
Prob (F-Statistic)	0.000
Log-Likelihood	-698.23
Model Sum of Squares	9786435
Sum of Squared Errors	443304
Mean Squared Error	3663.67
Std. Error of Regression	60.53
Mean Abs. Dev. (MAD)	45.38
Mean Abs. % Err. (MAPE)	4.04%
Durbin-Watson Statistic	1.703
Durbin-H Statistic	0.000
Ljung-Box Statistic	15.04
Prob (Ljung-Box)	0.920
Skewness	-0.032
Kurtosis	2.840
Jarque-Bera	0.158
Prob (Jarque-Bera)	0.924

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructResRev.XHeat	2.543	151.746	0.343
mStructResRev.XCool	1.282	160.478	0.183
mStructResRev.XOther	0.712	810.198	0.512
mBin.Yr2015Plus	-77.309	0.528	-0.036
mBin.Mar2020	-210.514	0.008	-0.001
mBin.Apr2020	-101.097	0.008	-0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComSales**
Dependent Variable:	**mSales.ComSales**
Date:	**December 03, 2020**
Time:	**03:20 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructComRev.XHeat	10940.565	897.651	12.188	0%
mStructComRev.XCool	4546.316	238.679	19.048	0%
mStructComRev.XOther	519.338	8.120	63.959	0%
mBin.Yr2012	267.822	83.437	3.210	0%
mBin.Yr2013Plus	399.398	74.729	5.345	0%
mBin.Yr2016Plus	-468.607	61.957	-7.563	0%
mBin.Mar2020	255.132	269.115	0.948	35%
mBin.Apr2020	-89.355	268.903	-0.332	74%
mBin.Aft2019	120.925	118.007	1.025	31%
SMA(1)	0.273	0.103	2.654	1%

Model Statistics	
Iterations	14
Adjusted Observations	127
Deg. of Freedom for Error	117
R-Squared	0.857
Adjusted R-Squared	0.846
AIC	11.072
BIC	11.296
F-Statistic	70.340
Prob (F-Statistic)	0.000
Log-Likelihood	-873.31
Model Sum of Squares	41988178
Sum of Squared Errors	6984145
Mean Squared Error	59693.55
Std. Error of Regression	244.32
Mean Abs. Dev. (MAD)	180.26
Mean Abs. % Err. (MAPE)	2.54%
Durbin-Watson Statistic	1.724
Durbin-H Statistic	0.000
Ljung-Box Statistic	42.20
Prob (Ljung-Box)	0.012
Skewness	0.643
Kurtosis	4.392
Jarque-Bera	19.004
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructComRev.XHeat	10940.565	0.041	0.062
mStructComRev.XCool	4546.316	0.150	0.096
mStructComRev.XOther	519.338	11.340	0.825
mBin.Yr2012	267.822	0.094	0.004
mBin.Yr2013Plus	399.398	0.717	0.040
mBin.Yr2016Plus	-468.607	0.433	-0.028
mBin.Mar2020	255.132	0.008	0.000
mBin.Apr2020	-89.355	0.008	-0.000
mBin.Aft2019	120.925	0.055	0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**IndSales**
Dependent Variable:	**mSales.IndSales**
Date:	**December 03, 2020**
Time:	**03:20 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mBin.Jan	981.773	45.421	21.615	0%
mBin.Feb	974.050	45.567	21.376	0%
mBin.Mar	836.604	45.567	18.360	0%
mBin.Apr	865.207	45.567	18.988	0%
mBin.May	936.195	45.567	20.546	0%
mBin.Jun	930.330	45.567	20.417	0%
mBin.Jul	942.719	45.567	20.689	0%
mBin.Aug	963.403	47.643	20.221	0%
mBin.Sep	950.246	47.791	19.884	0%
mBin.Oct	784.844	47.791	16.423	0%
mBin.Nov	794.698	52.845	15.038	0%
mBin.Dec	865.677	47.633	18.174	0%
mBin.Nov15	-422.884	149.047	-2.837	1%
mBin.Nov17	-591.478	154.173	-3.836	0%
MA(1)	0.270	0.094	2.861	1%

Model Statistics	
Iterations	9
Adjusted Observations	127
Deg. of Freedom for Error	112
R-Squared	0.409
Adjusted R-Squared	0.335
AIC	10.077
BIC	10.413
F-Statistic	5.174
Prob (F-Statistic)	0.000
Log-Likelihood	-805.07
Model Sum of Squares	1652669
Sum of Squared Errors	2384799
Mean Squared Error	21292.85
Std. Error of Regression	145.92
Mean Abs. Dev. (MAD)	97.19
Mean Abs. % Err. (MAPE)	13.70%
Durbin-Watson Statistic	1.934
Durbin-H Statistic	0.000
Ljung-Box Statistic	17.23
Prob (Ljung-Box)	0.839
Skewness	-1.140
Kurtosis	4.898
Jarque-Bera	46.594
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mBin.Jan	981.773	0.087	0.095
mBin.Feb	974.050	0.087	0.094
mBin.Mar	836.604	0.087	0.081
mBin.Apr	865.207	0.087	0.084
mBin.May	936.195	0.087	0.091
mBin.Jun	930.330	0.087	0.090

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Variable	Coefficient	Mean	Elast
mBin.Jul	942.719	0.087	0.091
mBin.Aug	963.403	0.079	0.085
mBin.Sep	950.246	0.079	0.084
mBin.Oct	784.844	0.079	0.069
mBin.Nov	794.698	0.079	0.070
mBin.Dec	865.677	0.079	0.076
mBin.Nov15	-422.884	0.008	-0.004
mBin.Nov17	-591.478	0.008	-0.005

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResCusts**
Dependent Variable:	**mSales.ResCusts**
Date:	**December 03, 2020**
Time:	**03:20 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
CONST	6192.933	4117.601	1.504	14%
Econ.HH	443.429	98.550	4.500	0%
AR(1)	0.964	0.015	65.091	0%

Model Statistics	
Iterations	25
Adjusted Observations	126
Deg. of Freedom for Error	123
R-Squared	0.988
Adjusted R-Squared	0.988
AIC	6.605
BIC	6.673
F-Statistic	4954.932
Prob (F-Statistic)	0.000
Log-Likelihood	-591.91
Model Sum of Squares	7152537
Sum of Squared Errors	88776
Mean Squared Error	721.76
Std. Error of Regression	26.87
Mean Abs. Dev. (MAD)	20.67
Mean Abs. % Err. (MAPE)	0.08%
Durbin-Watson Statistic	1.499
Durbin-H Statistic	0.038
Ljung-Box Statistic	50.37
Prob (Ljung-Box)	0.001
Skewness	-0.203
Kurtosis	2.892
Jarque-Bera	0.924
Prob (Jarque-Bera)	0.630

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
Econ.HH	443.429	41.025	0.743

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComCusts**
Dependent Variable:	**mSales.ComCusts**
Date:	**December 03, 2020**
Time:	**03:20 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
Econ.EmpNonMan	-8.013	12.380	-0.647	52%
AR(1)	1.001	0.000	2159.532	0%

Model Statistics	
Iterations	16
Adjusted Observations	126
Deg. of Freedom for Error	124
R-Squared	0.979
Adjusted R-Squared	0.978
AIC	4.645
BIC	4.690
F-Statistic	2825.433
Prob (F-Statistic)	0.000
Log-Likelihood	-469.43
Model Sum of Squares	578939
Sum of Squared Errors	12704
Mean Squared Error	102.45
Std. Error of Regression	10.12
Mean Abs. Dev. (MAD)	7.22
Mean Abs. % Err. (MAPE)	0.42%
Durbin-Watson Statistic	1.637
Durbin-H Statistic	0.000
Ljung-Box Statistic	46.90
Prob (Ljung-Box)	0.003
Skewness	0.792
Kurtosis	5.858
Jarque-Bera	56.059
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
Econ.EmpNonMan	-8.013	30.486	-0.140

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**Peaks**
Dependent Variable:	**mLoad.Peak**
Date:	**December 03, 2020**
Time:	**03:20 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mPeakVars.HeatingVar	1.272	0.056	22.536	0%
mPeakVars.CoolingVar	2.154	0.143	15.023	0%
mPeakVars.BaseVar	0.266	0.006	41.911	0%
mBin.Yr2013Plus	-2.676	1.126	-2.376	2%
mBin.Mar	8.620	1.967	4.382	0%
mBin.Oct	-5.381	1.952	-2.756	1%
mBin.Apr11	14.401	5.711	2.522	1%
mBin.Feb13	22.795	5.656	4.031	0%
mBin.Dec14	-17.307	5.612	-3.084	0%
mBin.Jul15	13.352	5.606	2.382	2%
mBin.Mar16	-18.048	5.852	-3.084	0%

Model Statistics	
Iterations	1
Adjusted Observations	122
Deg. of Freedom for Error	111
R-Squared	0.915
Adjusted R-Squared	0.907
AIC	3.510
BIC	3.763
F-Statistic	108.434
Prob (F-Statistic)	0.000
Log-Likelihood	-376.21
Model Sum of Squares	36606
Sum of Squared Errors	3407
Mean Squared Error	30.69
Std. Error of Regression	5.54
Mean Abs. Dev. (MAD)	3.99
Mean Abs. % Err. (MAPE)	4.40%
Durbin-Watson Statistic	1.683
Durbin-H Statistic	0.000
Ljung-Box Statistic	29.05
Prob (Ljung-Box)	0.218
Skewness	0.166
Kurtosis	3.901
Jarque-Bera	4.688
Prob (Jarque-Bera)	0.096

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mPeakVars.HeatingVar	1.272	13.209	0.188
mPeakVars.CoolingVar	2.154	4.217	0.102
mPeakVars.BaseVar	0.266	243.765	0.727
mBin.Yr2013Plus	-2.676	0.705	-0.021
mBin.Mar	8.620	0.082	0.008
mBin.Oct	-5.381	0.082	-0.005
mBin.Apr11	14.401	0.008	0.001
mBin.Feb13	22.795	0.008	0.002
mBin.Dec14	-17.307	0.008	-0.002
mBin.Jul15	13.352	0.008	0.001

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Variable	Coefficient	Mean	Elast
mBin.Mar16	-18.048	0.008	-0.002

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**SLSales**
Dependent Variable:	**mSales.SLSales**
Date:	**December 03, 2020**
Time:	**03:20 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mBin.Jan	70.716	1.170	60.461	0%
mBin.Feb	69.767	1.134	61.526	0%
mBin.Mar	67.382	1.119	60.204	0%
mBin.Apr	65.481	1.111	58.931	0%
mBin.May	64.384	1.107	58.181	0%
mBin.Jun	63.000	1.104	57.058	0%
mBin.Jul	61.737	1.103	55.981	0%
mBin.Aug	62.360	1.121	55.608	0%
mBin.Sep	63.915	1.124	56.868	0%
mBin.Oct	64.855	1.123	57.742	0%
mBin.Nov	66.107	1.122	58.907	0%
mBin.Dec	67.867	1.122	60.512	0%
mBin.Yr2015Plus	-4.212	1.284	-3.281	0%
mBin.Yr2017Plus	-5.338	1.336	-3.995	0%
AR(1)	0.528	0.075	6.994	0%

Model Statistics	
Iterations	8
Adjusted Observations	126
Deg. of Freedom for Error	111
R-Squared	0.812
Adjusted R-Squared	0.788
AIC	2.105
BIC	2.442
F-Statistic	31.921
Prob (F-Statistic)	0.000
Log-Likelihood	-296.39
Model Sum of Squares	3515
Sum of Squared Errors	815
Mean Squared Error	7.34
Std. Error of Regression	2.71
Mean Abs. Dev. (MAD)	1.74
Mean Abs. % Err. (MAPE)	2.94%
Durbin-Watson Statistic	2.372
Durbin-H Statistic	0.000
Ljung-Box Statistic	53.56
Prob (Ljung-Box)	0.000
Skewness	0.240
Kurtosis	7.133
Jarque-Bera	90.871
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mBin.Jan	70.716	0.087	0.100
mBin.Feb	69.767	0.087	0.098
mBin.Mar	67.382	0.087	0.095
mBin.Apr	65.481	0.087	0.092
mBin.May	64.384	0.087	0.091
mBin.Jun	63.000	0.087	0.089

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Variable	Coefficient	Mean	Elast
mBin.Jul	61.737	0.087	0.087
mBin.Aug	62.360	0.079	0.080
mBin.Sep	63.915	0.079	0.082
mBin.Oct	64.855	0.079	0.083
mBin.Nov	66.107	0.079	0.085
mBin.Dec	67.867	0.079	0.087
mBin.Yr2015Plus	-4.212	0.528	-0.036
mBin.Yr2017Plus	-5.338	0.339	-0.029

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResAvgUse**
Dependent Variable:	**mSales.ResAvgUse**
Date:	**December 03, 2020**
Time:	**03:22 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructResRev.XHeat	1.725	0.052	33.193	0%
mStructResRev.XCool	0.650	0.032	20.506	0%
mStructResRev.XOther	0.889	0.028	31.928	0%
mBin.Oct18	-221.570	88.472	-2.504	1%
mBin.Mar2020	-144.650	88.640	-1.632	11%

Model Statistics	
Iterations	1
Adjusted Observations	127
Deg. of Freedom for Error	122
R-Squared	0.918
Adjusted R-Squared	0.915
AIC	8.995
BIC	9.107
F-Statistic	271.725
Prob (F-Statistic)	0.000
Log-Likelihood	-746.39
Model Sum of Squares	10540186
Sum of Squared Errors	946475
Mean Squared Error	7757.99
Std. Error of Regression	88.08
Mean Abs. Dev. (MAD)	66.45
Mean Abs. % Err. (MAPE)	5.60%
Durbin-Watson Statistic	2.324
Durbin-H Statistic	0.000
Ljung-Box Statistic	65.04
Prob (Ljung-Box)	0.000
Skewness	0.280
Kurtosis	3.876
Jarque-Bera	5.718
Prob (Jarque-Bera)	0.057

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructResRev.XHeat	1.725	209.268	0.307
mStructResRev.XCool	0.650	280.043	0.155
mStructResRev.XOther	0.889	717.225	0.541
mBin.Oct18	-221.570	0.008	-0.001
mBin.Mar2020	-144.650	0.008	-0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComSales**
Dependent Variable:	**mSales.ComSales**
Date:	**December 03, 2020**
Time:	**03:22 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructComRev.XHeat	12159.609	1218.861	9.976	0%
mStructComRev.XCool	3277.929	317.611	10.321	0%
mStructComRev.XOther	450.853	10.593	42.561	0%
mBin.Yr2013Plus	634.342	80.600	7.870	0%
mBin.Yr2015	689.036	123.958	5.559	0%
mBin.Yr2018Plus	156.364	91.829	1.703	9%
mBin.Mar13	-1188.042	391.045	-3.038	0%
mBin.Mar2020	-550.170	390.875	-1.408	16%
mBin.Apr2020	-1078.392	391.020	-2.758	1%
mBin.May2020	-1388.655	391.049	-3.551	0%

Model Statistics	
Iterations	1
Adjusted Observations	127
Deg. of Freedom for Error	117
R-Squared	0.690
Adjusted R-Squared	0.666
AIC	11.972
BIC	12.196
F-Statistic	26.032
Prob (F-Statistic)	0.000
Log-Likelihood	-930.40
Model Sum of Squares	38186957
Sum of Squared Errors	17162896
Mean Squared Error	146691.42
Std. Error of Regression	383.00
Mean Abs. Dev. (MAD)	280.29
Mean Abs. % Err. (MAPE)	4.13%
Durbin-Watson Statistic	1.980
Durbin-H Statistic	0.000
Ljung-Box Statistic	49.83
Prob (Ljung-Box)	0.001
Skewness	-0.207
Kurtosis	4.104
Jarque-Bera	7.360
Prob (Jarque-Bera)	0.025

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructComRev.XHeat	12159.609	0.043	0.078
mStructComRev.XCool	3277.929	0.164	0.080
mStructComRev.XOther	450.853	11.459	0.764
mBin.Yr2013Plus	634.342	0.717	0.067
mBin.Yr2015	689.036	0.094	0.010
mBin.Yr2018Plus	156.364	0.244	0.006
mBin.Mar13	-1188.042	0.008	-0.001
mBin.Mar2020	-550.170	0.008	-0.001
mBin.Apr2020	-1078.392	0.008	-0.001
mBin.May2020	-1388.655	0.008	-0.002

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**IndSales**
Dependent Variable:	**mSales.IndSales**
Date:	**December 03, 2020**
Time:	**03:22 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	4468.147	1439.410	3.104	0%
mBin.Jan	-348.995	137.005	-2.547	1%
mBin.Feb	78.335	180.689	0.434	67%
mBin.Mar	-319.585	208.795	-1.531	13%
mBin.Apr	-75.130	227.140	-0.331	74%
mBin.May	34.876	237.963	0.147	88%
mBin.Jun	79.100	242.254	0.327	74%
mBin.Jul	-388.472	240.347	-1.616	11%
mBin.Aug	96.439	231.154	0.417	68%
mBin.Sep	122.212	213.268	0.573	57%
mBin.Oct	-130.111	184.186	-0.706	48%
mBin.Nov	133.951	136.975	0.978	33%
AR(1)	0.967	0.021	46.743	0%

Model Statistics	
Iterations	9
Adjusted Observations	126
Deg. of Freedom for Error	113
R-Squared	0.951
Adjusted R-Squared	0.946
AIC	12.306
BIC	12.599
F-Statistic	183.056
Prob (F-Statistic)	0.000
Log-Likelihood	-941.08
Model Sum of Squares	440537323
Sum of Squared Errors	22661865
Mean Squared Error	200547.47
Std. Error of Regression	447.83
Mean Abs. Dev. (MAD)	313.45
Mean Abs. % Err. (MAPE)	5.56%
Durbin-Watson Statistic	2.681
Durbin-H Statistic	0.000
Ljung-Box Statistic	71.96
Prob (Ljung-Box)	0.000
Skewness	0.069
Kurtosis	3.705
Jarque-Bera	2.707
Prob (Jarque-Bera)	0.258

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mBin.Jan	-348.995	0.087	-0.005
mBin.Feb	78.335	0.087	0.001
mBin.Mar	-319.585	0.087	-0.005
mBin.Apr	-75.130	0.087	-0.001
mBin.May	34.876	0.087	0.001
mBin.Jun	79.100	0.087	0.001
mBin.Jul	-388.472	0.087	-0.006
mBin.Aug	96.439	0.079	0.001

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Variable	Coefficient	Mean	Elast
mBin.Sep	122.212	0.079	0.002
mBin.Oct	-130.111	0.079	-0.002
mBin.Nov	133.951	0.079	0.002

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResCusts**
Dependent Variable:	**mSales.ResCusts**
Date:	**December 03, 2020**
Time:	**03:22 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
Econ.HH	752.324	0.462	1627.720	0%
mBin.Mar2020	-125.706	94.959	-1.324	19%
mBin.Apr2020	-24.099	90.210	-0.267	79%
mBin.aft2019	309.248	56.223	5.500	0%
MA(1)	0.883	0.043	20.474	0%

Model Statistics	
Iterations	17
Adjusted Observations	127
Deg. of Freedom for Error	122
R-Squared	0.268
Adjusted R-Squared	0.244
AIC	8.819
BIC	8.931
F-Statistic	8.933
Prob (F-Statistic)	0.000
Log-Likelihood	-735.24
Model Sum of Squares	290684
Sum of Squared Errors	793999
Mean Squared Error	6508.19
Std. Error of Regression	80.67
Mean Abs. Dev. (MAD)	65.76
Mean Abs. % Err. (MAPE)	0.30%
Durbin-Watson Statistic	0.704
Durbin-H Statistic	0.302
Ljung-Box Statistic	861.19
Prob (Ljung-Box)	0.000
Skewness	-0.147
Kurtosis	2.206
Jarque-Bera	3.799
Prob (Jarque-Bera)	0.150

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
Econ.HH	752.324	29.331	0.999
mBin.Mar2020	-125.706	0.008	-0.000
mBin.Apr2020	-24.099	0.008	-0.000
mBin.aft2019	309.248	0.055	0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComCusts**
Dependent Variable:	**mSales.ComCusts**
Date:	**December 03, 2020**
Time:	**03:22 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
ResCusts.Filled	0.072	0.001	61.300	0%
mBin.Oct11	35.687	5.300	6.733	0%
AR(1)	0.969	0.013	72.968	0%

Model Statistics	
Iterations	9
Adjusted Observations	126
Deg. of Freedom for Error	123
R-Squared	0.972
Adjusted R-Squared	0.971
AIC	4.026
BIC	4.093
F-Statistic	1400.356
Prob (F-Statistic)	0.000
Log-Likelihood	-429.41
Model Sum of Squares	229890
Sum of Squared Errors	6731
Mean Squared Error	54.72
Std. Error of Regression	7.40
Mean Abs. Dev. (MAD)	4.86
Mean Abs. % Err. (MAPE)	0.31%
Durbin-Watson Statistic	1.651
Durbin-H Statistic	0.000
Ljung-Box Statistic	34.33
Prob (Ljung-Box)	0.079
Skewness	1.741
Kurtosis	9.859
Jarque-Bera	310.604
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
ResCusts.Filled	0.072	22080.008	1.022
mBin.Oct11	35.687	0.008	0.000

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**Peaks**
Dependent Variable:	**mLoad.Peak**
Date:	**December 03, 2020**
Time:	**03:22 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mPeakVars.HeatingVar	1.320	0.067	19.793	0%
mPeakVars.CoolingVar	2.199	0.210	10.455	0%
mPeakVars.BaseVar	0.222	0.005	43.206	0%
mBin.Yr2015	6.608	2.278	2.901	0%
mBin.May12	-19.020	7.625	-2.494	1%

Model Statistics	
Iterations	1
Adjusted Observations	122
Deg. of Freedom for Error	117
R-Squared	0.842
Adjusted R-Squared	0.837
AIC	4.078
BIC	4.193
F-Statistic	124.985
Prob (F-Statistic)	0.000
Log-Likelihood	-416.87
Model Sum of Squares	35436
Sum of Squared Errors	6634
Mean Squared Error	56.70
Std. Error of Regression	7.53
Mean Abs. Dev. (MAD)	5.73
Mean Abs. % Err. (MAPE)	6.12%
Durbin-Watson Statistic	1.741
Durbin-H Statistic	0.000
Ljung-Box Statistic	32.74
Prob (Ljung-Box)	0.110
Skewness	0.033
Kurtosis	2.934
Jarque-Bera	0.044
Prob (Jarque-Bera)	0.978

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mPeakVars.HeatingVar	1.320	12.971	0.184
mPeakVars.CoolingVar	2.199	3.297	0.078
mPeakVars.BaseVar	0.222	306.412	0.731
mBin.Yr2015	6.608	0.098	0.007
mBin.May12	-19.020	0.008	-0.002

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResAvgUse**
Dependent Variable:	**mSales.ResAvgUse**
Date:	**December 03, 2020**
Time:	**03:24 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructResRev.XHeat	1.930	0.051	37.577	0%
mStructResRev.XCool	1.192	0.040	29.757	0%
mStructResRev.XOther	0.823	0.024	33.938	0%
mBin.Yr2015Plus	-83.143	14.434	-5.760	0%
mBin.Yr2018Plus	-53.768	17.100	-3.144	0%
mBin.May20	145.653	70.159	2.076	4%
mBin.Aug20	86.817	70.203	1.237	22%

Model Statistics	
Iterations	1
Adjusted Observations	128
Deg. of Freedom for Error	121
R-Squared	0.933
Adjusted R-Squared	0.930
AIC	8.500
BIC	8.656
F-Statistic	240.793
Prob (F-Statistic)	0.000
Log-Likelihood	-718.63
Model Sum of Squares	7855700
Sum of Squared Errors	563935
Mean Squared Error	4660.62
Std. Error of Regression	68.27
Mean Abs. Dev. (MAD)	51.22
Mean Abs. % Err. (MAPE)	4.51%
Durbin-Watson Statistic	1.750
Durbin-H Statistic	0.000
Ljung-Box Statistic	28.44
Prob (Ljung-Box)	0.242
Skewness	0.562
Kurtosis	5.390
Jarque-Bera	37.201
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructResRev.XHeat	1.930	175.279	0.299
mStructResRev.XCool	1.192	204.833	0.216
mStructResRev.XOther	0.823	733.161	0.534
mBin.Yr2015Plus	-83.143	0.531	-0.039
mBin.Yr2018Plus	-53.768	0.250	-0.012
mBin.May20	145.653	0.008	0.001
mBin.Aug20	86.817	0.008	0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComSales**
Dependent Variable:	**mSales.ComSales**
Date:	**December 03, 2020**
Time:	**03:24 PM**
Estimation Begin Date:	**2009:12**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructComRev.XHeat	10491.476	876.323	11.972	0%
mStructComRev.XCool	5797.740	309.888	18.709	0%
mStructComRev.XOther	424.045	13.287	31.915	0%
mBin.Yr2012	-3839.731	189.369	-20.276	0%
mBin.Mar14Plus	927.064	158.436	5.851	0%
mBin.Aug12	-645.956	232.292	-2.781	1%
AR(1)	0.715	0.063	11.390	0%

Model Statistics	
Iterations	10
Adjusted Observations	128
Deg. of Freedom for Error	121
R-Squared	0.969
Adjusted R-Squared	0.967
AIC	11.328
BIC	11.484
F-Statistic	531.827
Prob (F-Statistic)	0.000
Log-Likelihood	-899.64
Model Sum of Squares	293509307
Sum of Squared Errors	9539793
Mean Squared Error	78841.27
Std. Error of Regression	280.79
Mean Abs. Dev. (MAD)	217.44
Mean Abs. % Err. (MAPE)	3.73%
Durbin-Watson Statistic	2.201
Durbin-H Statistic	0.000
Ljung-Box Statistic	30.16
Prob (Ljung-Box)	0.179
Skewness	-0.357
Kurtosis	4.271
Jarque-Bera	11.334
Prob (Jarque-Bera)	0.003

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructComRev.XHeat	10491.476	0.043	0.070
mStructComRev.XCool	5797.740	0.149	0.135
mStructComRev.XOther	424.045	11.650	0.770
mBin.Yr2012	-3839.731	0.093	-0.056
mBin.Mar14Plus	927.064	0.605	0.087
mBin.Aug12	-645.956	0.008	-0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**IndSales**
Dependent Variable:	**mSales.IndSales**
Date:	**December 03, 2020**
Time:	**03:24 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	8208.114	361.813	22.686	0%
mBin.Yr2012	3587.363	360.347	9.955	0%
mBin.Yr2018Plus	-766.866	430.207	-1.783	8%
mBin.Jan	-290.146	166.813	-1.739	8%
mBin.Feb	596.329	214.489	2.780	1%
mBin.Mar	211.652	244.908	0.864	39%
mBin.Apr	530.026	264.502	2.004	5%
mBin.May	452.875	275.857	1.642	10%
mBin.Jun	1195.477	280.114	4.268	0%
mBin.Jul	1615.028	277.595	5.818	0%
mBin.Aug	1612.353	267.950	6.017	0%
mBin.Sep	1804.153	248.351	7.265	0%
mBin.Oct	1068.798	215.929	4.950	0%
mBin.Nov	869.709	161.974	5.369	0%
AR(1)	0.849	0.055	15.482	0%

Model Statistics	
Iterations	7
Adjusted Observations	127
Deg. of Freedom for Error	112
R-Squared	0.897
Adjusted R-Squared	0.884
AIC	12.551
BIC	12.887
F-Statistic	69.691
Prob (F-Statistic)	0.000
Log-Likelihood	-962.17
Model Sum of Squares	246583297
Sum of Squared Errors	28306032
Mean Squared Error	252732.43
Std. Error of Regression	502.73
Mean Abs. Dev. (MAD)	328.36
Mean Abs. % Err. (MAPE)	3.95%
Durbin-Watson Statistic	2.107
Durbin-H Statistic	0.000
Ljung-Box Statistic	11.45
Prob (Ljung-Box)	0.985
Skewness	-1.884
Kurtosis	13.195
Jarque-Bera	625.175
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mBin.Yr2012	3587.363	0.094	0.036
mBin.Yr2018Plus	-766.866	0.250	-0.021
mBin.Jan	-290.146	0.086	-0.003
mBin.Feb	596.329	0.086	0.006
mBin.Mar	211.652	0.086	0.002
mBin.Apr	530.026	0.086	0.005

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Variable	Coefficient	Mean	Elast
mBin.May	452.875	0.086	0.004
mBin.Jun	1195.477	0.086	0.011
mBin.Jul	1615.028	0.086	0.015
mBin.Aug	1612.353	0.086	0.015
mBin.Sep	1804.153	0.078	0.015
mBin.Oct	1068.798	0.078	0.009
mBin.Nov	869.709	0.078	0.007

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResCusts**
Dependent Variable:	**mSales.ResCusts**
Date:	**December 03, 2020**
Time:	**03:24 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
Econ.HH	925.961	0.704	1314.547	0%
mBin.Yr2012	-269.300	47.756	-5.639	0%
mBin.Aug20	111.585	104.444	1.068	29%
MA(1)	0.881	0.043	20.369	0%

Model Statistics	
Iterations	16
Adjusted Observations	128
Deg. of Freedom for Error	124
R-Squared	0.933
Adjusted R-Squared	0.931
AIC	9.317
BIC	9.406
F-Statistic	431.459
Prob (F-Statistic)	0.000
Log-Likelihood	-773.89
Model Sum of Squares	18611853
Sum of Squared Errors	1337248
Mean Squared Error	10784.26
Std. Error of Regression	103.85
Mean Abs. Dev. (MAD)	81.47
Mean Abs. % Err. (MAPE)	0.35%
Durbin-Watson Statistic	0.969
Durbin-H Statistic	0.476
Ljung-Box Statistic	489.70
Prob (Ljung-Box)	0.000
Skewness	-0.055
Kurtosis	2.521
Jarque-Bera	1.287
Prob (Jarque-Bera)	0.525

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
Econ.HH	925.961	24.995	1.001
mBin.Yr2012	-269.300	0.094	-0.001
mBin.Aug20	111.585	0.008	0.000

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComCusts**
Dependent Variable:	**mSales.ComCusts**
Date:	**December 03, 2020**
Time:	**03:24 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
ResCusts.Filled	0.080	0.000	321.578	0%
mBin.Aft2019	-66.567	20.450	-3.255	0%
MA(1)	0.793	0.056	14.276	0%

Model Statistics	
Iterations	10
Adjusted Observations	128
Deg. of Freedom for Error	125
R-Squared	0.670
Adjusted R-Squared	0.665
AIC	7.171
BIC	7.238
F-Statistic	84.578
Prob (F-Statistic)	0.000
Log-Likelihood	-637.58
Model Sum of Squares	322665
Sum of Squared Errors	158959
Mean Squared Error	1271.67
Std. Error of Regression	35.66
Mean Abs. Dev. (MAD)	27.09
Mean Abs. % Err. (MAPE)	1.46%
Durbin-Watson Statistic	1.006
Durbin-H Statistic	0.000
Ljung-Box Statistic	227.92
Prob (Ljung-Box)	0.000
Skewness	0.990
Kurtosis	5.529
Jarque-Bera	55.026
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
ResCusts.Filled	0.080	23114.211	1.002
mBin.Aft2019	-66.567	0.063	-0.002

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**Peaks**
Dependent Variable:	**mLoad.Peak**
Date:	**December 03, 2020**
Time:	**03:24 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mPeakVars.HeatingVar	1.269	0.059	21.356	0%
mPeakVars.CoolingVar	1.933	0.123	15.669	0%
mPeakVars.BaseVar	0.201	0.004	45.181	0%
mBin.Yr2011	3.496	1.643	2.128	4%
mBin.Yr2012	-10.570	1.718	-6.153	0%
mBin.May	-5.344	1.877	-2.847	1%
mBin.Oct	-6.720	1.959	-3.431	0%
mBin.Nov	-7.225	1.871	-3.861	0%
mBin.Apr17	-16.507	5.440	-3.034	0%

Model Statistics	
Iterations	1
Adjusted Observations	122
Deg. of Freedom for Error	113
R-Squared	0.885
Adjusted R-Squared	0.877
AIC	3.438
BIC	3.645
F-Statistic	96.407
Prob (F-Statistic)	0.000
Log-Likelihood	-373.81
Model Sum of Squares	25149
Sum of Squared Errors	3275
Mean Squared Error	28.99
Std. Error of Regression	5.38
Mean Abs. Dev. (MAD)	3.91
Mean Abs. % Err. (MAPE)	4.07%
Durbin-Watson Statistic	1.805
Durbin-H Statistic	0.000
Ljung-Box Statistic	28.31
Prob (Ljung-Box)	0.247
Skewness	-0.011
Kurtosis	4.184
Jarque-Bera	7.134
Prob (Jarque-Bera)	0.028

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mPeakVars.HeatingVar	1.269	12.198	0.163
mPeakVars.CoolingVar	1.933	5.301	0.108
mPeakVars.BaseVar	0.201	357.136	0.754
mBin.Yr2011	3.496	0.098	0.004
mBin.Yr2012	-10.570	0.098	-0.011
mBin.May	-5.344	0.082	-0.005
mBin.Oct	-6.720	0.082	-0.006
mBin.Nov	-7.225	0.082	-0.006
mBin.Apr17	-16.507	0.008	-0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**SLSales**
Dependent Variable:	**mSales.SLSales**
Date:	**December 03, 2020**
Time:	**03:24 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mBin.Yr2018Plus	-0.787	1.336	-0.589	56%
AR(1)	0.998	0.003	319.811	0%

Model Statistics	
Iterations	5
Adjusted Observations	127
Deg. of Freedom for Error	125
R-Squared	0.882
Adjusted R-Squared	0.881
AIC	0.594
BIC	0.639
F-Statistic	467.358
Prob (F-Statistic)	0.000
Log-Likelihood	-215.92
Model Sum of Squares	1667
Sum of Squared Errors	223
Mean Squared Error	1.78
Std. Error of Regression	1.34
Mean Abs. Dev. (MAD)	0.36
Mean Abs. % Err. (MAPE)	1.02%
Durbin-Watson Statistic	2.716
Durbin-H Statistic	0.000
Ljung-Box Statistic	22.50
Prob (Ljung-Box)	0.550
Skewness	0.109
Kurtosis	51.110
Jarque-Bera	12248.380
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mBin.Yr2018Plus	-0.787	0.250	-0.005

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResAvgUse**
Dependent Variable:	**mSales.ResAvgUse**
Date:	**December 03, 2020**
Time:	**03:30 PM**
Estimation Begin Date:	**2013:6**
Estimation End Date:	**2020:6**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructResRev.XHeat	0.749	0.020	37.770	0%
mStructResRev.XCool	1.682	0.079	21.329	0%
mStructResRev.XOther	1.100	0.037	29.768	0%
mBin.Yr2017Plus	-48.145	13.050	-3.689	0%
mBin.mar2020	-177.068	59.803	-2.961	0%
mBin.apr2020	46.349	60.248	0.769	44%

Model Statistics		**Forecast Statistics**	
Iterations	1	Forecast Observations	0
Adjusted Observations	85	Mean Abs. Dev. (MAD)	0.00
Deg. of Freedom for Error	79	Mean Abs. % Err. (MAPE)	0.00%
R-Squared	0.961	Avg. Forecast Error	0.00
Adjusted R-Squared	0.959	Mean % Error	0.00%
AIC	8.216	Root Mean-Square Error	0.00
BIC	8.389	Theil's Inequality Coefficient	0.000
F-Statistic	324.963	-- Bias Proportion	0.00%
Prob (F-Statistic)	0.000	-- Variance Proportion	0.00%
Log-Likelihood	-463.79	-- Covariance Proportion	0.00%
Model Sum of Squares	6740043		
Sum of Squared Errors	273089		
Mean Squared Error	3456.82		
Std. Error of Regression	58.79		
Mean Abs. Dev. (MAD)	43.60		
Mean Abs. % Err. (MAPE)	4.12%		
Durbin-Watson Statistic	2.432		
Durbin-H Statistic	0.000		
Ljung-Box Statistic	29.00		
Prob (Ljung-Box)	0.220		
Skewness	0.627		
Kurtosis	3.605		
Jarque-Bera	6.861		
Prob (Jarque-Bera)	0.032		

Variable	**Coefficient**	**Mean**	**Elast**
mStructResRev.XHeat	0.749	486.823	0.344
mStructResRev.XCool	1.682	101.628	0.161
mStructResRev.XOther	1.100	499.468	0.518
mBin.Yr2017Plus	-48.145	0.494	-0.022
mBin.mar2020	-177.068	0.012	-0.002
mBin.apr2020	46.349	0.012	0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComSales**
Dependent Variable:	**mSales.ComSales**
Date:	**December 03, 2020**
Time:	**03:30 PM**
Estimation Begin Date:	**2013:1**
Estimation End Date:	**2020:6**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructComRev.XHeat	14943.067	2314.551	6.456	0%
mStructComRev.XCool	6004.060	645.672	9.299	0%
mStructComRev.XOther	741.246	18.084	40.989	0%
mBin.mar2020	498.835	600.719	0.830	41%
mBin.Aft2019	-442.703	306.301	-1.445	15%
mBin.feb2020	910.127	623.525	1.460	15%
mBin.Yr2016Plus	1378.231	129.968	10.604	0%
MA(1)	0.123	0.116	1.061	29%

Model Statistics	
Iterations	11
Adjusted Observations	90
Deg. of Freedom for Error	82
R-Squared	0.699
Adjusted R-Squared	0.673
AIC	12.668
BIC	12.890
F-Statistic	23.785
Prob (F-Statistic)	0.000
Log-Likelihood	-689.76
Model Sum of Squares	55489638
Sum of Squared Errors	23912629
Mean Squared Error	291617.42
Std. Error of Regression	540.02
Mean Abs. Dev. (MAD)	368.99
Mean Abs. % Err. (MAPE)	3.56%
Durbin-Watson Statistic	1.913
Durbin-H Statistic	0.000
Ljung-Box Statistic	40.13
Prob (Ljung-Box)	0.021
Skewness	0.445
Kurtosis	4.920
Jarque-Bera	16.797
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructComRev.XHeat	14943.067	0.040	0.057
mStructComRev.XCool	6004.060	0.143	0.081
mStructComRev.XOther	741.246	11.133	0.784
mBin.mar2020	498.835	0.011	0.001
mBin.Aft2019	-442.703	0.067	-0.003
mBin.feb2020	910.127	0.011	0.001
mBin.Yr2016Plus	1378.231	0.600	0.079

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**IndSales**
Dependent Variable:	**mSales.IndSales**
Date:	**December 03, 2020**
Time:	**03:30 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:6**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
CONST	42844.210	2077.332	20.625	0%
mBin.Jan	-113.311	1035.410	-0.109	91%
mBin.Feb	-4513.889	1351.180	-3.341	0%
mBin.Mar	-2417.396	1541.028	-1.569	12%
mBin.Apr	-2079.340	1667.630	-1.247	22%
mBin.May	-71.892	1714.987	-0.042	97%
mBin.Jun	-1263.923	1740.810	-0.726	47%
mBin.Jul	191.866	1729.206	0.111	91%
mBin.Aug	1830.854	1666.505	1.099	27%
mBin.Sep	520.122	1545.523	0.337	74%
mBin.Oct	1540.881	1347.569	1.143	26%
mBin.Nov	-1701.480	1022.249	-1.664	10%
mBin.AprNov15	-9915.541	2356.474	-4.208	0%
mBin.mar2020	6125.325	3432.684	1.784	8%
mBin.apr2020	998.538	2984.566	0.335	74%
mBin.Aft2019	949.624	3057.998	0.311	76%
mBin.feb2020	4504.693	2984.500	1.509	13%
AR(1)	0.845	0.052	16.166	0%

Model Statistics	
Iterations	7
Adjusted Observations	125
Deg. of Freedom for Error	107
R-Squared	0.761
Adjusted R-Squared	0.723
AIC	16.198
BIC	16.606
F-Statistic	20.076
Prob (F-Statistic)	0.000
Log-Likelihood	-1171.77
Model Sum of Squares	3239570858
Sum of Squared Errors	1015644043
Mean Squared Error	9492000.40
Std. Error of Regression	3080.91
Mean Abs. Dev. (MAD)	2124.08
Mean Abs. % Err. (MAPE)	5.20%
Durbin-Watson Statistic	1.955
Durbin-H Statistic	0.000
Ljung-Box Statistic	25.35
Prob (Ljung-Box)	0.387
Skewness	0.890
Kurtosis	4.546
Jarque-Bera	28.959
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mBin.Jan	-113.311	0.087	-0.000
mBin.Feb	-4513.889	0.087	-0.010
mBin.Mar	-2417.396	0.087	-0.005

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Variable	Coefficient	Mean	Elast
mBin.Apr	-2079.340	0.087	-0.004
mBin.May	-71.892	0.087	-0.000
mBin.Jun	-1263.923	0.087	-0.003
mBin.Jul	191.866	0.079	0.000
mBin.Aug	1830.854	0.079	0.004
mBin.Sep	520.122	0.079	0.001
mBin.Oct	1540.881	0.079	0.003
mBin.Nov	-1701.480	0.079	-0.003
mBin.AprNov15	-9915.541	0.063	-0.015
mBin.mar2020	6125.325	0.008	0.001
mBin.apr2020	998.538	0.008	0.000
mBin.Aft2019	949.624	0.048	0.001
mBin.feb2020	4504.693	0.008	0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResCusts**
Dependent Variable:	**mSales.ResCusts**
Date:	**December 03, 2020**
Time:	**03:30 PM**
Estimation Begin Date:	**2013:1**
Estimation End Date:	**2020:6**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
Econ.HH	-290.577	430.816	-0.674	50%
mBin.Yr2013Plus	1066501.296	1086360548.787	0.001	100%
mBin.mar2020	-72.303	84.364	-0.857	39%
mBin.apr2020	11.265	84.438	0.133	89%
mBin.Aft2019	40.339	63.740	0.633	53%
AR(1)	1.000	0.011	95.036	0%
MA(1)	-0.871	0.081	-10.775	0%

Model Statistics	
Iterations	99
Adjusted Observations	89
Deg. of Freedom for Error	82
R-Squared	0.923
Adjusted R-Squared	0.917
AIC	8.858
BIC	9.054
F-Statistic	140.327
Prob (F-Statistic)	0.000
Log-Likelihood	-513.47
Model Sum of Squares	6404557
Sum of Squared Errors	534641
Mean Squared Error	6520.02
Std. Error of Regression	80.75
Mean Abs. Dev. (MAD)	57.65
Mean Abs. % Err. (MAPE)	0.26%
Durbin-Watson Statistic	2.017
Durbin-H Statistic	0.214
Ljung-Box Statistic	27.81
Prob (Ljung-Box)	0.268
Skewness	-1.115
Kurtosis	6.787
Jarque-Bera	71.637
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
Econ.HH	-290.577	22.701	-0.293
mBin.Yr2013Plus	1066501.296	1.000	47.376
mBin.mar2020	-72.303	0.011	-0.000
mBin.apr2020	11.265	0.011	0.000
mBin.Aft2019	40.339	0.067	0.000

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComCusts**
Dependent Variable:	**mSales.ComCusts**
Date:	**December 03, 2020**
Time:	**03:30 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:6**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
ResCusts.Filled	0.073	0.000	150.825	0%
AR(1)	1.004	0.009	114.137	0%
MA(1)	-0.465	0.081	-5.753	0%

Model Statistics	
Iterations	16
Adjusted Observations	90
Deg. of Freedom for Error	87
R-Squared	0.887
Adjusted R-Squared	0.884
AIC	5.349
BIC	5.432
F-Statistic	227.613
Prob (F-Statistic)	0.000
Log-Likelihood	-365.39
Model Sum of Squares	138991
Sum of Squared Errors	17709
Mean Squared Error	203.55
Std. Error of Regression	14.27
Mean Abs. Dev. (MAD)	10.28
Mean Abs. % Err. (MAPE)	0.60%
Durbin-Watson Statistic	1.924
Durbin-H Statistic	0.000
Ljung-Box Statistic	34.31
Prob (Ljung-Box)	0.079
Skewness	1.411
Kurtosis	7.126
Jarque-Bera	93.677
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
ResCusts.Filled	0.073	22511.533	0.956

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**Peaks**
Dependent Variable:	**mLoad.Peak**
Date:	**December 03, 2020**
Time:	**03:30 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mPeakVars.HeatingVar	1.026	0.098	10.503	0%
mPeakVars.CoolingVar	2.457	0.345	7.126	0%
mPeakVars.BaseVar	0.398	0.010	37.971	0%
mBin.Bef13	0.000	0.000	0.000	100%
mBin.Mar	12.090	3.476	3.478	0%
mBin.Apr	6.143	3.704	1.658	10%
mBin.May	-6.108	3.624	-1.686	10%
mBin.Oct15	-19.341	8.099	-2.388	2%

Model Statistics	
Iterations	1
Adjusted Observations	74
Deg. of Freedom for Error	66
R-Squared	0.847
Adjusted R-Squared	0.831
AIC	4.227
BIC	4.476
F-Statistic	45.662
Prob (F-Statistic)	0.000
Log-Likelihood	-253.40
Model Sum of Squares	22604
Sum of Squared Errors	4084
Mean Squared Error	61.88
Std. Error of Regression	7.87
Mean Abs. Dev. (MAD)	5.77
Mean Abs. % Err. (MAPE)	3.97%
Durbin-Watson Statistic	1.416
Durbin-H Statistic	0.000
Ljung-Box Statistic	30.72
Prob (Ljung-Box)	0.162
Skewness	-0.016
Kurtosis	2.781
Jarque-Bera	0.151
Prob (Jarque-Bera)	0.927

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mPeakVars.HeatingVar	1.026	16.497	0.115
mPeakVars.CoolingVar	2.457	3.754	0.063
mPeakVars.BaseVar	0.398	302.273	0.818
mBin.Bef13	0.000	0.000	0.000
mBin.Mar	12.090	0.081	0.007
mBin.Apr	6.143	0.081	0.003
mBin.May	-6.108	0.081	-0.003
mBin.Oct15	-19.341	0.014	-0.002

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**SLSales**
Dependent Variable:	**mSales.SLSales**
Date:	**December 03, 2020**
Time:	**03:30 PM**
Estimation Begin Date:	**2013:1**
Estimation End Date:	**2020:6**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
ResCusts.Filled	0.000	0.000	45.516	0%
AR(1)	0.928	0.037	24.850	0%

Model Statistics	
Iterations	6
Adjusted Observations	89
Deg. of Freedom for Error	87
R-Squared	0.914
Adjusted R-Squared	0.913
AIC	-4.245
BIC	-4.189
F-Statistic	460.103
Prob (F-Statistic)	0.000
Log-Likelihood	64.61
Model Sum of Squares	13
Sum of Squared Errors	1
Mean Squared Error	0.01
Std. Error of Regression	0.12
Mean Abs. Dev. (MAD)	0.07
Mean Abs. % Err. (MAPE)	0.88%
Durbin-Watson Statistic	1.742
Durbin-H Statistic	0.862
Ljung-Box Statistic	9.05
Prob (Ljung-Box)	0.997
Skewness	1.309
Kurtosis	8.953
Jarque-Bera	156.848
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
ResCusts.Filled	0.000	22511.533	1.011

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResAvgUse**
Dependent Variable:	**mSales.ResAvgUse**
Date:	**December 03, 2020**
Time:	**04:23 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mStructResRev.XHeat	0.000	0.000	0.000	100%
mStructResRev.XCool	0.000	0.000	0.000	100%
mStructResRev.XOther	1.929	0.042	46.071	0%
mBin.Yr17Plus	-110.909	60.531	-1.832	7%
mBin.Feb	35.981	62.545	0.575	57%
mBin.Mar	-210.623	65.745	-3.204	0%
mBin.Apr	-326.819	65.329	-5.003	0%
mBin.Sep16	-307.566	197.403	-1.558	12%
mBin.Yr18Plus	82.404	68.477	1.203	23%

Model Statistics	
Iterations	1
Adjusted Observations	122
Deg. of Freedom for Error	113
R-Squared	0.397
Adjusted R-Squared	0.355
AIC	10.628
BIC	10.835
F-Statistic	8.282
Prob (F-Statistic)	0.000
Log-Likelihood	-812.45
Model Sum of Squares	2867405
Sum of Squared Errors	4346800
Mean Squared Error	38467.25
Std. Error of Regression	196.13
Mean Abs. Dev. (MAD)	147.16
Mean Abs. % Err. (MAPE)	14.31%
Durbin-Watson Statistic	1.126
Durbin-H Statistic	0.000
Ljung-Box Statistic	209.46
Prob (Ljung-Box)	0.000
Skewness	0.604
Kurtosis	3.115
Jarque-Bera	7.483
Prob (Jarque-Bera)	0.024

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mStructResRev.XHeat	0.000	0.000	0.000
mStructResRev.XCool	0.000	0.000	0.000
mStructResRev.XOther	1.929	570.377	1.063
mBin.Yr17Plus	-110.909	0.311	-0.033
mBin.Feb	35.981	0.090	0.003
mBin.Mar	-210.623	0.082	-0.017
mBin.Apr	-326.819	0.082	-0.026
mBin.Sep16	-307.566	0.008	-0.002
mBin.Yr18Plus	82.404	0.213	0.017

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComSales**
Dependent Variable:	**mSales.ComSales**
Date:	**December 03, 2020**
Time:	**04:23 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructComRev.XHeat	9100.194	823.668	11.048	0%
mStructComRev.XCool	1597.829	217.674	7.340	0%
mStructComRev.XOther	277.972	6.414	43.342	0%
mBin.Bef13	-325.280	53.024	-6.135	0%
mBin.Yr18Plus	327.639	56.631	5.785	0%
mBin.Feb	-170.176	69.272	-2.457	2%
mBin.Mar	-356.540	75.283	-4.736	0%
mBin.Apr	-205.769	75.420	-2.728	1%
mBin.Oct17	1292.328	206.201	6.267	0%
MA(1)	0.178	0.103	1.730	9%

Model Statistics	
Iterations	9
Adjusted Observations	122
Deg. of Freedom for Error	112
R-Squared	0.763
Adjusted R-Squared	0.744
AIC	10.742
BIC	10.972
F-Statistic	36.041
Prob (F-Statistic)	0.000
Log-Likelihood	-818.39
Model Sum of Squares	15419205
Sum of Squared Errors	4791672
Mean Squared Error	42782.79
Std. Error of Regression	206.84
Mean Abs. Dev. (MAD)	153.47
Mean Abs. % Err. (MAPE)	4.11%
Durbin-Watson Statistic	1.951
Durbin-H Statistic	0.000
Ljung-Box Statistic	41.27
Prob (Ljung-Box)	0.016
Skewness	0.211
Kurtosis	4.194
Jarque-Bera	8.156
Prob (Jarque-Bera)	0.017

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructComRev.XHeat	9100.194	0.041	0.099
mStructComRev.XCool	1597.829	0.157	0.067
mStructComRev.XOther	277.972	11.590	0.855
mBin.Bef13	-325.280	0.295	-0.025
mBin.Yr18Plus	327.639	0.213	0.019
mBin.Feb	-170.176	0.090	-0.004
mBin.Mar	-356.540	0.082	-0.008
mBin.Apr	-205.769	0.082	-0.004
mBin.Oct17	1292.328	0.008	0.003

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**IndSales**
Dependent Variable:	**mSales.IndSales**
Date:	**December 03, 2020**
Time:	**04:23 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mBin.TrendVar	10.721	4.920	2.179	3%
mBin.Yr2014	-85.505	46.301	-1.847	7%
mBin.Jan	2270.346	82.374	27.561	0%
mBin.Feb	2147.678	83.337	25.771	0%
mBin.Mar	2320.701	82.850	28.011	0%
mBin.Apr	2089.224	82.716	25.258	0%
mBin.May	2294.679	83.079	27.620	0%
mBin.Jun	2451.323	83.443	29.377	0%
mBin.Jul	2657.969	83.807	31.715	0%
mBin.Aug	2592.608	84.172	30.801	0%
mBin.Sep	2393.832	84.537	28.317	0%
mBin.Oct	2382.420	84.902	28.061	0%
mBin.Nov	2312.277	85.268	27.118	0%
mBin.Dec	2349.796	84.638	27.763	0%
mBin.Jan18	-655.569	104.488	-6.274	0%
MA(1)	0.462	0.088	5.237	0%

Model Statistics	
Iterations	12
Adjusted Observations	122
Deg. of Freedom for Error	106
R-Squared	0.768
Adjusted R-Squared	0.735
AIC	9.513
BIC	9.881
F-Statistic	21.909
Prob (F-Statistic)	0.000
Log-Likelihood	-737.42
Model Sum of Squares	4201787
Sum of Squared Errors	1270546
Mean Squared Error	11986.28
Std. Error of Regression	109.48
Mean Abs. Dev. (MAD)	81.55
Mean Abs. % Err. (MAPE)	3.28%
Durbin-Watson Statistic	1.734
Durbin-H Statistic	0.000
Ljung-Box Statistic	31.04
Prob (Ljung-Box)	0.153
Skewness	0.151
Kurtosis	2.854
Jarque-Bera	0.573
Prob (Jarque-Bera)	0.751

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mBin.TrendVar	10.721	15.125	0.065
mBin.Yr2014	-85.505	0.098	-0.003
mBin.Jan	2270.346	0.090	0.082
mBin.Feb	2147.678	0.090	0.077
mBin.Mar	2320.701	0.082	0.076

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Variable	Coefficient	Mean	Elast
mBin.Apr	2089.224	0.082	0.068
mBin.May	2294.679	0.082	0.075
mBin.Jun	2451.323	0.082	0.080
mBin.Jul	2657.969	0.082	0.087
mBin.Aug	2592.608	0.082	0.085
mBin.Sep	2393.832	0.082	0.078
mBin.Oct	2382.420	0.082	0.078
mBin.Nov	2312.277	0.082	0.076
mBin.Dec	2349.796	0.082	0.077
mBin.Jan18	-655.569	0.008	-0.002

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResCusts**
Dependent Variable:	**mSales.ResCusts**
Date:	**December 03, 2020**
Time:	**04:23 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	12250.410	2108.596	5.810	0%
mBin.Yr18Plus	-27.139	35.758	-0.759	45%
Econ.HH	85.356	93.184	0.916	36%
AR(1)	0.722	0.067	10.811	0%

Model Statistics	
Iterations	13
Adjusted Observations	121
Deg. of Freedom for Error	117
R-Squared	0.540
Adjusted R-Squared	0.528
AIC	7.764
BIC	7.856
F-Statistic	45.703
Prob (F-Statistic)	0.000
Log-Likelihood	-637.40
Model Sum of Squares	312422
Sum of Squared Errors	266603
Mean Squared Error	2278.66
Std. Error of Regression	47.74
Mean Abs. Dev. (MAD)	36.22
Mean Abs. % Err. (MAPE)	0.26%
Durbin-Watson Statistic	2.420
Durbin-H Statistic	-1.091
Ljung-Box Statistic	39.83
Prob (Ljung-Box)	0.022
Skewness	-0.165
Kurtosis	3.324
Jarque-Bera	1.074
Prob (Jarque-Bera)	0.584

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mBin.Yr18Plus	-27.139	0.213	-0.000
Econ.HH	85.356	22.594	0.136

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComCusts**
Dependent Variable:	**mSales.ComCusts**
Date:	**December 03, 2020**
Time:	**04:23 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	477.557	189.905	2.515	1%
ResCusts.Filled	0.051	0.013	3.819	0%
mBin.Yr18Plus	5.535	7.273	0.761	45%
AR(1)	0.949	0.025	37.464	0%

Model Statistics	
Iterations	10
Adjusted Observations	121
Deg. of Freedom for Error	117
R-Squared	0.923
Adjusted R-Squared	0.921
AIC	4.005
BIC	4.097
F-Statistic	470.507
Prob (F-Statistic)	0.000
Log-Likelihood	-409.99
Model Sum of Squares	74968
Sum of Squared Errors	6214
Mean Squared Error	53.11
Std. Error of Regression	7.29
Mean Abs. Dev. (MAD)	5.09
Mean Abs. % Err. (MAPE)	0.42%
Durbin-Watson Statistic	2.500
Durbin-H Statistic	0.000
Ljung-Box Statistic	37.32
Prob (Ljung-Box)	0.041
Skewness	0.196
Kurtosis	7.161
Jarque-Bera	88.078
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
ResCusts.Filled	0.051	14178.852	0.598
mBin.Yr18Plus	5.535	0.213	0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**Peaks**
Dependent Variable:	**mLoad.Peak**
Date:	**December 03, 2020**
Time:	**04:23 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mPeakVars.HeatingVar	0.565	0.044	12.711	0%
mPeakVars.CoolingVar	1.584	0.113	13.983	0%
mPeakVars.BaseVar	0.162	0.006	27.741	0%
mBin.Mar	4.528	1.246	3.634	0%
mBin.May	-2.333	1.310	-1.780	8%
mBin.Oct	-3.077	1.295	-2.377	2%
mBin.Yr2010	1.752	1.194	1.468	14%
mBin.Yr11to15	0.952	0.708	1.344	18%

Model Statistics	
Iterations	1
Adjusted Observations	122
Deg. of Freedom for Error	114
R-Squared	0.834
Adjusted R-Squared	0.824
AIC	2.674
BIC	2.858
F-Statistic	71.485
Prob (F-Statistic)	0.000
Log-Likelihood	-328.24
Model Sum of Squares	7784
Sum of Squared Errors	1552
Mean Squared Error	13.61
Std. Error of Regression	3.69
Mean Abs. Dev. (MAD)	2.68
Mean Abs. % Err. (MAPE)	5.15%
Durbin-Watson Statistic	1.816
Durbin-H Statistic	0.000
Ljung-Box Statistic	23.22
Prob (Ljung-Box)	0.507
Skewness	0.650
Kurtosis	5.081
Jarque-Bera	30.589
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mPeakVars.HeatingVar	0.565	14.869	0.166
mPeakVars.CoolingVar	1.584	4.037	0.126
mPeakVars.BaseVar	0.162	217.208	0.696
mBin.Mar	4.528	0.082	0.007
mBin.May	-2.333	0.082	-0.004
mBin.Oct	-3.077	0.082	-0.005
mBin.Yr2010	1.752	0.098	0.003
mBin.Yr11to15	0.952	0.492	0.009

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResAvgUse**
Dependent Variable:	**mSales.ResAvgUse**
Date:	**December 03, 2020**
Time:	**04:24 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructResRev.XHeat	0.000	0.000	0.000	100%
mStructResRev.XCool	0.000	0.000	0.000	100%
mStructResRev.XOther	1.713	0.053	32.263	0%
mBin.Yr2015Plus	-65.690	52.932	-1.241	22%

Model Statistics	
Iterations	1
Adjusted Observations	128
Deg. of Freedom for Error	124
R-Squared	0.149
Adjusted R-Squared	0.128
AIC	11.430
BIC	11.519
F-Statistic	5.418
Prob (F-Statistic)	0.001
Log-Likelihood	-909.17
Model Sum of Squares	1935139
Sum of Squared Errors	11071573
Mean Squared Error	89286.88
Std. Error of Regression	298.81
Mean Abs. Dev. (MAD)	234.16
Mean Abs. % Err. (MAPE)	20.10%
Durbin-Watson Statistic	0.873
Durbin-H Statistic	0.000
Ljung-Box Statistic	509.44
Prob (Ljung-Box)	0.000
Skewness	0.800
Kurtosis	3.239
Jarque-Bera	13.942
Prob (Jarque-Bera)	0.001

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructResRev.XHeat	0.000	0.000	0.000
mStructResRev.XCool	0.000	0.000	0.000
mStructResRev.XOther	1.713	725.844	1.033
mBin.Yr2015Plus	-65.690	0.531	-0.029

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComSales**
Dependent Variable:	**mSales.ComSales**
Date:	**December 03, 2020**
Time:	**04:24 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructComRev.XHeat	8041.175	864.316	9.304	0%
mStructComRev.XCool	2373.896	234.155	10.138	0%
mStructComRev.XOther	434.474	7.514	57.825	0%
mBin.Yr2013	232.058	130.815	1.774	8%
mBin.Yr2013Plus	-2284.475	107.664	-21.219	0%
mBin.Yr2015Plus	606.723	108.490	5.592	0%
mBin.Yr2018Plus	-200.012	80.411	-2.487	1%
MA(1)	0.337	0.088	3.856	0%

Model Statistics	
Iterations	8
Adjusted Observations	128
Deg. of Freedom for Error	120
R-Squared	0.949
Adjusted R-Squared	0.947
AIC	11.108
BIC	11.286
F-Statistic	281.903
Prob (F-Statistic)	0.000
Log-Likelihood	-884.50
Model Sum of Squares	141533652
Sum of Squared Errors	7530970
Mean Squared Error	62758.08
Std. Error of Regression	250.52
Mean Abs. Dev. (MAD)	187.21
Mean Abs. % Err. (MAPE)	4.37%
Durbin-Watson Statistic	1.726
Durbin-H Statistic	0.000
Ljung-Box Statistic	42.71
Prob (Ljung-Box)	0.011
Skewness	0.639
Kurtosis	3.409
Jarque-Bera	9.593
Prob (Jarque-Bera)	0.008

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructComRev.XHeat	8041.175	0.041	0.076
mStructComRev.XCool	2373.896	0.155	0.084
mStructComRev.XOther	434.474	11.563	1.147
mBin.Yr2013	232.058	0.094	0.005
mBin.Yr2013Plus	-2284.475	0.719	-0.375
mBin.Yr2015Plus	606.723	0.531	0.074
mBin.Yr2018Plus	-200.012	0.250	-0.011

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**IndSales**
Dependent Variable:	**mSales.IndSales**
Date:	**December 03, 2020**
Time:	**04:24 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	-6956.741	1741.864	-3.994	0%
Econ.EmpNonMan	390.680	77.675	5.030	0%
mBin.Yr2013	-673.224	130.977	-5.140	0%
mBin.Yr2013Plus	2554.933	108.133	23.628	0%
mBin.Yr2015Plus	687.922	102.351	6.721	0%
mBin.Jan	-161.046	140.146	-1.149	25%
mBin.Feb	173.553	140.170	1.238	22%
mBin.Mar	3.960	140.197	0.028	98%
mBin.Apr	161.973	140.226	1.155	25%
mBin.May	-67.086	140.259	-0.478	63%
mBin.Jun	285.101	140.294	2.032	4%
mBin.Jul	454.168	140.331	3.236	0%
mBin.Aug	212.233	140.315	1.513	13%
mBin.Sep	390.909	143.338	2.727	1%
mBin.Oct	241.135	143.329	1.682	10%
mBin.Nov	316.539	143.324	2.209	3%

Model Statistics	
Iterations	1
Adjusted Observations	128
Deg. of Freedom for Error	112
R-Squared	0.961
Adjusted R-Squared	0.956
AIC	11.656
BIC	12.013
F-Statistic	185.157
Prob (F-Statistic)	0.000
Log-Likelihood	-911.61
Model Sum of Squares	285253497
Sum of Squared Errors	11503186
Mean Squared Error	102707.01
Std. Error of Regression	320.48
Mean Abs. Dev. (MAD)	243.74
Mean Abs. % Err. (MAPE)	6.60%
Durbin-Watson Statistic	0.968
Durbin-H Statistic	0.000
Ljung-Box Statistic	120.50
Prob (Ljung-Box)	0.000
Skewness	-0.081
Kurtosis	2.610
Jarque-Bera	0.950
Prob (Jarque-Bera)	0.622

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
Econ.EmpNonMan	390.680	22.619	2.112
mBin.Yr2013	-673.224	0.094	-0.015
mBin.Yr2013Plus	2554.933	0.719	0.439
mBin.Yr2015Plus	687.922	0.531	0.087
mBin.Jan	-161.046	0.086	-0.003

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Variable	Coefficient	Mean	Elast
mBin.Feb	173.553	0.086	0.004
mBin.Mar	3.960	0.086	0.000
mBin.Apr	161.973	0.086	0.003
mBin.May	-67.086	0.086	-0.001
mBin.Jun	285.101	0.086	0.006
mBin.Jul	454.168	0.086	0.009
mBin.Aug	212.233	0.086	0.004
mBin.Sep	390.909	0.078	0.007
mBin.Oct	241.135	0.078	0.005
mBin.Nov	316.539	0.078	0.006

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResCusts**
Dependent Variable:	**mSales.ResCusts**
Date:	**December 03, 2020**
Time:	**04:24 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
Econ.HH	658.199	8.106	81.203	0%
mBin.Yr2018Plus	667.977	70.447	9.482	0%
AR(1)	0.976	0.023	42.666	0%

Model Statistics	
Iterations	6
Adjusted Observations	127
Deg. of Freedom for Error	124
R-Squared	0.989
Adjusted R-Squared	0.989
AIC	8.504
BIC	8.572
F-Statistic	3754.989
Prob (F-Statistic)	0.000
Log-Likelihood	-717.23
Model Sum of Squares	54323906
Sum of Squared Errors	597975
Mean Squared Error	4822.38
Std. Error of Regression	69.44
Mean Abs. Dev. (MAD)	55.70
Mean Abs. % Err. (MAPE)	0.23%
Durbin-Watson Statistic	2.658
Durbin-H Statistic	-1.978
Ljung-Box Statistic	63.72
Prob (Ljung-Box)	0.000
Skewness	0.034
Kurtosis	2.676
Jarque-Bera	0.579
Prob (Jarque-Bera)	0.749

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
Econ.HH	658.199	37.019	1.000
mBin.Yr2018Plus	667.977	0.250	0.007

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComCusts**
Dependent Variable:	**mSales.ComCusts**
Date:	**December 03, 2020**
Time:	**04:24 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
Econ.EmpNonMan	73.339	17.486	4.194	0%
mBin.Yr2018Plus	-602.157	30.238	-19.914	0%
AR(1)	0.984	0.035	28.268	0%

Model Statistics	
Iterations	19
Adjusted Observations	127
Deg. of Freedom for Error	124
R-Squared	0.977
Adjusted R-Squared	0.977
AIC	6.828
BIC	6.895
F-Statistic	1773.783
Prob (F-Statistic)	0.000
Log-Likelihood	-610.80
Model Sum of Squares	4801167
Sum of Squared Errors	111879
Mean Squared Error	902.25
Std. Error of Regression	30.04
Mean Abs. Dev. (MAD)	11.70
Mean Abs. % Err. (MAPE)	0.92%
Durbin-Watson Statistic	2.901
Durbin-H Statistic	0.000
Ljung-Box Statistic	34.54
Prob (Ljung-Box)	0.076
Skewness	0.302
Kurtosis	35.949
Jarque-Bera	5746.603
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
Econ.EmpNonMan	73.339	22.619	1.221
mBin.Yr2018Plus	-602.157	0.250	-0.111

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**Peaks**
Dependent Variable:	**mLoad.Peak**
Date:	**December 03, 2020**
Time:	**04:24 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mPeakVars.HeatingVar	1.509	0.083	18.150	0%
mPeakVars.CoolingVar	2.807	0.213	13.198	0%
mPeakVars.BaseVar	0.122	0.006	19.796	0%
mBin.Bef12	4.202	2.490	1.688	9%
mBin.Yr2015Plus	3.617	2.185	1.655	10%
mBin.Mar	9.916	2.345	4.228	0%
MA(1)	0.308	0.090	3.423	0%

Model Statistics	
Iterations	8
Adjusted Observations	122
Deg. of Freedom for Error	115
R-Squared	0.890
Adjusted R-Squared	0.884
AIC	4.094
BIC	4.255
F-Statistic	133.121
Prob (F-Statistic)	0.000
Log-Likelihood	-415.84
Model Sum of Squares	52858
Sum of Squared Errors	6523
Mean Squared Error	56.72
Std. Error of Regression	7.53
Mean Abs. Dev. (MAD)	5.83
Mean Abs. % Err. (MAPE)	6.05%
Durbin-Watson Statistic	1.937
Durbin-H Statistic	0.000
Ljung-Box Statistic	25.81
Prob (Ljung-Box)	0.363
Skewness	0.368
Kurtosis	3.045
Jarque-Bera	2.769
Prob (Jarque-Bera)	0.250

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mPeakVars.HeatingVar	1.509	15.535	0.246
mPeakVars.CoolingVar	2.807	4.393	0.130
mPeakVars.BaseVar	0.122	455.403	0.586
mBin.Bef12	4.202	0.197	0.009
mBin.Yr2015Plus	3.617	0.508	0.019
mBin.Mar	9.916	0.082	0.009

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResAvgUse**
Dependent Variable:	**mSales.ResAvgUse**
Date:	**December 03, 2020**
Time:	**04:26 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:6**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructResRev.XHeat	0.642	0.021	30.158	0%
mStructResRev.XCool	0.959	0.065	14.762	0%
mStructResRev.XOther	1.436	0.060	24.109	0%
mBin.Yr11Plus	-53.025	28.610	-1.853	7%
mBin.Feb	-74.026	23.403	-3.163	0%
mBin.Mar	-191.206	26.475	-7.222	0%
mBin.Apr	-83.968	24.738	-3.394	0%
mBin.Nov10	327.675	67.909	4.825	0%
mBin.Oct15	-467.506	67.185	-6.958	0%
mBin.Mar2020	-92.329	76.719	-1.203	23%
mBin.Apr2020	51.026	75.270	0.678	50%
mBin.Aft2019	-28.287	24.368	-1.161	25%
MA(1)	0.329	0.096	3.416	0%

Model Statistics	
Iterations	15
Adjusted Observations	126
Deg. of Freedom for Error	113
R-Squared	0.954
Adjusted R-Squared	0.949
AIC	8.592
BIC	8.884
F-Statistic	179.592
Prob (F-Statistic)	0.000
Log-Likelihood	-707.06
Model Sum of Squares	11407700
Sum of Squared Errors	552138
Mean Squared Error	4886.17
Std. Error of Regression	69.90
Mean Abs. Dev. (MAD)	51.91
Mean Abs. % Err. (MAPE)	4.37%
Durbin-Watson Statistic	1.924
Durbin-H Statistic	0.000
Ljung-Box Statistic	76.78
Prob (Ljung-Box)	0.000
Skewness	0.543
Kurtosis	3.453
Jarque-Bera	7.274
Prob (Jarque-Bera)	0.026

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructResRev.XHeat	0.642	485.057	0.260
mStructResRev.XCool	0.959	127.535	0.102
mStructResRev.XOther	1.436	590.736	0.708
mBin.Yr11Plus	-53.025	0.905	-0.040
mBin.Feb	-74.026	0.087	-0.005
mBin.Mar	-191.206	0.087	-0.014
mBin.Apr	-83.968	0.087	-0.006
mBin.Nov10	327.675	0.008	0.002

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Variable	Coefficient	Mean	Elast
mBin.Oct15	-467.506	0.008	-0.003
mBin.Mar2020	-92.329	0.008	-0.001
mBin.Apr2020	51.026	0.008	0.000
mBin.Aft2019	-28.287	0.143	-0.003

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComSales**
Dependent Variable:	**mSales.ComSales**
Date:	**December 03, 2020**
Time:	**04:26 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:6**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructComRev.XHeat	20382.544	1502.408	13.567	0%
mStructComRev.XCool	5591.868	395.101	14.153	0%
mStructComRev.XOther	855.586	12.273	69.713	0%
mBin.Yr2010	1003.090	178.181	5.630	0%
mBin.Yr2016Plus	-679.048	119.262	-5.694	0%
mBin.Mar2020	-313.812	481.481	-0.652	52%
mBin.Apr2020	-422.931	476.056	-0.888	38%
mBin.Aft2019	324.021	165.814	1.954	5%
MA(1)	0.224	0.095	2.362	2%

Model Statistics	
Iterations	10
Adjusted Observations	125
Deg. of Freedom for Error	116
R-Squared	0.841
Adjusted R-Squared	0.830
AIC	12.344
BIC	12.547
F-Statistic	68.200
Prob (F-Statistic)	0.000
Log-Likelihood	-939.85
Model Sum of Squares	131452143
Sum of Squared Errors	24842591
Mean Squared Error	214160.26
Std. Error of Regression	462.77
Mean Abs. Dev. (MAD)	331.79
Mean Abs. % Err. (MAPE)	2.85%
Durbin-Watson Statistic	1.903
Durbin-H Statistic	0.000
Ljung-Box Statistic	29.58
Prob (Ljung-Box)	0.199
Skewness	0.031
Kurtosis	4.591
Jarque-Bera	13.211
Prob (Jarque-Bera)	0.001

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructComRev.XHeat	20382.544	0.043	0.076
mStructComRev.XCool	5591.868	0.165	0.080
mStructComRev.XOther	855.586	11.521	0.857
mBin.Yr2010	1003.090	0.096	0.008
mBin.Yr2016Plus	-679.048	0.432	-0.025
mBin.Mar2020	-313.812	0.008	-0.000
mBin.Apr2020	-422.931	0.008	-0.000
mBin.Aft2019	324.021	0.144	0.004

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**IndSales**
Dependent Variable:	**mSales.IndSales**
Date:	**December 03, 2020**
Time:	**04:26 PM**
Estimation Begin Date:	**2009:12**
Estimation End Date:	**2020:6**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
CONST	4896.399	138.135	35.447	0%
mBin.Jan	349.499	84.370	4.142	0%
mBin.Feb	49.634	110.788	0.448	66%
mBin.Mar	585.028	128.453	4.554	0%
mBin.Apr	387.094	139.830	2.768	1%
mBin.May	819.077	141.785	5.777	0%
mBin.Jun	1156.038	143.815	8.038	0%
mBin.Jul	1171.134	143.588	8.156	0%
mBin.Aug	1465.934	139.081	10.540	0%
mBin.Sep	889.167	129.770	6.852	0%
mBin.Oct	708.036	113.890	6.217	0%
mBin.Nov	164.130	86.506	1.897	6%
mBin.Yr2018Plus	460.451	182.139	2.528	1%
mBin.Apr11	-589.583	219.250	-2.689	1%
mBin.Mar2020	-258.894	248.521	-1.042	30%
mBin.Apr2020	-1262.612	249.510	-5.060	0%
AR(1)	0.766	0.063	12.253	0%

Model Statistics	
Iterations	10
Adjusted Observations	126
Deg. of Freedom for Error	109
R-Squared	0.858
Adjusted R-Squared	0.837
AIC	11.246
BIC	11.629
F-Statistic	41.059
Prob (F-Statistic)	0.000
Log-Likelihood	-870.31
Model Sum of Squares	44416694
Sum of Squared Errors	7369688
Mean Squared Error	67611.82
Std. Error of Regression	260.02
Mean Abs. Dev. (MAD)	181.57
Mean Abs. % Err. (MAPE)	3.25%
Durbin-Watson Statistic	1.666
Durbin-H Statistic	0.000
Ljung-Box Statistic	17.34
Prob (Ljung-Box)	0.834
Skewness	-0.201
Kurtosis	4.440
Jarque-Bera	11.726
Prob (Jarque-Bera)	0.003

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mBin.Jan	349.499	0.087	0.005
mBin.Feb	49.634	0.087	0.001
mBin.Mar	585.028	0.087	0.009
mBin.Apr	387.094	0.087	0.006

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Variable	Coefficient	Mean	Elast
mBin.May	819.077	0.087	0.013
mBin.Jun	1156.038	0.087	0.018
mBin.Jul	1171.134	0.079	0.016
mBin.Aug	1465.934	0.079	0.020
mBin.Sep	889.167	0.079	0.012
mBin.Oct	708.036	0.079	0.010
mBin.Nov	164.130	0.079	0.002
mBin.Yr2018Plus	460.451	0.236	0.019
mBin.Apr11	-589.583	0.008	-0.001
mBin.Mar2020	-258.894	0.008	-0.000
mBin.Apr2020	-1262.612	0.008	-0.002

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResCusts**
Dependent Variable:	**mSales.ResCusts**
Date:	**December 03, 2020**
Time:	**04:26 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:6**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
Econ.Pop	382.957	2.624	145.947	0%
mBin.year2019	77.191	66.732	1.157	25%
AR(1)	0.968	0.024	39.996	0%

Model Statistics	
Iterations	8
Adjusted Observations	125
Deg. of Freedom for Error	122
R-Squared	0.441
Adjusted R-Squared	0.432
AIC	9.099
BIC	9.167
F-Statistic	32.142
Prob (F-Statistic)	0.000
Log-Likelihood	-743.06
Model Sum of Squares	842451
Sum of Squared Errors	1065893
Mean Squared Error	8736.83
Std. Error of Regression	93.47
Mean Abs. Dev. (MAD)	69.72
Mean Abs. % Err. (MAPE)	0.15%
Durbin-Watson Statistic	2.477
Durbin-H Statistic	0.087
Ljung-Box Statistic	49.09
Prob (Ljung-Box)	0.002
Skewness	-0.084
Kurtosis	3.911
Jarque-Bera	4.472
Prob (Jarque-Bera)	0.107

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
Econ.Pop	382.957	125.293	1.005
mBin.year2019	77.191	0.095	0.000

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComCusts**
Dependent Variable:	**mSales.ComCusts**
Date:	**December 03, 2020**
Time:	**04:26 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:6**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
ResCusts.Filled	0.077	0.000	394.038	0%
mBin.year2019	10.553	21.148	0.499	62%
AR(1)	0.667	0.067	9.941	0%

Model Statistics	
Iterations	8
Adjusted Observations	125
Deg. of Freedom for Error	122
R-Squared	0.491
Adjusted R-Squared	0.483
AIC	7.066
BIC	7.133
F-Statistic	39.263
Prob (F-Statistic)	0.000
Log-Likelihood	-615.97
Model Sum of Squares	134695
Sum of Squared Errors	139511
Mean Squared Error	1143.53
Std. Error of Regression	33.82
Mean Abs. Dev. (MAD)	18.56
Mean Abs. % Err. (MAPE)	0.50%
Durbin-Watson Statistic	2.389
Durbin-H Statistic	-0.148
Ljung-Box Statistic	23.54
Prob (Ljung-Box)	0.488
Skewness	2.103
Kurtosis	30.113
Jarque-Bera	3920.908
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
ResCusts.Filled	0.077	47727.778	1.000
mBin.year2019	10.553	0.095	0.000

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**Peaks**
Dependent Variable:	**mLoad.Peak**
Date:	**December 03, 2020**
Time:	**04:26 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mPeakVars.HeatingVar	2.428	0.135	18.007	0%
mPeakVars.CoolingVar	4.426	0.363	12.203	0%
mPeakVars.BaseVar	0.233	0.007	32.260	0%
mBin.Yr11Plus	-10.968	3.796	-2.889	0%
mBin.Yr2016Plus	-9.629	2.397	-4.017	0%
mBin.Mar	25.859	4.315	5.992	0%
mBin.May	-10.391	4.248	-2.446	2%
mBin.Oct14	-33.381	12.336	-2.706	1%
mBin.Feb15	60.210	12.694	4.743	0%
mBin.Mar16	-45.340	12.917	-3.510	0%
mBin.Oct16	-28.274	12.406	-2.279	2%

Model Statistics	
Iterations	1
Adjusted Observations	122
Deg. of Freedom for Error	111
R-Squared	0.918
Adjusted R-Squared	0.911
AIC	5.083
BIC	5.336
F-Statistic	113.036
Prob (F-Statistic)	0.000
Log-Likelihood	-472.19
Model Sum of Squares	184074
Sum of Squared Errors	16433
Mean Squared Error	148.04
Std. Error of Regression	12.17
Mean Abs. Dev. (MAD)	8.59
Mean Abs. % Err. (MAPE)	4.55%
Durbin-Watson Statistic	1.628
Durbin-H Statistic	0.000
Ljung-Box Statistic	23.15
Prob (Ljung-Box)	0.511
Skewness	0.061
Kurtosis	3.582
Jarque-Bera	1.801
Prob (Jarque-Bera)	0.406

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mPeakVars.HeatingVar	2.428	13.787	0.183
mPeakVars.CoolingVar	4.426	3.593	0.087
mPeakVars.BaseVar	0.233	629.232	0.801
mBin.Yr11Plus	-10.968	0.902	-0.054
mBin.Yr2016Plus	-9.629	0.410	-0.022
mBin.Mar	25.859	0.082	0.012
mBin.May	-10.391	0.082	-0.005
mBin.Oct14	-33.381	0.008	-0.001
mBin.Feb15	60.210	0.008	0.003
mBin.Mar16	-45.340	0.008	-0.002

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Variable	Coefficient	Mean	Elast
mBin.Oct16	-28.274	0.008	-0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResAvgUse**
Dependent Variable:	**mSales.ResAvgUse**
Date:	**December 03, 2020**
Time:	**04:27 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructResRev.XHeat	1.453	0.059	24.578	0%
mStructResRev.XCool	0.467	0.036	12.983	0%
mStructResRev.XOther	1.115	0.033	33.491	0%
mBin.Yr2016Plus	-60.018	14.169	-4.236	0%
mBin.Feb	-85.647	27.054	-3.166	0%
mBin.Mar	-167.872	27.611	-6.080	0%
mBin.Apr	-106.060	28.416	-3.732	0%
mBin.Nov	95.070	27.349	3.476	0%
mBin.Sep10	-227.014	78.463	-2.893	0%
mBin.Mar2020	-103.546	81.888	-1.264	21%
mBin.Apr2020	85.314	81.904	1.042	30%

Model Statistics	
Iterations	1
Adjusted Observations	127
Deg. of Freedom for Error	116
R-Squared	0.905
Adjusted R-Squared	0.897
AIC	8.787
BIC	9.034
F-Statistic	100.538
Prob (F-Statistic)	0.000
Log-Likelihood	-727.20
Model Sum of Squares	6670001
Sum of Squared Errors	699620
Mean Squared Error	6031.21
Std. Error of Regression	77.66
Mean Abs. Dev. (MAD)	57.92
Mean Abs. % Err. (MAPE)	5.87%
Durbin-Watson Statistic	2.158
Durbin-H Statistic	0.000
Ljung-Box Statistic	35.44
Prob (Ljung-Box)	0.062
Skewness	0.442
Kurtosis	3.635
Jarque-Bera	6.277
Prob (Jarque-Bera)	0.043

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructResRev.XHeat	1.453	166.400	0.245
mStructResRev.XCool	0.467	228.506	0.108
mStructResRev.XOther	1.115	620.448	0.700
mBin.Yr2016Plus	-60.018	0.433	-0.026
mBin.Feb	-85.647	0.087	-0.008
mBin.Mar	-167.872	0.087	-0.015
mBin.Apr	-106.060	0.087	-0.009
mBin.Nov	95.070	0.079	0.008
mBin.Sep10	-227.014	0.008	-0.002
mBin.Mar2020	-103.546	0.008	-0.001

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Variable	**Coefficient**	**Mean**	**Elast**
mBin.Apr2020	85.314	0.008	0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComSales**
Dependent Variable:	**mSales.ComSales**
Date:	**December 03, 2020**
Time:	**04:27 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mStructComRev.XHeat	7130.232	585.284	12.183	0%
mStructComRev.XCool	1530.532	152.262	10.052	0%
mStructComRev.XOther	247.125	5.017	49.254	0%
mBin.Yr2013	-260.475	71.970	-3.619	0%
mBin.Yr2015Plus	258.198	37.879	6.816	0%
mBin.Sep10	-1090.486	219.788	-4.962	0%
mBin.Dec13	-855.226	227.437	-3.760	0%
mBin.Mar2020	-347.220	218.410	-1.590	11%
mBin.Apr2020	-311.621	218.491	-1.426	16%

Model Statistics	
Iterations	1
Adjusted Observations	127
Deg. of Freedom for Error	118
R-Squared	0.765
Adjusted R-Squared	0.749
AIC	10.822
BIC	11.024
F-Statistic	42.733
Prob (F-Statistic)	0.000
Log-Likelihood	-858.40
Model Sum of Squares	18001468
Sum of Squared Errors	5523063
Mean Squared Error	46805.62
Std. Error of Regression	216.35
Mean Abs. Dev. (MAD)	153.23
Mean Abs. % Err. (MAPE)	4.24%
Durbin-Watson Statistic	1.826
Durbin-H Statistic	0.000
Ljung-Box Statistic	22.91
Prob (Ljung-Box)	0.525
Skewness	0.118
Kurtosis	5.289
Jarque-Bera	28.020
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mStructComRev.XHeat	7130.232	0.044	0.088
mStructComRev.XCool	1530.532	0.169	0.073
mStructComRev.XOther	247.125	11.652	0.813
mBin.Yr2013	-260.475	0.094	-0.007
mBin.Yr2015Plus	258.198	0.528	0.038
mBin.Sep10	-1090.486	0.008	-0.002
mBin.Dec13	-855.226	0.008	-0.002
mBin.Mar2020	-347.220	0.008	-0.001
mBin.Apr2020	-311.621	0.008	-0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**IndSales**
Dependent Variable:	**mSales.IndSales**
Date:	**December 03, 2020**
Time:	**04:27 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	1102.720	71.721	15.375	0%
mBin.Jan	38.411	44.397	0.865	39%
mBin.Feb	-97.765	55.122	-1.774	8%
mBin.Mar	84.915	62.762	1.353	18%
mBin.Apr	96.229	67.107	1.434	15%
mBin.May	214.929	68.897	3.120	0%
mBin.Jun	187.006	69.811	2.679	1%
mBin.Jul	368.331	69.201	5.323	0%
mBin.Aug	302.426	66.992	4.514	0%
mBin.Sep	59.550	62.504	0.953	34%
mBin.Oct	79.357	55.026	1.442	15%
mBin.Nov	17.014	42.633	0.399	69%
mBin.Dec13	981.155	100.333	9.779	0%
mBin.Dec14	-798.667	100.300	-7.963	0%
mBin.Mar2020	-99.501	113.394	-0.877	38%
mBin.Apr2020	-73.498	113.393	-0.648	52%
mBin.Aft2019	-103.422	118.725	-0.871	39%
AR(1)	0.809	0.058	13.935	0%

Model Statistics	
Iterations	8
Adjusted Observations	126
Deg. of Freedom for Error	108
R-Squared	0.826
Adjusted R-Squared	0.798
AIC	9.735
BIC	10.140
F-Statistic	30.097
Prob (F-Statistic)	-0.000
Log-Likelihood	-774.10
Model Sum of Squares	7581077
Sum of Squared Errors	1600223
Mean Squared Error	14816.88
Std. Error of Regression	121.72
Mean Abs. Dev. (MAD)	76.95
Mean Abs. % Err. (MAPE)	6.42%
Durbin-Watson Statistic	2.296
Durbin-H Statistic	0.000
Ljung-Box Statistic	30.43
Prob (Ljung-Box)	0.171
Skewness	0.642
Kurtosis	8.886
Jarque-Bera	190.514
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mBin.Jan	38.411	0.087	0.003
mBin.Feb	-97.765	0.087	-0.007
mBin.Mar	84.915	0.087	0.006

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Variable	Coefficient	Mean	Elast
mBin.Apr	96.229	0.087	0.007
mBin.May	214.929	0.087	0.015
mBin.Jun	187.006	0.087	0.013
mBin.Jul	368.331	0.087	0.026
mBin.Aug	302.426	0.079	0.020
mBin.Sep	59.550	0.079	0.004
mBin.Oct	79.357	0.079	0.005
mBin.Nov	17.014	0.079	0.001
mBin.Dec13	981.155	0.008	0.006
mBin.Dec14	-798.667	0.008	-0.005
mBin.Mar2020	-99.501	0.008	-0.001
mBin.Apr2020	-73.498	0.008	-0.000
mBin.Aft2019	-103.422	0.055	-0.005

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResCusts**
Dependent Variable:	**mSales.ResCusts**
Date:	**December 03, 2020**
Time:	**04:27 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	14666.046	268.394	54.644	0%
Econ.HH	101.915	17.451	5.840	0%
mBin.Aft2019	31.723	17.460	1.817	7%
MA(1)	0.562	0.076	7.385	0%

Model Statistics	
Iterations	16
Adjusted Observations	127
Deg. of Freedom for Error	123
R-Squared	0.539
Adjusted R-Squared	0.528
AIC	6.785
BIC	6.875
F-Statistic	47.987
Prob (F-Statistic)	0.000
Log-Likelihood	-607.08
Model Sum of Squares	123494
Sum of Squared Errors	105512
Mean Squared Error	857.82
Std. Error of Regression	29.29
Mean Abs. Dev. (MAD)	21.79
Mean Abs. % Err. (MAPE)	0.13%
Durbin-Watson Statistic	1.381
Durbin-H Statistic	1.166
Ljung-Box Statistic	65.51
Prob (Ljung-Box)	0.000
Skewness	0.172
Kurtosis	4.082
Jarque-Bera	6.817
Prob (Jarque-Bera)	0.033

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
Econ.HH	101.915	15.357	0.096
mBin.Aft2019	31.723	0.055	0.000

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComCusts**
Dependent Variable:	**mSales.ComCusts**
Date:	**December 03, 2020**
Time:	**04:27 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	1266.199	433.840	2.919	0%
ResCusts.Filled	-0.011	0.026	-0.432	67%
AR(1)	0.983	0.016	60.364	0%

Model Statistics	
Iterations	9
Adjusted Observations	126
Deg. of Freedom for Error	123
R-Squared	0.967
Adjusted R-Squared	0.966
AIC	4.100
BIC	4.168
F-Statistic	1795.475
Prob (F-Statistic)	0.000
Log-Likelihood	-434.10
Model Sum of Squares	211689
Sum of Squared Errors	7251
Mean Squared Error	58.95
Std. Error of Regression	7.68
Mean Abs. Dev. (MAD)	4.95
Mean Abs. % Err. (MAPE)	0.43%
Durbin-Watson Statistic	2.479
Durbin-H Statistic	0.000
Ljung-Box Statistic	20.01
Prob (Ljung-Box)	0.696
Skewness	0.076
Kurtosis	14.231
Jarque-Bera	662.298
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
ResCusts.Filled	-0.011	16231.858	-0.163

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**Peaks**
Dependent Variable:	**mLoad.Peak**
Date:	**December 03, 2020**
Time:	**04:27 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mPeakVars.HeatingVar	0.631	0.039	16.098	0%
mPeakVars.CoolingVar	1.374	0.111	12.378	0%
mPeakVars.BaseVar	0.217	0.005	42.278	0%
mBin.Yr2016Plus	-2.847	0.736	-3.869	0%

Model Statistics	
Iterations	1
Adjusted Observations	122
Deg. of Freedom for Error	118
R-Squared	0.824
Adjusted R-Squared	0.820
AIC	2.802
BIC	2.894
F-Statistic	138.319
Prob (F-Statistic)	0.000
Log-Likelihood	-340.02
Model Sum of Squares	8826
Sum of Squared Errors	1882
Mean Squared Error	15.95
Std. Error of Regression	3.99
Mean Abs. Dev. (MAD)	3.04
Mean Abs. % Err. (MAPE)	5.80%
Durbin-Watson Statistic	1.780
Durbin-H Statistic	0.000
Ljung-Box Statistic	30.84
Prob (Ljung-Box)	0.159
Skewness	0.087
Kurtosis	3.669
Jarque-Bera	2.428
Prob (Jarque-Bera)	0.297

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mPeakVars.HeatingVar	0.631	13.265	0.161
mPeakVars.CoolingVar	1.374	3.673	0.097
mPeakVars.BaseVar	0.217	181.746	0.763
mBin.Yr2016Plus	-2.847	0.410	-0.023

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResAvgUse**
Dependent Variable:	**mSales.ResAvgUse**
Date:	**December 03, 2020**
Time:	**04:28 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructResRev.XHeat	1.285	0.024	53.964	0%
mStructResRev.XCool	0.767	0.020	37.682	0%
mStructResRev.XOther	1.059	0.018	60.462	0%
mBin.Yr2015Plus	-58.303	11.069	-5.267	0%
mBin.Yr2018Plus	-31.180	12.982	-2.402	2%
mBin.Mar	-148.328	17.259	-8.594	0%

Model Statistics	
Iterations	1
Adjusted Observations	127
Deg. of Freedom for Error	121
R-Squared	0.967
Adjusted R-Squared	0.966
AIC	7.973
BIC	8.107
F-Statistic	600.322
Prob (F-Statistic)	0.000
Log-Likelihood	-680.48
Model Sum of Squares	9978184
Sum of Squared Errors	335198
Mean Squared Error	2770.23
Std. Error of Regression	52.63
Mean Abs. Dev. (MAD)	40.47
Mean Abs. % Err. (MAPE)	3.28%
Durbin-Watson Statistic	2.008
Durbin-H Statistic	0.000
Ljung-Box Statistic	11.33
Prob (Ljung-Box)	0.986
Skewness	0.324
Kurtosis	3.123
Jarque-Bera	2.297
Prob (Jarque-Bera)	0.317

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructResRev.XHeat	1.285	250.219	0.256
mStructResRev.XCool	0.767	277.188	0.170
mStructResRev.XOther	1.059	728.215	0.615
mBin.Yr2015Plus	-58.303	0.528	-0.025
mBin.Yr2018Plus	-31.180	0.244	-0.006
mBin.Mar	-148.328	0.087	-0.010

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComSales**
Dependent Variable:	**mSales.ComSales**
Date:	**December 03, 2020**
Time:	**04:28 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructComRev.XHeat	12748.719	886.300	14.384	0%
mStructComRev.XCool	7178.637	283.561	25.316	0%
mStructComRev.XOther	630.682	7.148	88.229	0%
mBin.Yr2018Plus	141.518	74.007	1.912	6%
MA(1)	0.303	0.089	3.391	0%

Model Statistics	
Iterations	8
Adjusted Observations	127
Deg. of Freedom for Error	122
R-Squared	0.911
Adjusted R-Squared	0.909
AIC	11.297
BIC	11.409
F-Statistic	251.168
Prob (F-Statistic)	0.000
Log-Likelihood	-892.57
Model Sum of Squares	97373641
Sum of Squared Errors	9459490
Mean Squared Error	77536.81
Std. Error of Regression	278.45
Mean Abs. Dev. (MAD)	208.43
Mean Abs. % Err. (MAPE)	2.34%
Durbin-Watson Statistic	1.938
Durbin-H Statistic	0.000
Ljung-Box Statistic	22.00
Prob (Ljung-Box)	0.579
Skewness	-0.298
Kurtosis	3.907
Jarque-Bera	6.234
Prob (Jarque-Bera)	0.044

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructComRev.XHeat	12748.719	0.042	0.060
mStructComRev.XCool	7178.637	0.151	0.121
mStructComRev.XOther	630.682	11.604	0.815
mBin.Yr2018Plus	141.518	0.244	0.004

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**IndSales**
Dependent Variable:	**mSales.IndSales**
Date:	**December 03, 2020**
Time:	**04:28 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mBin.Jan	13585.922	636.485	21.345	0%
mBin.Feb	12626.755	631.109	20.007	0%
mBin.Mar	13682.424	626.901	21.826	0%
mBin.Apr	13024.138	623.609	20.885	0%
mBin.May	13342.320	621.036	21.484	0%
mBin.Jun	13388.120	619.024	21.628	0%
mBin.Jul	13413.565	617.452	21.724	0%
mBin.Aug	14540.401	622.809	23.346	0%
mBin.Sep	13940.528	627.019	22.233	0%
mBin.Oct	14477.511	630.319	22.969	0%
mBin.Nov	13256.627	632.901	20.946	0%
mBin.Dec	12355.691	634.917	19.460	0%
AR(1)	0.885	0.044	20.046	0%

Model Statistics	
Iterations	5
Adjusted Observations	126
Deg. of Freedom for Error	113
R-Squared	0.814
Adjusted R-Squared	0.794
AIC	13.341
BIC	13.634
F-Statistic	38.004
Prob (F-Statistic)	0.000
Log-Likelihood	-1006.28
Model Sum of Squares	278898655
Sum of Squared Errors	63790473
Mean Squared Error	564517.46
Std. Error of Regression	751.34
Mean Abs. Dev. (MAD)	453.66
Mean Abs. % Err. (MAPE)	3.90%
Durbin-Watson Statistic	1.697
Durbin-H Statistic	0.000
Ljung-Box Statistic	23.28
Prob (Ljung-Box)	0.503
Skewness	-0.427
Kurtosis	14.254
Jarque-Bera	668.790
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mBin.Jan	13585.922	0.087	0.087
mBin.Feb	12626.755	0.087	0.081
mBin.Mar	13682.424	0.087	0.088
mBin.Apr	13024.138	0.087	0.084
mBin.May	13342.320	0.087	0.086
mBin.Jun	13388.120	0.087	0.086
mBin.Jul	13413.565	0.087	0.086
mBin.Aug	14540.401	0.079	0.085

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Variable	Coefficient	Mean	Elast
mBin.Sep	13940.528	0.079	0.081
mBin.Oct	14477.511	0.079	0.085
mBin.Nov	13256.627	0.079	0.077
mBin.Dec	12355.691	0.079	0.072

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResCusts**
Dependent Variable:	**mSales.ResCusts**
Date:	**December 03, 2020**
Time:	**04:28 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
Econ.HH	846.546	2.765	306.172	0%
AR(1)	0.925	0.033	27.644	0%

Model Statistics	
Iterations	4
Adjusted Observations	126
Deg. of Freedom for Error	124
R-Squared	0.992
Adjusted R-Squared	0.992
AIC	9.015
BIC	9.060
F-Statistic	7919.518
Prob (F-Statistic)	0.000
Log-Likelihood	-744.74
Model Sum of Squares	128270212
Sum of Squared Errors	1004197
Mean Squared Error	8098.36
Std. Error of Regression	89.99
Mean Abs. Dev. (MAD)	59.24
Mean Abs. % Err. (MAPE)	0.18%
Durbin-Watson Statistic	2.432
Durbin-H Statistic	0.037
Ljung-Box Statistic	26.27
Prob (Ljung-Box)	0.340
Skewness	-0.888
Kurtosis	13.863
Jarque-Bera	636.114
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
Econ.HH	846.546	38.327	1.000

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComCusts**
Dependent Variable:	**mSales.ComCusts**
Date:	**December 03, 2020**
Time:	**04:28 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
ResCusts.Filled	0.060	0.001	58.918	0%
AR(1)	0.925	0.034	26.901	0%

Model Statistics	
Iterations	5
Adjusted Observations	126
Deg. of Freedom for Error	124
R-Squared	0.589
Adjusted R-Squared	0.585
AIC	6.601
BIC	6.646
F-Statistic	88.685
Prob (F-Statistic)	-0.000
Log-Likelihood	-592.65
Model Sum of Squares	128484
Sum of Squared Errors	89824
Mean Squared Error	724.39
Std. Error of Regression	26.91
Mean Abs. Dev. (MAD)	14.79
Mean Abs. % Err. (MAPE)	0.74%
Durbin-Watson Statistic	2.233
Durbin-H Statistic	0.000
Ljung-Box Statistic	19.82
Prob (Ljung-Box)	0.707
Skewness	2.308
Kurtosis	17.563
Jarque-Bera	1225.355
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
ResCusts.Filled	0.060	32436.543	0.989

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**Peaks**
Dependent Variable:	**mLoad.Peak**
Date:	**December 03, 2020**
Time:	**04:28 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mPeakVars.HeatingVar	2.038	0.087	23.316	0%
mPeakVars.CoolingVar	3.674	0.171	21.455	0%
mPeakVars.BaseVar	0.253	0.006	42.516	0%
mBin.Yr2016Plus	-4.615	1.556	-2.966	0%
mBin.Mar	15.557	2.921	5.325	0%
mBin.May	-5.787	2.827	-2.047	4%
mBin.Nov	-8.687	2.865	-3.032	0%
mBin.Mar16	-21.405	8.691	-2.463	2%
mBin.Apr18	24.961	8.413	2.967	0%

Model Statistics	
Iterations	1
Adjusted Observations	122
Deg. of Freedom for Error	113
R-Squared	0.912
Adjusted R-Squared	0.906
AIC	4.276
BIC	4.483
F-Statistic	130.549
Prob (F-Statistic)	0.000
Log-Likelihood	-424.94
Model Sum of Squares	78738
Sum of Squared Errors	7573
Mean Squared Error	67.01
Std. Error of Regression	8.19
Mean Abs. Dev. (MAD)	6.35
Mean Abs. % Err. (MAPE)	4.32%
Durbin-Watson Statistic	1.858
Durbin-H Statistic	0.000
Ljung-Box Statistic	25.33
Prob (Ljung-Box)	0.388
Skewness	-0.160
Kurtosis	2.458
Jarque-Bera	2.013
Prob (Jarque-Bera)	0.365

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mPeakVars.HeatingVar	2.038	13.247	0.185
mPeakVars.CoolingVar	3.674	5.944	0.150
mPeakVars.BaseVar	0.253	389.914	0.676
mBin.Yr2016Plus	-4.615	0.410	-0.013
mBin.Mar	15.557	0.082	0.009
mBin.May	-5.787	0.082	-0.003
mBin.Nov	-8.687	0.082	-0.005
mBin.Mar16	-21.405	0.008	-0.001
mBin.Apr18	24.961	0.008	0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**SLSales**
Dependent Variable:	**mSales.SLSales**
Date:	**December 03, 2020**
Time:	**04:28 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	138.280	1.766	78.316	0%
mBin.Yr2016Plus	-21.703	2.362	-9.188	0%
AR(1)	0.751	0.066	11.319	0%

Model Statistics	
Iterations	9
Adjusted Observations	126
Deg. of Freedom for Error	123
R-Squared	0.905
Adjusted R-Squared	0.903
AIC	2.740
BIC	2.808
F-Statistic	583.306
Prob (F-Statistic)	0.000
Log-Likelihood	-348.43
Model Sum of Squares	17654
Sum of Squared Errors	1861
Mean Squared Error	15.13
Std. Error of Regression	3.89
Mean Abs. Dev. (MAD)	1.43
Mean Abs. % Err. (MAPE)	1.17%
Durbin-Watson Statistic	2.303
Durbin-H Statistic	0.289
Ljung-Box Statistic	21.67
Prob (Ljung-Box)	0.599
Skewness	2.851
Kurtosis	40.617
Jarque-Bera	7599.703
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mBin.Yr2016Plus	-21.703	0.433	-0.073

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**SLCusts**
Dependent Variable:	**mSales.SLCusts**
Date:	**December 03, 2020**
Time:	**04:28 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	33.276	0.585	56.913	0%
mBin.Yr2018Plus	-0.321	0.599	-0.536	59%
AR(1)	0.897	0.040	22.370	0%

Model Statistics	
Iterations	7
Adjusted Observations	126
Deg. of Freedom for Error	123
R-Squared	0.816
Adjusted R-Squared	0.813
AIC	-0.852
BIC	-0.784
F-Statistic	272.171
Prob (F-Statistic)	0.000
Log-Likelihood	-122.14
Model Sum of Squares	227
Sum of Squared Errors	51
Mean Squared Error	0.42
Std. Error of Regression	0.65
Mean Abs. Dev. (MAD)	0.28
Mean Abs. % Err. (MAPE)	0.85%
Durbin-Watson Statistic	2.044
Durbin-H Statistic	-0.689
Ljung-Box Statistic	19.77
Prob (Ljung-Box)	0.710
Skewness	-2.115
Kurtosis	28.875
Jarque-Bera	3608.761
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mBin.Yr2018Plus	-0.321	0.244	-0.002

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResAvgUse**
Dependent Variable:	**mSales.ResAvgUse**
Date:	**December 03, 2020**
Time:	**04:30 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructResRev.XHeat	1.958	0.086	22.687	0%
mStructResRev.XCool	0.917	0.041	22.159	0%
mStructResRev.XOther	0.876	0.032	27.229	0%
mBin.Yr16Plus	-64.995	16.952	-3.834	0%
mBin.Feb13	-253.381	94.141	-2.692	1%
mBin.Jun13	-288.837	93.550	-3.088	0%
mBin.Feb14	-279.458	95.442	-2.928	0%
mBin.Oct14	-262.171	94.022	-2.788	1%
mBin.Mar15	-276.690	93.909	-2.946	0%
mBin.Feb19	-263.333	94.172	-2.796	1%

Model Statistics	
Iterations	1
Adjusted Observations	128
Deg. of Freedom for Error	118
R-Squared	0.851
Adjusted R-Squared	0.840
AIC	9.131
BIC	9.353
F-Statistic	67.639
Prob (F-Statistic)	0.000
Log-Likelihood	-755.98
Model Sum of Squares	5794410
Sum of Squared Errors	1010872
Mean Squared Error	8566.71
Std. Error of Regression	92.56
Mean Abs. Dev. (MAD)	66.35
Mean Abs. % Err. (MAPE)	6.04%
Durbin-Watson Statistic	2.102
Durbin-H Statistic	0.000
Ljung-Box Statistic	38.30
Prob (Ljung-Box)	0.032
Skewness	0.266
Kurtosis	3.168
Jarque-Bera	1.661
Prob (Jarque-Bera)	0.436

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructResRev.XHeat	1.958	149.262	0.262
mStructResRev.XCool	0.917	244.594	0.201
mStructResRev.XOther	0.876	731.425	0.574
mBin.Yr16Plus	-64.995	0.438	-0.025
mBin.Feb13	-253.381	0.008	-0.002
mBin.Jun13	-288.837	0.008	-0.002
mBin.Feb14	-279.458	0.008	-0.002
mBin.Oct14	-262.171	0.008	-0.002
mBin.Mar15	-276.690	0.008	-0.002
mBin.Feb19	-263.333	0.008	-0.002

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComSales**
Dependent Variable:	**mSales.ComSales**
Date:	**December 03, 2020**
Time:	**04:30 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructComRev.XHeat	26151.143	3830.939	6.826	0%
mStructComRev.XCool	11203.560	971.565	11.531	0%
mStructComRev.XOther	1283.994	29.708	43.220	0%
mBin.Oct12Sep13	3101.726	401.429	7.727	0%
mBin.Yr2015Plus	2141.154	250.413	8.550	0%
mBin.Yr18Plus	-868.091	267.690	-3.243	0%
mBin.Feb12	-3690.785	1114.427	-3.312	0%
mBin.Sep12	-3968.721	1112.924	-3.566	0%
mBin.Feb13	-7236.258	1165.701	-6.208	0%
mBin.Jun13	17271.079	1158.239	14.912	0%
mBin.Sep13	-4149.230	1160.803	-3.574	0%
mBin.Mar14	3920.082	1117.485	3.508	0%
mBin.Sep14	-2707.048	1112.314	-2.434	2%

Model Statistics	
Iterations	1
Adjusted Observations	128
Deg. of Freedom for Error	115
R-Squared	0.861
Adjusted R-Squared	0.846
AIC	14.092
BIC	14.382
F-Statistic	54.631
Prob (F-Statistic)	0.000
Log-Likelihood	-1070.52
Model Sum of Squares	850806478
Sum of Squared Errors	137766161
Mean Squared Error	1197966.62
Std. Error of Regression	1094.52
Mean Abs. Dev. (MAD)	781.17
Mean Abs. % Err. (MAPE)	4.17%
Durbin-Watson Statistic	1.607
Durbin-H Statistic	0.000
Ljung-Box Statistic	31.82
Prob (Ljung-Box)	0.131
Skewness	0.251
Kurtosis	3.143
Jarque-Bera	1.455
Prob (Jarque-Bera)	0.483

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructComRev.XHeat	26151.143	0.042	0.058
mStructComRev.XCool	11203.560	0.156	0.092
mStructComRev.XOther	1283.994	11.681	0.787
mBin.Oct12Sep13	3101.726	0.094	0.015
mBin.Yr2015Plus	2141.154	0.531	0.060
mBin.Yr18Plus	-868.091	0.250	-0.011
mBin.Feb12	-3690.785	0.008	-0.002
mBin.Sep12	-3968.721	0.008	-0.002

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Variable	Coefficient	Mean	Elast
mBin.Feb13	-7236.258	0.008	-0.003
mBin.Jun13	17271.079	0.008	0.007
mBin.Sep13	-4149.230	0.008	-0.002
mBin.Mar14	3920.082	0.008	0.002
mBin.Sep14	-2707.048	0.008	-0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**IndSales**
Dependent Variable:	**mSales.IndSales**
Date:	**December 03, 2020**
Time:	**04:30 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mEcon.ManEmp	1860.170	805.492	2.309	2%
mBin.Yr2015	-12434.626	2820.390	-4.409	0%
mBin.Yr18Plus	981.534	2338.874	0.420	68%
mBin.Jan	75717.096	11804.858	6.414	0%
mBin.Feb	72263.088	11832.715	6.107	0%
mBin.Mar	77555.459	11848.980	6.545	0%
mBin.Apr	74136.203	11890.409	6.235	0%
mBin.May	76469.164	11881.513	6.436	0%
mBin.Jun	71966.564	11897.781	6.049	0%
mBin.Jul	75203.664	11914.049	6.312	0%
mBin.Aug	78900.882	11929.762	6.614	0%
mBin.Sep	67478.740	12006.814	5.620	0%
mBin.Oct	69581.424	12040.459	5.779	0%
mBin.Nov	73634.233	12059.585	6.106	0%
mBin.Dec	71876.946	12042.575	5.969	0%
mBin.Apr13	-13031.616	6905.585	-1.887	6%
MA(1)	0.313	0.090	3.470	0%

Model Statistics	
Iterations	8
Adjusted Observations	128
Deg. of Freedom for Error	111
R-Squared	0.466
Adjusted R-Squared	0.389
AIC	17.807
BIC	18.186
F-Statistic	5.692
Prob (F-Statistic)	0.000
Log-Likelihood	-1304.30
Model Sum of Squares	4633272164
Sum of Squared Errors	5315292945
Mean Squared Error	47885522.03
Std. Error of Regression	6919.94
Mean Abs. Dev. (MAD)	4820.19
Mean Abs. % Err. (MAPE)	4.97%
Durbin-Watson Statistic	1.910
Durbin-H Statistic	0.000
Ljung-Box Statistic	15.42
Prob (Ljung-Box)	0.908
Skewness	-1.140
Kurtosis	6.046
Jarque-Bera	77.222
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mEcon.ManEmp	1860.170	15.055	0.278
mBin.Yr2015	-12434.626	0.094	-0.012
mBin.Yr18Plus	981.534	0.250	0.002
mBin.Jan	75717.096	0.086	0.065

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Variable	Coefficient	Mean	Elast
mBin.Feb	72263.088	0.086	0.062
mBin.Mar	77555.459	0.086	0.066
mBin.Apr	74136.203	0.086	0.063
mBin.May	76469.164	0.086	0.065
mBin.Jun	71966.564	0.086	0.061
mBin.Jul	75203.664	0.086	0.064
mBin.Aug	78900.882	0.086	0.067
mBin.Sep	67478.740	0.078	0.052
mBin.Oct	69581.424	0.078	0.054
mBin.Nov	73634.233	0.078	0.057
mBin.Dec	71876.946	0.078	0.056
mBin.Apr13	-13031.616	0.008	-0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**PubBldgSales**
Dependent Variable:	**mSales.PubBldgSales**
Date:	**December 03, 2020**
Time:	**04:30 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mBin.Yr2012	-117.752	55.620	-2.117	4%
mBin.Yr18Plus	26.428	38.803	0.681	50%
mBin.Jan	2209.376	44.762	49.358	0%
mBin.Feb	2523.606	45.169	55.871	0%
mBin.Mar	2277.186	45.169	50.415	0%
mBin.Apr	2123.723	46.720	45.456	0%
mBin.May	1794.526	45.169	39.729	0%
mBin.Jun	2034.513	45.169	45.043	0%
mBin.Jul	1800.481	45.169	39.861	0%
mBin.Aug	1981.808	45.169	43.876	0%
mBin.Sep	2387.768	46.523	51.324	0%
mBin.Oct	2231.437	46.675	47.808	0%
mBin.Nov	1984.028	46.675	42.507	0%
mBin.Dec	2055.384	46.198	44.491	0%
mBin.Apr11	354.136	125.772	2.816	1%
MA(1)	0.430	0.086	4.997	0%

Model Statistics	
Iterations	9
Adjusted Observations	128
Deg. of Freedom for Error	112
R-Squared	0.773
Adjusted R-Squared	0.743
AIC	9.886
BIC	10.242
F-Statistic	23.902
Prob (F-Statistic)	0.000
Log-Likelihood	-798.32
Model Sum of Squares	6688542
Sum of Squared Errors	1958784
Mean Squared Error	17489.14
Std. Error of Regression	132.25
Mean Abs. Dev. (MAD)	91.53
Mean Abs. % Err. (MAPE)	4.50%
Durbin-Watson Statistic	1.830
Durbin-H Statistic	0.000
Ljung-Box Statistic	33.06
Prob (Ljung-Box)	0.103
Skewness	-0.560
Kurtosis	5.184
Jarque-Bera	32.131
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mBin.Yr2012	-117.752	0.094	-0.005
mBin.Yr18Plus	26.428	0.250	0.003
mBin.Jan	2209.376	0.086	0.090
mBin.Feb	2523.606	0.086	0.103
mBin.Mar	2277.186	0.086	0.093

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Variable	Coefficient	Mean	Elast
mBin.Apr	2123.723	0.086	0.086
mBin.May	1794.526	0.086	0.073
mBin.Jun	2034.513	0.086	0.083
mBin.Jul	1800.481	0.086	0.073
mBin.Aug	1981.808	0.086	0.081
mBin.Sep	2387.768	0.078	0.088
mBin.Oct	2231.437	0.078	0.082
mBin.Nov	1984.028	0.078	0.073
mBin.Dec	2055.384	0.078	0.076
mBin.Apr11	354.136	0.008	0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResCusts**
Dependent Variable:	**mSales.ResCusts**
Date:	**December 03, 2020**
Time:	**04:30 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
Econ.Pop	-411.601	611.123	-0.674	50%
AR(1)	1.001	0.000	9918.420	0%

Model Statistics	
Iterations	20
Adjusted Observations	127
Deg. of Freedom for Error	125
R-Squared	0.995
Adjusted R-Squared	0.995
AIC	9.652
BIC	9.697
F-Statistic	12319.834
Prob (F-Statistic)	0.000
Log-Likelihood	-791.12
Model Sum of Squares	377329326
Sum of Squared Errors	1914237
Mean Squared Error	15313.90
Std. Error of Regression	123.75
Mean Abs. Dev. (MAD)	98.60
Mean Abs. % Err. (MAPE)	0.17%
Durbin-Watson Statistic	2.174
Durbin-H Statistic	0.135
Ljung-Box Statistic	153.98
Prob (Ljung-Box)	0.000
Skewness	-0.226
Kurtosis	2.689
Jarque-Bera	1.591
Prob (Jarque-Bera)	0.451

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
Econ.Pop	-411.601	242.404	-1.752

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComCusts**
Dependent Variable:	**mSales.ComCusts**
Date:	**December 03, 2020**
Time:	**04:30 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mEcon.NManEmp	13.982	4.552	3.072	0%
ResCusts.Filled	0.018	0.008	2.331	2%
AR(1)	0.712	0.063	11.232	0%

Model Statistics	
Iterations	9
Adjusted Observations	127
Deg. of Freedom for Error	124
R-Squared	0.888
Adjusted R-Squared	0.886
AIC	7.675
BIC	7.742
F-Statistic	326.180
Prob (F-Statistic)	0.000
Log-Likelihood	-664.55
Model Sum of Squares	2058500
Sum of Squared Errors	260852
Mean Squared Error	2103.65
Std. Error of Regression	45.87
Mean Abs. Dev. (MAD)	22.84
Mean Abs. % Err. (MAPE)	1.03%
Durbin-Watson Statistic	2.119
Durbin-H Statistic	0.000
Ljung-Box Statistic	50.31
Prob (Ljung-Box)	0.001
Skewness	-1.853
Kurtosis	15.155
Jarque-Bera	854.516
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mEcon.NManEmp	13.982	95.709	0.569
ResCusts.Filled	0.018	56936.336	0.433

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**Peaks**
Dependent Variable:	**mLoad.Peak**
Date:	**December 03, 2020**
Time:	**04:30 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mPeakVars.HeatingVar	2.052	0.144	14.276	0%
mPeakVars.CoolingVar	7.008	0.489	14.325	0%
mPeakVars.BaseVar	0.145	0.002	71.327	0%
mBin.Yr16Plus	-11.966	3.398	-3.522	0%
mBin.Sep	29.295	6.107	4.797	0%
mBin.Aug15	60.788	17.992	3.379	0%

Model Statistics	
Iterations	1
Adjusted Observations	122
Deg. of Freedom for Error	116
R-Squared	0.727
Adjusted R-Squared	0.716
AIC	5.800
BIC	5.937
F-Statistic	51.553
Prob (F-Statistic)	0.000
Log-Likelihood	-520.88
Model Sum of Squares	97340
Sum of Squared Errors	36504
Mean Squared Error	314.69
Std. Error of Regression	17.74
Mean Abs. Dev. (MAD)	13.83
Mean Abs. % Err. (MAPE)	3.83%
Durbin-Watson Statistic	1.857
Durbin-H Statistic	0.000
Ljung-Box Statistic	22.40
Prob (Ljung-Box)	0.555
Skewness	0.501
Kurtosis	3.088
Jarque-Bera	5.136
Prob (Jarque-Bera)	0.077

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mPeakVars.HeatingVar	2.052	14.858	0.085
mPeakVars.CoolingVar	7.008	4.126	0.080
mPeakVars.BaseVar	0.145	2087.752	0.839
mBin.Yr16Plus	-11.966	0.410	-0.014
mBin.Sep	29.295	0.082	0.007
mBin.Aug15	60.788	0.008	0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**PubBldgCusts**
Dependent Variable:	**mSales.PubBldgCusts**
Date:	**December 03, 2020**
Time:	**04:30 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	253.269	29.063	8.714	0%
mFcstRev.ResCusts	0.000	0.001	0.295	77%
AR(1)	0.853	0.040	21.362	0%

Model Statistics	
Iterations	9
Adjusted Observations	127
Deg. of Freedom for Error	124
R-Squared	0.798
Adjusted R-Squared	0.795
AIC	1.015
BIC	1.082
F-Statistic	245.436
Prob (F-Statistic)	0.000
Log-Likelihood	-241.65
Model Sum of Squares	1323
Sum of Squared Errors	334
Mean Squared Error	2.70
Std. Error of Regression	1.64
Mean Abs. Dev. (MAD)	1.06
Mean Abs. % Err. (MAPE)	0.41%
Durbin-Watson Statistic	2.397
Durbin-H Statistic	-2.604
Ljung-Box Statistic	34.90
Prob (Ljung-Box)	0.070
Skewness	0.363
Kurtosis	11.390
Jarque-Bera	375.260
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mFcstRev.ResCusts	0.000	56936.336	0.033

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResAvgUse**
Dependent Variable:	**mSales.ResAvgUse**
Date:	**December 03, 2020**
Time:	**04:32 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mStructResRev.XHeat	1.519	0.036	42.655	0%
mStructResRev.XCool	0.989	0.024	40.529	0%
mStructResRev.XOther	0.894	0.019	47.124	0%
mBin.Yr16Plus	-81.645	11.699	-6.979	0%

Model Statistics	
Iterations	1
Adjusted Observations	128
Deg. of Freedom for Error	124
R-Squared	0.944
Adjusted R-Squared	0.943
AIC	8.382
BIC	8.471
F-Statistic	525.109
Prob (F-Statistic)	0.000
Log-Likelihood	-714.07
Model Sum of Squares	8896248
Sum of Squared Errors	525193
Mean Squared Error	4235.43
Std. Error of Regression	65.08
Mean Abs. Dev. (MAD)	51.31
Mean Abs. % Err. (MAPE)	4.00%
Durbin-Watson Statistic	2.419
Durbin-H Statistic	0.000
Ljung-Box Statistic	65.80
Prob (Ljung-Box)	0.000
Skewness	-0.083
Kurtosis	2.888
Jarque-Bera	0.215
Prob (Jarque-Bera)	0.898

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mStructResRev.XHeat	1.519	213.939	0.248
mStructResRev.XCool	0.989	290.819	0.220
mStructResRev.XOther	0.894	817.412	0.559
mBin.Yr16Plus	-81.645	0.438	-0.027

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComSales**
Dependent Variable:	**mSales.ComSales**
Date:	**December 03, 2020**
Time:	**04:32 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructComRev.XHeat	29195.901	1529.240	19.092	0%
mStructComRev.XCool	13438.087	469.095	28.647	0%
mStructComRev.XOther	1255.732	12.419	101.118	0%
mBin.Yr16Plus	-704.487	96.084	-7.332	0%
mBin.Mar10	792.554	516.233	1.535	13%

Model Statistics	
Iterations	1
Adjusted Observations	128
Deg. of Freedom for Error	123
R-Squared	0.909
Adjusted R-Squared	0.906
AIC	12.513
BIC	12.625
F-Statistic	244.435
Prob (F-Statistic)	0.000
Log-Likelihood	-977.48
Model Sum of Squares	319866088
Sum of Squared Errors	32191390
Mean Squared Error	261718.62
Std. Error of Regression	511.58
Mean Abs. Dev. (MAD)	393.25
Mean Abs. % Err. (MAPE)	2.25%
Durbin-Watson Statistic	1.364
Durbin-H Statistic	0.000
Ljung-Box Statistic	47.70
Prob (Ljung-Box)	0.003
Skewness	-0.061
Kurtosis	3.637
Jarque-Bera	2.242
Prob (Jarque-Bera)	0.326

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructComRev.XHeat	29195.901	0.042	0.069
mStructComRev.XCool	13438.087	0.153	0.117
mStructComRev.XOther	1255.732	11.615	0.831
mBin.Yr16Plus	-704.487	0.438	-0.018
mBin.Mar10	792.554	0.008	0.000

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**IndSales**
Dependent Variable:	**mSales.IndSales**
Date:	**December 03, 2020**
Time:	**04:32 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mEcon.ManEmp	2082.054	137.718	15.118	0%
ComSales.Filled	0.129	0.054	2.377	2%
mBin.Yr2018Plus	1087.021	398.461	2.728	1%
mBin.Feb	-1253.673	136.281	-9.199	0%
mBin.May	1388.818	188.470	7.369	0%
mBin.Jun	2114.347	258.088	8.192	0%
mBin.Jul	2477.811	314.309	7.883	0%
mBin.Aug	2979.938	323.861	9.201	0%
mBin.Sep	2034.767	246.411	8.258	0%
mBin.Oct	1717.818	172.986	9.930	0%
AR(1)	0.778	0.064	12.187	0%

Model Statistics	
Iterations	18
Adjusted Observations	127
Deg. of Freedom for Error	116
R-Squared	0.961
Adjusted R-Squared	0.957
AIC	12.675
BIC	12.922
F-Statistic	258.435
Prob (F-Statistic)	0.000
Log-Likelihood	-974.09
Model Sum of Squares	836887902
Sum of Squared Errors	34149281
Mean Squared Error	294390.36
Std. Error of Regression	542.58
Mean Abs. Dev. (MAD)	422.54
Mean Abs. % Err. (MAPE)	2.49%
Durbin-Watson Statistic	1.952
Durbin-H Statistic	0.000
Ljung-Box Statistic	29.11
Prob (Ljung-Box)	0.216
Skewness	0.052
Kurtosis	2.707
Jarque-Bera	0.510
Prob (Jarque-Bera)	0.775

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mEcon.ManEmp	2082.054	6.549	0.803
ComSales.Filled	0.129	17557.907	0.133
mBin.Yr2018Plus	1087.021	0.250	0.016
mBin.Feb	-1253.673	0.086	-0.006
mBin.May	1388.818	0.086	0.007
mBin.Jun	2114.347	0.086	0.011
mBin.Jul	2477.811	0.086	0.013
mBin.Aug	2979.938	0.086	0.015
mBin.Sep	2034.767	0.078	0.009
mBin.Oct	1717.818	0.078	0.008

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**SLSales**
Dependent Variable:	**mSales.SLSales**
Date:	**December 03, 2020**
Time:	**04:32 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	146.245	16.809	8.701	0%
mFcstRev.ResCusts	0.002	0.000	4.502	0%
mBin.Sep15	9.872	2.102	4.696	0%
AR(1)	0.659	0.065	10.169	0%

Model Statistics	
Iterations	10
Adjusted Observations	127
Deg. of Freedom for Error	123
R-Squared	0.735
Adjusted R-Squared	0.729
AIC	1.882
BIC	1.972
F-Statistic	113.990
Prob (F-Statistic)	0.000
Log-Likelihood	-295.74
Model Sum of Squares	2178
Sum of Squared Errors	783
Mean Squared Error	6.37
Std. Error of Regression	2.52
Mean Abs. Dev. (MAD)	1.27
Mean Abs. % Err. (MAPE)	0.58%
Durbin-Watson Statistic	2.588
Durbin-H Statistic	0.000
Ljung-Box Statistic	32.19
Prob (Ljung-Box)	0.122
Skewness	-2.536
Kurtosis	28.214
Jarque-Bera	3500.339
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mFcstRev.ResCusts	0.002	46505.711	0.340
mBin.Sep15	9.872	0.008	0.000

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResCusts**
Dependent Variable:	**mSales.ResCusts**
Date:	**December 03, 2020**
Time:	**04:32 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	-45387.895	11690.401	-3.882	0%
Econ.Pop	753.910	91.847	8.208	0%
AR(1)	0.975	0.010	94.480	0%

Model Statistics	
Iterations	22
Adjusted Observations	127
Deg. of Freedom for Error	124
R-Squared	1.000
Adjusted R-Squared	1.000
AIC	7.099
BIC	7.167
F-Statistic	174333.523
Prob (F-Statistic)	0.000
Log-Likelihood	-628.02
Model Sum of Squares	412598047
Sum of Squared Errors	146736
Mean Squared Error	1183.36
Std. Error of Regression	34.40
Mean Abs. Dev. (MAD)	26.93
Mean Abs. % Err. (MAPE)	0.06%
Durbin-Watson Statistic	1.507
Durbin-H Statistic	0.294
Ljung-Box Statistic	46.83
Prob (Ljung-Box)	0.004
Skewness	0.224
Kurtosis	3.148
Jarque-Bera	1.176
Prob (Jarque-Bera)	0.556

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
Econ.Pop	753.910	120.988	1.961

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComCusts**
Dependent Variable:	**mSales.ComCusts**
Date:	**December 03, 2020**
Time:	**04:32 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
ResCusts.Filled	0.062	0.000	176.041	0%
AR(1)	0.964	0.026	37.270	0%

Model Statistics	
Iterations	4
Adjusted Observations	127
Deg. of Freedom for Error	125
R-Squared	0.997
Adjusted R-Squared	0.997
AIC	3.825
BIC	3.870
F-Statistic	23855.322
Prob (F-Statistic)	0.000
Log-Likelihood	-421.08
Model Sum of Squares	2152225
Sum of Squared Errors	5639
Mean Squared Error	45.11
Std. Error of Regression	6.72
Mean Abs. Dev. (MAD)	4.88
Mean Abs. % Err. (MAPE)	0.17%
Durbin-Watson Statistic	1.874
Durbin-H Statistic	0.000
Ljung-Box Statistic	37.87
Prob (Ljung-Box)	0.036
Skewness	-0.271
Kurtosis	4.739
Jarque-Bera	17.546
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
ResCusts.Filled	0.062	46505.711	1.003

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**Peaks**
Dependent Variable:	**mLoad.Peak**
Date:	**December 03, 2020**
Time:	**04:32 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	56.510	15.467	3.653	0%
mPeakVars.HeatingVar	2.352	0.135	17.379	0%
mPeakVars.CoolingVar	5.424	0.217	24.985	0%
mPeakVars.BaseVar	0.173	0.028	6.150	0%
mBin.Feb	-8.338	3.741	-2.229	3%
mBin.Mar	9.897	4.186	2.364	2%
mBin.May	-9.344	3.528	-2.648	1%
mBin.Oct	-12.460	3.682	-3.384	0%
mBin.Nov	-11.745	3.672	-3.198	0%
mBin.Feb15	46.658	10.763	4.335	0%
mBin.Mar16	-31.247	10.615	-2.944	0%

Model Statistics	
Iterations	1
Adjusted Observations	122
Deg. of Freedom for Error	111
R-Squared	0.920
Adjusted R-Squared	0.913
AIC	4.703
BIC	4.956
F-Statistic	127.981
Prob (F-Statistic)	0.000
Log-Likelihood	-448.99
Model Sum of Squares	129507
Sum of Squared Errors	11232
Mean Squared Error	101.19
Std. Error of Regression	10.06
Mean Abs. Dev. (MAD)	7.70
Mean Abs. % Err. (MAPE)	3.52%
Durbin-Watson Statistic	1.846
Durbin-H Statistic	0.000
Ljung-Box Statistic	14.75
Prob (Ljung-Box)	0.928
Skewness	0.050
Kurtosis	2.716
Jarque-Bera	0.460
Prob (Jarque-Bera)	0.795

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mPeakVars.HeatingVar	2.352	12.583	0.136
mPeakVars.CoolingVar	5.424	6.224	0.155
mPeakVars.BaseVar	0.173	579.098	0.460
mBin.Feb	-8.338	0.090	-0.003
mBin.Mar	9.897	0.082	0.004
mBin.May	-9.344	0.082	-0.004
mBin.Oct	-12.460	0.082	-0.005
mBin.Nov	-11.745	0.082	-0.004
mBin.Feb15	46.658	0.008	0.002
mBin.Mar16	-31.247	0.008	-0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**SLCusts**
Dependent Variable:	**mSales.SLCusts**
Date:	**December 03, 2020**
Time:	**04:32 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
ResCusts.Filled	0.005	0.000	110.012	0%
AR(1)	0.939	0.021	43.806	0%

Model Statistics	
Iterations	4
Adjusted Observations	127
Deg. of Freedom for Error	125
R-Squared	0.960
Adjusted R-Squared	0.960
AIC	0.523
BIC	0.567
F-Statistic	1493.296
Prob (F-Statistic)	0.000
Log-Likelihood	-211.39
Model Sum of Squares	4958
Sum of Squared Errors	208
Mean Squared Error	1.66
Std. Error of Regression	1.29
Mean Abs. Dev. (MAD)	0.98
Mean Abs. % Err. (MAPE)	0.45%
Durbin-Watson Statistic	2.065
Durbin-H Statistic	0.000
Ljung-Box Statistic	12.26
Prob (Ljung-Box)	0.977
Skewness	0.493
Kurtosis	4.113
Jarque-Bera	11.697
Prob (Jarque-Bera)	0.003

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
ResCusts.Filled	0.005	46505.711	0.990

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResAvgUse**
Dependent Variable:	**mSales.ResAvgUse**
Date:	**December 03, 2020**
Time:	**04:33 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructResRev.XHeat	1.694	0.034	50.357	0%
mStructResRev.XCool	0.896	0.026	34.393	0%
mStructResRev.XOther	0.851	0.019	43.995	0%
mBin.Yr2010	84.520	20.145	4.196	0%
mBin.Yr2011	157.580	20.137	7.825	0%
mBin.Yr17Plus	-47.014	12.621	-3.725	0%

Model Statistics	
Iterations	1
Adjusted Observations	128
Deg. of Freedom for Error	122
R-Squared	0.961
Adjusted R-Squared	0.960
AIC	8.351
BIC	8.484
F-Statistic	504.191
Prob (F-Statistic)	0.000
Log-Likelihood	-710.06
Model Sum of Squares	12232244
Sum of Squared Errors	493310
Mean Squared Error	4043.52
Std. Error of Regression	63.59
Mean Abs. Dev. (MAD)	48.56
Mean Abs. % Err. (MAPE)	3.79%
Durbin-Watson Statistic	2.226
Durbin-H Statistic	0.000
Ljung-Box Statistic	40.90
Prob (Ljung-Box)	0.017
Skewness	0.217
Kurtosis	3.088
Jarque-Bera	1.045
Prob (Jarque-Bera)	0.593

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructResRev.XHeat	1.694	221.233	0.289
mStructResRev.XCool	0.896	270.635	0.187
mStructResRev.XOther	0.851	789.452	0.518
mBin.Yr2010	84.520	0.094	0.006
mBin.Yr2011	157.580	0.094	0.011
mBin.Yr17Plus	-47.014	0.344	-0.012

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResSeasAvgUse**
Dependent Variable:	**mSales.ResSeasAvgUse**
Date:	**December 03, 2020**
Time:	**04:33 PM**
Estimation Begin Date:	**2012:3**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mStructResRev.XHeat	0.282	0.029	9.645	0%
mStructResRev.XCool	0.337	0.024	14.065	0%
mStructResRev.XOther	0.124	0.018	6.817	0%
mBin.Yr17Plus	63.789	9.064	7.038	0%
mBin.Mar	37.544	17.653	2.127	4%
mBin.Oct	100.827	18.220	5.534	0%
mBin.Nov	52.489	17.470	3.005	0%
mBin.Mar15	-137.124	47.913	-2.862	1%

Model Statistics	
Iterations	1
Adjusted Observations	102
Deg. of Freedom for Error	94
R-Squared	0.743
Adjusted R-Squared	0.724
AIC	7.686
BIC	7.892
F-Statistic	33.975
Prob (F-Statistic)	0.000
Log-Likelihood	-528.74
Model Sum of Squares	549210
Sum of Squared Errors	189943
Mean Squared Error	2020.67
Std. Error of Regression	44.95
Mean Abs. Dev. (MAD)	33.41
Mean Abs. % Err. (MAPE)	11.84%
Durbin-Watson Statistic	1.799
Durbin-H Statistic	0.000
Ljung-Box Statistic	18.45
Prob (Ljung-Box)	0.780
Skewness	0.477
Kurtosis	3.342
Jarque-Bera	4.359
Prob (Jarque-Bera)	0.113

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mStructResRev.XHeat	0.282	219.206	0.211
mStructResRev.XCool	0.337	275.143	0.316
mStructResRev.XOther	0.124	787.355	0.332
mBin.Yr17Plus	63.789	0.431	0.094
mBin.Mar	37.544	0.088	0.011
mBin.Oct	100.827	0.078	0.027
mBin.Nov	52.489	0.078	0.014
mBin.Mar15	-137.124	0.010	-0.005

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComSales**
Dependent Variable:	**mSales.ComSales**
Date:	**December 03, 2020**
Time:	**04:33 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructComRev.XHeat	7589.268	868.075	8.743	0%
mStructComRev.XCool	3469.236	278.468	12.458	0%
mStructComRev.XOther	454.902	10.465	43.470	0%
mBin.Yr2010	-1152.941	149.843	-7.694	0%
mBin.Yr2011	-1176.561	143.313	-8.210	0%
mBin.Yr2013	-342.824	143.590	-2.388	2%
mBin.Jun14PlusTrend	71.737	7.067	10.151	0%
mBin.Yr18Plus	-517.635	102.660	-5.042	0%
MA(1)	0.094	0.094	0.998	32%
MA(2)	0.244	0.098	2.479	1%

Model Statistics	
Iterations	15
Adjusted Observations	127
Deg. of Freedom for Error	117
R-Squared	0.935
Adjusted R-Squared	0.930
AIC	11.530
BIC	11.754
F-Statistic	169.108
Prob (F-Statistic)	0.000
Log-Likelihood	-902.34
Model Sum of Squares	159459784
Sum of Squared Errors	11032495
Mean Squared Error	94294.83
Std. Error of Regression	307.07
Mean Abs. Dev. (MAD)	225.40
Mean Abs. % Err. (MAPE)	3.52%
Durbin-Watson Statistic	1.928
Durbin-H Statistic	0.000
Ljung-Box Statistic	29.90
Prob (Ljung-Box)	0.188
Skewness	0.398
Kurtosis	3.825
Jarque-Bera	6.957
Prob (Jarque-Bera)	0.031

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructComRev.XHeat	7589.268	0.042	0.050
mStructComRev.XCool	3469.236	0.151	0.081
mStructComRev.XOther	454.902	11.607	0.815
mBin.Yr2010	-1152.941	0.094	-0.017
mBin.Yr2011	-1176.561	0.094	-0.017
mBin.Yr2013	-342.824	0.094	-0.005
mBin.Jun14PlusTrend	71.737	10.245	0.114
mBin.Yr18Plus	-517.635	0.252	-0.020

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**IndSales**
Dependent Variable:	**mSales.IndSales**
Date:	**December 03, 2020**
Time:	**04:33 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mEcon.ManEmp	1639.342	361.438	4.536	0%
ComSales.Predicted	0.039	0.105	0.375	71%
mBin.Jan	6737.380	1042.793	6.461	0%
mBin.Feb	5432.563	1068.170	5.086	0%
mBin.Mar	7280.539	1062.196	6.854	0%
mBin.Apr	6257.915	1073.019	5.832	0%
mBin.May	7243.539	1052.547	6.882	0%
mBin.Jun	7056.984	1042.071	6.772	0%
mBin.Jul	7381.142	1028.850	7.174	0%
mBin.Aug	7885.755	1029.599	7.659	0%
mBin.Sep	7176.335	1062.022	6.757	0%
mBin.Oct	7173.140	1074.197	6.678	0%
mBin.Nov	6113.502	1075.975	5.682	0%
mBin.Dec	5829.032	1060.141	5.498	0%
MA(1)	0.082	0.091	0.904	37%
MA(2)	0.450	0.094	4.779	0%

Model Statistics	
Iterations	13
Adjusted Observations	128
Deg. of Freedom for Error	112
R-Squared	0.752
Adjusted R-Squared	0.719
AIC	12.810
BIC	13.167
F-Statistic	21.240
Prob (F-Statistic)	0.000
Log-Likelihood	-985.48
Model Sum of Squares	110692613
Sum of Squared Errors	36481177
Mean Squared Error	325724.80
Std. Error of Regression	570.72
Mean Abs. Dev. (MAD)	400.92
Mean Abs. % Err. (MAPE)	3.00%
Durbin-Watson Statistic	1.892
Durbin-H Statistic	0.000
Ljung-Box Statistic	32.80
Prob (Ljung-Box)	0.108
Skewness	-0.264
Kurtosis	3.878
Jarque-Bera	5.605
Prob (Jarque-Bera)	0.061

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mEcon.ManEmp	1639.342	3.956	0.479
ComSales.Predicted	0.039	6489.219	0.019
mBin.Jan	6737.380	0.086	0.043
mBin.Feb	5432.563	0.086	0.034
mBin.Mar	7280.539	0.086	0.046

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Variable	Coefficient	Mean	Elast
mBin.Apr	6257.915	0.086	0.040
mBin.May	7243.539	0.086	0.046
mBin.Jun	7056.984	0.086	0.045
mBin.Jul	7381.142	0.086	0.047
mBin.Aug	7885.755	0.086	0.050
mBin.Sep	7176.335	0.078	0.041
mBin.Oct	7173.140	0.078	0.041
mBin.Nov	6113.502	0.078	0.035
mBin.Dec	5829.032	0.078	0.034

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResCusts**
Dependent Variable:	**mSales.ResCusts**
Date:	**December 03, 2020**
Time:	**04:33 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
Econ.HH	715.137	1.589	450.131	0%
AR(1)	0.835	0.045	18.523	0%

Model Statistics	
Iterations	5
Adjusted Observations	127
Deg. of Freedom for Error	125
R-Squared	0.976
Adjusted R-Squared	0.975
AIC	8.313
BIC	8.358
F-Statistic	2506.902
Prob (F-Statistic)	0.000
Log-Likelihood	-706.09
Model Sum of Squares	20123794
Sum of Squared Errors	501710
Mean Squared Error	4013.68
Std. Error of Regression	63.35
Mean Abs. Dev. (MAD)	29.57
Mean Abs. % Err. (MAPE)	0.19%
Durbin-Watson Statistic	2.655
Durbin-H Statistic	1.744
Ljung-Box Statistic	19.99
Prob (Ljung-Box)	0.697
Skewness	1.462
Kurtosis	34.740
Jarque-Bera	5376.260
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
Econ.HH	715.137	21.372	0.999

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResSeasCusts**
Dependent Variable:	**mSales.ResSeasCusts**
Date:	**December 03, 2020**
Time:	**04:33 PM**
Estimation Begin Date:	**2012:3**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mBin.Jan	89.269	15.236	5.859	0%
mBin.Feb	88.247	15.234	5.793	0%
mBin.Mar	87.918	15.214	5.779	0%
mBin.Apr	117.250	15.203	7.712	0%
mBin.May	181.239	15.176	11.942	0%
mBin.Jun	192.210	15.135	12.700	0%
mBin.Aug	197.140	14.973	13.166	0%
mBin.Jul	196.044	15.081	13.000	0%
mBin.Sep	189.274	14.992	12.625	0%
mBin.Oct	120.797	15.101	7.999	0%
mBin.Nov	100.788	15.175	6.642	0%
mBin.Dec	99.239	15.218	6.521	0%
AR(1)	0.925	0.037	25.299	0%

Model Statistics	
Iterations	7
Adjusted Observations	100
Deg. of Freedom for Error	87
R-Squared	0.969
Adjusted R-Squared	0.964
AIC	4.721
BIC	5.059
F-Statistic	206.307
Prob (F-Statistic)	0.000
Log-Likelihood	-364.93
Model Sum of Squares	266830
Sum of Squared Errors	8656
Mean Squared Error	99.49
Std. Error of Regression	9.97
Mean Abs. Dev. (MAD)	6.52
Mean Abs. % Err. (MAPE)	6.63%
Durbin-Watson Statistic	2.599
Durbin-H Statistic	0.371
Ljung-Box Statistic	47.19
Prob (Ljung-Box)	0.003
Skewness	0.033
Kurtosis	5.789
Jarque-Bera	32.430
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mBin.Jan	89.269	0.079	0.057
mBin.Feb	88.247	0.079	0.056
mBin.Mar	87.918	0.089	0.063
mBin.Apr	117.250	0.089	0.084
mBin.May	181.239	0.089	0.129
mBin.Jun	192.210	0.089	0.137
mBin.Aug	197.140	0.079	0.125
mBin.Jul	196.044	0.089	0.140

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Variable	Coefficient	Mean	Elast
mBin.Sep	189.274	0.079	0.120
mBin.Oct	120.797	0.079	0.077
mBin.Nov	100.788	0.079	0.064
mBin.Dec	99.239	0.079	0.063

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComCusts**
Dependent Variable:	**mSales.ComCusts**
Date:	**December 03, 2020**
Time:	**04:33 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
Econ.EmpNonMan	36.211	3.315	10.924	0%
AR(1)	0.966	0.024	40.982	0%

Model Statistics	
Iterations	8
Adjusted Observations	127
Deg. of Freedom for Error	125
R-Squared	0.967
Adjusted R-Squared	0.967
AIC	5.376
BIC	5.421
F-Statistic	1852.236
Prob (F-Statistic)	0.000
Log-Likelihood	-519.61
Model Sum of Squares	788656
Sum of Squared Errors	26612
Mean Squared Error	212.89
Std. Error of Regression	14.59
Mean Abs. Dev. (MAD)	5.76
Mean Abs. % Err. (MAPE)	1.51%
Durbin-Watson Statistic	2.615
Durbin-H Statistic	0.000
Ljung-Box Statistic	39.82
Prob (Ljung-Box)	0.022
Skewness	-0.680
Kurtosis	36.431
Jarque-Bera	5923.778
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
Econ.EmpNonMan	36.211	13.451	1.085

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**Peaks**
Dependent Variable:	**mLoad.Peak**
Date:	**December 03, 2020**
Time:	**04:33 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	23.514	10.502	2.239	3%
mPeakVars.HeatingVar	0.977	0.042	23.022	0%
mPeakVars.CoolingVar	1.488	0.094	15.878	0%
mPeakVars.BaseVar	0.107	0.029	3.687	0%
mBin.Yr16Plus	-1.918	0.825	-2.323	2%
mBin.May	-5.995	1.367	-4.387	0%
mBin.Oct	-5.603	1.467	-3.819	0%
mBin.Nov	-4.048	1.316	-3.076	0%

Model Statistics	
Iterations	1
Adjusted Observations	122
Deg. of Freedom for Error	114
R-Squared	0.906
Adjusted R-Squared	0.900
AIC	2.726
BIC	2.909
F-Statistic	156.570
Prob (F-Statistic)	0.000
Log-Likelihood	-331.37
Model Sum of Squares	15703
Sum of Squared Errors	1633
Mean Squared Error	14.33
Std. Error of Regression	3.79
Mean Abs. Dev. (MAD)	2.84
Mean Abs. % Err. (MAPE)	3.32%
Durbin-Watson Statistic	1.744
Durbin-H Statistic	0.000
Ljung-Box Statistic	28.28
Prob (Ljung-Box)	0.249
Skewness	0.195
Kurtosis	3.799
Jarque-Bera	4.018
Prob (Jarque-Bera)	0.134

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mPeakVars.HeatingVar	0.977	13.305	0.154
mPeakVars.CoolingVar	1.488	5.822	0.103
mPeakVars.BaseVar	0.107	386.027	0.488
mBin.Yr16Plus	-1.918	0.410	-0.009
mBin.May	-5.995	0.082	-0.006
mBin.Oct	-5.603	0.082	-0.005
mBin.Nov	-4.048	0.082	-0.004

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResAvgUse**
Dependent Variable:	**mSales.ResAvgUse**
Date:	**December 03, 2020**
Time:	**04:34 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mStructResRev.XHeat	1.619	0.045	35.597	0%
mStructResRev.XCool	0.893	0.040	22.351	0%
mStructResRev.XOther	0.766	0.032	23.704	0%
mBin.Mar2020	-54.853	90.813	-0.604	55%
mBin.Aft2019	-80.009	37.808	-2.116	4%
mBin.Jun2020	78.799	91.021	0.866	39%

Model Statistics	
Iterations	1
Adjusted Observations	127
Deg. of Freedom for Error	121
R-Squared	0.929
Adjusted R-Squared	0.926
AIC	8.877
BIC	9.012
F-Statistic	264.780
Prob (F-Statistic)	0.000
Log-Likelihood	-737.90
Model Sum of Squares	10871964
Sum of Squared Errors	828051
Mean Squared Error	6843.39
Std. Error of Regression	82.72
Mean Abs. Dev. (MAD)	58.18
Mean Abs. % Err. (MAPE)	5.21%
Durbin-Watson Statistic	1.363
Durbin-H Statistic	0.000
Ljung-Box Statistic	76.56
Prob (Ljung-Box)	0.000
Skewness	0.915
Kurtosis	6.344
Jarque-Bera	76.879
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mStructResRev.XHeat	1.619	253.414	0.376
mStructResRev.XCool	0.893	222.348	0.182
mStructResRev.XOther	0.766	635.014	0.446
mBin.Mar2020	-54.853	0.008	-0.000
mBin.Aft2019	-80.009	0.055	-0.004
mBin.Jun2020	78.799	0.008	0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComSales**
Dependent Variable:	**mSales.ComSales**
Date:	**December 03, 2020**
Time:	**04:34 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructComRev.XHeat	42170.840	2529.382	16.672	0%
mStructComRev.XCool	14563.882	615.672	23.655	0%
mStructComRev.XOther	1658.548	17.884	92.740	0%
mBin.Yr2010	-1274.340	255.619	-4.985	0%
mBin.Mar2020	-231.651	1007.536	-0.230	82%
mBin.Apr2020	-1562.708	1009.104	-1.549	12%
mBin.May2020	-2515.418	1013.829	-2.481	1%
mBin.Aft2019	81.175	590.672	0.137	89%
mBin.Jun2020	-2091.366	1014.756	-2.061	4%
mBin.Jul2020	-999.138	1019.791	-0.980	33%

Model Statistics	
Iterations	1
Adjusted Observations	127
Deg. of Freedom for Error	117
R-Squared	0.881
Adjusted R-Squared	0.872
AIC	13.500
BIC	13.724
F-Statistic	86.853
Prob (F-Statistic)	0.000
Log-Likelihood	-1027.49
Model Sum of Squares	587745382
Sum of Squared Errors	79175823
Mean Squared Error	676716.44
Std. Error of Regression	822.63
Mean Abs. Dev. (MAD)	620.74
Mean Abs. % Err. (MAPE)	2.64%
Durbin-Watson Statistic	1.859
Durbin-H Statistic	0.000
Ljung-Box Statistic	73.10
Prob (Ljung-Box)	0.000
Skewness	0.297
Kurtosis	3.327
Jarque-Bera	2.428
Prob (Jarque-Bera)	0.297

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructComRev.XHeat	42170.840	0.042	0.076
mStructComRev.XCool	14563.882	0.165	0.103
mStructComRev.XOther	1658.548	11.665	0.828
mBin.Yr2010	-1274.340	0.094	-0.005
mBin.Mar2020	-231.651	0.008	-0.000
mBin.Apr2020	-1562.708	0.008	-0.001
mBin.May2020	-2515.418	0.008	-0.001
mBin.Aft2019	81.175	0.055	0.000
mBin.Jun2020	-2091.366	0.008	-0.001
mBin.Jul2020	-999.138	0.008	-0.000

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**IndSales**
Dependent Variable:	**mSales.IndSales**
Date:	**December 03, 2020**
Time:	**04:34 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mEcon.ManEmp	289.598	416.938	0.695	49%
mBin.Feb14Plus	3783.701	149.903	25.241	0%
mBin.Yr19Plus	-490.567	234.810	-2.089	4%
mBin.Jan	8679.086	3479.445	2.494	1%
mBin.Feb	9155.771	3474.721	2.635	1%
mBin.Mar	8225.457	3478.517	2.365	2%
mBin.Apr	9045.143	3482.472	2.597	1%
mBin.May	8796.193	3483.663	2.525	1%
mBin.Jun	9786.389	3484.853	2.808	1%
mBin.Jul	10416.376	3486.044	2.988	0%
mBin.Aug	10559.302	3482.727	3.032	0%
mBin.Sep	11222.013	3479.410	3.225	0%
mBin.Oct	9860.696	3476.094	2.837	1%
mBin.Nov	9917.239	3472.777	2.856	1%
mBin.Dec	8524.825	3467.096	2.459	2%
mBin.Aft2019	55.183	563.178	0.098	92%
mBin.Mar2020	594.326	692.542	0.858	39%
mBin.Apr2020	238.975	809.571	0.295	77%
mBin.May2020	-1674.558	821.411	-2.039	4%
mBin.Jun2020	-2507.585	836.288	-2.998	0%
mBin.Jul2020	-3724.221	854.043	-4.361	0%
MA(1)	0.397	0.090	4.419	0%

Model Statistics	
Iterations	12
Adjusted Observations	127
Deg. of Freedom for Error	105
R-Squared	0.944
Adjusted R-Squared	0.932
AIC	12.774
BIC	13.267
F-Statistic	80.004
Prob (F-Statistic)	0.000
Log-Likelihood	-969.37
Model Sum of Squares	531429210
Sum of Squared Errors	31703011
Mean Squared Error	301933.44
Std. Error of Regression	549.48
Mean Abs. Dev. (MAD)	359.10
Mean Abs. % Err. (MAPE)	2.58%
Durbin-Watson Statistic	1.741
Durbin-H Statistic	0.000
Ljung-Box Statistic	31.72
Prob (Ljung-Box)	0.134
Skewness	0.673
Kurtosis	5.496
Jarque-Bera	42.545
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

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Variable	Coefficient	Mean	Elast
mEcon.ManEmp	289.598	8.322	0.171
mBin.Feb14Plus	3783.701	0.614	0.165
mBin.Yr19Plus	-490.567	0.150	-0.005
mBin.Jan	8679.086	0.087	0.053
mBin.Feb	9155.771	0.087	0.056
mBin.Mar	8225.457	0.087	0.051
mBin.Apr	9045.143	0.087	0.056
mBin.May	8796.193	0.087	0.054
mBin.Jun	9786.389	0.087	0.060
mBin.Jul	10416.376	0.087	0.064
mBin.Aug	10559.302	0.079	0.059
mBin.Sep	11222.013	0.079	0.063
mBin.Oct	9860.696	0.079	0.055
mBin.Nov	9917.239	0.079	0.055
mBin.Dec	8524.825	0.079	0.048
mBin.Aft2019	55.183	0.055	0.000
mBin.Mar2020	594.326	0.008	0.000
mBin.Apr2020	238.975	0.008	0.000
mBin.May2020	-1674.558	0.008	-0.001
mBin.Jun2020	-2507.585	0.008	-0.001
mBin.Jul2020	-3724.221	0.008	-0.002

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**PubBldgSales**
Dependent Variable:	**mSales.PubBldgSales**
Date:	**December 03, 2020**
Time:	**04:34 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructComRev.XHeat	9967.374	502.207	19.847	0%
mStructComRev.XCool	1295.668	118.210	10.961	0%
mStructComRev.XOther	30.489	3.875	7.869	0%
mBin.Yr2015Plus_Trend	8.765	1.666	5.261	0%
MA(1)	0.395	0.094	4.208	0%

Model Statistics	
Iterations	10
Adjusted Observations	127
Deg. of Freedom for Error	122
R-Squared	0.876
Adjusted R-Squared	0.872
AIC	9.695
BIC	9.807
F-Statistic	172.128
Prob (F-Statistic)	0.000
Log-Likelihood	-790.83
Model Sum of Squares	13443591
Sum of Squared Errors	1905699
Mean Squared Error	15620.49
Std. Error of Regression	124.98
Mean Abs. Dev. (MAD)	91.02
Mean Abs. % Err. (MAPE)	8.55%
Durbin-Watson Statistic	1.875
Durbin-H Statistic	0.000
Ljung-Box Statistic	88.96
Prob (Ljung-Box)	0.000
Skewness	0.732
Kurtosis	6.049
Jarque-Bera	60.536
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructComRev.XHeat	9967.374	0.042	0.391
mStructComRev.XCool	1295.668	0.165	0.200
mStructComRev.XOther	30.489	11.665	0.331
mBin.Yr2015Plus_Trend	8.765	9.408	0.077

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResCusts**
Dependent Variable:	**mSales.ResCusts**
Date:	**December 03, 2020**
Time:	**04:34 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
Econ.HH	1085.542	0.746	1455.040	0%
mBin.Aft2019	669.356	170.208	3.933	0%
MA(1)	0.413	0.082	5.016	0%

Model Statistics	
Iterations	11
Adjusted Observations	127
Deg. of Freedom for Error	124
R-Squared	0.716
Adjusted R-Squared	0.711
AIC	11.602
BIC	11.669
F-Statistic	104.090
Prob (F-Statistic)	0.000
Log-Likelihood	-913.93
Model Sum of Squares	33349113
Sum of Squared Errors	13242689
Mean Squared Error	106795.88
Std. Error of Regression	326.80
Mean Abs. Dev. (MAD)	259.60
Mean Abs. % Err. (MAPE)	0.42%
Durbin-Watson Statistic	1.574
Durbin-H Statistic	2.680
Ljung-Box Statistic	357.73
Prob (Ljung-Box)	0.000
Skewness	-0.014
Kurtosis	3.248
Jarque-Bera	0.329
Prob (Jarque-Bera)	0.848

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
Econ.HH	1085.542	56.317	0.999
mBin.Aft2019	669.356	0.055	0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComCusts**
Dependent Variable:	**mSales.ComCusts**
Date:	**December 03, 2020**
Time:	**04:34 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mBin.Yr2015Plus_Trend	2.414	3.074	0.785	43%
mBin.Aft2019	17.442	46.262	0.377	71%
AR(1)	1.000	0.001	1187.724	0%

Model Statistics	
Iterations	5
Adjusted Observations	126
Deg. of Freedom for Error	123
R-Squared	0.924
Adjusted R-Squared	0.922
AIC	7.692
BIC	7.759
F-Statistic	495.932
Prob (F-Statistic)	0.000
Log-Likelihood	-660.37
Model Sum of Squares	3182941
Sum of Squared Errors	263142
Mean Squared Error	2139.36
Std. Error of Regression	46.25
Mean Abs. Dev. (MAD)	25.33
Mean Abs. % Err. (MAPE)	0.51%
Durbin-Watson Statistic	3.012
Durbin-H Statistic	-0.062
Ljung-Box Statistic	68.61
Prob (Ljung-Box)	0.000
Skewness	2.051
Kurtosis	15.517
Jarque-Bera	910.838
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mBin.Yr2015Plus_Trend	2.414	9.408	0.005
mBin.Aft2019	17.442	0.055	0.000

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**Peaks**
Dependent Variable:	**mLoad.Peak**
Date:	**December 03, 2020**
Time:	**04:34 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mPeakVars.HeatingVar	4.474	0.161	27.789	0%
mPeakVars.CoolingVar	6.268	0.548	11.433	0%
mPeakVars.BaseVar	0.238	0.006	40.377	0%
mBin.Yr2016Plus	-7.444	3.197	-2.328	2%
mBin.Mar	25.638	6.001	4.272	0%
mBin.Oct	-25.578	5.994	-4.267	0%
mBin.Nov	-17.460	5.839	-2.990	0%
mBin.Mar16	-63.165	17.779	-3.553	0%
mBin.Apr17	-39.281	17.125	-2.294	2%
mBin.Feb19	-41.256	17.041	-2.421	2%

Model Statistics	
Iterations	1
Adjusted Observations	122
Deg. of Freedom for Error	112
R-Squared	0.928
Adjusted R-Squared	0.922
AIC	5.715
BIC	5.945
F-Statistic	143.956
Prob (F-Statistic)	0.000
Log-Likelihood	-511.74
Model Sum of Squares	403898
Sum of Squared Errors	31424
Mean Squared Error	280.57
Std. Error of Regression	16.75
Mean Abs. Dev. (MAD)	12.58
Mean Abs. % Err. (MAPE)	4.83%
Durbin-Watson Statistic	1.966
Durbin-H Statistic	0.000
Ljung-Box Statistic	23.26
Prob (Ljung-Box)	0.504
Skewness	0.130
Kurtosis	3.188
Jarque-Bera	0.524
Prob (Jarque-Bera)	0.769

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mPeakVars.HeatingVar	4.474	13.711	0.237
mPeakVars.CoolingVar	6.268	3.213	0.078
mPeakVars.BaseVar	0.238	766.438	0.707
mBin.Yr2016Plus	-7.444	0.410	-0.012
mBin.Mar	25.638	0.082	0.008
mBin.Oct	-25.578	0.082	-0.008
mBin.Nov	-17.460	0.082	-0.006
mBin.Mar16	-63.165	0.008	-0.002
mBin.Apr17	-39.281	0.008	-0.001
mBin.Feb19	-41.256	0.008	-0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**PubBldgCusts**
Dependent Variable:	**mSales.PubBldgCusts**
Date:	**December 03, 2020**
Time:	**04:34 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:7**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
CONST	680.833	7.921	85.951	0%
mBin.TrendVar	11.782	0.508	23.215	0%
MA(1)	0.726	0.087	8.367	0%
MA(2)	0.283	0.087	3.263	0%

Model Statistics	
Iterations	27
Adjusted Observations	127
Deg. of Freedom for Error	123
R-Squared	0.943
Adjusted R-Squared	0.942
AIC	4.408
BIC	4.498
F-Statistic	681.927
Prob (F-Statistic)	0.000
Log-Likelihood	-456.13
Model Sum of Squares	162890
Sum of Squared Errors	9794
Mean Squared Error	79.62
Std. Error of Regression	8.92
Mean Abs. Dev. (MAD)	6.39
Mean Abs. % Err. (MAPE)	0.75%
Durbin-Watson Statistic	1.666
Durbin-H Statistic	-0.580
Ljung-Box Statistic	30.55
Prob (Ljung-Box)	0.167
Skewness	-0.828
Kurtosis	7.469
Jarque-Bera	120.176
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mBin.TrendVar	11.782	15.333	0.210

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResAvgUse**
Dependent Variable:	**mSales.ResAvgUse**
Date:	**December 03, 2020**
Time:	**04:35 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mStructResRev.XHeat	1.525	0.032	47.585	0%
mStructResRev.XCool	0.860	0.027	31.745	0%
mStructResRev.XOther	1.042	0.027	38.988	0%
mBin.Yr2012Plus	-108.300	15.848	-6.834	0%
mBin.Yr2018Plus	-74.887	14.069	-5.323	0%
MA(1)	0.267	0.090	2.955	0%

Model Statistics	
Iterations	18
Adjusted Observations	128
Deg. of Freedom for Error	122
R-Squared	0.966
Adjusted R-Squared	0.964
AIC	7.951
BIC	8.085
F-Statistic	572.305
Prob (F-Statistic)	0.000
Log-Likelihood	-684.49
Model Sum of Squares	9311482
Sum of Squared Errors	330826
Mean Squared Error	2711.69
Std. Error of Regression	52.07
Mean Abs. Dev. (MAD)	40.67
Mean Abs. % Err. (MAPE)	3.70%
Durbin-Watson Statistic	1.850
Durbin-H Statistic	0.000
Ljung-Box Statistic	45.42
Prob (Ljung-Box)	0.005
Skewness	0.192
Kurtosis	2.762
Jarque-Bera	1.093
Prob (Jarque-Bera)	0.579

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mStructResRev.XHeat	1.525	208.691	0.288
mStructResRev.XCool	0.860	224.782	0.175
mStructResRev.XOther	1.042	672.728	0.634
mBin.Yr2012Plus	-108.300	0.813	-0.080
mBin.Yr2018Plus	-74.887	0.250	-0.017

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComSales**
Dependent Variable:	**mSales.ComSales**
Date:	**December 03, 2020**
Time:	**04:35 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mStructComRev.XHeat	23241.222	1021.996	22.741	0%
mStructComRev.XCool	9015.002	323.859	27.836	0%
mStructComRev.XOther	759.419	9.398	80.807	0%
mBin.Aug13Plus	716.201	114.177	6.273	0%
mBin.May15Plus	-611.432	123.365	-4.956	0%
mBin.Yr2018Plus	-286.213	109.781	-2.607	1%
MA(1)	0.470	0.084	5.591	0%

Model Statistics	
Iterations	16
Adjusted Observations	128
Deg. of Freedom for Error	121
R-Squared	0.928
Adjusted R-Squared	0.924
AIC	11.487
BIC	11.643
F-Statistic	221.995
Prob (F-Statistic)	0.000
Log-Likelihood	-909.79
Model Sum of Squares	143578963
Sum of Squared Errors	11179838
Mean Squared Error	92395.36
Std. Error of Regression	303.97
Mean Abs. Dev. (MAD)	230.27
Mean Abs. % Err. (MAPE)	2.08%
Durbin-Watson Statistic	1.723
Durbin-H Statistic	0.000
Ljung-Box Statistic	27.43
Prob (Ljung-Box)	0.285
Skewness	0.435
Kurtosis	4.186
Jarque-Bera	11.548
Prob (Jarque-Bera)	0.003

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mStructComRev.XHeat	23241.222	0.043	0.088
mStructComRev.XCool	9015.002	0.150	0.120
mStructComRev.XOther	759.419	11.654	0.784
mBin.Aug13Plus	716.201	0.664	0.042
mBin.May15Plus	-611.432	0.500	-0.027
mBin.Yr2018Plus	-286.213	0.250	-0.006

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ResCusts**
Dependent Variable:	**mSales.ResCusts**
Date:	**December 03, 2020**
Time:	**04:35 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
Econ.HH	1027.596	2.712	378.851	0%
AR(1)	0.876	0.048	18.330	0%

Model Statistics	
Iterations	5
Adjusted Observations	127
Deg. of Freedom for Error	125
R-Squared	0.928
Adjusted R-Squared	0.927
AIC	8.886
BIC	8.931
F-Statistic	802.750
Prob (F-Statistic)	0.000
Log-Likelihood	-742.46
Model Sum of Squares	11427187
Sum of Squared Errors	889691
Mean Squared Error	7117.53
Std. Error of Regression	84.37
Mean Abs. Dev. (MAD)	68.74
Mean Abs. % Err. (MAPE)	0.30%
Durbin-Watson Statistic	2.896
Durbin-H Statistic	0.233
Ljung-Box Statistic	87.83
Prob (Ljung-Box)	0.000
Skewness	-0.171
Kurtosis	2.667
Jarque-Bera	1.204
Prob (Jarque-Bera)	0.548

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
Econ.HH	1027.596	22.385	1.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**ComCusts**
Dependent Variable:	**mSales.ComCusts**
Date:	**December 03, 2020**
Time:	**04:35 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
Econ.EmpNonMan	199.036	7.327	27.164	0%
mBin.Oct15	-294.013	17.944	-16.385	0%
AR(1)	0.974	0.026	36.841	0%

Model Statistics	
Iterations	20
Adjusted Observations	127
Deg. of Freedom for Error	124
R-Squared	0.961
Adjusted R-Squared	0.960
AIC	6.473
BIC	6.541
F-Statistic	1012.587
Prob (F-Statistic)	0.000
Log-Likelihood	-588.26
Model Sum of Squares	1921959
Sum of Squared Errors	78453
Mean Squared Error	632.69
Std. Error of Regression	25.15
Mean Abs. Dev. (MAD)	19.64
Mean Abs. % Err. (MAPE)	0.63%
Durbin-Watson Statistic	1.923
Durbin-H Statistic	0.538
Ljung-Box Statistic	41.42
Prob (Ljung-Box)	0.015
Skewness	0.080
Kurtosis	3.431
Jarque-Bera	1.117
Prob (Jarque-Bera)	0.572

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
Econ.EmpNonMan	199.036	16.004	1.024
mBin.Oct15	-294.013	0.008	-0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**Peaks**
Dependent Variable:	**mLoad.Peak**
Date:	**December 03, 2020**
Time:	**04:35 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:2**
Forecast Period End Date:	**2040:12**

Variable	**Coefficient**	**StdErr**	**T-Stat**	**P-Value**
mPeakVars.HeatingVar	1.320	0.080	16.564	0%
mPeakVars.CoolingVar	1.801	0.153	11.750	0%
mPeakVars.BaseVar	0.257	0.007	37.443	0%
mBin.Yr2012	-7.252	2.125	-3.412	0%
mBin.Yr2013	-6.272	2.030	-3.090	0%
mBin.May	-9.535	2.359	-4.042	0%
mBin.Oct	-7.716	2.457	-3.140	0%
mBin.Nov	-7.715	2.306	-3.345	0%
mBin.Mar12	23.191	7.117	3.259	0%
mBin.Apr17	-16.834	6.735	-2.500	1%

Model Statistics	
Iterations	1
Adjusted Observations	122
Deg. of Freedom for Error	112
R-Squared	0.893
Adjusted R-Squared	0.884
AIC	3.870
BIC	4.100
F-Statistic	93.114
Prob (F-Statistic)	0.000
Log-Likelihood	-399.17
Model Sum of Squares	41268
Sum of Squared Errors	4964
Mean Squared Error	44.32
Std. Error of Regression	6.66
Mean Abs. Dev. (MAD)	4.81
Mean Abs. % Err. (MAPE)	4.81%
Durbin-Watson Statistic	1.643
Durbin-H Statistic	0.000
Ljung-Box Statistic	21.70
Prob (Ljung-Box)	0.597
Skewness	0.228
Kurtosis	3.989
Jarque-Bera	6.025
Prob (Jarque-Bera)	0.049

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	**Coefficient**	**Mean**	**Elast**
mPeakVars.HeatingVar	1.320	12.477	0.166
mPeakVars.CoolingVar	1.801	5.361	0.097
mPeakVars.BaseVar	0.257	297.934	0.770
mBin.Yr2012	-7.252	0.098	-0.007
mBin.Yr2013	-6.272	0.098	-0.006
mBin.May	-9.535	0.082	-0.008
mBin.Oct	-7.716	0.082	-0.006
mBin.Nov	-7.715	0.082	-0.006
mBin.Mar12	23.191	0.008	0.002
mBin.Apr17	-16.834	0.008	-0.001

Project:	**H:\Load Forecasting Department\Load Forecast Long Term\2020\ITRON Files\Fcst2020**
Model:	**SLSales**
Dependent Variable:	**mSales.SLSales**
Date:	**December 03, 2020**
Time:	**04:35 PM**
Estimation Begin Date:	**2010:1**
Estimation End Date:	**2020:8**
Forecast Period End Date:	**2040:12**

Variable	Coefficient	StdErr	T-Stat	P-Value
mFcstRev.ResCusts	0.002	0.000	32.572	0%
mBin.Mar12	-205.834	0.806	-255.464	0%
AR(1)	0.943	0.032	29.550	0%

Model Statistics	
Iterations	9
Adjusted Observations	127
Deg. of Freedom for Error	124
R-Squared	0.997
Adjusted R-Squared	0.997
AIC	0.229
BIC	0.296
F-Statistic	12428.527
Prob (F-Statistic)	0.000
Log-Likelihood	-191.72
Model Sum of Squares	45780
Sum of Squared Errors	152
Mean Squared Error	1.23
Std. Error of Regression	1.11
Mean Abs. Dev. (MAD)	0.59
Mean Abs. % Err. (MAPE)	1.02%
Durbin-Watson Statistic	2.001
Durbin-H Statistic	0.000
Ljung-Box Statistic	21.26
Prob (Ljung-Box)	0.624
Skewness	0.369
Kurtosis	10.617
Jarque-Bera	309.939
Prob (Jarque-Bera)	0.000

Forecast Statistics	
Forecast Observations	0
Mean Abs. Dev. (MAD)	0.00
Mean Abs. % Err. (MAPE)	0.00%
Avg. Forecast Error	0.00
Mean % Error	0.00%
Root Mean-Square Error	0.00
Theil's Inequality Coefficient	0.000
-- Bias Proportion	0.00%
-- Variance Proportion	0.00%
-- Covariance Proportion	0.00%

Variable	Coefficient	Mean	Elast
mFcstRev.ResCusts	0.002	22978.219	1.017
mBin.Mar12	-205.834	0.008	-0.029