

1	Variable	Description	Definition
2	Res_UPC_AS	Historic residential Natural Gas Average Usage (Therms/cust)	from company records
3	Heating	Residential heating Statistically Adjusted End-use variable	HeatUse * HeatIndex
4	January	Monthly seasonal variable for the month of January	= 1 if month is January, = 0 for all other months
5	February	Monthly seasonal variable for the month of February	= 1 if month is February, = 0 for all other months
6	March	Monthly seasonal variable for the month of March	= 1 if month is March, = 0 for all other months
7	April	Monthly seasonal variable for the month of April	= 1 if month is April, = 0 for all other months
8	October	Monthly seasonal variable for the month of October	= 1 if month is October, = 0 for all other months
9	November	Monthly seasonal variable for the month of November	= 1 if month is November, = 0 for all other months
10	December	Monthly seasonal variable for the month of December	= 1 if month is December, = 0 for all other months
11	AR(1)	First order autoregressive error correction term	developed in regression
12	AR(2)	Second order autoregressive error correction term	developed in regression
13	HeatUse	residential heating utilization variable	$HHSIZEINDEX^{0.3} * HHINCOMEINDEX^{0.05} * NGPRICEINDEX^{-0.12} * HDD\_INDEX$
14	NGHeating	residential saturation/efficiency index for natural gas heating	from Itron, Inc. updated with PSCo customer saturations
15	Population	Colorado Population (000)	from Global Insight Inc.
16	Households	Colorado Households (000)	from Global Insight Inc.
17	Household_Size	average population per household	population/households
18	Real_Personal_Income	Colorado personal income (\$million)	from Global Insight Inc.
19	HH_Income	Income per household (000)	Real_Personal_Income/Households
20	NGPrice	natural gas price	from Global Insight Inc.
21	HDD_Index	Heating degree days indexed to 2005	= HDD / HDD 2005
22	HDD	actual and forecasted heating degree days	2000-June 2012 actual HDD, July 2012 and beyond are normal HDD
23	HH_Income	Income per household	Real_Personal_Income/Households
24	HHSIZEINDEX	households indexed to July 2005	Households/Households(July, 2005)
25	HHINCOMEINDEX	household income indexed to July 2005	HH_Income/HH_Income(July, 2005)
26	NGPRICEINDEX	natural gas price indexed to July 2005	NGPrice/NGPrice(July,2005)
27	Billing_Days	average number of consumption days billed for	from company records
28	TrendVar	Trend variable	Year - 1980 + (month/12)
29	SAE	statistically adjusted end-use	

Variable	Coefficient	StdErr	T-Stat	P-Value
BillingDays	0.072	0.013	5.735	0.00%
Heating	0.843	0.025	34.242	0.00%
Jan	3.443	0.287	12.001	0.00%
Feb	2.544	0.241	10.574	0.00%
Mar	1.807	0.208	8.694	0.00%
Apr	0.432	0.150	2.871	0.47%
Oct	-0.288	0.120	-2.392	1.80%
Nov	0.369	0.162	2.274	2.44%
Dec	1.917	0.237	8.085	0.00%
TrendVar	-0.024	0.012	-1.959	5.21%
AR(1)	0.284	0.084	3.369	0.10%
AR(2)	0.151	0.083	1.830	6.93%

1	Model Statistics	
2	Iterations	10
3	Adjusted Observations	154
4	Deg. of Freedom for Error	142
5	R-Squared	0.993
6	Adjusted R-Squared	0.993
7	AIC	-1.797
8	BIC	-1.560
9	F-Statistic	NA
10	Prob (F-Statistic)	NA
11	Log-Likelihood	-68.15
12	Model Sum of Squares	3,165.28
13	Sum of Squared Errors	21.85
14	Mean Squared Error	0.15
15	Std. Error of Regression	0.39
16	Mean Abs. Dev. (MAD)	0.27
17	Mean Abs. % Err. (MAPE)	5.39%
18	Durbin-Watson Statistic	1.985
19	Durbin-H Statistic	NA
20	Ljung-Box Statistic	17.77
21	Prob (Ljung-Box)	0.8142
22	Skewness	-0.339
23	Kurtosis	6.209
24	Jarque-Bera	69.034
25	Prob (Jarque-Bera)	0.0000

1	Year	Month	Actual	Pred	Resid	%Resid	StdResid
2	2004	1	14.601				
3	2004	2	13.694				
4	2004	3	11.568	11.178	0.391	0.034	0.996
5	2004	4	5.791	6.290	-0.499	-0.086	-1.272
6	2004	5	5.556	6.263	-0.707	-0.127	-1.801
7	2004	6	3.063	2.845	0.219	0.071	0.557
8	2004	7	2.141	2.079	0.062	0.029	0.158
9	2004	8	1.917	1.805	0.112	0.058	0.286
10	2004	9	2.225	2.131	0.093	0.042	0.238
11	2004	10	3.473	3.554	-0.080	-0.023	-0.204
12	2004	11	6.584	6.280	0.304	0.046	0.776
13	2004	12	12.111	12.211	-0.100	-0.008	-0.255
14	2005	1	14.679	14.449	0.230	0.016	0.587
15	2005	2	10.842	11.374	-0.533	-0.049	-1.358
16	2005	3	10.830	11.010	-0.179	-0.017	-0.457
17	2005	4	8.156	7.883	0.273	0.033	0.695
18	2005	5	5.612	5.803	-0.192	-0.034	-0.488
19	2005	6	2.990	3.336	-0.346	-0.116	-0.883
20	2005	7	1.838	1.572	0.265	0.144	0.677
21	2005	8	1.904	1.818	0.087	0.045	0.221
22	2005	9	1.857	1.788	0.069	0.037	0.176
23	2005	10	3.082	3.124	-0.041	-0.013	-0.106
24	2005	11	5.575	5.811	-0.236	-0.042	-0.602
25	2005	12	12.517	11.940	0.577	0.046	1.470
26	2006	1	12.351	14.076	-1.726	-0.140	-4.399
27	2006	2	11.005	11.629	-0.624	-0.057	-1.591
28	2006	3	11.932	11.818	0.115	0.010	0.292
29	2006	4	6.687	6.788	-0.100	-0.015	-0.256
30	2006	5	4.149	4.709	-0.560	-0.135	-1.427
31	2006	6	2.310	2.068	0.242	0.105	0.617
32	2006	7	1.755	1.401	0.354	0.202	0.903
33	2006	8	1.736	1.785	-0.049	-0.028	-0.125
34	2006	9	1.934	2.222	-0.288	-0.149	-0.734
35	2006	10	3.812	3.922	-0.110	-0.029	-0.281
36	2006	11	6.957	6.982	-0.025	-0.004	-0.063
37	2006	12	9.960	10.931	-0.971	-0.097	-2.475
38	2007	1	17.883	16.617	1.266	0.071	3.226
39	2007	2	13.777	14.666	-0.889	-0.065	-2.266
40	2007	3	10.484	10.893	-0.408	-0.039	-1.041
41	2007	4	6.568	6.630	-0.062	-0.009	-0.159
42	2007	5	4.905	4.930	-0.025	-0.005	-0.064
43	2007	6	2.638	2.746	-0.108	-0.041	-0.274
44	2007	7	1.847	1.542	0.305	0.165	0.777
45	2007	8	1.768	1.692	0.076	0.043	0.193
46	2007	9	1.602	1.566	0.036	0.023	0.092
47	2007	10	3.017	3.186	-0.169	-0.056	-0.431
48	2007	11	5.441	5.783	-0.343	-0.063	-0.874
49	2007	12	10.574	11.044	-0.470	-0.044	-1.198
50	2008	1	17.272	16.576	0.696	0.040	1.774
51	2008	2	14.172	13.094	1.078	0.076	2.748
52	2008	3	10.173	10.269	-0.096	-0.009	-0.246

1	Year	Month	Actual	Pred	Resid	%Resid	StdResid
53	2008	4	8.684	8.746	-0.061	-0.007	-0.157
54	2008	5	4.796	5.260	-0.464	-0.097	-1.183
55	2008	6	2.654	2.915	-0.261	-0.098	-0.665
56	2008	7	1.987	1.658	0.328	0.165	0.837
57	2008	8	1.498	1.526	-0.029	-0.019	-0.073
58	2008	9	2.065	2.260	-0.194	-0.094	-0.495
59	2008	10	3.361	3.140	0.221	0.066	0.564
60	2008	11	4.941	5.144	-0.203	-0.041	-0.517
61	2008	12	11.453	11.036	0.417	0.036	1.062
62	2009	1	14.532	14.482	0.050	0.003	0.128
63	2009	2	10.586	10.585	0.001	0.000	0.002
64	2009	3	9.051	9.477	-0.426	-0.047	-1.086
65	2009	4	8.130	7.654	0.476	0.059	1.214
66	2009	5	4.572	4.472	0.100	0.022	0.254
67	2009	6	2.586	2.946	-0.359	-0.139	-0.916
68	2009	7	1.927	1.725	0.202	0.105	0.514
69	2009	8	1.669	1.536	0.132	0.079	0.338
70	2009	9	1.909	1.828	0.081	0.042	0.206
71	2009	10	4.830	4.521	0.310	0.064	0.789
72	2009	11	7.084	6.479	0.605	0.085	1.543
73	2009	12	13.477	12.381	1.096	0.081	2.795
74	2010	1	15.438	15.281	0.157	0.010	0.400
75	2010	2	12.667	12.028	0.639	0.050	1.628
76	2010	3	12.206	11.765	0.440	0.036	1.123
77	2010	4	7.237	7.373	-0.137	-0.019	-0.348
78	2010	5	4.857	5.137	-0.280	-0.058	-0.714
79	2010	6	2.893	2.926	-0.033	-0.011	-0.085
80	2010	7	1.790	1.589	0.201	0.112	0.513
81	2010	8	1.622	1.548	0.074	0.046	0.189
82	2010	9	1.655	1.670	-0.015	-0.009	-0.038
83	2010	10	2.259	2.071	0.189	0.084	0.481
84	2010	11	5.429	5.586	-0.156	-0.029	-0.399
85	2010	12	10.927	10.822	0.105	0.010	0.267
86	2011	1	14.473	15.064	-0.592	-0.041	-1.508
87	2011	2	13.145	12.405	0.739	0.056	1.885
88	2011	3	10.783	11.034	-0.251	-0.023	-0.639
89	2011	4	5.928	6.116	-0.188	-0.032	-0.479
90	2011	5	5.360	5.447	-0.087	-0.016	-0.223
91	2011	6	3.208	3.189	0.019	0.006	0.049
92	2011	7	1.653	1.387	0.266	0.161	0.678
93	2011	8	1.715	1.627	0.088	0.051	0.224
94	2011	9	1.692	1.909	-0.217	-0.128	-0.554
95	2011	10	2.682	2.689	-0.006	-0.002	-0.016
96	2011	11	6.815	6.843	-0.029	-0.004	-0.073
97	2011	12	11.555	11.766	-0.211	-0.018	-0.538
98	2012	1	14.107	14.592	-0.485	-0.034	-1.236
99	2012	2	12.168	12.405	-0.236	-0.019	-0.602
100	2012	3	10.066	10.349	-0.283	-0.028	-0.721
101	2012	4	4.451	4.813	-0.363	-0.081	-0.924
102	2012	5	3.259	3.595	-0.336	-0.103	-0.857
103	2012	6	2.123	1.923	0.200	0.094	0.510

1	Year	Month	Actual	Pred	Resid	%Resid	StdResid
104	2012	7	1.599	1.344	0.255	0.159	0.650
105	2012	8	1.633	1.568	0.065	0.040	0.165
106	2012	9	1.476	1.456	0.020	0.013	0.050
107	2012	10	3.583	3.928	-0.345	-0.096	-0.881
108	2012	11	6.034	6.368	-0.334	-0.055	-0.851
109	2012	12	9.161	9.692	-0.531	-0.058	-1.354
110	2013	1	16.578	16.217	0.361	0.022	0.920
111	2013	2	11.656	11.525	0.131	0.011	0.335
112	2013	3	11.158	11.283	-0.125	-0.011	-0.318
113	2013	4	9.130	9.261	-0.131	-0.014	-0.335
114	2013	5	6.156	5.966	0.190	0.031	0.484
115	2013	6	2.213	2.154	0.058	0.026	0.148
116	2013	7	1.784	1.580	0.204	0.114	0.520
117	2013	8	1.605	1.489	0.116	0.073	0.297
118	2013	9	1.577	1.522	0.055	0.035	0.141
119	2013	10	3.771	4.045	-0.273	-0.073	-0.697
120	2013	11	6.581	6.244	0.337	0.051	0.860
121	2013	12	12.000	12.021	-0.021	-0.002	-0.053
122	2014	1	15.341	15.141	0.200	0.013	0.509
123	2014	2	12.541	12.279	0.263	0.021	0.669
124	2014	3	10.869	10.646	0.223	0.021	0.568
125	2014	4	7.385	7.086	0.299	0.041	0.763
126	2014	5	4.392	4.505	-0.113	-0.026	-0.288
127	2014	6	2.654	2.481	0.173	0.065	0.442
128	2014	7	1.814	1.634	0.180	0.099	0.459
129	2014	8	1.590	1.440	0.151	0.095	0.384
130	2014	9	1.880	1.885	-0.005	-0.003	-0.014
131	2014	10	2.996	2.948	0.048	0.016	0.123
132	2014	11	5.568	5.095	0.473	0.085	1.207
133	2014	12	11.978	11.508	0.470	0.039	1.197
134	2015	1	15.179	15.153	0.026	0.002	0.065
135	2015	2	9.048	9.661	-0.612	-0.068	-1.561
136	2015	3	11.530	11.067	0.463	0.040	1.181
137	2015	4	5.452	5.774	-0.322	-0.059	-0.821
138	2015	5	4.484	4.426	0.058	0.013	0.149
139	2015	6	3.286	3.093	0.193	0.059	0.491
140	2015	7	1.797	1.567	0.230	0.128	0.586
141	2015	8	1.565	1.414	0.151	0.096	0.384
142	2015	9	1.593	1.543	0.050	0.032	0.128
143	2015	10	2.201	2.024	0.177	0.080	0.451
144	2015	11	4.956	5.037	-0.081	-0.016	-0.206
145	2015	12	12.256	11.806	0.450	0.037	1.148
146	2016	1	14.973	15.323	-0.350	-0.023	-0.893
147	2016	2	11.292	11.524	-0.232	-0.021	-0.592
148	2016	3	9.250	9.705	-0.454	-0.049	-1.159
149	2016	4	6.908	6.806	0.101	0.015	0.258
150	2016	5	5.145	5.304	-0.159	-0.031	-0.405
151	2016	6	2.796	2.680	0.116	0.042	0.296
152	2016	7	1.562	1.186	0.376	0.241	0.958
153	2016	8	1.648	1.583	0.065	0.039	0.166
154	2016	9	1.694	1.745	-0.051	-0.030	-0.130

1	Year	Month	Actual	Pred	Resid	%Resid	StdResid
155	2016	10	2.462	2.408	0.054	0.022	0.137
156	2016	11	3.881	4.246	-0.365	-0.094	-0.929
157	2016	12	10.433	11.332	-0.900	-0.086	-2.294
158	2017	1		14.932			
159	2017	2		11.207			
160	2017	3		11.170			
161	2017	4		6.750			
162	2017	5		4.912			
163	2017	6		2.445			
164	2017	7		1.543			
165	2017	8		1.354			
166	2017	9		1.573			
167	2017	10		3.345			
168	2017	11		6.308			
169	2017	12		10.939			
170	2018	1		15.536			
171	2018	2		11.288			
172	2018	3		10.888			
173	2018	4		6.866			
174	2018	5		4.804			
175	2018	6		2.477			
176	2018	7		1.443			
177	2018	8		1.435			
178	2018	9		1.401			
179	2018	10		3.339			
180	2018	11		6.319			
181	2018	12		10.557			
182	2019	1		15.349			
183	2019	2		11.218			
184	2019	3		10.387			
185	2019	4		7.170			
186	2019	5		4.744			
187	2019	6		2.298			
188	2019	7		1.533			
189	2019	8		1.309			
190	2019	9		1.503			
191	2019	10		3.326			
192	2019	11		5.704			
193	2019	12		11.152			
194	2020	1		15.297			
195	2020	2		11.188			
196	2020	3		10.718			
197	2020	4		7.059			
198	2020	5		4.257			
199	2020	6		2.632			
200	2020	7		1.494			
201	2020	8		1.187			
202	2020	9		1.585			
203	2020	10		3.106			
204	2020	11		5.680			
205	2020	12		11.551			

1	Variable	Description	Definition
2	CI_Trans_Sales	historical commercial and transport sales	from company records
3	Heating	commercial heating SAE variable	Com_Heat * Heat_Use
4	Base	commercial base SAE variable	Com_Base * Base_Use
5	HeatingJan	Commercial heating SAE variable for month of January	Heating * Jan
6	HeatingFeb	Commercial heating SAE variable for month of February	Heating * Feb
7	HeatingMar	Commercial heating SAE variable for month of March	Heating * Mar
8	HeatingApr	Commercial heating SAE variable for month of April	Heating * Apr
9	HeatingMay	Commercial heating SAE variable for month of May	Heating * May
10	HeatingOct	Commercial heating SAE variable for month of October	Heating * Oct
11	HeatingNov	Commercial heating SAE variable for month of November	Heating * Nov
12	HeatingDec	Commercial heating SAE variable for month of December	Heating * Dec
13	Jan	Monthly seasonal variable for month of January	= 1 if month is January, = 0 for all other months
14	Feb	Monthly seasonal variable for month of February	= 1 if month is February, = 0 for all other months
15	Mar	Monthly seasonal variable for month of March	= 1 if month is March, = 0 for all other months
16	Apr	Monthly seasonal variable for month of April	= 1 if month is April, = 0 for all other months
17	May	Monthly seasonal variable for month of May	= 1 if month is May, = 0 for all other months
18	Oct	Monthly seasonal variable for month of October	= 1 if month is October, = 0 for all other months
19	Nov	Monthly seasonal variable for month of November	= 1 if month is November, = 0 for all other months
20	Dec	Monthly seasonal variable for month of December	= 1 if month is December, = 0 for all other months
21	SAR(1)	SAR(1)	First order seasonal autoregressive term
22	MAPrice	Weighted Average of Small and Large commercial rates	from company records and forecast model
23	Output	Commercial Gross State Product	from Global Insight, Inc.
24	HDD	actual and forecasted heating degree days	Actual HDD 2005 - Dec 2016, Normal HDD Jan 2017 - 2020
25	HDD_Index	indexed actual and forecasted heating degree days	$(0.75 * HDD + 0.25 * Lag(HDD, 1)) / HDD(2004)$
26	Com_Heat	residential saturation/efficiency index for electric heating	from Itron, Inc. updated with PSCo customer saturations
27	Com_Base	residential saturation/efficiency index for electric base uses	from Itron, Inc. updated with PSCo customer saturations
28	Heat_Use	residential heating utilization variable	$(ComPrice\_Index^{-0.10}) * (ComOutput\_Index^{0.55}) * Billing\_Days/30.5 * HDD\_Index$
29	Base_Use	residential base utilization variable	$(ComPrice\_Index^{-0.10}) * (ComOutput\_Index^{0.55}) * Billing\_Days/30.5$
30	ComPrice_Index	Commercial price indexed to July 2004	MAPrice/MAPrice(July, 2004)
31	ComOutput_Index	Commercial output indexed to July 2004	Output/Output(July, 2004)
32	Billing_Days	average number of consumption days billed for	from company records
33	SAE	statistically adjusted end-use	



1	Variable	Coefficient	StdErr	T-Stat	P-Value
2	HeatingJan	0.077	0.004	20.464	0.00%
3	HeatingFeb	0.091	0.005	19.885	0.00%
4	HeatingMar	0.079	0.005	15.590	0.00%
5	HeatingApr	0.068	0.006	11.641	0.00%
6	HeatingMay	0.068	0.008	8.552	0.00%
7	HeatingOct	0.048	0.015	3.211	0.17%
8	HeatingNov	0.091	0.011	8.265	0.00%
9	HeatingDec	0.073	0.005	13.707	0.00%
10	Base	0.017	0.001	16.868	0.00%
11	SAR(1)	0.687	0.070	9.853	0.00%

1	Model Statistics	
2	Iterations	20
3	Adjusted Observations	132
4	Deg. of Freedom for Error	122
5	R-Squared	0.982
6	Adjusted R-Squared	0.981
7	AIC	26.076
8	BIC	26.294
9	F-Statistic	NA
10	Prob (F-Statistic)	NA
11	Log-Likelihood	-1,898.29
12	Model Sum of Squares	1,307,293,378,166,380.00
13	Sum of Squared Errors	23,946,163,169,350.50
14	Mean Squared Error	196,280,025,978.28
15	Std. Error of Regression	443,035.02
16	Mean Abs. Dev. (MAD)	323,555.84
17	Mean Abs. % Err. (MAPE)	5.99%
18	Durbin-Watson Statistic	2.060
19	Durbin-H Statistic	NA
20	Ljung-Box Statistic	26.25
21	Prob (Ljung-Box)	0.3407
22	Skewness	-0.364
23	Kurtosis	4.443
24	Jarque-Bera	14.363
25	Prob (Jarque-Bera)	0.0008

Year	Month	Actual	Pred	Resid	%Resid	StdResid
2005	1	10,698,951.800				
2005	2	8,827,990.000				
2005	3	8,372,077.100				
2005	4	7,467,893.500				
2005	5	5,683,259.800				
2005	6	4,151,208.500				
2005	7	2,779,064.600				
2005	8	2,745,212.800				
2005	9	2,882,583.000				
2005	10	3,323,110.400				
2005	11	5,342,682.200				
2005	12	8,838,415.000				
2006	1	10,595,389.300	10,258,703.793	336,685.507	3.18%	0.760
2006	2	9,148,378.900	8,883,868.956	264,509.944	2.89%	0.597
2006	3	9,851,133.300	9,290,735.231	560,398.069	5.69%	1.265
2006	4	7,418,466.400	6,363,447.460	1,055,018.940	14.22%	2.381
2006	5	5,024,172.921	5,138,385.377	-114,212.456	-2.27%	-0.258
2006	6	3,943,985.587	3,657,522.261	286,463.326	7.26%	0.647
2006	7	2,829,381.532	2,656,864.767	172,516.765	6.10%	0.389
2006	8	2,962,185.404	2,730,230.639	231,954.765	7.83%	0.524
2006	9	2,977,653.262	2,666,197.284	311,455.978	10.46%	0.703
2006	10	4,050,823.197	3,748,601.533	302,221.664	7.46%	0.682
2006	11	6,332,202.061	6,154,622.059	177,580.002	2.80%	0.401
2006	12	8,199,499.892	7,712,389.570	487,110.322	5.94%	1.099
2007	1	12,854,436.487	12,650,171.321	204,265.166	1.59%	0.461
2007	2	11,628,840.456	11,461,605.130	167,235.326	1.44%	0.377
2007	3	9,747,533.297	9,487,727.164	259,806.133	2.67%	0.586
2007	4	6,496,001.000	7,134,058.528	-638,057.528	-9.82%	-1.440
2007	5	5,687,784.386	5,407,223.875	280,560.511	4.93%	0.633
2007	6	3,857,583.001	3,543,119.235	314,463.766	8.15%	0.710
2007	7	3,019,542.000	2,943,619.165	75,922.835	2.51%	0.171
2007	8	2,720,792.896	2,997,723.336	-276,930.440	-10.18%	-0.625
2007	9	2,418,874.266	2,808,621.370	-389,747.104	-16.11%	-0.880
2007	10	3,382,814.127	3,875,085.642	-492,271.515	-14.55%	-1.111
2007	11	6,556,131.696	5,696,843.720	859,287.976	13.11%	1.940
2007	12	8,181,386.705	8,157,643.761	23,742.944	0.29%	0.054
2008	1	12,818,583.870	13,221,740.978	-403,157.108	-3.15%	-0.910
2008	2	11,488,828.210	11,623,674.044	-134,845.834	-1.17%	-0.304
2008	3	9,274,850.511	8,482,803.049	792,047.462	8.54%	1.788
2008	4	8,095,450.000	7,898,617.094	196,832.906	2.43%	0.444
2008	5	5,811,818.000	5,851,802.511	-39,984.511	-0.69%	-0.090
2008	6	4,016,214.000	3,529,360.722	486,853.278	12.12%	1.099
2008	7	3,034,060.752	3,074,371.131	-40,310.379	-1.33%	-0.091
2008	8	2,765,270.436	2,517,232.527	248,037.909	8.97%	0.560
2008	9	3,171,382.448	2,662,173.045	509,209.403	16.06%	1.149
2008	10	3,487,739.457	3,506,618.578	-18,879.121	-0.54%	-0.043
2008	11	5,198,402.509	5,589,633.226	-391,230.717	-7.53%	-0.883
2008	12	8,523,084.586	8,343,764.628	179,319.958	2.10%	0.405
2009	1	11,604,612.647	10,841,619.892	762,992.755	6.57%	1.722
2009	2	9,366,713.683	8,998,677.345	368,036.338	3.93%	0.831
2009	3	8,285,084.903	8,791,846.418	-506,761.515	-6.12%	-1.144

Year	Month	Actual	Pred	Resid	%Resid	StdResid
2009	4	7,302,752.022	7,135,446.225	167,305.797	2.29%	0.378
2009	5	5,511,333.202	5,114,893.553	396,439.649	7.19%	0.895
2009	6	3,681,899.844	3,660,280.268	21,619.576	0.59%	0.049
2009	7	2,959,110.809	2,916,749.624	42,361.185	1.43%	0.096
2009	8	2,580,140.150	2,678,990.635	-98,850.485	-3.83%	-0.223
2009	9	2,808,229.000	2,992,524.936	-184,295.936	-6.56%	-0.416
2009	10	3,939,862.767	3,885,357.120	54,505.647	1.38%	0.123
2009	11	6,620,933.066	6,184,750.195	436,182.871	6.59%	0.985
2009	12	9,582,906.473	9,563,473.902	19,432.571	0.20%	0.044
2010	1	12,458,329.321	11,375,893.676	1,082,435.645	8.69%	2.443
2010	2	10,401,437.455	10,178,114.953	223,322.502	2.15%	0.504
2010	3	10,132,255.351	10,154,295.289	-22,039.938	-0.22%	-0.050
2010	4	7,256,301.478	7,273,624.849	-17,323.371	-0.24%	-0.039
2010	5	5,323,771.032	5,500,823.755	-177,052.723	-3.33%	-0.400
2010	6	4,068,471.211	3,472,082.482	596,388.729	14.66%	1.346
2010	7	2,666,128.883	2,823,991.423	-157,862.540	-5.92%	-0.356
2010	8	2,386,660.872	2,779,039.241	-392,378.369	-16.44%	-0.886
2010	9	2,427,299.626	2,847,112.679	-419,813.053	-17.30%	-0.948
2010	10	2,646,928.000	3,019,372.421	-372,444.421	-14.07%	-0.841
2010	11	4,640,430.796	5,921,722.267	-1,281,291.471	-27.61%	-2.892
2010	12	8,520,895.000	8,462,947.097	57,947.903	0.68%	0.131
2011	1	10,684,779.109	12,304,928.215	-1,620,149.106	-15.16%	-3.657
2011	2	10,710,571.592	10,710,085.276	486.316	0.00%	0.001
2011	3	9,516,775.763	9,867,850.212	-351,074.449	-3.69%	-0.792
2011	4	6,567,917.913	6,157,028.394	410,889.519	6.26%	0.927
2011	5	5,432,041.100	5,827,850.900	-395,809.800	-7.29%	-0.893
2011	6	4,363,901.371	3,745,952.730	617,948.641	14.16%	1.395
2011	7	2,690,279.916	2,618,309.320	71,970.596	2.68%	0.162
2011	8	2,383,473.453	2,671,461.058	-287,987.605	-12.08%	-0.650
2011	9	2,444,038.231	2,544,925.788	-100,887.557	-4.13%	-0.228
2011	10	2,960,537.215	3,045,239.533	-84,702.318	-2.86%	-0.191
2011	11	5,475,570.996	5,852,719.260	-377,148.264	-6.89%	-0.851
2011	12	8,806,255.685	8,947,415.486	-141,159.801	-1.60%	-0.319
2012	1	11,177,521.980	10,550,703.272	626,818.708	5.61%	1.415
2012	2	9,852,097.126	10,742,874.408	-890,777.282	-9.04%	-2.011
2012	3	9,172,543.963	8,805,080.106	367,463.857	4.01%	0.829
2012	4	5,532,658.172	5,870,818.406	-338,160.234	-6.11%	-0.763
2012	5	4,151,805.467	4,484,116.895	-332,311.428	-8.00%	-0.750
2012	6	3,554,752.285	3,793,852.705	-239,100.420	-6.73%	-0.540
2012	7	2,612,467.000	2,840,101.282	-227,634.282	-8.71%	-0.514
2012	8	2,601,112.884	2,571,115.599	29,997.285	1.15%	0.068
2012	9	2,623,549.226	2,337,130.385	286,418.841	10.92%	0.646
2012	10	3,491,791.977	3,791,113.063	-299,321.086	-8.57%	-0.676
2012	11	5,720,911.479	5,683,634.351	37,277.128	0.65%	0.084
2012	12	7,664,938.113	7,180,765.214	484,172.899	6.32%	1.093
2013	1	12,014,619.720	12,632,450.535	-617,830.815	-5.14%	-1.395
2013	2	10,517,047.703	9,805,081.104	711,966.599	6.77%	1.607
2013	3	9,799,152.512	9,002,393.387	796,759.125	8.13%	1.798
2013	4	8,344,364.928	8,767,963.427	-423,598.499	-5.08%	-0.956
2013	5	6,588,405.257	6,393,090.205	195,315.052	2.96%	0.441
2013	6	3,770,481.307	3,278,211.835	492,269.472	13.06%	1.111

Year	Month	Actual	Pred	Resid	%Resid	StdResid
2013	7	2,755,820.919	2,901,260.711	-145,439.792	-5.28%	-0.328
2013	8	2,576,844.357	2,677,149.266	-100,304.909	-3.89%	-0.226
2013	9	2,272,887.800	2,820,422.468	-547,534.668	-24.09%	-1.236
2013	10	3,357,078.711	3,812,860.903	-455,782.192	-13.58%	-1.029
2013	11	5,953,728.102	5,739,164.906	214,563.196	3.60%	0.484
2013	12	9,236,366.524	9,479,643.543	-243,277.019	-2.63%	-0.549
2014	1	12,086,333.600	12,157,471.405	-71,137.805	-0.59%	-0.161
2014	2	10,866,455.782	10,677,364.550	189,091.232	1.74%	0.427
2014	3	9,808,371.734	10,207,769.548	-399,397.814	-4.07%	-0.902
2014	4	7,458,577.298	6,973,884.792	484,692.506	6.50%	1.094
2014	5	5,258,798.526	5,311,833.744	-53,035.218	-1.01%	-0.120
2014	6	3,962,931.820	3,617,184.092	345,747.728	8.72%	0.780
2014	7	2,921,911.898	2,866,435.882	55,476.016	1.90%	0.125
2014	8	2,630,018.769	2,585,867.310	44,151.459	1.68%	0.100
2014	9	2,817,598.901	2,610,940.398	206,658.503	7.33%	0.466
2014	10	3,399,998.096	3,298,832.798	101,165.298	2.98%	0.228
2014	11	5,028,616.400	5,026,016.141	2,600.259	0.05%	0.006
2014	12	9,839,698.000	9,381,366.001	458,331.999	4.66%	1.035
2015	1	11,918,092.848	11,849,174.396	68,918.452	0.58%	0.156
2015	2	9,306,179.009	9,198,229.739	107,949.270	1.16%	0.244
2015	3	9,841,643.600	10,219,394.929	-377,751.329	-3.84%	-0.853
2015	4	6,434,978.374	6,991,570.082	-556,591.708	-8.65%	-1.256
2015	5	5,313,915.603	5,103,184.428	210,731.175	3.97%	0.476
2015	6	4,579,880.594	3,815,024.238	764,856.356	16.70%	1.726
2015	7	2,904,100.900	3,018,376.740	-114,275.840	-3.93%	-0.258
2015	8	2,753,680.000	2,743,137.027	10,542.973	0.38%	0.024
2015	9	2,837,560.400	2,882,432.883	-44,872.483	-1.58%	-0.101
2015	10	3,039,899.800	3,098,657.878	-58,758.078	-1.93%	-0.133
2015	11	4,770,506.219	5,159,829.225	-389,323.006	-8.16%	-0.879
2015	12	9,725,647.704	10,024,008.895	-298,361.191	-3.07%	-0.673
2016	1	12,209,450.000	11,742,034.565	467,415.435	3.83%	1.055
2016	2	10,602,670.300	11,086,010.282	-483,339.982	-4.56%	-1.091
2016	3	8,705,979.300	9,636,450.907	-930,471.607	-10.69%	-2.100
2016	4	7,628,753.557	6,726,351.095	902,402.462	11.83%	2.037
2016	5	5,965,916.911	6,280,968.944	-315,052.033	-5.28%	-0.711
2016	6	4,353,828.929	4,218,968.650	134,860.279	3.10%	0.304
2016	7	2,923,336.800	2,777,467.523	145,869.277	4.99%	0.329
2016	8	2,879,358.433	3,169,996.991	-290,638.558	-10.09%	-0.656
2016	9	3,060,319.722	2,969,694.798	90,624.924	2.96%	0.205
2016	10	3,361,686.700	3,312,905.163	48,781.537	1.45%	0.110
2016	11	4,631,703.081	4,780,135.903	-148,432.822	-3.20%	-0.335
2016	12	8,577,985.472	8,768,527.775	-190,542.303	-2.22%	-0.430
2017	1		13,216,445.489			
2017	2		10,250,147.894			
2017	3		9,551,880.696			
2017	4		8,080,189.394			
2017	5		6,082,088.663			
2017	6		3,735,229.405			
2017	7		3,247,638.705			
2017	8		2,865,645.308			
2017	9		2,973,210.822			

Year	Month	Actual	Pred	Resid	%Resid	StdResid
2017	10		4,159,576.649			
2017	11		6,228,747.119			
2017	12		9,048,718.905			
2018	1		13,467,165.077			
2018	2		10,421,419.105			
2018	3		10,069,444.354			
2018	4		7,727,393.489			
2018	5		6,191,835.849			
2018	6		3,683,548.581			
2018	7		3,160,525.608			
2018	8		3,139,278.229			
2018	9		2,860,556.904			
2018	10		4,286,868.754			
2018	11		6,883,856.409			
2018	12		8,497,269.561			
2019	1		13,269,026.800			
2019	2		10,428,073.014			
2019	3		9,505,597.163			
2019	4		8,061,979.487			
2019	5		6,275,139.971			
2019	6		3,377,871.285			
2019	7		3,312,548.739			
2019	8		3,061,088.167			
2019	9		3,025,391.448			
2019	10		4,315,415.364			
2019	11		6,149,362.173			
2019	12		9,323,416.477			
2020	1		13,125,528.819			
2020	2		10,293,527.387			
2020	3		10,108,478.087			
2020	4		7,879,386.516			
2020	5		5,518,828.518			
2020	6		3,559,486.556			
2020	7		3,311,977.306			
2020	8		2,965,930.503			
2020	9		3,148,691.351			
2020	10		4,114,682.086			
2020	11		6,142,400.704			
2020	12		9,844,997.916			