

KENTUCKY POWER COMPANY

INTEGRATED RESOURCE PLANNING REPORT TO THE KENTUCKY PUBLIC SERVICE COMMISSION

CHAPTER 2, APPENDIX

VOLUME B

Case No. 2009-_____
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SHORT-TERM CUSTOMERS

Kentucky Power Company
Customer Models

Revscls-Revenue Class

1-Residential

2-Commercial

3.1 Small Industrial

3.15 Small Mine Power

3.2 Large Industrial

3.25 Large Mine Power

3.4 Other Retail

Cust-Number of Customers

Time-Time

res1, res2, com1, com2, com3, com4, ind1, ind2, ind3, ind4, or1, o2, or3, or4, 05, or6

(Binary Variables)

days=Billing Days

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
1998	1	1	142740	32.87684	1/1/1998		0	0	0	0	0	0
1998	1	2	24122	32.94005	1/1/1998		0	0	0	0	0	0
1998	1	3.1	1068	31.34318	1/1/1998		0	0	0	0	0	0
1998	1	3.15	557	32.12939	1/1/1998		0	0	0	0	0	0
1998	1	3.2		31.34318	1/1/1998		0	0	0	0	0	0
1998	1	3.25		32.12939	1/1/1998		0	0	0	0	0	0
1998	1	4	601	31.50908	1/1/1998		0	0	0	0	0	0
1998	2	1	142471	29.37521	2/1/1998		0	0	0	0	0	0
1998	2	2	24003	29.66339	2/1/1998		0	0	0	0	0	0
1998	2	3.1	1079	29.29509	2/1/1998		0	0	0	0	0	0
1998	2	3.15	583	29.49731	2/1/1998		0	0	0	0	0	0
1998	2	3.2		29.29509	2/1/1998		0	0	0	0	0	0
1998	2	3.25		29.49731	2/1/1998		0	0	0	0	0	0
1998	2	4	475	28.67703	2/1/1998		0	0	0	0	0	0
1998	3	1	142614	28.94179	3/1/1998		0	0	0	0	0	0
1998	3	2	23841	29.11042	3/1/1998		0	0	0	0	0	0
1998	3	3.1	1027	30.01376	3/1/1998		0	0	0	0	0	0
1998	3	3.15	588	29.75288	3/1/1998		0	0	0	0	0	0
1998	3	3.2		30.01376	3/1/1998		0	0	0	0	0	0
1998	3	3.25		29.75288	3/1/1998		0	0	0	0	0	0
1998	3	4	480	30.60773	3/1/1998		0	0	0	0	0	0
1998	4	1	142771	29.72901	4/1/1998		0	0	0	0	0	0
1998	4	2	24158	29.95311	4/1/1998		0	0	0	0	0	0
1998	4	3.1	1094	30.2547	4/1/1998		0	0	0	0	0	0
1998	4	3.15	651	29.6743	4/1/1998		0	0	0	0	0	0
1998	4	3.2		30.2547	4/1/1998		0	0	0	0	0	0
1998	4	3.25		29.6743	4/1/1998		0	0	0	0	0	0
1998	4	4	477	30.02336	4/1/1998		0	0	0	0	0	0
1998	5	1	142280	29.4396	5/1/1998		0	0	0	0	0	0
1998	5	2	24055	29.57631	5/1/1998		0	0	0	0	0	0
1998	5	3.1	1049	29.92142	5/1/1998		0	0	0	0	0	0
1998	5	3.15	578	28.83606	5/1/1998		0	0	0	0	0	0
1998	5	3.2		29.92142	5/1/1998		0	0	0	0	0	0
1998	5	3.25		28.83606	5/1/1998		0	0	0	0	0	0
1998	5	4	478	30.6457	5/1/1998		0	0	0	0	0	0
1998	6	1	142257	30.59583	6/1/1998		0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
1998	6	2	24137	31.08907	6/1/1998	0	0	0	0	0	0	0
1998	6	3.1	1064	30.73023	6/1/1998	0	0	0	0	0	0	0
1998	6	3.15	573	30.05578	6/1/1998	0	0	0	0	0	0	0
1998	6	3.2		30.73023	6/1/1998	0	0	0	0	0	0	0
1998	6	3.25		30.05578	6/1/1998	0	0	0	0	0	0	0
1998	6	4	478	30.30709	6/1/1998	0	0	0	0	0	0	0
1998	7	1	142397	30.24007	7/1/1998	0	0	0	0	0	0	0
1998	7	2	24307	30.59889	7/1/1998	0	0	0	0	0	0	0
1998	7	3.1	1071	30.71164	7/1/1998	0	0	0	0	0	0	0
1998	7	3.15	605	30.71526	7/1/1998	0	0	0	0	0	0	0
1998	7	3.2		30.71164	7/1/1998	0	0	0	0	0	0	0
1998	7	3.25		30.71526	7/1/1998	0	0	0	0	0	0	0
1998	7	4	475	30.94345	7/1/1998	0	0	0	0	0	0	0
1998	8	1	142602	29.07755	8/1/1998	0	0	0	0	0	0	0
1998	8	2	24303	29.12294	8/1/1998	0	0	0	0	0	0	0
1998	8	3.1	1059	30.52708	8/1/1998	0	0	0	0	0	0	0
1998	8	3.15	598	29.13308	8/1/1998	0	0	0	0	0	0	0
1998	8	3.2		30.52708	8/1/1998	0	0	0	0	0	0	0
1998	8	3.25		29.13308	8/1/1998	0	0	0	0	0	0	0
1998	8	4	473	30.6068	8/1/1998	0	0	0	0	0	0	0
1998	9	1	142455	30.12568	9/1/1998	0	0	0	0	0	0	0
1998	9	2	24368	30.43004	9/1/1998	0	0	0	0	0	0	0
1998	9	3.1	1055	30.2275	9/1/1998	0	0	0	0	0	0	0
1998	9	3.15	561	30.72314	9/1/1998	0	0	0	0	0	0	0
1998	9	3.2		30.2275	9/1/1998	0	0	0	0	0	0	0
1998	9	3.25		30.72314	9/1/1998	0	0	0	0	0	0	0
1998	9	4	467	30.0889	9/1/1998	0	0	0	0	0	0	0
1998	10	1	142643	29.41782	10/1/1998	0	0	0	0	0	0	0
1998	10	2	24315	29.79386	10/1/1998	0	0	0	0	0	0	0
1998	10	3.1	1060	30.46241	10/1/1998	0	0	0	0	0	0	0
1998	10	3.15	591	29.44436	10/1/1998	0	0	0	0	0	0	0
1998	10	3.2		30.46241	10/1/1998	0	0	0	0	0	0	0
1998	10	3.25		29.44436	10/1/1998	0	0	0	0	0	0	0
1998	10	4	523	30.75693	10/1/1998	0	0	0	0	0	0	0
1998	11	1	142896	29.17203	11/1/1998	0	0	0	0	0	0	0
1998	11	2	24496	29.53779	11/1/1998	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
1998	11	3.1	1080	29.96041	11/1/1998	0	0	0	0	0	0	0
1998	11	3.15	723	29.73279	11/1/1998	0	0	0	0	0	0	0
1998	11	3.2		29.96041	11/1/1998	0	0	0	0	0	0	0
1998	11	3.25		29.73279	11/1/1998	0	0	0	0	0	0	0
1998	11	4	536	29.95855	11/1/1998	0	0	0	0	0	0	0
1998	12	1	143048	32.07434	12/1/1998	0	0	0	0	0	0	0
1998	12	2	24450	32.28276	12/1/1998	0	0	0	0	0	0	0
1998	12	3.1	1070	31.90781	12/1/1998	0	0	0	0	0	0	0
1998	12	3.15	589	33.13144	12/1/1998	0	0	0	0	0	0	0
1998	12	3.2		31.90781	12/1/1998	0	0	0	0	0	0	0
1998	12	3.25		33.13144	12/1/1998	0	0	0	0	0	0	0
1998	12	4	525	31.23566	12/1/1998	0	0	0	0	0	0	0
1999	1	1	143197	32.87684	1/1/1999	0	0	0	0	0	0	0
1999	1	2	24422	32.94005	1/1/1999	0	0	0	0	0	0	0
1999	1	3.1	1056	31.34318	1/1/1999	0	0	0	0	0	0	0
1999	1	3.15	605	32.12939	1/1/1999	0	0	0	0	0	0	0
1999	1	3.2	5	31.34318	1/1/1999	0	0	0	0	0	0	0
1999	1	3.25	2	32.12939	1/1/1999	0	0	0	0	0	0	0
1999	1	4	525	31.50908	1/1/1999	0	0	0	0	0	0	0
1999	2	1	143168	29.37521	2/1/1999	0	0	0	0	0	0	0
1999	2	2	24467	29.66339	2/1/1999	0	0	0	0	0	0	0
1999	2	3.1	1056	29.29509	2/1/1999	0	0	0	0	0	0	0
1999	2	3.15	596	29.49731	2/1/1999	0	0	0	0	0	0	0
1999	2	3.2	5	29.29509	2/1/1999	0	0	0	0	0	0	0
1999	2	3.25	2	29.49731	2/1/1999	0	0	0	0	0	0	0
1999	2	4	526	28.67703	2/1/1999	0	0	0	0	0	0	0
1999	3	1	143337	28.94179	3/1/1999	0	0	0	0	0	0	0
1999	3	2	24536	29.11042	3/1/1999	0	0	0	0	0	0	0
1999	3	3.1	1056	30.01376	3/1/1999	0	0	0	0	0	0	0
1999	3	3.15	595	29.75288	3/1/1999	0	0	0	0	0	0	0
1999	3	3.2	5	30.01376	3/1/1999	0	0	0	0	0	0	0
1999	3	3.25	2	29.75288	3/1/1999	0	0	0	0	0	0	0
1999	3	4	526	30.60773	3/1/1999	0	0	0	0	0	0	0
1999	4	1	143195	29.72901	4/1/1999	0	0	0	0	0	0	0
1999	4	2	24622	29.95311	4/1/1999	0	0	0	0	0	0	0
1999	4	3.1	1052	30.2547	4/1/1999	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
1999	4	3.15	589	29.6743	4/1/1999		0	0	0	0	0	0
1999	4	3.2	5	30.2547	4/1/1999		0	0	0	0	0	0
1999	4	3.25	2	29.6743	4/1/1999		0	0	0	0	0	0
1999	4	4	527	30.02336	4/1/1999		0	0	0	0	0	0
1999	5	1	142917	29.4396	5/1/1999		0	0	0	0	0	0
1999	5	2	24638	29.57631	5/1/1999		0	0	0	0	0	0
1999	5	3.1	1048	29.92142	5/1/1999		0	0	0	0	0	0
1999	5	3.15	584	28.83606	5/1/1999		0	0	0	0	0	0
1999	5	3.2	5	29.92142	5/1/1999		0	0	0	0	0	0
1999	5	3.25	2	28.83606	5/1/1999		0	0	0	0	0	0
1999	5	4	527	30.6457	5/1/1999		0	0	0	0	0	0
1999	6	1	142951	30.59583	6/1/1999		0	0	0	0	0	0
1999	6	2	24696	31.08907	6/1/1999		0	0	0	0	0	0
1999	6	3.1	1052	30.73023	6/1/1999		0	0	0	0	0	0
1999	6	3.15	578	30.05578	6/1/1999		0	0	0	0	0	0
1999	6	3.2	5	30.73023	6/1/1999		0	0	0	0	0	0
1999	6	3.25	2	30.05578	6/1/1999		0	0	0	0	0	0
1999	6	4	529	30.30709	6/1/1999		0	0	0	0	0	0
1999	7	1	142955	30.24007	7/1/1999		0	0	0	0	0	0
1999	7	2	24793	30.59889	7/1/1999		0	0	0	0	0	0
1999	7	3.1	1056	30.7164	7/1/1999		0	0	0	0	0	0
1999	7	3.15	571	30.71526	7/1/1999		0	0	0	0	0	0
1999	7	3.2	5	30.7164	7/1/1999		0	0	0	0	0	0
1999	7	3.25	2	30.71526	7/1/1999		0	0	0	0	0	0
1999	7	4	532	30.94345	7/1/1999		0	0	0	0	0	0
1999	8	1	143050	29.07755	8/1/1999		0	0	0	0	0	0
1999	8	2	24858	29.12294	8/1/1999		0	0	0	0	0	0
1999	8	3.1	1056	30.52708	8/1/1999		0	0	0	0	0	0
1999	8	3.15	566	29.13308	8/1/1999		0	0	0	0	0	0
1999	8	3.2	4	30.52708	8/1/1999		0	0	0	0	0	0
1999	8	3.25	2	29.13308	8/1/1999		0	0	0	0	0	0
1999	8	4	530	30.6068	8/1/1999		0	0	0	0	0	0
1999	9	1	143099	30.12568	9/1/1999		0	0	0	0	0	0
1999	9	2	24884	30.43004	9/1/1999		0	0	0	0	0	0
1999	9	3.1	1055	30.2275	9/1/1999		0	0	0	0	0	0
1999	9	3.15	597	30.72314	9/1/1999		0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
1999	9	3.2	5	30.2275	9/1/1999	0	0	0	0	0	0	0
1999	9	3.25	2	30.72314	9/1/1999	0	0	0	0	0	0	0
1999	9	4	531	30.0889	9/1/1999	0	0	0	0	0	0	0
1999	10	1	143243	29.41782	10/1/1999	0	0	0	0	0	0	0
1999	10	2	25160	29.79386	10/1/1999	0	0	0	0	0	0	0
1999	10	3.1	1057	30.46241	10/1/1999	0	0	0	0	0	0	0
1999	10	3.15	573	29.44436	10/1/1999	0	0	0	0	0	0	0
1999	10	3.2	5	30.46241	10/1/1999	0	0	0	0	0	0	0
1999	10	3.25	2	29.44436	10/1/1999	0	0	0	0	0	0	0
1999	10	4	532	30.75693	10/1/1999	0	0	0	0	0	0	0
1999	11	1	143398	29.17203	11/1/1999	0	0	0	0	0	0	0
1999	11	2	25140	29.53779	11/1/1999	0	0	0	0	0	0	0
1999	11	3.1	1054	29.96041	11/1/1999	0	0	0	0	0	0	0
1999	11	3.15	577	29.73279	11/1/1999	0	0	0	0	0	0	0
1999	11	3.2	5	29.96041	11/1/1999	0	0	0	0	0	0	0
1999	11	3.25	2	29.73279	11/1/1999	0	0	0	0	0	0	0
1999	11	4	531	29.95855	11/1/1999	0	0	0	0	0	0	0
1999	12	1	143574	32.07434	12/1/1999	0	0	0	0	0	0	0
1999	12	2	25165	32.28276	12/1/1999	0	0	0	0	0	0	0
1999	12	3.1	1050	31.90781	12/1/1999	0	0	0	0	0	0	0
1999	12	3.15	573	33.13144	12/1/1999	0	0	0	0	0	0	0
1999	12	3.2	5	31.90781	12/1/1999	0	0	0	0	0	0	0
1999	12	3.25	2	33.13144	12/1/1999	0	0	0	0	0	0	0
1999	12	4	531	31.23566	12/1/1999	0	0	0	0	0	0	0
2000	1	1	143869	32.87684	1/1/2000	0	0	0	0	0	0	0
2000	1	2	25331	32.94005	1/1/2000	0	0	0	0	0	0	0
2000	1	3.1	1016	31.34318	1/1/2000	0	0	0	0	0	0	1
2000	1	3.15	571	32.12939	1/1/2000	0	0	0	0	0	0	0
2000	1	3.2	5	31.34318	1/1/2000	0	0	0	0	0	0	0
2000	1	3.25	2	32.12939	1/1/2000	0	0	0	0	0	0	0
2000	1	4	533	31.50908	1/1/2000	0	0	0	0	0	0	0
2000	2	1	143934	29.37521	2/1/2000	0	0	0	0	0	0	0
2000	2	2	25282	29.66339	2/1/2000	0	0	0	0	0	0	0
2000	2	3.1	973	29.29509	2/1/2000	0	0	0	0	0	0	1
2000	2	3.15	558	29.49731	2/1/2000	0	0	0	0	0	0	0
2000	2	3.2	5	29.29509	2/1/2000	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2000	2	3.25	2	29.49731	2/1/2000	0	0	0	0	0	0	0
2000	2	4	530	28.67703	2/1/2000	0	0	0	0	0	0	0
2000	3	1	143862	28.94179	3/1/2000	0	0	0	0	0	0	0
2000	3	2	25311	29.11042	3/1/2000	0	0	0	0	0	0	0
2000	3	3.1	966	30.01376	3/1/2000	0	0	0	0	0	0	0
2000	3	3.15	561	29.75288	3/1/2000	0	0	0	0	0	0	0
2000	3	3.2	5	30.01376	3/1/2000	0	0	0	0	0	0	0
2000	3	3.25	2	29.75288	3/1/2000	0	0	0	0	0	0	0
2000	3	4	530	30.60773	3/1/2000	0	0	0	0	0	0	0
2000	4	1	143461	29.72901	4/1/2000	0	0	0	0	0	0	0
2000	4	2	25327	29.95311	4/1/2000	0	0	0	0	0	0	0
2000	4	3.1	975	30.2547	4/1/2000	0	0	0	0	0	0	0
2000	4	3.15	556	29.6743	4/1/2000	0	0	0	0	0	0	0
2000	4	3.2	5	30.2547	4/1/2000	0	0	0	0	0	0	0
2000	4	3.25	2	29.6743	4/1/2000	0	0	0	0	0	0	0
2000	4	4	532	30.02336	4/1/2000	0	0	0	0	0	0	0
2000	5	1	143434	29.4396	5/1/2000	0	0	0	0	0	0	0
2000	5	2	25431	29.57631	5/1/2000	0	0	0	0	0	0	0
2000	5	3.1	968	29.92142	5/1/2000	0	0	0	0	0	0	0
2000	5	3.15	549	28.83606	5/1/2000	0	0	0	0	0	0	0
2000	5	3.2	5	29.92142	5/1/2000	0	0	0	0	0	0	0
2000	5	3.25	2	28.83606	5/1/2000	0	0	0	0	0	0	0
2000	5	4	531	30.6457	5/1/2000	0	0	0	0	0	0	0
2000	6	1	143303	30.59583	6/1/2000	0	0	0	0	0	0	0
2000	6	2	25460	31.08907	6/1/2000	0	0	0	0	0	0	0
2000	6	3.1	958	30.73023	6/1/2000	0	0	0	0	0	0	0
2000	6	3.15	543	30.05578	6/1/2000	0	0	0	0	0	0	0
2000	6	3.2	5	30.73023	6/1/2000	0	0	0	0	0	0	0
2000	6	3.25	2	30.05578	6/1/2000	0	0	0	0	0	0	0
2000	6	4	534	30.30709	6/1/2000	0	0	0	0	0	0	0
2000	7	1	143298	30.24007	7/1/2000	0	0	0	0	0	0	0
2000	7	2	25553	30.59889	7/1/2000	0	0	0	0	0	0	0
2000	7	3.1	963	30.7164	7/1/2000	0	0	0	0	0	0	0
2000	7	3.15	546	30.71526	7/1/2000	0	0	0	0	0	0	0
2000	7	3.2	5	30.7164	7/1/2000	0	0	0	0	0	0	0
2000	7	3.25	2	30.71526	7/1/2000	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2000	7	4	534	30.94345	7/1/2000	0	0	0	0	0	0	0
2000	8	1	143438	29.07755	8/1/2000	0	0	0	0	0	0	0
2000	8	2	25605	29.12294	8/1/2000	0	0	0	0	0	0	0
2000	8	3.1	967	30.52708	8/1/2000	0	0	0	0	0	0	0
2000	8	3.15	579	29.13308	8/1/2000	0	0	0	0	0	0	0
2000	8	3.2	5	30.52708	8/1/2000	0	0	0	0	0	0	0
2000	8	3.25	2	29.13308	8/1/2000	0	0	0	0	0	0	0
2000	8	4	532	30.6068	8/1/2000	0	0	0	0	0	0	0
2000	9	1	143541	30.12568	9/1/2000	0	0	0	0	0	0	0
2000	9	2	25597	30.43004	9/1/2000	0	0	0	0	0	0	0
2000	9	3.1	968	30.2275	9/1/2000	0	0	0	0	0	0	0
2000	9	3.15	517	30.72314	9/1/2000	0	0	0	0	0	0	0
2000	9	3.2	5	30.2275	9/1/2000	0	0	0	0	0	0	0
2000	9	3.25	2	30.72314	9/1/2000	0	0	0	0	0	0	0
2000	9	4	536	30.0889	9/1/2000	0	0	0	0	0	0	0
2000	10	1	143672	29.41782	10/1/2000	0	0	0	0	0	0	0
2000	10	2	25596	29.79386	10/1/2000	0	0	0	0	0	0	0
2000	10	3.1	967	30.46241	10/1/2000	0	0	0	0	0	0	0
2000	10	3.15	549	29.44436	10/1/2000	0	0	0	0	0	0	0
2000	10	3.2	5	30.46241	10/1/2000	0	0	0	0	0	0	0
2000	10	3.25	2	29.44436	10/1/2000	0	0	0	0	0	0	0
2000	10	4	532	30.75693	10/1/2000	0	0	0	0	0	0	0
2000	11	1	143791	29.17203	11/1/2000	0	0	0	0	0	0	0
2000	11	2	25750	29.53779	11/1/2000	0	0	0	0	0	0	0
2000	11	3.1	967	29.96041	11/1/2000	0	0	0	0	0	0	0
2000	11	3.15	525	29.73279	11/1/2000	0	0	0	0	0	0	0
2000	11	3.2	5	29.96041	11/1/2000	0	0	0	0	0	0	0
2000	11	3.25	2	29.73279	11/1/2000	0	0	0	0	0	0	0
2000	11	4	532	29.95855	11/1/2000	0	0	0	0	0	0	0
2000	12	1	144226	32.07434	12/1/2000	0	0	0	0	0	0	0
2000	12	2	25765	32.28276	12/1/2000	0	0	0	0	0	0	0
2000	12	3.1	965	31.90781	12/1/2000	0	0	0	0	0	0	0
2000	12	3.15	523	33.13144	12/1/2000	0	0	0	0	0	0	0
2000	12	3.2	4	31.90781	12/1/2000	0	0	0	0	0	0	0
2000	12	3.25	2	33.13144	12/1/2000	0	0	0	0	0	0	0
2000	12	4	471	31.23566	12/1/2000	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2001	1	1	144223	32.87684	1/1/2001		0	0	0	0	0	0
2001	1	2	25718	32.94005	1/1/2001		0	0	0	0	0	0
2001	1	3.1	968	31.34318	1/1/2001		0	0	0	0	0	1
2001	1	3.15	538	32.12939	1/1/2001		0	0	0	0	0	0
2001	1	3.2	4	31.34318	1/1/2001		0	0	0	0	0	0
2001	1	3.25	2	32.12939	1/1/2001		0	0	0	0	0	0
2001	1	4	471	31.50908	1/1/2001		0	0	0	0	0	0
2001	2	1	144273	29.37521	2/1/2001		0	0	0	0	0	0
2001	2	2	25785	29.66339	2/1/2001		0	0	0	0	0	0
2001	2	3.1	970	29.29509	2/1/2001		0	0	0	0	0	1
2001	2	3.15	526	29.49731	2/1/2001		0	0	0	0	0	0
2001	2	3.2	5	29.29509	2/1/2001		0	0	0	0	0	0
2001	2	3.25	2	29.49731	2/1/2001		0	0	0	0	0	0
2001	2	4	446	28.67703	2/1/2001		0	0	0	0	0	0
2001	3	1	144119	28.94179	3/1/2001		0	0	0	0	0	0
2001	3	2	25748	29.11042	3/1/2001		0	0	0	0	0	0
2001	3	3.1	966	30.01376	3/1/2001		0	0	0	0	0	1
2001	3	3.15	525	29.75288	3/1/2001		0	0	0	0	0	0
2001	3	3.2	5	30.01376	3/1/2001		0	0	0	0	0	0
2001	3	3.25	2	29.75288	3/1/2001		0	0	0	0	0	0
2001	3	4	446	30.60773	3/1/2001		0	0	0	0	0	0
2001	4	1	143978	29.72901	4/1/2001		0	0	0	0	0	0
2001	4	2	25819	29.95311	4/1/2001		0	0	0	0	0	0
2001	4	3.1	969	30.2547	4/1/2001		0	0	0	0	0	1
2001	4	3.15	525	29.6743	4/1/2001		0	0	0	0	0	0
2001	4	3.2	5	30.2547	4/1/2001		0	0	0	0	0	0
2001	4	3.25	2	29.6743	4/1/2001		0	0	0	0	0	0
2001	4	4	445	30.02336	4/1/2001		0	0	0	0	0	0
2001	5	1	143932	29.4396	5/1/2001		0	0	0	0	0	0
2001	5	2	25876	29.57631	5/1/2001		0	0	0	0	0	0
2001	5	3.1	970	29.92142	5/1/2001		0	0	0	0	0	1
2001	5	3.15	560	28.83606	5/1/2001		0	0	0	0	0	0
2001	5	3.2	5	29.92142	5/1/2001		0	0	0	0	0	0
2001	5	3.25	2	28.83606	5/1/2001		0	0	0	0	0	0
2001	5	4	446	30.6457	5/1/2001		0	0	0	0	0	0
2001	6	1	143849	30.59583	6/1/2001		0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2001	6	2	25911	31.08907	6/1/2001	0	0	0	0	0	0	0
2001	6	3.1	971	30.73023	6/1/2001	0	0	0	0	0	0	1
2001	6	3.15	558	30.05578	6/1/2001	0	0	0	0	0	0	0
2001	6	3.2	5	30.73023	6/1/2001	0	0	0	0	0	0	0
2001	6	3.25	2	30.05578	6/1/2001	0	0	0	0	0	0	0
2001	6	4	445	30.30709	6/1/2001	0	0	0	0	0	0	0
2001	7	1	143853	30.24007	7/1/2001	0	0	0	0	0	0	0
2001	7	2	25942	30.59889	7/1/2001	0	0	0	0	0	0	0
2001	7	3.1	974	30.71164	7/1/2001	0	0	0	0	0	0	1
2001	7	3.15	540	30.71526	7/1/2001	0	0	0	0	0	0	0
2001	7	3.2	5	30.71164	7/1/2001	0	0	0	0	0	0	0
2001	7	3.25	2	30.71526	7/1/2001	0	0	0	0	0	0	0
2001	7	4	446	30.94345	7/1/2001	0	0	0	0	0	0	0
2001	8	1	143911	29.07755	8/1/2001	0	0	0	0	0	0	0
2001	8	2	25971	29.12294	8/1/2001	0	0	0	0	0	0	0
2001	8	3.1	974	30.52708	8/1/2001	0	0	0	0	0	0	1
2001	8	3.15	540	29.13308	8/1/2001	0	0	0	0	0	0	0
2001	8	3.2	5	30.52708	8/1/2001	0	0	0	0	0	0	0
2001	8	3.25	3	29.13308	8/1/2001	0	0	0	0	0	0	0
2001	8	4	445	30.6068	8/1/2001	0	0	0	0	0	0	0
2001	9	1	144012	30.12568	9/1/2001	0	0	0	0	0	0	0
2001	9	2	26078	30.43004	9/1/2001	0	0	0	0	0	0	0
2001	9	3.1	971	30.2275	9/1/2001	0	0	0	0	0	0	1
2001	9	3.15	540	30.72314	9/1/2001	0	0	0	0	0	0	0
2001	9	3.2	5	30.2275	9/1/2001	0	0	0	0	0	0	0
2001	9	3.25	3	30.72314	9/1/2001	0	0	0	0	0	0	0
2001	9	4	444	30.0889	9/1/2001	0	0	0	0	0	0	0
2001	10	1	144138	29.41782	10/1/2001	0	0	0	0	0	0	0
2001	10	2	26151	29.79386	10/1/2001	0	0	0	0	0	0	0
2001	10	3.1	969	30.46241	10/1/2001	0	0	0	0	0	0	1
2001	10	3.15	546	29.44436	10/1/2001	0	0	0	0	0	0	0
2001	10	3.2	5	30.46241	10/1/2001	0	0	0	0	0	0	0
2001	10	3.25	3	29.44436	10/1/2001	0	0	0	0	0	0	0
2001	10	4	444	30.75693	10/1/2001	0	0	0	0	0	0	0
2001	11	1	144214	29.17203	11/1/2001	0	0	0	0	0	0	0
2001	11	2	26236	29.53779	11/1/2001	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2001	11	3.1	968	29.96041	11/1/2001	0	0	0	0	0	0	0
2001	11	3.15	548	29.73279	11/1/2001	0	0	0	0	0	0	0
2001	11	3.2	5	29.96041	11/1/2001	0	0	0	0	0	0	0
2001	11	3.25	3	29.73279	11/1/2001	0	0	0	0	0	0	0
2001	11	4	444	29.95855	11/1/2001	0	0	0	0	0	0	0
2001	12	1	144447	32.07434	12/1/2001	0	0	0	0	0	0	0
2001	12	2	26356	32.28276	12/1/2001	0	0	0	0	0	0	0
2001	12	3.1	964	31.90781	12/1/2001	0	0	0	0	0	1	0
2001	12	3.15	538	33.13144	12/1/2001	0	0	0	0	0	0	0
2001	12	3.2	5	31.90781	12/1/2001	0	0	0	0	0	0	0
2001	12	3.25	3	33.13144	12/1/2001	0	0	0	0	0	0	0
2001	12	4	443	31.23566	12/1/2001	0	0	0	0	0	0	0
2002	1	1	144776	32.87684	1/1/2002	0	0	0	0	0	0	0
2002	1	2	26454	32.94005	1/1/2002	0	0	0	0	0	0	0
2002	1	3.1	940	31.34318	1/1/2002	0	0	0	0	0	1	0
2002	1	3.15	540	32.12939	1/1/2002	0	0	0	0	0	0	0
2002	1	3.2	5	31.34318	1/1/2002	0	0	0	0	0	0	0
2002	1	3.25	3	32.12939	1/1/2002	0	0	0	0	0	0	0
2002	1	4	441	31.50908	1/1/2002	0	0	0	0	0	0	0
2002	2	1	144635	29.37521	2/1/2002	0	0	0	0	0	0	0
2002	2	2	26430	29.66339	2/1/2002	0	0	0	0	0	0	0
2002	2	3.1	959	29.29509	2/1/2002	0	0	0	0	0	1	0
2002	2	3.15	542	29.49731	2/1/2002	0	0	0	0	0	0	0
2002	2	3.2	5	29.29509	2/1/2002	0	0	0	0	0	0	0
2002	2	3.25	3	29.49731	2/1/2002	0	0	0	0	0	0	0
2002	2	4	438	28.67703	2/1/2002	0	0	0	0	0	0	0
2002	3	1	144570	28.94179	3/1/2002	0	0	0	0	0	0	0
2002	3	2	26967	29.11042	3/1/2002	0	0	0	0	1	0	0
2002	3	3.1	964	30.01376	3/1/2002	0	0	0	0	0	0	1
2002	3	3.15	548	29.75288	3/1/2002	0	0	0	0	0	0	0
2002	3	3.2	5	30.01376	3/1/2002	0	0	0	0	0	0	0
2002	3	3.25	3	29.75288	3/1/2002	0	0	0	0	0	0	0
2002	3	4	439	30.60773	3/1/2002	0	0	0	0	0	0	0
2002	4	1	144471	29.72901	4/1/2002	0	0	0	0	0	0	0
2002	4	2	26499	29.95311	4/1/2002	0	0	0	0	0	0	0
2002	4	3.1	956	30.2547	4/1/2002	0	0	0	0	0	0	1

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2002	4	3.15	536	29.6743	4/1/2002	0	0	0	0	0	0	0
2002	4	3.2	5	30.2547	4/1/2002	0	0	0	0	0	0	0
2002	4	3.25	3	29.6743	4/1/2002	0	0	0	0	0	0	0
2002	4	4	439	30.02336	4/1/2002	0	0	0	0	0	0	0
2002	5	1	144097	29.4396	5/1/2002	0	0	0	0	0	0	0
2002	5	2	26568	29.57631	5/1/2002	0	0	0	0	0	0	0
2002	5	3.1	1017	29.92142	5/1/2002	0	0	0	0	0	1	0
2002	5	3.15	540	28.83606	5/1/2002	0	0	0	0	0	0	0
2002	5	3.2	5	29.92142	5/1/2002	0	0	0	0	0	0	0
2002	5	3.25	3	28.83606	5/1/2002	0	0	0	0	0	0	0
2002	5	4	439	30.6457	5/1/2002	0	0	0	0	0	0	0
2002	6	1	144170	30.59583	6/1/2002	0	0	0	0	0	0	0
2002	6	2	26594	31.08907	6/1/2002	0	0	0	0	0	0	0
2002	6	3.1	962	30.73023	6/1/2002	0	0	0	0	0	1	0
2002	6	3.15	530	30.05578	6/1/2002	0	0	0	0	0	0	0
2002	6	3.2	5	30.73023	6/1/2002	0	0	0	0	0	0	0
2002	6	3.25	3	30.05578	6/1/2002	0	0	0	0	0	0	0
2002	6	4	439	30.30709	6/1/2002	0	0	0	0	0	0	0
2002	7	1	144163	30.24007	7/1/2002	0	0	0	0	0	0	0
2002	7	2	26774	30.59889	7/1/2002	0	0	0	0	0	0	0
2002	7	3.1	960	30.7164	7/1/2002	0	0	0	0	0	1	0
2002	7	3.15	533	30.71526	7/1/2002	0	0	0	0	0	0	0
2002	7	3.2	5	30.7164	7/1/2002	0	0	0	0	0	0	0
2002	7	3.25	3	30.71526	7/1/2002	0	0	0	0	0	0	0
2002	7	4	439	30.94345	7/1/2002	0	0	0	0	0	0	0
2002	8	1	144235	29.07755	8/1/2002	0	0	0	0	0	0	0
2002	8	2	26798	29.12294	8/1/2002	0	0	0	0	0	0	0
2002	8	3.1	975	30.52708	8/1/2002	0	0	0	0	0	1	0
2002	8	3.15	531	29.13308	8/1/2002	0	0	0	0	0	0	0
2002	8	3.2	5	30.52708	8/1/2002	0	0	0	0	0	0	0
2002	8	3.25	3	29.13308	8/1/2002	0	0	0	0	0	0	0
2002	8	4	438	30.6068	8/1/2002	0	0	0	0	0	0	0
2002	9	1	144234	30.12568	9/1/2002	0	0	0	0	0	0	0
2002	9	2	26840	30.43004	9/1/2002	0	0	0	0	0	0	0
2002	9	3.1	949	30.2275	9/1/2002	0	0	0	0	0	1	0
2002	9	3.15	520	30.72314	9/1/2002	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2002	9	3.2	5	30.2275	9/1/2002	0	0	0	0	0	0	0
2002	9	3.25	3	30.72314	9/1/2002	0	0	0	0	0	0	0
2002	9	4	500	30.0889	9/1/2002	0	0	0	0	0	0	0
2002	10	1	144277	29.41782	10/1/2002	0	0	0	0	0	0	0
2002	10	2	26773	29.79386	10/1/2002	0	0	0	0	0	0	0
2002	10	3.1	946	30.46241	10/1/2002	0	0	0	0	0	0	1
2002	10	3.15	514	29.44436	10/1/2002	0	0	0	0	0	0	0
2002	10	3.2	5	30.46241	10/1/2002	0	0	0	0	0	0	0
2002	10	3.25	3	29.44436	10/1/2002	0	0	0	0	0	0	0
2002	10	4	440	30.75693	10/1/2002	0	0	0	0	0	0	0
2002	11	1	144470	29.17203	11/1/2002	0	0	0	0	0	0	0
2002	11	2	26847	29.53779	11/1/2002	0	0	0	0	0	0	0
2002	11	3.1	949	29.96041	11/1/2002	0	0	0	0	0	0	1
2002	11	3.15	539	29.73279	11/1/2002	0	0	0	0	0	0	0
2002	11	3.2	5	29.96041	11/1/2002	0	0	0	0	0	0	0
2002	11	3.25	3	29.73279	11/1/2002	0	0	0	0	0	0	0
2002	11	4	440	29.95855	11/1/2002	0	0	0	0	0	0	0
2002	12	1	144696	32.07434	12/1/2002	0	0	0	0	0	0	0
2002	12	2	26903	32.28276	12/1/2002	0	0	0	0	0	0	0
2002	12	3.1	944	31.90781	12/1/2002	0	0	0	0	0	0	1
2002	12	3.15	523	33.13144	12/1/2002	0	0	0	0	0	0	0
2002	12	3.2	6	31.90781	12/1/2002	0	0	0	0	0	0	0
2002	12	3.25	3	33.13144	12/1/2002	0	0	0	0	0	0	0
2002	12	4	448	31.23566	12/1/2002	0	0	0	0	0	0	0
2003	1	1	144903	32.87684	1/1/2003	0	0	0	0	0	0	0
2003	1	2	26893	32.94005	1/1/2003	0	0	0	0	0	0	0
2003	1	3.1	942	31.34318	1/1/2003	0	0	0	0	0	0	1
2003	1	3.15	519	32.12939	1/1/2003	0	0	0	0	0	0	0
2003	1	3.2	6	31.34318	1/1/2003	0	0	0	0	0	0	0
2003	1	3.25	3	32.12939	1/1/2003	0	0	0	0	0	0	0
2003	1	4	451	31.50908	1/1/2003	0	0	0	0	0	0	0
2003	2	1	144848	29.37521	2/1/2003	0	0	0	0	0	0	0
2003	2	2	26858	29.66339	2/1/2003	0	0	0	0	0	0	0
2003	2	3.1	941	29.29509	2/1/2003	0	0	0	0	0	0	1
2003	2	3.15	516	29.49731	2/1/2003	0	0	0	0	0	0	0
2003	2	3.2	7	29.29509	2/1/2003	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2003	2	3.25	3	29.49731	2/1/2003	0	0	0	0	0	0	0
2003	2	4	454	28.67703	2/1/2003	0	0	0	0	0	0	0
2003	3	1	144700	28.94179	3/1/2003	0	0	0	0	0	0	0
2003	3	2	26904	29.11042	3/1/2003	0	0	0	0	0	0	0
2003	3	3.1	935	30.01376	3/1/2003	0	0	0	0	0	0	0
2003	3	3.15	549	29.75288	3/1/2003	0	0	0	0	0	0	0
2003	3	3.2	7	30.01376	3/1/2003	0	0	0	0	0	0	0
2003	3	3.25	3	29.75288	3/1/2003	0	0	0	0	0	0	0
2003	3	4	455	30.60773	3/1/2003	0	0	0	0	0	0	0
2003	4	1	144415	29.72901	4/1/2003	0	0	0	0	0	0	0
2003	4	2	26912	29.95311	4/1/2003	0	0	0	0	0	0	0
2003	4	3.1	968	30.2547	4/1/2003	0	0	0	0	0	0	0
2003	4	3.15	525	29.6743	4/1/2003	0	0	0	0	0	0	0
2003	4	3.2	7	30.2547	4/1/2003	0	0	0	0	0	0	0
2003	4	3.25	3	29.6743	4/1/2003	0	0	0	0	0	0	0
2003	4	4	447	30.02336	4/1/2003	0	0	0	0	0	0	0
2003	5	1	144250	29.4396	5/1/2003	0	0	0	0	0	0	0
2003	5	2	26961	29.57631	5/1/2003	0	0	0	0	0	0	0
2003	5	3.1	933	29.92142	5/1/2003	0	0	0	0	0	0	0
2003	5	3.15	516	28.83606	5/1/2003	0	0	0	0	0	0	0
2003	5	3.2	7	29.92142	5/1/2003	0	0	0	0	0	0	0
2003	5	3.25	3	28.83606	5/1/2003	0	0	0	0	0	0	0
2003	5	4	447	30.6457	5/1/2003	0	0	0	0	0	0	0
2003	6	1	144177	30.59583	6/1/2003	0	0	0	0	0	0	0
2003	6	2	27000	31.08907	6/1/2003	0	0	0	0	0	0	0
2003	6	3.1	929	30.73023	6/1/2003	0	0	0	0	0	0	0
2003	6	3.15	518	30.05578	6/1/2003	0	0	0	0	0	0	0
2003	6	3.2	7	30.73023	6/1/2003	0	0	0	0	0	0	0
2003	6	3.25	3	30.05578	6/1/2003	0	0	0	0	0	0	0
2003	6	4	446	30.30709	6/1/2003	0	0	0	0	0	0	0
2003	7	1	144130	30.29391	7/1/2003	0	0	0	0	0	0	0
2003	7	2	27038	30.86338	7/1/2003	0	0	0	0	0	0	0
2003	7	3.1	931	30.94672	7/1/2003	0	0	0	0	0	0	0
2003	7	3.15	509	30.70315	7/1/2003	0	0	0	0	0	0	0
2003	7	3.2	7	30.94672	7/1/2003	0	0	0	0	0	0	0
2003	7	3.25	3	30.70315	7/1/2003	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2003	7	4	446	31.01139	7/1/2003	0	0	0	0	0	0	0
2003	8	1	144290	28.83001	8/1/2003	0	0	0	0	0	0	0
2003	8	2	27940	29.00117	8/1/2003	0	0	0	0	0	1	0
2003	8	3.1	924	30.44573	8/1/2003	0	0	0	0	0	0	1
2003	8	3.15	517	28.74418	8/1/2003	0	0	0	0	0	0	0
2003	8	3.2	7	30.44573	8/1/2003	0	0	0	0	0	0	0
2003	8	3.25	3	28.74418	8/1/2003	0	0	0	0	0	0	0
2003	8	4	447	30.42665	8/1/2003	0	0	0	0	0	0	0
2003	9	1	144411	30.31453	9/1/2003	0	0	0	0	0	0	0
2003	9	2	27992	30.31791	9/1/2003	0	0	0	0	0	1	0
2003	9	3.1	920	30.1493	9/1/2003	0	0	0	0	0	0	1
2003	9	3.15	512	30.46651	9/1/2003	0	0	0	0	0	0	0
2003	9	3.2	7	30.1493	9/1/2003	0	0	0	0	0	0	0
2003	9	3.25	3	30.46651	9/1/2003	0	0	0	0	0	0	0
2003	9	4	445	30.07233	9/1/2003	0	0	0	0	0	0	0
2003	10	1	144406	29.51032	10/1/2003	0	0	0	0	0	0	0
2003	10	2	28029	29.9769	10/1/2003	0	0	0	0	0	1	0
2003	10	3.1	916	30.5901	10/1/2003	0	0	0	0	0	0	1
2003	10	3.15	502	29.39848	10/1/2003	0	0	0	0	0	0	0
2003	10	3.2	7	30.5901	10/1/2003	0	0	0	0	0	0	0
2003	10	3.25	3	29.39848	10/1/2003	0	0	0	0	0	0	0
2003	10	4	445	30.76598	10/1/2003	0	0	0	0	0	0	0
2003	11	1	144466	29.06951	11/1/2003	0	0	0	0	0	0	0
2003	11	2	28046	29.40952	11/1/2003	0	0	0	0	0	1	0
2003	11	3.1	922	29.78767	11/1/2003	0	0	0	0	0	0	1
2003	11	3.15	515	29.8993	11/1/2003	0	0	0	0	0	0	0
2003	11	3.2	7	29.78767	11/1/2003	0	0	0	0	0	0	0
2003	11	3.25	3	29.8993	11/1/2003	0	0	0	0	0	0	0
2003	11	4	445	29.98567	11/1/2003	0	0	0	0	0	0	0
2003	12	1	144850	31.97093	12/1/2003	0	0	0	0	0	0	0
2003	12	2	28110	32.20919	12/1/2003	0	0	0	0	0	1	0
2003	12	3.1	943	32.00953	12/1/2003	0	0	0	0	0	0	1
2003	12	3.15	533	33.23109	12/1/2003	0	0	0	0	0	0	0
2003	12	3.2	7	32.00953	12/1/2003	0	0	0	0	0	0	0
2003	12	3.25	3	33.23109	12/1/2003	0	0	0	0	0	0	0
2003	12	4	444	31.16965	12/1/2003	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2004	1	1	145096	32.89804	1/1/2004	0	0	0	0	0	0	0
2004	1	2	28131	33.07883	1/1/2004	0	0	0	0	0	1	0
2004	1	3.1	938	31.42114	1/1/2004	0	0	0	0	0	0	1
2004	1	3.15	530	32.51623	1/1/2004	0	0	0	0	0	0	0
2004	1	3.2	8	31.42114	1/1/2004	0	0	0	0	0	0	0
2004	1	3.25	3	32.51623	1/1/2004	0	0	0	0	0	0	0
2004	1	4	443	31.61936	1/1/2004	0	0	0	0	0	0	0
2004	2	1	144846	29.35662	2/1/2004	0	0	0	0	0	0	0
2004	2	2	28104	29.50677	2/1/2004	0	0	0	0	0	1	0
2004	2	3.1	938	29.088	2/1/2004	0	0	0	0	0	0	1
2004	2	3.15	528	29.16605	2/1/2004	0	0	0	0	0	0	0
2004	2	3.2	8	29.088	2/1/2004	0	0	0	0	0	0	0
2004	2	3.25	3	29.16605	2/1/2004	0	0	0	0	0	0	0
2004	2	4	442	29.19713	2/1/2004	0	0	0	0	0	0	0
2004	3	1	144789	28.95242	3/1/2004	0	0	0	0	0	0	0
2004	3	2	28127	29.21813	3/1/2004	0	0	0	0	0	1	0
2004	3	3.1	937	30.68507	3/1/2004	0	0	0	0	0	0	1
2004	3	3.15	523	29.69061	3/1/2004	0	0	0	0	0	0	0
2004	3	3.2	8	30.68507	3/1/2004	0	0	0	0	0	0	0
2004	3	3.25	3	29.69061	3/1/2004	0	0	0	0	0	0	0
2004	3	4	441	30.46747	3/1/2004	0	0	0	0	0	0	0
2004	4	1	144670	30.22187	4/1/2004	0	0	0	0	0	0	0
2004	4	2	28166	30.55924	4/1/2004	0	0	0	0	0	1	0
2004	4	3.1	938	30.05466	4/1/2004	0	0	0	0	0	0	1
2004	4	3.15	523	29.92032	4/1/2004	0	0	0	0	0	0	0
2004	4	3.2	8	30.05466	4/1/2004	0	0	0	0	0	0	0
2004	4	3.25	3	29.92032	4/1/2004	0	0	0	0	0	0	0
2004	4	4	439	30.22896	4/1/2004	0	0	0	0	0	0	0
2004	5	1	144359	29.32978	5/1/2004	0	0	0	0	0	0	0
2004	5	2	28189	29.61447	5/1/2004	0	0	0	0	0	1	0
2004	5	3.1	942	30.48319	5/1/2004	0	0	0	0	0	0	1
2004	5	3.15	528	28.42599	5/1/2004	0	0	0	0	0	0	0
2004	5	3.2	8	30.48319	5/1/2004	0	0	0	0	0	0	0
2004	5	3.25	3	28.42599	5/1/2004	0	0	0	0	0	0	0
2004	5	4	439	30.49616	5/1/2004	0	0	0	0	0	0	0
2004	6	1	144117	30.82058	6/1/2004	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2004	6	2	28233	31.19065	6/1/2004	0	0	0	0	0	1	0
2004	6	3.1	934	30.5535	6/1/2004	0	0	0	0	0	0	1
2004	6	3.15	518	30.76011	6/1/2004	0	0	0	0	0	0	0
2004	6	3.2	8	30.5535	6/1/2004	0	0	0	0	0	0	0
2004	6	3.25	3	30.76011	6/1/2004	0	0	0	0	0	0	0
2004	6	4	439	30.26297	6/1/2004	0	0	0	0	0	0	0
2004	7	1	144037	30.37168	7/1/2004	0	0	0	0	0	0	0
2004	7	2	28321	30.54496	7/1/2004	0	0	0	0	0	1	0
2004	7	3.1	935	30.21244	7/1/2004	0	0	0	0	0	0	1
2004	7	3.15	517	30.96622	7/1/2004	0	0	0	0	0	0	0
2004	7	3.2	8	30.21244	7/1/2004	0	0	0	0	0	0	0
2004	7	3.25	3	30.96622	7/1/2004	0	0	0	0	0	0	0
2004	7	4	442	30.99328	7/1/2004	0	0	0	0	0	0	0
2004	8	1	144066	29.01265	8/1/2004	0	0	0	0	0	0	0
2004	8	2	28361	29.31958	8/1/2004	0	0	0	0	0	1	0
2004	8	3.1	933	30.93164	8/1/2004	0	0	0	0	0	0	1
2004	8	3.15	517	29.30248	8/1/2004	0	0	0	0	0	0	0
2004	8	3.2	8	30.93164	8/1/2004	0	0	0	0	0	0	0
2004	8	3.25	3	29.30248	8/1/2004	0	0	0	0	0	0	0
2004	8	4	444	30.52103	8/1/2004	0	0	0	0	0	0	0
2004	9	1	144081	29.75676	9/1/2004	0	0	0	0	0	0	0
2004	9	2	28421	29.96772	9/1/2004	0	0	0	0	0	1	0
2004	9	3.1	932	30.47892	9/1/2004	0	0	0	0	0	0	1
2004	9	3.15	516	30.205	9/1/2004	0	0	0	0	0	0	0
2004	9	3.2	8	30.47892	9/1/2004	0	0	0	0	0	0	0
2004	9	3.25	3	30.205	9/1/2004	0	0	0	0	0	0	0
2004	9	4	444	30.09975	9/1/2004	0	0	0	0	0	0	0
2004	10	1	144159	29.57961	10/1/2004	0	0	0	0	0	0	0
2004	10	2	28472	29.9907	10/1/2004	0	0	0	0	0	0	0
2004	10	3.1	933	30.37667	10/1/2004	0	0	0	0	0	1	0
2004	10	3.15	512	29.4353	10/1/2004	0	0	0	0	0	0	0
2004	10	3.2	8	30.37667	10/1/2004	0	0	0	0	0	0	0
2004	10	3.25	3	29.4353	10/1/2004	0	0	0	0	0	0	0
2004	10	4	444	30.74244	10/1/2004	0	0	0	0	0	0	0
2004	11	1	144360	29.03879	11/1/2004	0	0	0	0	0	0	0
2004	11	2	28442	29.18478	11/1/2004	0	0	0	0	0	1	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2004	11	3.1	923	29.7639	11/1/2004	0	0	0	0	0	0	0
2004	11	3.15	520	29.29673	11/1/2004	0	0	0	0	0	0	0
2004	11	3.2	8	29.7639	11/1/2004	0	0	0	0	0	0	0
2004	11	3.25	3	29.29673	11/1/2004	0	0	0	0	0	0	0
2004	11	4	444	29.88481	11/1/2004	0	0	0	0	0	0	0
2004	12	1	144623	32.42669	12/1/2004	0	0	0	0	0	0	0
2004	12	2	28496	32.49588	12/1/2004	0	0	0	0	0	1	0
2004	12	3.1	928	32.24281	12/1/2004	0	0	0	0	0	0	0
2004	12	3.15	515	33.5674	12/1/2004	0	0	0	0	0	0	0
2004	12	3.2	8	32.24281	12/1/2004	0	0	0	0	0	0	0
2004	12	3.25	3	33.5674	12/1/2004	0	0	0	0	0	0	0
2004	12	4	442	31.3734	12/1/2004	0	0	0	0	0	0	0
2005	1	1	144900	32.73432	1/1/2005	0	0	0	0	0	0	0
2005	1	2	28555	32.68588	1/1/2005	0	0	0	0	0	1	0
2005	1	3.1	932	31.19421	1/1/2005	0	0	0	0	0	0	1
2005	1	3.15	518	31.36259	1/1/2005	0	0	0	0	0	0	0
2005	1	3.2	8	31.19421	1/1/2005	0	0	0	0	0	0	0
2005	1	3.25	3	31.36259	1/1/2005	0	0	0	0	0	0	0
2005	1	4	445	31.43818	1/1/2005	0	0	0	0	0	0	0
2005	2	1	144415	29.31827	2/1/2005	-1	0	0	0	0	0	0
2005	2	2	28492	29.63611	2/1/2005	0	0	0	0	0	1	0
2005	2	3.1	928	29.65061	2/1/2005	0	0	0	0	0	0	0
2005	2	3.15	515	29.39729	2/1/2005	0	0	0	0	0	0	0
2005	2	3.2	8	29.65061	2/1/2005	0	0	0	0	0	0	0
2005	2	3.25	3	29.39729	2/1/2005	0	0	0	0	0	0	0
2005	2	4	441	28.43899	2/1/2005	0	0	0	0	0	0	0
2005	3	1	145259	29.22835	3/1/2005	1	0	0	0	0	0	0
2005	3	2	28726	29.44492	3/1/2005	0	0	0	0	0	1	0
2005	3	3.1	941	29.78857	3/1/2005	0	0	0	0	0	0	1
2005	3	3.15	521	30.55127	3/1/2005	0	0	0	0	0	0	0
2005	3	3.2	8	29.78857	3/1/2005	0	0	0	0	0	0	0
2005	3	3.25	3	30.55127	3/1/2005	0	0	0	0	0	0	0
2005	3	4	445	30.72201	3/1/2005	0	0	0	0	0	0	0
2005	4	1	144955	30.302	4/1/2005	0	0	0	0	0	0	0
2005	4	2	28742	30.42241	4/1/2005	0	0	0	0	0	1	0
2005	4	3.1	928	31.01519	4/1/2005	0	0	0	0	0	0	1

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2005	4	3.15	507	29.99627	4/1/2005	0	0	0	0	0	0	0
2005	4	3.2	8	31.01519	4/1/2005	0	0	0	0	0	0	0
2005	4	3.25	3	29.99627	4/1/2005	0	0	0	0	0	0	0
2005	4	4	451	30.09219	4/1/2005	0	0	0	0	0	0	0
2005	5	1	144302	29.16794	5/1/2005	0	0	0	0	0	0	0
2005	5	2	28820	29.1448	5/1/2005	0	0	0	0	0	0	0
2005	5	3.1	931	29.3165	5/1/2005	0	0	0	0	0	1	0
2005	5	3.15	498	29.01906	5/1/2005	0	0	0	0	0	0	0
2005	5	3.2	8	29.3165	5/1/2005	0	0	0	0	0	0	0
2005	5	3.25	3	29.01906	5/1/2005	0	0	0	0	0	0	0
2005	5	4	443	30.58775	5/1/2005	0	0	0	0	0	0	0
2005	6	1	144342	30.50766	6/1/2005	0	0	0	0	0	0	0
2005	6	2	28921	31.11115	6/1/2005	0	0	0	0	0	1	0
2005	6	3.1	933	31.02081	6/1/2005	0	0	0	0	0	0	1
2005	6	3.15	518	28.48873	6/1/2005	0	0	0	0	0	0	0
2005	6	3.2	8	31.02081	6/1/2005	0	0	0	0	0	0	0
2005	6	3.25	3	28.48873	6/1/2005	0	0	0	0	0	0	0
2005	6	4	444	30.39252	6/1/2005	0	0	0	0	0	0	0
2005	7	1	144274	30.09963	7/1/2005	0	0	0	0	0	0	0
2005	7	2	28896	30.35524	7/1/2005	0	0	0	0	0	1	0
2005	7	3.1	929	30.85278	7/1/2005	0	0	0	0	0	0	0
2005	7	3.15	511	30.62609	7/1/2005	0	0	0	0	0	0	0
2005	7	3.2	8	30.85278	7/1/2005	0	0	0	0	0	0	0
2005	7	3.25	3	30.62609	7/1/2005	0	0	0	0	0	0	0
2005	7	4	445	30.81334	7/1/2005	0	0	0	0	0	0	0
2005	8	1	144231	29.48987	8/1/2005	0	0	0	0	0	0	0
2005	8	2	28995	29.36107	8/1/2005	0	0	0	0	0	0	0
2005	8	3.1	934	30.40478	8/1/2005	0	0	0	0	0	1	0
2005	8	3.15	522	29.29777	8/1/2005	0	0	0	0	0	0	0
2005	8	3.2	8	30.40478	8/1/2005	0	0	0	0	0	0	0
2005	8	3.25	3	29.29777	8/1/2005	0	0	0	0	0	0	0
2005	8	4	385	30.79657	8/1/2005	0	0	0	0	0	0	0
2005	9	1	144191	30.1465	9/1/2005	0	0	0	0	0	0	0
2005	9	2	29068	30.56749	9/1/2005	0	0	0	0	0	0	0
2005	9	3.1	936	29.8515	9/1/2005	0	0	0	0	0	1	0
2005	9	3.15	513	30.93929	9/1/2005	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2005	9	3.2	8	29.8515	9/1/2005	0	0	0	0	0	0	0
2005	9	3.25	3	30.93929	9/1/2005	0	0	0	0	0	0	0
2005	9	4	381	30.09382	9/1/2005	0	0	0	0	0	0	0
2005	10	1	144223	29.16351	10/1/2005	0	0	0	0	0	0	0
2005	10	2	29079	29.41399	10/1/2005	0	0	0	0	0	1	0
2005	10	3.1	937	30.42046	10/1/2005	0	0	0	0	0	0	1
2005	10	3.15	516	29.4993	10/1/2005	0	0	0	0	0	0	0
2005	10	3.2	8	30.42046	10/1/2005	0	0	0	0	0	0	0
2005	10	3.25	3	29.4993	10/1/2005	0	0	0	0	0	0	0
2005	10	4	381	30.76238	10/1/2005	0	0	0	0	0	0	0
2005	11	1	144419	29.40777	11/1/2005	0	0	0	0	0	0	0
2005	11	2	29040	30.01907	11/1/2005	0	0	0	0	0	1	0
2005	11	3.1	935	30.32964	11/1/2005	0	0	0	0	0	0	1
2005	11	3.15	506	30.00235	11/1/2005	0	0	0	0	0	0	0
2005	11	3.2	8	30.32964	11/1/2005	0	0	0	0	0	0	0
2005	11	3.25	3	30.00235	11/1/2005	0	0	0	0	0	0	0
2005	11	4	386	30.00515	11/1/2005	0	0	0	0	0	0	0
2005	12	1	144641	31.82539	12/1/2005	0	0	0	0	0	0	0
2005	12	2	29064	32.14323	12/1/2005	0	0	0	0	0	1	0
2005	12	3.1	940	31.47111	12/1/2005	0	0	0	0	0	0	1
2005	12	3.15	506	32.59584	12/1/2005	0	0	0	0	0	0	0
2005	12	3.2	8	31.47111	12/1/2005	0	0	0	0	0	0	0
2005	12	3.25	3	32.59584	12/1/2005	0	0	0	0	0	0	0
2005	12	4	382	31.16394	12/1/2005	0	0	0	0	0	0	0
2006	1	1	144830	32.99815	1/1/2006	0	0	0	0	0	0	0
2006	1	2	29121	33.05543	1/1/2006	0	0	0	0	0	1	0
2006	1	3.1	947	31.4142	1/1/2006	0	0	0	0	0	0	1
2006	1	3.15	505	32.50934	1/1/2006	0	0	0	0	0	0	0
2006	1	3.2	8	31.4142	1/1/2006	0	0	0	0	0	0	0
2006	1	3.25	3	32.50934	1/1/2006	0	0	0	0	0	0	0
2006	1	4	380	31.46969	1/1/2006	0	0	0	0	0	0	0
2006	2	1	144530	29.45074	2/1/2006	0	0	-1	0	0	0	0
2006	2	2	29047	29.8473	2/1/2006	0	0	0	0	0	1	0
2006	2	3.1	938	29.14665	2/1/2006	0	0	0	0	0	0	1
2006	2	3.15	504	29.9286	2/1/2006	0	0	0	0	0	0	0
2006	2	3.2	8	29.14665	2/1/2006	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2006	2	3.25	3	29.9286	2/1/2006	0	0	0	0	0	0	0
2006	2	4	381	28.39496	2/1/2006	0	0	0	0	0	0	0
2006	3	1	145013	28.64459	3/1/2006	0	0	1	0	0	0	0
2006	3	2	29187	28.66822	3/1/2006	0	0	0	0	0	1	0
2006	3	3.1	952	29.56764	3/1/2006	0	0	0	0	0	0	1
2006	3	3.15	509	29.01676	3/1/2006	0	0	0	0	0	0	0
2006	3	3.2	8	29.56764	3/1/2006	0	0	0	0	0	0	0
2006	3	3.25	3	29.01676	3/1/2006	0	0	0	0	0	0	0
2006	3	4	383	30.63371	3/1/2006	0	0	0	0	0	0	0
2006	4	1	144560	28.66317	4/1/2006	0	0	0	0	0	0	0
2006	4	2	29148	28.87768	4/1/2006	0	0	0	0	0	1	0
2006	4	3.1	945	29.69427	4/1/2006	0	0	0	0	0	0	1
2006	4	3.15	499	29.10633	4/1/2006	0	0	0	0	0	0	0
2006	4	3.2	8	29.69427	4/1/2006	0	0	0	0	0	0	0
2006	4	3.25	3	29.10633	4/1/2006	0	0	0	0	0	0	0
2006	4	4	381	29.74894	4/1/2006	0	0	0	0	0	0	0
2006	5	1	144258	29.82108	5/1/2006	0	0	0	0	0	0	0
2006	5	2	29245	29.96966	5/1/2006	0	0	0	0	0	1	0
2006	5	3.1	942	29.96456	5/1/2006	0	0	0	0	0	0	0
2006	5	3.15	497	29.06314	5/1/2006	0	0	0	0	0	0	0
2006	5	3.2	8	29.96456	5/1/2006	0	0	0	0	0	0	0
2006	5	3.25	3	29.06314	5/1/2006	0	0	0	0	0	0	0
2006	5	4	379	30.8532	5/1/2006	0	0	0	0	0	0	0
2006	6	1	144120	30.45925	6/1/2006	0	0	0	0	0	0	0
2006	6	2	29278	30.9654	6/1/2006	0	0	0	0	0	1	0
2006	6	3.1	954	30.61639	6/1/2006	0	0	0	0	0	0	1
2006	6	3.15	499	30.91848	6/1/2006	0	0	0	0	0	0	0
2006	6	3.2	8	30.61639	6/1/2006	0	0	0	0	0	0	0
2006	6	3.25	3	30.91848	6/1/2006	0	0	0	0	0	0	0
2006	6	4	380	30.26579	6/1/2006	0	0	0	0	0	0	0
2006	7	1	144118	30.19506	7/1/2006	0	0	0	0	0	0	0
2006	7	2	29279	30.63197	7/1/2006	0	0	0	0	0	1	0
2006	7	3.1	946	30.85364	7/1/2006	0	0	0	0	0	0	1
2006	7	3.15	505	30.56557	7/1/2006	0	0	0	0	0	0	0
2006	7	3.2	8	30.85364	7/1/2006	0	0	0	0	0	0	0
2006	7	3.25	3	30.56557	7/1/2006	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2006	7	4	381	30.95578	7/1/2006		0	0	0	0	0	0
2006	8	1	144248	28.97765	8/1/2006		0	0	0	0	0	0
2006	8	2	29339	28.80994	8/1/2006		0	0	0	0	1	0
2006	8	3.1	941	30.32618	8/1/2006		0	0	0	0	0	1
2006	8	3.15	510	29.1879	8/1/2006		0	0	0	0	0	0
2006	8	3.2	8	30.32618	8/1/2006		0	0	0	0	0	0
2006	8	3.25	3	29.1879	8/1/2006		0	0	0	0	0	0
2006	8	4	381	30.68296	8/1/2006		0	0	0	0	0	0
2006	9	1	144269	30.28493	9/1/2006		0	0	0	0	0	0
2006	9	2	29384	30.86706	9/1/2006		0	0	0	0	1	0
2006	9	3.1	941	30.43031	9/1/2006		0	0	0	0	0	1
2006	9	3.15	508	31.28174	9/1/2006		0	0	0	0	0	0
2006	9	3.2	8	30.43031	9/1/2006		0	0	0	0	0	0
2006	9	3.25	3	31.28174	9/1/2006		0	0	0	0	0	0
2006	9	4	379	30.08968	9/1/2006		0	0	0	0	0	0
2006	10	1	144313	29.72338	10/1/2006		0	0	0	0	0	0
2006	10	2	29597	29.64892	10/1/2006		0	0	0	0	1	0
2006	10	3.1	941	30.436	10/1/2006		0	0	0	0	0	1
2006	10	3.15	511	29.41768	10/1/2006		0	0	0	0	0	0
2006	10	3.2	8	30.436	10/1/2006		0	0	0	0	0	0
2006	10	3.25	3	29.41768	10/1/2006		0	0	0	0	0	0
2006	10	4	379	30.81566	10/1/2006		0	0	0	0	0	0
2006	11	1	144545	28.98547	11/1/2006		0	0	0	0	0	0
2006	11	2	29433	29.5718	11/1/2006		0	0	0	0	1	0
2006	11	3.1	944	31.00418	11/1/2006		0	0	0	0	0	1
2006	11	3.15	507	30.03943	11/1/2006		0	0	0	0	0	0
2006	11	3.2	8	31.00418	11/1/2006		0	0	0	0	0	0
2006	11	3.25	3	30.03943	11/1/2006		0	0	0	0	0	0
2006	11	4	380	29.90276	11/1/2006		0	0	0	0	0	0
2006	12	1	144554	31.7185	12/1/2006		0	0	0	0	0	0
2006	12	2	29354	31.74469	12/1/2006		0	0	0	0	1	0
2006	12	3.1	944	30.87033	12/1/2006		0	0	0	0	0	1
2006	12	3.15	503	32.74669	12/1/2006		0	0	0	0	0	0
2006	12	3.2	8	30.87033	12/1/2006		0	0	0	0	0	0
2006	12	3.25	3	32.74669	12/1/2006		0	0	0	0	0	0
2006	12	4	380	30.99288	12/1/2006		0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2007	1	1	144815	32.74613	1/1/2007	0	0	0	0	0	0	0
2007	1	2	29460	32.9547	1/1/2007	0	0	0	0	0	1	0
2007	1	3.1	949	31.69911	1/1/2007	0	0	0	0	0	0	1
2007	1	3.15	500	32.43265	1/1/2007	0	0	0	0	0	0	0
2007	1	3.2	8	31.69911	1/1/2007	0	0	0	0	0	0	0
2007	1	3.25	3	32.43265	1/1/2007	0	0	0	0	0	0	0
2007	1	4	378	31.28989	1/1/2007	0	0	0	0	0	0	0
2007	2	1	144843	29.15659	2/1/2007	0	0	0	0	0	0	0
2007	2	2	29416	29.34591	2/1/2007	0	0	0	0	0	1	0
2007	2	3.1	943	29.23548	2/1/2007	0	0	0	0	0	0	1
2007	2	3.15	493	29.27995	2/1/2007	0	0	0	0	0	0	0
2007	2	3.2	8	29.23548	2/1/2007	0	0	0	0	0	0	0
2007	2	3.25	3	29.27995	2/1/2007	0	0	0	0	0	0	0
2007	2	4	376	28.31838	2/1/2007	0	0	0	0	0	0	0
2007	3	1	144494	28.98988	3/1/2007	0	0	0	0	0	0	0
2007	3	2	29460	29.09363	3/1/2007	0	0	0	0	0	1	0
2007	3	3.1	938	30.42645	3/1/2007	0	0	0	0	0	0	1
2007	3	3.15	497	29.33134	3/1/2007	0	0	0	0	0	0	0
2007	3	3.2	8	30.42645	3/1/2007	0	0	0	0	0	0	0
2007	3	3.25	3	29.33134	3/1/2007	0	0	0	0	0	0	0
2007	3	4	376	30.71104	3/1/2007	0	0	0	0	0	0	0
2007	4	1	144179	30.59399	4/1/2007	0	0	0	0	0	0	0
2007	4	2	29427	30.79882	4/1/2007	0	0	0	0	0	1	0
2007	4	3.1	935	30.13502	4/1/2007	0	0	0	0	0	0	1
2007	4	3.15	488	30.47752	4/1/2007	0	0	0	0	0	0	0
2007	4	3.2	8	30.13502	4/1/2007	0	0	0	0	0	0	0
2007	4	3.25	3	30.47752	4/1/2007	0	0	0	0	0	0	0
2007	4	4	374	30.13104	4/1/2007	0	0	0	0	0	0	0
2007	5	1	143841	29.71183	5/1/2007	0	0	0	0	0	0	0
2007	5	2	29570	30.02799	5/1/2007	0	0	0	0	0	1	0
2007	5	3.1	931	30.73249	5/1/2007	0	0	0	0	0	0	1
2007	5	3.15	484	29.92622	5/1/2007	0	0	0	0	0	0	0
2007	5	3.2	8	30.73249	5/1/2007	0	0	0	0	0	0	0
2007	5	3.25	3	29.92622	5/1/2007	0	0	0	0	0	0	0
2007	5	4	374	29.21358	5/1/2007	0	0	0	0	0	0	0
2007	6	1	143743	30.18442	6/1/2007	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2007	6	2	29678	30.43059	6/1/2007	0	0	0	0	0	1	0
2007	6	3.1	944	30.1377	6/1/2007	0	0	0	0	0	0	1
2007	6	3.15	481	30.44972	6/1/2007	0	0	0	0	0	0	0
2007	6	3.2	8	30.1377	6/1/2007	0	0	0	0	0	0	0
2007	6	3.25	3	30.44972	6/1/2007	0	0	0	0	0	0	0
2007	6	4	373	29.44079	6/1/2007	0	0	0	0	0	0	0
2007	7	1	143666	29.65501	7/1/2007	0	0	0	0	0	0	0
2007	7	2	29736	30.11777	7/1/2007	0	0	0	0	0	1	0
2007	7	3.1	941	30.09714	7/1/2007	0	0	0	0	0	0	1
2007	7	3.15	491	29.96382	7/1/2007	0	0	0	0	0	0	0
2007	7	3.2	8	30.09714	7/1/2007	0	0	0	0	0	0	0
2007	7	3.25	3	29.96382	7/1/2007	0	0	0	0	0	0	0
2007	7	4	372	30.45981	7/1/2007	0	0	0	0	0	0	0
2007	8	1	143970	29.23694	8/1/2007	0	0	0	0	0	0	0
2007	8	2	29828	29.35278	8/1/2007	0	0	0	0	0	1	0
2007	8	3.1	941	30.7592	8/1/2007	0	0	0	0	0	0	1
2007	8	3.15	490	29.61587	8/1/2007	0	0	0	0	0	0	0
2007	8	3.2	8	30.7592	8/1/2007	0	0	0	0	0	0	0
2007	8	3.25	3	29.61587	8/1/2007	0	0	0	0	0	0	0
2007	8	4	365	30.57461	8/1/2007	0	0	0	0	0	0	0
2007	9	1	144118	30.11878	9/1/2007	0	0	0	0	0	0	0
2007	9	2	29876	30.39759	9/1/2007	0	0	0	0	0	1	0
2007	9	3.1	942	30.50425	9/1/2007	0	0	0	0	0	0	0
2007	9	3.15	485	30.83224	9/1/2007	0	0	0	0	0	0	0
2007	9	3.2	8	30.50425	9/1/2007	0	0	0	0	0	0	0
2007	9	3.25	3	30.83224	9/1/2007	0	0	0	0	0	0	0
2007	9	4	388	30.49225	9/1/2007	0	0	0	0	0	0	0
2007	10	1	144087	29.3602	10/1/2007	0	0	0	0	0	0	0
2007	10	2	29925	29.64791	10/1/2007	0	0	0	0	0	1	0
2007	10	3.1	936	29.6435	10/1/2007	0	0	0	0	0	0	1
2007	10	3.15	480	29.4706	10/1/2007	0	0	0	0	0	0	0
2007	10	3.2	8	29.6435	10/1/2007	0	0	0	0	0	0	0
2007	10	3.25	3	29.4706	10/1/2007	0	0	0	0	0	0	0
2007	10	4	377	30.07159	10/1/2007	0	0	0	0	0	0	0
2007	11	1	144181	29.79921	11/1/2007	0	0	0	0	0	0	0
2007	11	2	29935	30.07807	11/1/2007	0	0	0	0	0	1	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2007	11	3.1	937	31.06712	11/1/2007	0	0	0	0	0	0	0
2007	11	3.15	476	30.88824	11/1/2007	0	0	0	0	0	0	0
2007	11	3.2	8	31.06712	11/1/2007	0	0	0	0	0	0	0
2007	11	3.25	3	30.88824	11/1/2007	0	0	0	0	0	0	0
2007	11	4	374	31.26916	11/1/2007	0	0	0	0	0	0	0
2007	12	1	144542	31.98046	12/1/2007	0	0	0	0	0	0	0
2007	12	2	29922	32.11237	12/1/2007	0	0	0	0	0	1	0
2007	12	3.1	935	30.88226	12/1/2007	0	0	0	0	0	0	0
2007	12	3.15	471	31.92093	12/1/2007	0	0	0	0	0	0	0
2007	12	3.2	8	30.88226	12/1/2007	0	0	0	0	0	0	0
2007	12	3.25	3	31.92093	12/1/2007	0	0	0	0	0	0	0
2007	12	4	373	31.34007	12/1/2007	0	0	0	0	0	0	0
2008	1	1	144825	32.80213	1/1/2008	0	0	0	0	0	0	0
2008	1	2	29969	33.06407	1/1/2008	0	0	0	0	0	1	0
2008	1	3.1	937	31.27191	1/1/2008	0	0	0	0	0	0	0
2008	1	3.15	473	32.78802	1/1/2008	0	0	0	0	0	0	0
2008	1	3.2	8	31.27191	1/1/2008	0	0	0	0	0	0	0
2008	1	3.25	3	32.78802	1/1/2008	0	0	0	0	0	0	0
2008	1	4	380	31.88564	1/1/2008	0	0	0	0	0	0	0
2008	2	1	144690	29.24555	2/1/2008	0	0	0	0	0	0	0
2008	2	2	29955	29.36259	2/1/2008	0	0	0	0	0	1	0
2008	2	3.1	940	29.39088	2/1/2008	0	0	0	0	0	0	0
2008	2	3.15	475	29.05014	2/1/2008	0	0	0	0	0	0	0
2008	2	3.2	8	29.39088	2/1/2008	0	0	0	0	0	0	0
2008	2	3.25	3	29.05014	2/1/2008	0	0	0	0	0	0	0
2008	2	4	379	29.31406	2/1/2008	0	0	0	0	0	0	0
2008	3	1	144365	29.09202	3/1/2008	0	0	0	0	0	0	0
2008	3	2	29975	29.48052	3/1/2008	0	0	0	0	0	1	0
2008	3	3.1	952	29.94087	3/1/2008	0	0	0	0	0	0	0
2008	3	3.15	469	29.53445	3/1/2008	0	0	0	0	0	0	0
2008	3	3.2	8	29.94087	3/1/2008	0	0	0	0	0	0	0
2008	3	3.25	3	29.53445	3/1/2008	0	0	0	0	0	0	0
2008	3	4	376	30.19913	3/1/2008	0	0	0	0	0	0	0
2008	4	1	143988	30.45362	4/1/2008	0	0	0	0	0	0	0
2008	4	2	30023	30.33644	4/1/2008	0	0	0	0	0	1	0
2008	4	3.1	947	30.69812	4/1/2008	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2008	4	3.15	462	30.06878	4/1/2008	0	0	0	0	0	0	0
2008	4	3.2	8	30.69812	4/1/2008	0	0	0	0	0	0	0
2008	4	3.25	3	30.06878	4/1/2008	0	0	0	0	0	0	0
2008	4	4	383	30.47599	4/1/2008	0	0	0	0	0	0	0
2008	5	1	143799	29.05732	5/1/2008	0	0	0	0	0	0	0
2008	5	2	30069	29.31006	5/1/2008	0	0	0	0	1	0	0
2008	5	3.1	948	30.51485	5/1/2008	0	0	0	0	0	1	0
2008	5	3.15	461	29.95926	5/1/2008	0	0	0	0	0	0	0
2008	5	3.2	8	30.51485	5/1/2008	0	0	0	0	0	0	0
2008	5	3.25	3	29.95926	5/1/2008	0	0	0	0	0	0	0
2008	5	4	374	30.12412	5/1/2008	0	0	0	0	0	0	0
2008	6	1	143710	30.47884	6/1/2008	0	0	0	0	0	0	0
2008	6	2	30080	30.75832	6/1/2008	0	0	0	0	1	0	0
2008	6	3.1	956	30.33335	6/1/2008	0	0	0	0	0	0	1
2008	6	3.15	460	30.49675	6/1/2008	0	0	0	0	0	0	0
2008	6	3.2	8	30.33335	6/1/2008	0	0	0	0	0	0	0
2008	6	3.25	3	30.49675	6/1/2008	0	0	0	0	0	0	0
2008	6	4	373	29.89861	6/1/2008	0	0	0	0	0	0	0
2008	7	1	143789	30.12992	7/1/2008	0	0	0	0	0	0	0
2008	7	2	29341	30.34804	7/1/2008	0	0	0	1	0	1	0
2008	7	3.1	957	30.67491	7/1/2008	0	0	0	0	0	0	0
2008	7	3.15	466	30.56879	7/1/2008	0	0	0	0	0	0	0
2008	7	3.2	8	30.67491	7/1/2008	0	0	0	0	0	0	0
2008	7	3.25	3	30.56879	7/1/2008	0	0	0	0	0	0	0
2008	7	4	386	31.00513	7/1/2008	0	0	0	0	0	0	0
2008	8	1	143832	29.61116	8/1/2008	0	0	0	0	0	0	0
2008	8	2	29387	29.82657	8/1/2008	0	0	0	1	0	1	0
2008	8	3.1	951	29.80758	8/1/2008	0	0	0	0	0	0	1
2008	8	3.15	460	28.93535	8/1/2008	0	0	0	0	0	0	0
2008	8	3.2	8	29.80758	8/1/2008	0	0	0	0	0	0	0
2008	8	3.25	3	28.93535	8/1/2008	0	0	0	0	0	0	0
2008	8	4	380	29.66358	8/1/2008	0	0	0	0	0	0	0
2008	9	1	143855	30.11183	9/1/2008	0	0	0	0	0	0	0
2008	9	2	29479	30.36998	9/1/2008	0	0	0	0	0	0	0
2008	9	3.1	966	30.44681	9/1/2008	0	0	0	1	0	1	0
2008	9	3.15	464	30.41088	9/1/2008	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2008	9	3.2	8	30.44681	9/1/2008	0	0	0	0	0	0	0
2008	9	3.25	3	30.41088	9/1/2008	0	0	0	0	0	0	0
2008	9	4	376	30.40061	9/1/2008	0	0	0	0	0	0	0
2008	10	1	143884	29.35764	10/1/2008	0	0	0	0	0	0	0
2008	10	2	29482	29.42098	10/1/2008	0	0	0	1	0	1	0
2008	10	3.1	972	30.35594	10/1/2008	0	0	0	0	0	0	0
2008	10	3.15	469	29.71234	10/1/2008	0	0	0	0	0	0	0
2008	10	3.2	8	30.35594	10/1/2008	0	0	0	0	0	0	0
2008	10	3.25	3	29.71234	10/1/2008	0	0	0	0	0	0	0
2008	10	4	379	29.82067	10/1/2008	0	0	0	0	0	0	0
2008	11	1		29.2014	11/1/2008	0	0	0	0	0	0	0
2008	11	2		29.57608	11/1/2008	0	0	0	1	0	1	0
2008	11	3.1		30.10377	11/1/2008	0	0	0	0	0	0	1
2008	11	3.15		29.83027	11/1/2008	0	0	0	0	0	0	0
2008	11	3.2		30.10377	11/1/2008	0	0	0	0	0	0	0
2008	11	3.25		29.83027	11/1/2008	0	0	0	0	0	0	0
2008	11	4		30.0422	11/1/2008	0	0	0	0	0	0	0
2008	12	1		32.04436	12/1/2008	0	0	0	0	0	0	0
2008	12	2		32.23553	12/1/2008	0	0	0	1	0	0	0
2008	12	3.1		31.77028	12/1/2008	0	0	0	0	0	1	0
2008	12	3.15		33.02509	12/1/2008	0	0	0	0	0	0	0
2008	12	3.2		31.77028	12/1/2008	0	0	0	0	0	0	0
2008	12	3.25		33.02509	12/1/2008	0	0	0	0	0	0	0
2008	12	4		31.22644	12/1/2008	0	0	0	0	0	0	0
2009	1	1		32.864	1/1/2009	0	0	0	0	0	0	0
2009	1	2		32.94871	1/1/2009	0	0	0	1	0	1	0
2009	1	3.1		31.36097	1/1/2009	0	0	0	0	0	0	1
2009	1	3.15		32.1895	1/1/2009	0	0	0	0	0	0	0
2009	1	3.2		31.36097	1/1/2009	0	0	0	0	0	0	0
2009	1	3.25		32.1895	1/1/2009	0	0	0	0	0	0	0
2009	1	4		31.51891	1/1/2009	0	0	0	0	0	0	0
2009	2	1		29.35344	2/1/2009	0	0	0	0	0	0	0
2009	2	2		29.62475	2/1/2009	0	0	0	1	0	1	0
2009	2	3.1		29.29735	2/1/2009	0	0	0	0	0	0	1
2009	2	3.15		29.45578	2/1/2009	0	0	0	0	0	0	0
2009	2	3.2		29.29735	2/1/2009	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2009	2	3.25		29.45578	2/1/2009	0	0	0	0	0	0	0
2009	2	4		28.69443	2/1/2009	0	0	0	0	0	0	0
2009	3	1		28.95418	3/1/2009	0	0	0	0	0	0	0
2009	3	2		29.1325	3/1/2009	0	0	0	1	0	1	0
2009	3	3.1		30.035	3/1/2009	0	0	0	0	0	0	1
2009	3	3.15		29.71288	3/1/2009	0	0	0	0	0	0	0
2009	3	3.2		30.035	3/1/2009	0	0	0	0	0	0	0
2009	3	3.25		29.71288	3/1/2009	0	0	0	0	0	0	0
2009	3	4		30.58865	3/1/2009	0	0	0	0	0	0	0
2009	4	1		29.82836	4/1/2009	0	0	0	0	0	0	0
2009	4	2		30.02993	4/1/2009	0	0	0	1	0	1	0
2009	4	3.1		30.27494	4/1/2009	0	0	0	0	0	0	1
2009	4	3.15		29.74916	4/1/2009	0	0	0	0	0	0	0
2009	4	3.2		30.27494	4/1/2009	0	0	0	0	0	0	0
2009	4	3.25		29.74916	4/1/2009	0	0	0	0	0	0	0
2009	4	4		30.05838	4/1/2009	0	0	0	0	0	0	0
2009	5	1		29.43272	5/1/2009	0	0	0	0	0	0	0
2009	5	2		29.5879	5/1/2009	0	0	0	1	0	1	0
2009	5	3.1		30.0092	5/1/2009	0	0	0	0	0	0	1
2009	5	3.15		28.9744	5/1/2009	0	0	0	0	0	0	0
2009	5	3.2		30.0092	5/1/2009	0	0	0	0	0	0	0
2009	5	3.25		28.9744	5/1/2009	0	0	0	0	0	0	0
2009	5	4		30.5236	5/1/2009	0	0	0	0	0	0	0
2009	6	1		30.5628	6/1/2009	0	0	0	0	0	0	0
2009	6	2		31.02724	6/1/2009	0	0	0	1	0	1	0
2009	6	3.1		30.6684	6/1/2009	0	0	0	0	0	0	1
2009	6	3.15		30.10796	6/1/2009	0	0	0	0	0	0	0
2009	6	3.2		30.6684	6/1/2009	0	0	0	0	0	0	0
2009	6	3.25		30.10796	6/1/2009	0	0	0	0	0	0	0
2009	6	4		30.22742	6/1/2009	0	0	0	0	0	0	0
2009	7	1		30.19662	7/1/2009	0	0	0	0	0	0	0
2009	7	2		30.55314	7/1/2009	0	0	0	1	0	1	0
2009	7	3.1		30.6751	7/1/2009	0	0	0	0	0	0	1
2009	7	3.15		30.65914	7/1/2009	0	0	0	0	0	0	0
2009	7	3.2		30.6751	7/1/2009	0	0	0	0	0	0	0
2009	7	3.25		30.65914	7/1/2009	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2009	7	4		30.91708	7/1/2009	0	0	0	0	0	0	0
2009	8	1		29.12086	8/1/2009	0	0	0	0	0	0	0
2009	8	2		29.18128	8/1/2009	0	0	0	1	0	1	0
2009	8	3.1		30.49662	8/1/2009	0	0	0	0	0	0	0
2009	8	3.15		29.1509	8/1/2009	0	0	0	0	0	0	0
2009	8	3.2		30.49662	8/1/2009	0	0	0	0	0	0	0
2009	8	3.25		29.1509	8/1/2009	0	0	0	0	0	0	0
2009	8	4		30.54584	8/1/2009	0	0	0	0	0	0	0
2009	9	1		30.12438	9/1/2009	0	0	0	0	0	0	0
2009	9	2		30.42426	9/1/2009	0	0	0	1	0	1	0
2009	9	3.1		30.25851	9/1/2009	0	0	0	0	0	0	0
2009	9	3.15		30.71044	9/1/2009	0	0	0	0	0	0	0
2009	9	3.2		30.25851	9/1/2009	0	0	0	0	0	0	0
2009	9	3.25		30.71044	9/1/2009	0	0	0	0	0	0	0
2009	9	4		30.13359	9/1/2009	0	0	0	0	0	0	0
2009	10	1		29.42955	10/1/2009	0	0	0	0	0	0	0
2009	10	2		29.75238	10/1/2009	0	0	0	1	0	1	0
2009	10	3.1		30.40293	10/1/2009	0	0	0	0	0	0	0
2009	10	3.15		29.46108	10/1/2009	0	0	0	0	0	0	0
2009	10	3.2		30.40293	10/1/2009	0	0	0	0	0	0	0
2009	10	3.25		29.46108	10/1/2009	0	0	0	0	0	0	0
2009	10	4		30.65925	10/1/2009	0	0	0	0	0	0	0
2009	11	1		29.2014	11/1/2009	0	0	0	0	0	0	0
2009	11	2		29.57608	11/1/2009	0	0	0	1	0	1	0
2009	11	3.1		30.10377	11/1/2009	0	0	0	0	0	0	0
2009	11	3.15		29.83027	11/1/2009	0	0	0	0	0	0	0
2009	11	3.2		30.10377	11/1/2009	0	0	0	0	0	0	0
2009	11	3.25		29.83027	11/1/2009	0	0	0	0	0	0	0
2009	11	4		30.0422	11/1/2009	0	0	0	0	0	0	0
2009	12	1		32.04436	12/1/2009	0	0	0	0	0	0	0
2009	12	2		32.23553	12/1/2009	0	0	0	1	0	0	0
2009	12	3.1		31.77028	12/1/2009	0	0	0	0	0	1	0
2009	12	3.15		33.02509	12/1/2009	0	0	0	0	0	0	0
2009	12	3.2		31.77028	12/1/2009	0	0	0	0	0	0	0
2009	12	3.25		33.02509	12/1/2009	0	0	0	0	0	0	0
2009	12	4		31.22644	12/1/2009	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2010	1	1	1	32.864	1/1/2010	0	0	0	0	0	0	0
2010	1	2	2	32.94871	1/1/2010	0	0	0	1	0	1	0
2010	1	3.1	3.1	31.36097	1/1/2010	0	0	0	0	0	0	1
2010	1	3.15	3.15	32.1895	1/1/2010	0	0	0	0	0	0	0
2010	1	3.2	3.2	31.36097	1/1/2010	0	0	0	0	0	0	0
2010	1	3.25	3.25	32.1895	1/1/2010	0	0	0	0	0	0	0
2010	1	4	4	31.51891	1/1/2010	0	0	0	0	0	0	0
2010	2	1	1	29.35344	2/1/2010	0	0	0	0	0	0	0
2010	2	2	2	29.62475	2/1/2010	0	0	0	1	0	1	0
2010	2	3.1	3.1	29.29735	2/1/2010	0	0	0	0	0	0	1
2010	2	3.15	3.15	29.45578	2/1/2010	0	0	0	0	0	0	0
2010	2	3.2	3.2	29.29735	2/1/2010	0	0	0	0	0	0	0
2010	2	3.25	3.25	29.45578	2/1/2010	0	0	0	0	0	0	0
2010	2	4	4	28.69443	2/1/2010	0	0	0	0	0	0	0
2010	3	1	1	28.95418	3/1/2010	0	0	0	0	0	0	0
2010	3	2	2	29.1325	3/1/2010	0	0	0	1	0	1	0
2010	3	3.1	3.1	30.035	3/1/2010	0	0	0	0	0	0	1
2010	3	3.15	3.15	29.71288	3/1/2010	0	0	0	0	0	0	0
2010	3	3.2	3.2	30.035	3/1/2010	0	0	0	0	0	0	0
2010	3	3.25	3.25	29.71288	3/1/2010	0	0	0	0	0	0	0
2010	3	4	4	30.58865	3/1/2010	0	0	0	0	0	0	0
2010	4	1	1	29.82836	4/1/2010	0	0	0	0	0	0	0
2010	4	2	2	30.02993	4/1/2010	0	0	0	1	0	1	0
2010	4	3.1	3.1	30.27494	4/1/2010	0	0	0	0	0	0	1
2010	4	3.15	3.15	29.74916	4/1/2010	0	0	0	0	0	0	0
2010	4	3.2	3.2	30.27494	4/1/2010	0	0	0	0	0	0	0
2010	4	3.25	3.25	29.74916	4/1/2010	0	0	0	0	0	0	0
2010	4	4	4	30.05838	4/1/2010	0	0	0	0	0	0	0
2010	5	1	1	29.43272	5/1/2010	0	0	0	0	0	0	0
2010	5	2	2	29.5879	5/1/2010	0	0	0	1	0	1	0
2010	5	3.1	3.1	30.0092	5/1/2010	0	0	0	0	0	0	1
2010	5	3.15	3.15	28.9744	5/1/2010	0	0	0	0	0	0	0
2010	5	3.2	3.2	30.0092	5/1/2010	0	0	0	0	0	0	0
2010	5	3.25	3.25	28.9744	5/1/2010	0	0	0	0	0	0	0
2010	5	4	4	30.5236	5/1/2010	0	0	0	0	0	0	0
2010	6	1	1	30.5628	6/1/2010	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2010	6	2		31.02724	6/1/2010	0	0	0	1	0	1	0
2010	6	3.1		30.6684	6/1/2010	0	0	0	0	0	0	1
2010	6	3.15		30.10796	6/1/2010	0	0	0	0	0	0	0
2010	6	3.2		30.6684	6/1/2010	0	0	0	0	0	0	0
2010	6	3.25		30.10796	6/1/2010	0	0	0	0	0	0	0
2010	6	4		30.22742	6/1/2010	0	0	0	0	0	0	0
2010	7	1		30.19662	7/1/2010	0	0	0	0	0	0	0
2010	7	2		30.55314	7/1/2010	0	0	0	1	0	1	0
2010	7	3.1		30.6751	7/1/2010	0	0	0	0	0	0	1
2010	7	3.15		30.65914	7/1/2010	0	0	0	0	0	0	0
2010	7	3.2		30.6751	7/1/2010	0	0	0	0	0	0	0
2010	7	3.25		30.65914	7/1/2010	0	0	0	0	0	0	0
2010	7	4		30.91708	7/1/2010	0	0	0	0	0	0	0
2010	8	1		29.12086	8/1/2010	0	0	0	0	0	0	0
2010	8	2		29.18128	8/1/2010	0	0	0	1	0	1	0
2010	8	3.1		30.49662	8/1/2010	0	0	0	0	0	0	1
2010	8	3.15		29.1509	8/1/2010	0	0	0	0	0	0	0
2010	8	3.2		30.49662	8/1/2010	0	0	0	0	0	0	0
2010	8	3.25		29.1509	8/1/2010	0	0	0	0	0	0	0
2010	8	4		30.54584	8/1/2010	0	0	0	0	0	0	0
2010	9	1		30.12438	9/1/2010	0	0	0	0	0	0	0
2010	9	2		30.42426	9/1/2010	0	0	0	1	0	1	0
2010	9	3.1		30.25851	9/1/2010	0	0	0	0	0	0	1
2010	9	3.15		30.71044	9/1/2010	0	0	0	0	0	0	0
2010	9	3.2		30.25851	9/1/2010	0	0	0	0	0	0	0
2010	9	3.25		30.71044	9/1/2010	0	0	0	0	0	0	0
2010	9	4		30.13359	9/1/2010	0	0	0	0	0	0	0
2010	10	1		29.42955	10/1/2010	0	0	0	0	0	0	0
2010	10	2		29.75238	10/1/2010	0	0	0	1	0	1	0
2010	10	3.1		30.40293	10/1/2010	0	0	0	0	0	0	1
2010	10	3.15		29.46108	10/1/2010	0	0	0	0	0	0	0
2010	10	3.2		30.40293	10/1/2010	0	0	0	0	0	0	0
2010	10	3.25		29.46108	10/1/2010	0	0	0	0	0	0	0
2010	10	4		30.65925	10/1/2010	0	0	0	0	0	0	0
2010	11	1		29.2014	11/1/2010	0	0	0	0	0	0	0
2010	11	2		29.57608	11/1/2010	0	0	0	1	0	1	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2010	11	3.1		30.10377	11/1/2010	0	0	0	0	0	0	0
2010	11	3.15		29.83027	11/1/2010	0	0	0	0	0	0	0
2010	11	3.2		30.10377	11/1/2010	0	0	0	0	0	0	0
2010	11	3.25		29.83027	11/1/2010	0	0	0	0	0	0	0
2010	11	4		30.0422	11/1/2010	0	0	0	0	0	0	0
2010	12	1		32.04436	12/1/2010	0	0	0	0	0	0	0
2010	12	2		32.23553	12/1/2010	0	0	0	1	0	1	0
2010	12	3.1		31.77028	12/1/2010	0	0	0	0	0	0	0
2010	12	3.15		33.02509	12/1/2010	0	0	0	0	0	0	0
2010	12	3.2		31.77028	12/1/2010	0	0	0	0	0	0	0
2010	12	3.25		33.02509	12/1/2010	0	0	0	0	0	0	0
2010	12	4		31.22644	12/1/2010	0	0	0	0	0	0	0
2011	1	1		32.864	1/1/2011	0	0	0	0	0	0	0
2011	1	2		32.94871	1/1/2011	0	0	0	1	0	1	0
2011	1	3.1		31.36097	1/1/2011	0	0	0	0	0	0	0
2011	1	3.15		32.1895	1/1/2011	0	0	0	0	0	0	0
2011	1	3.2		31.36097	1/1/2011	0	0	0	0	0	0	0
2011	1	3.25		32.1895	1/1/2011	0	0	0	0	0	0	0
2011	1	4		31.51891	1/1/2011	0	0	0	0	0	0	0
2011	2	1		29.35344	2/1/2011	0	0	0	0	0	0	0
2011	2	2		29.62475	2/1/2011	0	0	0	1	0	1	0
2011	2	3.1		29.29735	2/1/2011	0	0	0	0	0	0	0
2011	2	3.15		29.45578	2/1/2011	0	0	0	0	0	0	0
2011	2	3.2		29.29735	2/1/2011	0	0	0	0	0	0	0
2011	2	3.25		29.45578	2/1/2011	0	0	0	0	0	0	0
2011	2	4		28.69443	2/1/2011	0	0	0	0	0	0	0
2011	3	1		28.95418	3/1/2011	0	0	0	0	0	0	0
2011	3	2		29.1325	3/1/2011	0	0	0	1	0	1	0
2011	3	3.1		30.035	3/1/2011	0	0	0	0	0	0	0
2011	3	3.15		29.71288	3/1/2011	0	0	0	0	0	0	0
2011	3	3.2		30.035	3/1/2011	0	0	0	0	0	0	0
2011	3	3.25		29.71288	3/1/2011	0	0	0	0	0	0	0
2011	3	4		30.58865	3/1/2011	0	0	0	0	0	0	0
2011	4	1		29.82836	4/1/2011	0	0	0	0	0	0	0
2011	4	2		30.02993	4/1/2011	0	0	0	1	0	1	0
2011	4	3.1		30.27494	4/1/2011	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2011	4	3.15		29.74916	4/1/2011	0	0	0	0	0	0	0
2011	4	3.2		30.27494	4/1/2011	0	0	0	0	0	0	0
2011	4	3.25		29.74916	4/1/2011	0	0	0	0	0	0	0
2011	4	4		30.05838	4/1/2011	0	0	0	0	0	0	0
2011	5	1		29.43272	5/1/2011	0	0	0	0	0	0	0
2011	5	2		29.5879	5/1/2011	0	0	0	1	0	1	0
2011	5	3.1		30.0092	5/1/2011	0	0	0	0	0	0	0
2011	5	3.15		28.9744	5/1/2011	0	0	0	0	0	0	0
2011	5	3.2		30.0092	5/1/2011	0	0	0	0	0	0	0
2011	5	3.25		28.9744	5/1/2011	0	0	0	0	0	0	0
2011	5	4		30.5236	5/1/2011	0	0	0	0	0	0	0
2011	6	1		30.5628	6/1/2011	0	0	0	0	0	0	0
2011	6	2		31.02724	6/1/2011	0	0	0	1	0	1	0
2011	6	3.1		30.6684	6/1/2011	0	0	0	0	0	0	1
2011	6	3.15		30.10796	6/1/2011	0	0	0	0	0	0	0
2011	6	3.2		30.6684	6/1/2011	0	0	0	0	0	0	0
2011	6	3.25		30.10796	6/1/2011	0	0	0	0	0	0	0
2011	6	4		30.22742	6/1/2011	0	0	0	0	0	0	0
2011	7	1		30.19662	7/1/2011	0	0	0	0	0	0	0
2011	7	2		30.55314	7/1/2011	0	0	0	1	0	1	0
2011	7	3.1		30.6751	7/1/2011	0	0	0	0	0	0	1
2011	7	3.15		30.65914	7/1/2011	0	0	0	0	0	0	0
2011	7	3.2		30.6751	7/1/2011	0	0	0	0	0	0	0
2011	7	3.25		30.65914	7/1/2011	0	0	0	0	0	0	0
2011	7	4		30.91708	7/1/2011	0	0	0	0	0	0	0
2011	8	1		29.12086	8/1/2011	0	0	0	0	0	0	0
2011	8	2		29.18128	8/1/2011	0	0	0	1	0	1	0
2011	8	3.1		30.49662	8/1/2011	0	0	0	0	0	0	1
2011	8	3.15		29.1509	8/1/2011	0	0	0	0	0	0	0
2011	8	3.2		30.49662	8/1/2011	0	0	0	0	0	0	0
2011	8	3.25		29.1509	8/1/2011	0	0	0	0	0	0	0
2011	8	4		30.54584	8/1/2011	0	0	0	0	0	0	0
2011	9	1		30.12438	9/1/2011	0	0	0	0	0	0	0
2011	9	2		30.42426	9/1/2011	0	0	0	1	0	1	0
2011	9	3.1		30.25851	9/1/2011	0	0	0	0	0	0	1
2011	9	3.15		30.71044	9/1/2011	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	CUST	DAYS	time	res1	res2	com1	com3	com4	ind1	ind2
2011	9	3.2		30.25851	9/1/2011	0	0	0	0	0	0	0
2011	9	3.25		30.71044	9/1/2011	0	0	0	0	0	0	0
2011	9	4		30.13359	9/1/2011	0	0	0	0	0	0	0
2011	10	1		29.42955	10/1/2011	0	0	0	0	0	0	0
2011	10	2		29.75238	10/1/2011	0	0	0	1	0	1	0
2011	10	3.1		30.40293	10/1/2011	0	0	0	0	0	0	0
2011	10	3.15		29.46108	10/1/2011	0	0	0	0	0	0	0
2011	10	3.2		30.40293	10/1/2011	0	0	0	0	0	0	0
2011	10	3.25		29.46108	10/1/2011	0	0	0	0	0	0	0
2011	10	4		30.65925	10/1/2011	0	0	0	0	0	0	0
2011	11	1		29.2014	11/1/2011	0	0	0	0	0	0	0
2011	11	2		29.57608	11/1/2011	0	0	0	1	0	1	0
2011	11	3.1		30.10377	11/1/2011	0	0	0	0	0	0	0
2011	11	3.15		29.83027	11/1/2011	0	0	0	0	0	0	0
2011	11	3.2		30.10377	11/1/2011	0	0	0	0	0	0	0
2011	11	3.25		29.83027	11/1/2011	0	0	0	0	0	0	0
2011	11	4		30.0422	11/1/2011	0	0	0	0	0	0	0
2011	12	1		32.04436	12/1/2011	0	0	0	0	0	0	0
2011	12	2		32.23553	12/1/2011	0	0	0	1	0	1	0
2011	12	3.1		31.77028	12/1/2011	0	0	0	0	0	0	0
2011	12	3.15		33.02509	12/1/2011	0	0	0	0	0	0	0
2011	12	3.2		31.77028	12/1/2011	0	0	0	0	0	0	0
2011	12	3.25		33.02509	12/1/2011	0	0	0	0	0	0	0
2011	12	4		31.22644	12/1/2011	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
1998	1	1	1	0	0	0	0	0	0	0
1998	1	2	2	0	0	0	0	0	0	0
1998	1	3.1	3.1	0	0	0	0	0	0	0
1998	1	3.15	3.15	0	0	0	0	0	0	0
1998	1	3.2	3.2	0	0	0	0	0	0	0
1998	1	3.25	3.25	0	0	0	0	0	0	0
1998	1	4	4	0	1	0	0	0	0	0
1998	2	1	1	0	0	0	0	0	0	0
1998	2	2	2	0	0	0	0	0	0	0
1998	2	3.1	3.1	0	0	0	0	0	0	0
1998	2	3.15	3.15	0	0	0	0	0	0	0
1998	2	3.2	3.2	0	0	0	0	0	0	0
1998	2	3.25	3.25	0	0	0	0	0	0	0
1998	2	4	4	0	0	1	0	0	0	0
1998	3	1	1	0	0	0	0	0	0	0
1998	3	2	2	0	0	0	0	0	0	0
1998	3	3.1	3.1	0	0	0	0	0	0	0
1998	3	3.15	3.15	0	0	0	0	0	0	0
1998	3	3.2	3.2	0	0	0	0	0	0	0
1998	3	3.25	3.25	0	0	0	0	0	0	0
1998	3	4	4	0	0	1	0	0	0	0
1998	4	1	1	0	0	0	0	0	0	0
1998	4	2	2	0	0	0	0	0	0	0
1998	4	3.1	3.1	0	0	0	0	0	0	0
1998	4	3.15	3.15	0	0	0	0	0	0	0
1998	4	3.2	3.2	0	0	0	0	0	0	0
1998	4	3.25	3.25	0	0	0	0	0	0	0
1998	4	4	4	0	0	0	1	0	0	0
1998	5	1	1	0	0	0	0	0	0	0
1998	5	2	2	0	0	0	0	0	0	0
1998	5	3.1	3.1	0	0	0	0	0	0	0
1998	5	3.15	3.15	0	0	0	0	0	0	0
1998	5	3.2	3.2	0	0	0	0	0	0	0
1998	5	3.25	3.25	0	0	0	0	0	0	0
1998	5	4	4	0	0	0	1	0	0	0
1998	6	1	1	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
1998	6	2		0	0	0	0	0	0	0
1998	6	3.1		0	0	0	0	0	0	0
1998	6	3.15		0	0	0	0	0	0	0
1998	6	3.2		0	0	0	0	0	0	0
1998	6	3.25		0	0	0	0	0	0	0
1998	6	4		0	0	1	0	0	0	0
1998	7	1		0	0	0	0	0	0	0
1998	7	2		0	0	0	0	0	0	0
1998	7	3.1		0	0	0	0	0	0	0
1998	7	3.15		0	0	0	0	0	0	0
1998	7	3.2		0	0	0	0	0	0	0
1998	7	3.25		0	0	0	0	0	0	0
1998	7	4		0	0	1	0	0	0	0
1998	8	1		0	0	0	0	0	0	0
1998	8	2		0	0	0	0	0	0	0
1998	8	3.1		0	0	0	0	0	0	0
1998	8	3.15		0	0	0	0	0	0	0
1998	8	3.2		0	0	0	0	0	0	0
1998	8	3.25		0	0	0	0	0	0	0
1998	8	4		0	0	1	0	0	0	0
1998	9	1		0	0	0	0	0	0	0
1998	9	2		0	0	0	0	0	0	0
1998	9	3.1		0	0	0	0	0	0	0
1998	9	3.15		0	0	0	0	0	0	0
1998	9	3.2		0	0	0	0	0	0	0
1998	9	3.25		0	0	0	0	0	0	0
1998	9	4		0	0	1	0	0	0	0
1998	10	1		0	0	0	0	0	0	0
1998	10	2		0	0	0	0	0	0	0
1998	10	3.1		0	0	0	0	0	0	0
1998	10	3.15		0	0	0	0	0	0	0
1998	10	3.2		0	0	0	0	0	0	0
1998	10	3.25		0	0	0	0	0	0	0
1998	10	4		0	0	0	0	0	0	0
1998	11	1		0	0	0	0	1	0	0
1998	11	2		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
1998	11	3.1		0	0	0	0	0	0	0
1998	11	3.15		0	0	0	0	0	0	0
1998	11	3.2		0	0	0	0	0	0	0
1998	11	3.25		0	0	0	0	0	0	0
1998	11	4		0	0	0	0	1	0	0
1998	12	1		0	0	0	0	0	0	0
1998	12	2		0	0	0	0	0	0	0
1998	12	3.1		0	0	0	0	0	0	0
1998	12	3.15		0	0	0	0	0	0	0
1998	12	3.2		0	0	0	0	0	0	0
1998	12	3.25		0	0	0	0	0	0	0
1998	12	4		0	0	0	0	1	0	0
1999	1	1		0	0	0	0	0	0	0
1999	1	2		0	0	0	0	0	0	0
1999	1	3.1		0	0	0	0	0	0	0
1999	1	3.15		0	0	0	0	0	0	0
1999	1	3.2		0	0	0	0	0	0	0
1999	1	3.25		0	0	0	0	0	0	0
1999	1	4		0	0	0	0	1	0	0
1999	2	1		0	0	0	0	0	0	0
1999	2	2		0	0	0	0	0	0	0
1999	2	3.1		0	0	0	0	0	0	0
1999	2	3.15		0	0	0	0	0	0	0
1999	2	3.2		0	0	0	0	0	0	0
1999	2	3.25		0	0	0	0	0	0	0
1999	2	4		0	0	0	0	1	0	0
1999	3	1		0	0	0	0	0	0	0
1999	3	2		0	0	0	0	0	0	0
1999	3	3.1		0	0	0	0	0	0	0
1999	3	3.15		0	0	0	0	0	0	0
1999	3	3.2		0	0	0	0	0	0	0
1999	3	3.25		0	0	0	0	0	0	0
1999	3	4		0	0	0	0	1	0	0
1999	4	1		0	0	0	0	0	0	0
1999	4	2		0	0	0	0	0	0	0
1999	4	3.1		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
1999	4	3.15		0	0	0	0	0	0	0
1999	4	3.2		0	0	0	0	0	0	0
1999	4	3.25		0	0	0	0	0	0	0
1999	4	4		0	0	0	0	1	0	0
1999	5	1		0	0	0	0	0	0	0
1999	5	2		0	0	0	0	0	0	0
1999	5	3.1		0	0	0	0	0	0	0
1999	5	3.15		0	0	0	0	0	0	0
1999	5	3.2		0	0	0	0	0	0	0
1999	5	3.25		0	0	0	0	0	0	0
1999	5	4		0	0	0	0	1	0	0
1999	6	1		0	0	0	0	0	0	0
1999	6	2		0	0	0	0	0	0	0
1999	6	3.1		0	0	0	0	0	0	0
1999	6	3.15		0	0	0	0	0	0	0
1999	6	3.2		0	0	0	0	0	0	0
1999	6	3.25		0	0	0	0	0	0	0
1999	6	4		0	0	0	0	1	0	0
1999	7	1		0	0	0	0	0	0	0
1999	7	2		0	0	0	0	0	0	0
1999	7	3.1		0	0	0	0	0	0	0
1999	7	3.15		0	0	0	0	0	0	0
1999	7	3.2		0	0	0	0	0	0	0
1999	7	3.25		0	0	0	0	0	0	0
1999	7	4		0	0	0	0	1	0	0
1999	8	1		0	0	0	0	0	0	0
1999	8	2		0	0	0	0	0	0	0
1999	8	3.1		0	0	0	0	0	0	0
1999	8	3.15		0	0	0	0	0	0	0
1999	8	3.2		0	0	0	0	0	0	0
1999	8	3.25		0	0	0	0	0	0	0
1999	8	4		0	0	0	0	1	0	0
1999	9	1		0	0	0	0	0	0	0
1999	9	2		0	0	0	0	0	0	0
1999	9	3.1		0	0	0	0	0	0	0
1999	9	3.15		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
1999	9	3.2		0	0	0	0	0	0	0
1999	9	3.25		0	0	0	0	0	0	0
1999	9	4		0	0	0	0	1	0	0
1999	10	1		0	0	0	0	0	0	0
1999	10	2		0	0	0	0	0	0	0
1999	10	3.1		0	0	0	0	0	0	0
1999	10	3.15		0	0	0	0	0	0	0
1999	10	3.2		0	0	0	0	0	0	0
1999	10	3.25		0	0	0	0	0	0	0
1999	10	4		0	0	0	0	1	0	0
1999	11	1		0	0	0	0	0	0	0
1999	11	2		0	0	0	0	0	0	0
1999	11	3.1		0	0	0	0	0	0	0
1999	11	3.15		0	0	0	0	0	0	0
1999	11	3.2		0	0	0	0	0	0	0
1999	11	3.25		0	0	0	0	0	0	0
1999	11	4		0	0	0	0	1	0	0
1999	12	1		0	0	0	0	0	0	0
1999	12	2		0	0	0	0	0	0	0
1999	12	3.1		0	0	0	0	0	0	0
1999	12	3.15		0	0	0	0	0	0	0
1999	12	3.2		0	0	0	0	0	0	0
1999	12	3.25		0	0	0	0	0	0	0
1999	12	4		0	0	0	0	1	0	0
2000	1	1		0	0	0	0	0	0	0
2000	1	2		0	0	0	0	0	0	0
2000	1	3.1		0	0	0	0	0	0	0
2000	1	3.15		0	0	0	0	0	0	0
2000	1	3.2		0	0	0	0	0	0	0
2000	1	3.25		0	0	0	0	0	0	0
2000	1	4		0	0	0	0	1	0	0
2000	2	1		0	0	0	0	0	0	0
2000	2	2		0	0	0	0	0	0	0
2000	2	3.1		0	0	0	0	0	0	0
2000	2	3.15		0	0	0	0	0	0	0
2000	2	3.2		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2000	2	3.25		0	0	0	0	0	0	0
2000	2	4		0	0	0	0	1	0	0
2000	3	1		0	0	0	0	0	0	0
2000	3	2		0	0	0	0	0	0	0
2000	3	3.1		0	0	0	0	0	0	0
2000	3	3.15		0	0	0	0	0	0	0
2000	3	3.2		0	0	0	0	0	0	0
2000	3	3.25		0	0	0	0	0	0	0
2000	3	4		0	0	0	0	1	0	0
2000	4	1		0	0	0	0	0	0	0
2000	4	2		0	0	0	0	0	0	0
2000	4	3.1		0	0	0	0	0	0	0
2000	4	3.15		0	0	0	0	0	0	0
2000	4	3.2		0	0	0	0	0	0	0
2000	4	3.25		0	0	0	0	0	0	0
2000	4	4		0	0	0	0	1	0	0
2000	5	1		0	0	0	0	0	0	0
2000	5	2		0	0	0	0	0	0	0
2000	5	3.1		0	0	0	0	0	0	0
2000	5	3.15		0	0	0	0	0	0	0
2000	5	3.2		0	0	0	0	0	0	0
2000	5	3.25		0	0	0	0	0	0	0
2000	5	4		0	0	0	0	1	0	0
2000	6	1		0	0	0	0	0	0	0
2000	6	2		0	0	0	0	0	0	0
2000	6	3.1		0	0	0	0	0	0	0
2000	6	3.15		0	0	0	0	0	0	0
2000	6	3.2		0	0	0	0	0	0	0
2000	6	3.25		0	0	0	0	0	0	0
2000	6	4		0	0	0	0	1	0	0
2000	7	1		0	0	0	0	0	0	0
2000	7	2		0	0	0	0	0	0	0
2000	7	3.1		0	0	0	0	0	0	0
2000	7	3.15		0	0	0	0	0	0	0
2000	7	3.2		0	0	0	0	0	0	0
2000	7	3.25		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2000	7	4		0	0	0	0	1	0	0
2000	8	1		0	0	0	0	0	0	0
2000	8	2		0	0	0	0	0	0	0
2000	8	3.1		0	0	0	0	0	0	0
2000	8	3.15		0	0	0	0	0	0	0
2000	8	3.2		0	0	0	0	0	0	0
2000	8	3.25		0	0	0	0	0	0	0
2000	8	4		0	0	0	0	1	0	0
2000	9	1		0	0	0	0	0	0	0
2000	9	2		0	0	0	0	0	0	0
2000	9	3.1		0	0	0	0	0	0	0
2000	9	3.15		0	0	0	0	0	0	0
2000	9	3.2		0	0	0	0	0	0	0
2000	9	3.25		0	0	0	0	0	0	0
2000	9	4		0	0	0	0	1	0	0
2000	10	1		0	0	0	0	0	0	0
2000	10	2		0	0	0	0	0	0	0
2000	10	3.1		0	0	0	0	0	0	0
2000	10	3.15		0	0	0	0	0	0	0
2000	10	3.2		0	0	0	0	0	0	0
2000	10	3.25		0	0	0	0	0	0	0
2000	10	4		0	0	0	0	1	0	0
2000	11	1		0	0	0	0	0	0	0
2000	11	2		0	0	0	0	0	0	0
2000	11	3.1		0	0	0	0	0	0	0
2000	11	3.15		0	0	0	0	0	0	0
2000	11	3.2		0	0	0	0	0	0	0
2000	11	3.25		0	0	0	0	0	0	0
2000	11	4		0	0	0	0	1	0	0
2000	12	1		0	0	0	0	0	0	0
2000	12	2		0	0	0	0	0	0	0
2000	12	3.1		0	0	0	0	0	0	0
2000	12	3.15		0	0	0	0	0	0	0
2000	12	3.2		0	0	0	0	0	0	0
2000	12	3.25		0	0	0	0	0	0	0
2000	12	4		0	0	0	1	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2001	1	1	1	0	0	0	0	0	0	0
2001	1	2	2	0	0	0	0	0	0	0
2001	1	3.1	3.1	0	0	0	0	0	0	0
2001	1	3.15	3.15	0	0	0	0	0	0	0
2001	1	3.2	3.2	0	0	0	0	0	0	0
2001	1	3.25	3.25	0	0	0	0	0	0	0
2001	1	4	4	0	0	1	0	0	0	0
2001	2	1	1	0	0	0	0	0	0	0
2001	2	2	2	0	0	0	0	0	0	0
2001	2	3.1	3.1	0	0	0	0	0	0	0
2001	2	3.15	3.15	0	0	0	0	0	0	0
2001	2	3.2	3.2	0	0	0	0	0	0	0
2001	2	3.25	3.25	0	0	0	0	0	0	0
2001	2	4	4	0	0	0	0	0	1	0
2001	3	1	1	0	0	0	0	0	0	0
2001	3	2	2	0	0	0	0	0	0	0
2001	3	3.1	3.1	0	0	0	0	0	0	0
2001	3	3.15	3.15	0	0	0	0	0	0	0
2001	3	3.2	3.2	0	0	0	0	0	0	0
2001	3	3.25	3.25	0	0	0	0	0	0	0
2001	3	4	4	0	0	0	0	0	1	0
2001	4	1	1	0	0	0	0	0	0	0
2001	4	2	2	0	0	0	0	0	0	0
2001	4	3.1	3.1	0	0	0	0	0	0	0
2001	4	3.15	3.15	0	0	0	0	0	0	0
2001	4	3.2	3.2	0	0	0	0	0	0	0
2001	4	3.25	3.25	0	0	0	0	0	0	0
2001	4	4	4	0	0	0	0	0	1	0
2001	5	1	1	0	0	0	0	0	0	0
2001	5	2	2	0	0	0	0	0	0	0
2001	5	3.1	3.1	0	0	0	0	0	0	0
2001	5	3.15	3.15	0	0	0	0	0	0	0
2001	5	3.2	3.2	0	0	0	0	0	0	0
2001	5	3.25	3.25	0	0	0	0	0	0	0
2001	5	4	4	0	0	0	0	0	1	0
2001	6	1	1	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2001	6	2		0	0	0	0	0	0	0
2001	6	3.1		0	0	0	0	0	0	0
2001	6	3.15		0	0	0	0	0	0	0
2001	6	3.2		0	0	0	0	0	0	0
2001	6	3.25		0	0	0	0	0	0	0
2001	6	4		0	0	0	0	0	1	0
2001	7	1		0	0	0	0	0	0	0
2001	7	2		0	0	0	0	0	0	0
2001	7	3.1		0	0	0	0	0	0	0
2001	7	3.15		0	0	0	0	0	0	0
2001	7	3.2		0	0	0	0	0	0	0
2001	7	3.25		0	0	0	0	0	0	0
2001	7	4		0	0	0	0	0	1	0
2001	8	1		0	0	0	0	0	0	0
2001	8	2		0	0	0	0	0	0	0
2001	8	3.1		0	0	0	0	0	0	0
2001	8	3.15		0	0	0	0	0	0	0
2001	8	3.2		0	0	0	0	0	0	0
2001	8	3.25		0	0	0	0	0	0	0
2001	8	4		0	0	0	0	0	1	0
2001	9	1		0	0	0	0	0	0	0
2001	9	2		0	0	0	0	0	0	0
2001	9	3.1		0	0	0	0	0	0	0
2001	9	3.15		0	0	0	0	0	0	0
2001	9	3.2		0	0	0	0	0	0	0
2001	9	3.25		0	0	0	0	0	0	0
2001	9	4		0	0	0	0	0	1	0
2001	10	1		0	0	0	0	0	0	0
2001	10	2		0	0	0	0	0	0	0
2001	10	3.1		0	0	0	0	0	0	0
2001	10	3.15		0	0	0	0	0	0	0
2001	10	3.2		0	0	0	0	0	0	0
2001	10	3.25		0	0	0	0	0	0	0
2001	10	4		0	0	0	0	0	1	0
2001	11	1		0	0	0	0	0	0	0
2001	11	2		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2001	11	3.1		0	0	0	0	0	0	0
2001	11	3.15		0	0	0	0	0	0	0
2001	11	3.2		0	0	0	0	0	0	0
2001	11	3.25		0	0	0	0	0	0	0
2001	11	4		0	0	0	0	0	1	0
2001	12	1		0	0	0	0	0	0	0
2001	12	2		0	0	0	0	0	0	0
2001	12	3.1		0	0	0	0	0	0	0
2001	12	3.15		0	0	0	0	0	0	0
2001	12	3.2		0	0	0	0	0	0	0
2001	12	3.25		0	0	0	0	0	0	0
2001	12	4		0	0	0	0	0	1	0
2002	1	1		0	0	0	0	0	0	0
2002	1	2		0	0	0	0	0	0	0
2002	1	3.1		0	0	0	0	0	0	0
2002	1	3.15		0	0	0	0	0	0	0
2002	1	3.2		0	0	0	0	0	0	0
2002	1	3.25		0	0	0	0	0	0	0
2002	1	4		0	0	0	0	0	1	0
2002	2	1		0	0	0	0	0	0	0
2002	2	2		0	0	0	0	0	0	0
2002	2	3.1		0	0	0	0	0	0	0
2002	2	3.15		0	0	0	0	0	0	0
2002	2	3.2		0	0	0	0	0	0	0
2002	2	3.25		0	0	0	0	0	0	0
2002	2	4		0	0	0	0	0	1	0
2002	3	1		0	0	0	0	0	0	0
2002	3	2		0	0	0	0	0	0	0
2002	3	3.1		0	0	0	0	0	0	0
2002	3	3.15		0	0	0	0	0	0	0
2002	3	3.2		0	0	0	0	0	0	0
2002	3	3.25		0	0	0	0	0	0	0
2002	3	4		0	0	0	0	0	1	0
2002	4	1		0	0	0	0	0	0	0
2002	4	2		0	0	0	0	0	0	0
2002	4	3.1		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2002	4	3.15		0	0	0	0	0	0	0
2002	4	3.2		0	0	0	0	0	0	0
2002	4	3.25		0	0	0	0	0	0	0
2002	4	4		0	0	0	0	0	1	0
2002	5	1		0	0	0	0	0	0	0
2002	5	2		0	0	0	0	0	0	0
2002	5	3.1		1	0	0	0	0	0	0
2002	5	3.15		0	0	0	0	0	0	0
2002	5	3.2		0	0	0	0	0	0	0
2002	5	3.25		0	0	0	0	0	0	0
2002	5	4		0	0	0	0	0	1	0
2002	6	1		0	0	0	0	0	0	0
2002	6	2		0	0	0	0	0	0	0
2002	6	3.1		0	0	0	0	0	0	0
2002	6	3.15		0	0	0	0	0	0	0
2002	6	3.2		0	0	0	0	0	0	0
2002	6	3.25		0	0	0	0	0	0	0
2002	6	4		0	0	0	0	0	1	0
2002	7	1		0	0	0	0	0	0	0
2002	7	2		0	0	0	0	0	0	0
2002	7	3.1		0	0	0	0	0	0	0
2002	7	3.15		0	0	0	0	0	0	0
2002	7	3.2		0	0	0	0	0	0	0
2002	7	3.25		0	0	0	0	0	0	0
2002	7	4		0	0	0	0	0	1	0
2002	8	1		0	0	0	0	0	0	0
2002	8	2		0	0	0	0	0	0	0
2002	8	3.1		0	0	0	0	0	0	0
2002	8	3.15		0	0	0	0	0	0	0
2002	8	3.2		0	0	0	0	0	0	0
2002	8	3.25		0	0	0	0	0	0	0
2002	8	4		0	0	0	0	0	1	0
2002	9	1		0	0	0	0	0	0	0
2002	9	2		0	0	0	0	0	0	0
2002	9	3.1		0	0	0	0	0	0	0
2002	9	3.15		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2002	9	3.2		0	0	0	0	0	0	0
2002	9	3.25		0	0	0	0	0	0	0
2002	9	4		0	0	0	0	0	1	0
2002	10	1		0	0	0	0	0	0	0
2002	10	2		0	0	0	0	0	0	0
2002	10	3.1		0	1	0	0	0	0	0
2002	10	3.15		0	0	0	0	0	0	0
2002	10	3.2		0	0	0	0	0	0	0
2002	10	3.25		0	0	0	0	0	0	0
2002	10	4		0	0	0	0	0	1	0
2002	11	1		0	0	0	0	0	0	0
2002	11	2		0	0	0	0	0	0	0
2002	11	3.1		0	1	0	0	0	0	0
2002	11	3.15		0	0	0	0	0	0	0
2002	11	3.2		0	0	0	0	0	0	0
2002	11	3.25		0	0	0	0	0	0	0
2002	11	4		0	0	0	0	0	1	0
2002	12	1		0	0	0	0	0	0	0
2002	12	2		0	0	0	0	0	0	0
2002	12	3.1		0	1	0	0	0	0	0
2002	12	3.15		0	0	0	0	0	0	0
2002	12	3.2		0	0	0	0	0	0	0
2002	12	3.25		0	0	0	0	0	0	0
2002	12	4		0	0	0	0	0	1	0
2003	1	1		0	0	0	0	0	0	0
2003	1	2		0	0	0	0	0	0	0
2003	1	3.1		0	1	0	0	0	0	0
2003	1	3.15		0	0	0	0	0	0	0
2003	1	3.2		0	0	0	0	0	0	0
2003	1	3.25		0	0	0	0	0	0	0
2003	1	4		0	0	0	0	0	1	0
2003	2	1		0	0	0	0	0	0	0
2003	2	2		0	0	0	0	0	0	0
2003	2	3.1		0	1	0	0	0	0	0
2003	2	3.15		0	0	0	0	0	0	0
2003	2	3.2		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2003	2	3.25		0	0	0	0	0	0	0
2003	2	4		0	0	0	0	0	1	0
2003	3	1		0	0	0	0	0	0	0
2003	3	2		0	0	0	0	0	0	0
2003	3	3.1		0	1	0	0	0	0	0
2003	3	3.15		0	0	0	0	0	0	0
2003	3	3.2		0	0	0	0	0	0	0
2003	3	3.25		0	0	0	0	0	0	0
2003	3	4		0	0	0	0	0	1	0
2003	4	1		0	0	0	0	0	0	0
2003	4	2		0	0	0	0	0	0	0
2003	4	3.1		0	1	0	0	0	0	0
2003	4	3.15		0	0	0	0	0	0	0
2003	4	3.2		0	0	0	0	0	0	0
2003	4	3.25		0	0	0	0	0	0	0
2003	4	4		0	0	0	0	0	1	0
2003	5	1		0	0	0	0	0	0	0
2003	5	2		0	0	0	0	0	0	0
2003	5	3.1		0	1	0	0	0	0	0
2003	5	3.15		0	0	0	0	0	0	0
2003	5	3.2		0	0	0	0	0	0	0
2003	5	3.25		0	0	0	0	0	0	0
2003	5	4		0	0	0	0	0	1	0
2003	6	1		0	0	0	0	0	0	0
2003	6	2		0	0	0	0	0	0	0
2003	6	3.1		0	1	0	0	0	0	0
2003	6	3.15		0	0	0	0	0	0	0
2003	6	3.2		0	0	0	0	0	0	0
2003	6	3.25		0	0	0	0	0	0	0
2003	6	4		0	0	0	0	0	1	0
2003	7	1		0	0	0	0	0	0	0
2003	7	2		0	0	0	0	0	0	0
2003	7	3.1		0	1	0	0	0	0	0
2003	7	3.15		0	0	0	0	0	0	0
2003	7	3.2		0	0	0	0	0	0	0
2003	7	3.25		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2003	7	4		0	0	0	0	0	1	0
2003	8	1		0	0	0	0	0	0	0
2003	8	2		0	0	0	0	0	0	0
2003	8	3.1		0	1	0	0	0	0	0
2003	8	3.15		0	0	0	0	0	0	0
2003	8	3.2		0	0	0	0	0	0	0
2003	8	3.25		0	0	0	0	0	0	0
2003	8	4		0	0	0	0	0	1	0
2003	9	1		0	0	0	0	0	0	0
2003	9	2		0	0	0	0	0	0	0
2003	9	3.1		0	1	0	0	0	0	0
2003	9	3.15		0	0	0	0	0	0	0
2003	9	3.2		0	0	0	0	0	0	0
2003	9	3.25		0	0	0	0	0	0	0
2003	9	4		0	0	0	0	0	1	0
2003	10	1		0	0	0	0	0	0	0
2003	10	2		0	0	0	0	0	0	0
2003	10	3.1		0	1	0	0	0	0	0
2003	10	3.15		0	0	0	0	0	0	0
2003	10	3.2		0	0	0	0	0	0	0
2003	10	3.25		0	0	0	0	0	0	0
2003	10	4		0	0	0	0	0	1	0
2003	11	1		0	0	0	0	0	0	0
2003	11	2		0	0	0	0	0	0	0
2003	11	3.1		0	1	0	0	0	0	0
2003	11	3.15		0	0	0	0	0	0	0
2003	11	3.2		0	0	0	0	0	0	0
2003	11	3.25		0	0	0	0	0	0	0
2003	11	4		0	0	0	0	0	1	0
2003	12	1		0	0	0	0	0	0	0
2003	12	2		0	0	0	0	0	0	0
2003	12	3.1		0	1	0	0	0	0	0
2003	12	3.15		0	0	0	0	0	0	0
2003	12	3.2		0	0	0	0	0	0	0
2003	12	3.25		0	0	0	0	0	0	0
2003	12	4		0	0	0	0	0	1	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2004	1	1	1	0	0	0	0	0	0	0
2004	1	2	2	0	0	0	0	0	0	0
2004	1	3.1	3.1	0	1	0	0	0	0	0
2004	1	3.15	3.15	0	0	0	0	0	0	0
2004	1	3.2	3.2	0	0	0	0	0	0	0
2004	1	3.25	3.25	0	0	0	0	0	0	0
2004	1	4	4	0	0	0	0	0	1	0
2004	2	1	1	0	0	0	0	0	0	0
2004	2	2	2	0	0	0	0	0	0	0
2004	2	3.1	3.1	0	1	0	0	0	0	0
2004	2	3.15	3.15	0	0	0	0	0	0	0
2004	2	3.2	3.2	0	0	0	0	0	0	0
2004	2	3.25	3.25	0	0	0	0	0	0	0
2004	2	4	4	0	0	0	0	0	1	0
2004	3	1	1	0	0	0	0	0	0	0
2004	3	2	2	0	0	0	0	0	0	0
2004	3	3.1	3.1	0	1	0	0	0	0	0
2004	3	3.15	3.15	0	0	0	0	0	0	0
2004	3	3.2	3.2	0	0	0	0	0	0	0
2004	3	3.25	3.25	0	0	0	0	0	0	0
2004	3	4	4	0	0	0	0	0	1	0
2004	4	1	1	0	0	0	0	0	0	0
2004	4	2	2	0	0	0	0	0	0	0
2004	4	3.1	3.1	0	1	0	0	0	0	0
2004	4	3.15	3.15	0	0	0	0	0	0	0
2004	4	3.2	3.2	0	0	0	0	0	0	0
2004	4	3.25	3.25	0	0	0	0	0	0	0
2004	4	4	4	0	0	0	0	0	1	0
2004	5	1	1	0	0	0	0	0	0	0
2004	5	2	2	0	0	0	0	0	0	0
2004	5	3.1	3.1	0	1	0	0	0	0	0
2004	5	3.15	3.15	0	0	0	0	0	0	0
2004	5	3.2	3.2	0	0	0	0	0	0	0
2004	5	3.25	3.25	0	0	0	0	0	0	0
2004	5	4	4	0	0	0	0	0	1	0
2004	6	1	1	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2004	6	2	0	0	0	0	0	0	0	0
2004	6	3.1	0	0	1	0	0	0	0	0
2004	6	3.15	0	0	0	0	0	0	0	0
2004	6	3.2	0	0	0	0	0	0	0	0
2004	6	3.25	0	0	0	0	0	0	0	0
2004	6	4	0	0	0	0	0	0	1	0
2004	7	1	0	0	0	0	0	0	0	0
2004	7	2	0	0	0	0	0	0	0	0
2004	7	3.1	0	0	1	0	0	0	0	0
2004	7	3.15	0	0	0	0	0	0	0	0
2004	7	3.2	0	0	0	0	0	0	0	0
2004	7	3.25	0	0	0	0	0	0	0	0
2004	7	4	0	0	0	0	0	1	0	0
2004	8	1	0	0	0	0	0	0	0	0
2004	8	2	0	0	0	0	0	0	0	0
2004	8	3.1	0	0	1	0	0	0	0	0
2004	8	3.15	0	0	0	0	0	0	0	0
2004	8	3.2	0	0	0	0	0	0	0	0
2004	8	3.25	0	0	0	0	0	0	0	0
2004	8	4	0	0	0	0	0	0	1	0
2004	9	1	0	0	0	0	0	0	0	0
2004	9	2	0	0	0	0	0	0	0	0
2004	9	3.1	0	0	1	0	0	0	0	0
2004	9	3.15	0	0	0	0	0	0	0	0
2004	9	3.2	0	0	0	0	0	0	0	0
2004	9	3.25	0	0	0	0	0	0	0	0
2004	9	4	0	0	0	0	0	0	1	0
2004	10	1	0	0	0	0	0	0	0	0
2004	10	2	0	0	0	0	0	0	0	0
2004	10	3.1	0	0	1	0	0	0	0	0
2004	10	3.15	0	0	0	0	0	0	0	0
2004	10	3.2	0	0	0	0	0	0	0	0
2004	10	3.25	0	0	0	0	0	0	0	0
2004	10	4	0	0	0	0	0	0	1	0
2004	11	1	0	0	0	0	0	0	0	0
2004	11	2	0	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2004	11	3.1		0	1	0	0	0	0	0
2004	11	3.15		0	0	0	0	0	0	0
2004	11	3.2		0	0	0	0	0	0	0
2004	11	3.25		0	0	0	0	0	0	0
2004	11	4		0	0	0	0	0	1	0
2004	12	1		0	0	0	0	0	0	0
2004	12	2		0	0	0	0	0	0	0
2004	12	3.1		0	1	0	0	0	0	0
2004	12	3.15		0	0	0	0	0	0	0
2004	12	3.2		0	0	0	0	0	0	0
2004	12	3.25		0	0	0	0	0	0	0
2004	12	4		0	0	0	0	0	1	0
2005	1	1		0	0	0	0	0	0	0
2005	1	2		0	0	0	0	0	0	0
2005	1	3.1		0	1	0	0	0	0	0
2005	1	3.15		0	0	0	0	0	0	0
2005	1	3.2		0	0	0	0	0	0	0
2005	1	3.25		0	0	0	0	0	0	0
2005	1	4		0	0	0	0	0	1	0
2005	2	1		0	0	0	0	0	0	0
2005	2	2		0	0	0	0	0	0	0
2005	2	3.1		0	0	0	0	0	0	0
2005	2	3.15		0	1	0	0	0	0	0
2005	2	3.2		0	0	0	0	0	0	0
2005	2	3.25		0	0	0	0	0	0	0
2005	2	4		0	0	0	0	0	1	0
2005	3	1		0	0	0	0	0	0	0
2005	3	2		0	0	0	0	0	0	0
2005	3	3.1		0	1	0	0	0	0	0
2005	3	3.15		0	0	0	0	0	0	0
2005	3	3.2		0	0	0	0	0	0	0
2005	3	3.25		0	0	0	0	0	0	0
2005	3	4		0	0	0	0	0	1	0
2005	4	1		0	0	0	0	0	0	0
2005	4	2		0	0	0	0	0	0	0
2005	4	3.1		0	1	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2005	4	3.15		0	0	0	0	0	0	0
2005	4	3.2		0	0	0	0	0	0	0
2005	4	3.25		0	0	0	0	0	0	0
2005	4	4		0	0	0	0	0	1	0
2005	5	1		0	0	0	0	0	0	0
2005	5	2		0	0	0	0	0	0	0
2005	5	3.1		0	1	0	0	0	0	0
2005	5	3.15		0	0	0	0	0	0	0
2005	5	3.2		0	0	0	0	0	0	0
2005	5	3.25		0	0	0	0	0	0	0
2005	5	4		0	0	0	0	0	1	0
2005	6	1		0	0	0	0	0	0	0
2005	6	2		0	0	0	0	0	0	0
2005	6	3.1		0	1	0	0	0	0	0
2005	6	3.15		0	0	0	0	0	0	0
2005	6	3.2		0	0	0	0	0	0	0
2005	6	3.25		0	0	0	0	0	0	0
2005	6	4		0	0	0	0	0	1	0
2005	7	1		0	0	0	0	0	0	0
2005	7	2		0	0	0	0	0	0	0
2005	7	3.1		0	1	0	0	0	0	0
2005	7	3.15		0	0	0	0	0	0	0
2005	7	3.2		0	0	0	0	0	0	0
2005	7	3.25		0	0	0	0	0	0	0
2005	7	4		0	0	0	0	0	1	0
2005	8	1		0	0	0	0	0	0	0
2005	8	2		0	0	0	0	0	0	0
2005	8	3.1		0	1	0	0	0	0	0
2005	8	3.15		0	0	0	0	0	0	0
2005	8	3.2		0	0	0	0	0	0	0
2005	8	3.25		0	0	0	0	0	0	0
2005	8	4		0	0	0	0	0	0	0
2005	9	1		0	0	0	0	0	0	0
2005	9	2		0	0	0	0	0	0	0
2005	9	3.1		0	1	0	0	0	0	0
2005	9	3.15		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2005	9	3.2		0	0	0	0	0	0	0
2005	9	3.25		0	0	0	0	0	0	0
2005	9	4		0	0	0	0	0	0	1
2005	10	1		0	0	0	0	0	0	0
2005	10	2		0	0	0	0	0	0	0
2005	10	3.1		0	1	0	0	0	0	0
2005	10	3.15		0	0	0	0	0	0	0
2005	10	3.2		0	0	0	0	0	0	0
2005	10	3.25		0	0	0	0	0	0	0
2005	10	4		0	0	0	0	0	0	1
2005	11	1		0	0	0	0	0	0	0
2005	11	2		0	0	0	0	0	0	0
2005	11	3.1		0	1	0	0	0	0	0
2005	11	3.15		0	0	0	0	0	0	0
2005	11	3.2		0	0	0	0	0	0	0
2005	11	3.25		0	0	0	0	0	0	0
2005	11	4		0	0	0	0	0	0	1
2005	12	1		0	0	0	0	0	0	0
2005	12	2		0	0	0	0	0	0	0
2005	12	3.1		0	1	0	0	0	0	0
2005	12	3.15		0	0	0	0	0	0	0
2005	12	3.2		0	0	0	0	0	0	0
2005	12	3.25		0	0	0	0	0	0	0
2005	12	4		0	0	0	0	0	0	1
2006	1	1		0	0	0	0	0	0	0
2006	1	2		0	0	0	0	0	0	0
2006	1	3.1		0	1	0	0	0	0	0
2006	1	3.15		0	0	0	0	0	0	0
2006	1	3.2		0	0	0	0	0	0	0
2006	1	3.25		0	0	0	0	0	0	0
2006	1	4		0	0	0	0	0	0	1
2006	2	1		0	0	0	0	0	0	0
2006	2	2		0	0	0	0	0	0	0
2006	2	3.1		0	1	0	0	0	0	0
2006	2	3.15		0	0	0	0	0	0	0
2006	2	3.2		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2006	2	3.25		0	0	0	0	0	0	0
2006	2	4		0	0	0	0	0	0	1
2006	3	1		0	0	0	0	0	0	0
2006	3	2		0	0	0	0	0	0	0
2006	3	3.1		0	1	0	0	0	0	0
2006	3	3.15		0	0	0	0	0	0	0
2006	3	3.2		0	0	0	0	0	0	0
2006	3	3.25		0	0	0	0	0	0	0
2006	3	4		0	0	0	0	0	0	1
2006	4	1		0	0	0	0	0	0	0
2006	4	2		0	0	0	0	0	0	0
2006	4	3.1		0	1	0	0	0	0	0
2006	4	3.15		0	0	0	0	0	0	0
2006	4	3.2		0	0	0	0	0	0	0
2006	4	3.25		0	0	0	0	0	0	0
2006	4	4		0	0	0	0	0	0	1
2006	5	1		0	0	0	0	0	0	0
2006	5	2		0	0	0	0	0	0	0
2006	5	3.1		0	1	0	0	0	0	0
2006	5	3.15		0	0	0	0	0	0	0
2006	5	3.2		0	0	0	0	0	0	0
2006	5	3.25		0	0	0	0	0	0	0
2006	5	4		0	0	0	0	0	0	1
2006	6	1		0	0	0	0	0	0	0
2006	6	2		0	0	0	0	0	0	0
2006	6	3.1		0	1	0	0	0	0	0
2006	6	3.15		0	0	0	0	0	0	0
2006	6	3.2		0	0	0	0	0	0	0
2006	6	3.25		0	0	0	0	0	0	0
2006	6	4		0	0	0	0	0	0	1
2006	7	1		0	0	0	0	0	0	0
2006	7	2		0	0	0	0	0	0	0
2006	7	3.1		0	1	0	0	0	0	0
2006	7	3.15		0	0	0	0	0	0	0
2006	7	3.2		0	0	0	0	0	0	0
2006	7	3.25		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2006	7	4	4	0	0	0	0	0	0	0
2006	8	1	1	0	0	0	0	0	0	0
2006	8	2	2	0	0	0	0	0	0	0
2006	8	3.1	3.1	0	1	0	0	0	0	0
2006	8	3.15	3.15	0	0	0	0	0	0	0
2006	8	3.2	3.2	0	0	0	0	0	0	0
2006	8	3.25	3.25	0	0	0	0	0	0	0
2006	8	4	4	0	0	0	0	0	0	0
2006	9	1	1	0	0	0	0	0	0	0
2006	9	2	2	0	0	0	0	0	0	0
2006	9	3.1	3.1	0	1	0	0	0	0	0
2006	9	3.15	3.15	0	0	0	0	0	0	0
2006	9	3.2	3.2	0	0	0	0	0	0	0
2006	9	3.25	3.25	0	0	0	0	0	0	0
2006	9	4	4	0	0	0	0	0	0	0
2006	10	1	1	0	0	0	0	0	0	0
2006	10	2	2	0	0	0	0	0	0	0
2006	10	3.1	3.1	0	1	0	0	0	0	0
2006	10	3.15	3.15	0	0	0	0	0	0	0
2006	10	3.2	3.2	0	0	0	0	0	0	0
2006	10	3.25	3.25	0	0	0	0	0	0	0
2006	10	4	4	0	0	0	0	0	0	0
2006	11	1	1	0	0	0	0	0	0	0
2006	11	2	2	0	0	0	0	0	0	0
2006	11	3.1	3.1	0	1	0	0	0	0	0
2006	11	3.15	3.15	0	0	0	0	0	0	0
2006	11	3.2	3.2	0	0	0	0	0	0	0
2006	11	3.25	3.25	0	0	0	0	0	0	0
2006	11	4	4	0	0	0	0	0	0	0
2006	12	1	1	0	0	0	0	0	0	0
2006	12	2	2	0	0	0	0	0	0	0
2006	12	3.1	3.1	0	1	0	0	0	0	0
2006	12	3.15	3.15	0	0	0	0	0	0	0
2006	12	3.2	3.2	0	0	0	0	0	0	0
2006	12	3.25	3.25	0	0	0	0	0	0	0
2006	12	4	4	0	0	0	0	0	0	0
2006	12			0	0	0	0	0	0	1

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2007	1	1	1	0	0	0	0	0	0	0
2007	1	2	2	0	0	0	0	0	0	0
2007	1	3.1	3.1	0	1	0	0	0	0	0
2007	1	3.15	3.15	0	0	0	0	0	0	0
2007	1	3.2	3.2	0	0	0	0	0	0	0
2007	1	3.25	3.25	0	0	0	0	0	0	0
2007	1	4	4	0	0	0	0	0	0	1
2007	2	1	1	0	0	0	0	0	0	0
2007	2	2	2	0	0	0	0	0	0	0
2007	2	3.1	3.1	0	1	0	0	0	0	0
2007	2	3.15	3.15	0	0	0	0	0	0	0
2007	2	3.2	3.2	0	0	0	0	0	0	0
2007	2	3.25	3.25	0	0	0	0	0	0	0
2007	2	4	4	0	0	0	0	0	0	1
2007	3	1	1	0	0	0	0	0	0	0
2007	3	2	2	0	0	0	0	0	0	0
2007	3	3.1	3.1	0	1	0	0	0	0	0
2007	3	3.15	3.15	0	0	0	0	0	0	0
2007	3	3.2	3.2	0	0	0	0	0	0	0
2007	3	3.25	3.25	0	0	0	0	0	0	0
2007	3	4	4	0	0	0	0	0	0	1
2007	4	1	1	0	0	0	0	0	0	0
2007	4	2	2	0	0	0	0	0	0	0
2007	4	3.1	3.1	0	1	0	0	0	0	0
2007	4	3.15	3.15	0	0	0	0	0	0	0
2007	4	3.2	3.2	0	0	0	0	0	0	0
2007	4	3.25	3.25	0	0	0	0	0	0	0
2007	4	4	4	0	0	0	0	0	0	1
2007	5	1	1	0	0	0	0	0	0	0
2007	5	2	2	0	0	0	0	0	0	0
2007	5	3.1	3.1	0	1	0	0	0	0	0
2007	5	3.15	3.15	0	0	0	0	0	0	0
2007	5	3.2	3.2	0	0	0	0	0	0	0
2007	5	3.25	3.25	0	0	0	0	0	0	0
2007	5	4	4	0	0	0	0	0	0	1
2007	6	1	1	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2007	6	2		0	0	0	0	0	0	0
2007	6	3.1		0	1	0	0	0	0	0
2007	6	3.15		0	0	0	0	0	0	0
2007	6	3.2		0	0	0	0	0	0	0
2007	6	3.25		0	0	0	0	0	0	0
2007	6	4		0	0	0	0	0	0	1
2007	7	1		0	0	0	0	0	0	0
2007	7	2		0	0	0	0	0	0	0
2007	7	3.1		0	1	0	0	0	0	0
2007	7	3.15		0	0	0	0	0	0	0
2007	7	3.2		0	0	0	0	0	0	0
2007	7	3.25		0	0	0	0	0	0	0
2007	7	4		0	0	0	0	0	0	1
2007	8	1		0	0	0	0	0	0	0
2007	8	2		0	0	0	0	0	0	0
2007	8	3.1		0	1	0	0	0	0	0
2007	8	3.15		0	0	0	0	0	0	0
2007	8	3.2		0	0	0	0	0	0	0
2007	8	3.25		0	0	0	0	0	0	0
2007	8	4		0	0	0	0	0	0	1
2007	9	1		0	0	0	0	0	0	0
2007	9	2		0	0	0	0	0	0	0
2007	9	3.1		0	1	0	0	0	0	0
2007	9	3.15		0	0	0	0	0	0	0
2007	9	3.2		0	0	0	0	0	0	0
2007	9	3.25		0	0	0	0	0	0	0
2007	9	4		0	0	0	0	0	0	1
2007	10	1		0	0	0	0	0	0	0
2007	10	2		0	0	0	0	0	0	0
2007	10	3.1		0	1	0	0	0	0	0
2007	10	3.15		0	0	0	0	0	0	0
2007	10	3.2		0	0	0	0	0	0	0
2007	10	3.25		0	0	0	0	0	0	0
2007	10	4		0	0	0	0	0	0	1
2007	11	1		0	0	0	0	0	0	0
2007	11	2		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2007	11	3.1		0	1	0	0	0	0	0
2007	11	3.15		0	0	0	0	0	0	0
2007	11	3.2		0	0	0	0	0	0	0
2007	11	3.25		0	0	0	0	0	0	0
2007	11	4		0	0	0	0	0	0	1
2007	12	1		0	0	0	0	0	0	0
2007	12	2		0	0	0	0	0	0	0
2007	12	3.1		0	1	0	0	0	0	0
2007	12	3.15		0	0	0	0	0	0	0
2007	12	3.2		0	0	0	0	0	0	0
2007	12	3.25		0	0	0	0	0	0	0
2007	12	4		0	0	0	0	0	0	1
2008	1	1		0	0	0	0	0	0	0
2008	1	2		0	0	0	0	0	0	0
2008	1	3.1		0	1	0	0	0	0	0
2008	1	3.15		0	0	0	0	0	0	0
2008	1	3.2		0	0	0	0	0	0	0
2008	1	3.25		0	0	0	0	0	0	0
2008	1	4		0	0	0	0	0	0	1
2008	2	1		0	0	0	0	0	0	0
2008	2	2		0	0	0	0	0	0	0
2008	2	3.1		0	0	0	0	0	0	0
2008	2	3.15		0	1	0	0	0	0	0
2008	2	3.2		0	0	0	0	0	0	0
2008	2	3.25		0	0	0	0	0	0	0
2008	2	4		0	0	0	0	0	0	1
2008	3	1		0	0	0	0	0	0	0
2008	3	2		0	0	0	0	0	0	0
2008	3	3.1		0	1	0	0	0	0	0
2008	3	3.15		0	0	0	0	0	0	0
2008	3	3.2		0	0	0	0	0	0	0
2008	3	3.25		0	0	0	0	0	0	0
2008	3	4		0	0	0	0	0	0	1
2008	4	1		0	0	0	0	0	0	0
2008	4	2		0	0	0	0	0	0	0
2008	4	3.1		0	1	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2008	4	3.15		0	0	0	0	0	0	0
2008	4	3.2		0	0	0	0	0	0	0
2008	4	3.25		0	0	0	0	0	0	0
2008	4	4		0	0	0	0	0	0	1
2008	5	1		0	0	0	0	0	0	0
2008	5	2		0	0	0	0	0	0	0
2008	5	3.1		0	1	0	0	0	0	0
2008	5	3.15		0	0	0	0	0	0	0
2008	5	3.2		0	0	0	0	0	0	0
2008	5	3.25		0	0	0	0	0	0	0
2008	5	4		0	0	0	0	0	0	1
2008	6	1		0	0	0	0	0	0	0
2008	6	2		0	0	0	0	0	0	0
2008	6	3.1		0	1	0	0	0	0	0
2008	6	3.15		0	0	0	0	0	0	0
2008	6	3.2		0	0	0	0	0	0	0
2008	6	3.25		0	0	0	0	0	0	0
2008	6	4		0	0	0	0	0	0	1
2008	7	1		0	0	0	0	0	0	0
2008	7	2		0	0	0	0	0	0	0
2008	7	3.1		0	1	0	0	0	0	0
2008	7	3.15		0	0	0	0	0	0	0
2008	7	3.2		0	0	0	0	0	0	0
2008	7	3.25		0	0	0	0	0	0	0
2008	7	4		0	0	0	0	0	0	1
2008	8	1		0	0	0	0	0	0	0
2008	8	2		0	0	0	0	0	0	0
2008	8	3.1		0	1	0	0	0	0	0
2008	8	3.15		0	0	0	0	0	0	0
2008	8	3.2		0	0	0	0	0	0	0
2008	8	3.25		0	0	0	0	0	0	0
2008	8	4		0	0	0	0	0	0	0
2008	9	1		0	0	0	0	0	0	1
2008	9	2		0	0	0	0	0	0	0
2008	9	3.1		0	0	0	0	0	0	0
2008	9	3.15		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2008	9	3.2		0	0	0	0	0	0	0
2008	9	3.25		0	0	0	0	0	0	0
2008	9	4		0	0	0	0	0	0	1
2008	10	1		0	0	0	0	0	0	0
2008	10	2		0	0	0	0	0	0	0
2008	10	3.1		0	0	0	0	0	0	0
2008	10	3.15		0	0	0	0	0	0	0
2008	10	3.2		0	0	0	0	0	0	0
2008	10	3.25		0	0	0	0	0	0	0
2008	10	4		0	0	0	0	0	0	1
2008	11	1		0	0	0	0	0	0	0
2008	11	2		0	0	0	0	0	0	0
2008	11	3.1		0	0	0	0	0	0	0
2008	11	3.15		0	0	0	0	0	0	0
2008	11	3.2		0	0	0	0	0	0	0
2008	11	3.25		0	0	0	0	0	0	0
2008	11	4		0	0	0	0	0	0	1
2008	12	1		0	0	0	0	0	0	0
2008	12	2		0	0	0	0	0	0	0
2008	12	3.1		0	0	0	0	0	0	0
2008	12	3.15		0	0	0	0	0	0	0
2008	12	3.2		0	0	0	0	0	0	0
2008	12	3.25		0	0	0	0	0	0	0
2008	12	4		0	0	0	0	0	0	1
2009	1	1		0	0	0	0	0	0	0
2009	1	2		0	0	0	0	0	0	0
2009	1	3.1		0	0	0	0	0	0	0
2009	1	3.15		0	0	0	0	0	0	0
2009	1	3.2		0	0	0	0	0	0	0
2009	1	3.25		0	0	0	0	0	0	0
2009	1	4		0	0	0	0	0	0	1
2009	2	1		0	0	0	0	0	0	0
2009	2	2		0	0	0	0	0	0	0
2009	2	3.1		0	0	0	0	0	0	0
2009	2	3.15		0	0	0	0	0	0	0
2009	2	3.2		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2009	2	3.25		0	0	0	0	0	0	0
2009	2	4		0	0	0	0	0	0	1
2009	3	1		0	0	0	0	0	0	0
2009	3	2		0	0	0	0	0	0	0
2009	3	3.1		0	0	0	0	0	0	0
2009	3	3.15		0	0	0	0	0	0	0
2009	3	3.2		0	0	0	0	0	0	0
2009	3	3.25		0	0	0	0	0	0	0
2009	3	4		0	0	0	0	0	0	1
2009	4	1		0	0	0	0	0	0	0
2009	4	2		0	0	0	0	0	0	0
2009	4	3.1		0	0	0	0	0	0	0
2009	4	3.15		0	0	0	0	0	0	0
2009	4	3.2		0	0	0	0	0	0	0
2009	4	3.25		0	0	0	0	0	0	0
2009	4	4		0	0	0	0	0	0	1
2009	5	1		0	0	0	0	0	0	0
2009	5	2		0	0	0	0	0	0	0
2009	5	3.1		0	0	0	0	0	0	0
2009	5	3.15		0	0	0	0	0	0	0
2009	5	3.2		0	0	0	0	0	0	0
2009	5	3.25		0	0	0	0	0	0	0
2009	5	4		0	0	0	0	0	0	1
2009	6	1		0	0	0	0	0	0	0
2009	6	2		0	0	0	0	0	0	0
2009	6	3.1		0	0	0	0	0	0	0
2009	6	3.15		0	0	0	0	0	0	0
2009	6	3.2		0	0	0	0	0	0	0
2009	6	3.25		0	0	0	0	0	0	0
2009	6	4		0	0	0	0	0	0	1
2009	7	1		0	0	0	0	0	0	0
2009	7	2		0	0	0	0	0	0	0
2009	7	3.1		0	0	0	0	0	0	0
2009	7	3.15		0	0	0	0	0	0	0
2009	7	3.2		0	0	0	0	0	0	0
2009	7	3.25		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2009	7	4	4	0	0	0	0	0	0	0
2009	8	1	1	0	0	0	0	0	0	0
2009	8	2	2	0	0	0	0	0	0	0
2009	8	3.1	3.1	0	0	0	0	0	0	0
2009	8	3.15	3.15	0	0	0	0	0	0	0
2009	8	3.2	3.2	0	0	0	0	0	0	0
2009	8	3.25	3.25	0	0	0	0	0	0	0
2009	8	4	4	0	0	0	0	0	0	0
2009	9	1	1	0	0	0	0	0	0	0
2009	9	2	2	0	0	0	0	0	0	0
2009	9	3.1	3.1	0	0	0	0	0	0	0
2009	9	3.15	3.15	0	0	0	0	0	0	0
2009	9	3.2	3.2	0	0	0	0	0	0	0
2009	9	3.25	3.25	0	0	0	0	0	0	0
2009	9	4	4	0	0	0	0	0	0	0
2009	10	1	1	0	0	0	0	0	0	0
2009	10	2	2	0	0	0	0	0	0	0
2009	10	3.1	3.1	0	0	0	0	0	0	0
2009	10	3.15	3.15	0	0	0	0	0	0	0
2009	10	3.2	3.2	0	0	0	0	0	0	0
2009	10	3.25	3.25	0	0	0	0	0	0	0
2009	10	4	4	0	0	0	0	0	0	0
2009	11	1	1	0	0	0	0	0	0	0
2009	11	2	2	0	0	0	0	0	0	0
2009	11	3.1	3.1	0	0	0	0	0	0	0
2009	11	3.15	3.15	0	0	0	0	0	0	0
2009	11	3.2	3.2	0	0	0	0	0	0	0
2009	11	3.25	3.25	0	0	0	0	0	0	0
2009	11	4	4	0	0	0	0	0	0	0
2009	12	1	1	0	0	0	0	0	0	0
2009	12	2	2	0	0	0	0	0	0	0
2009	12	3.1	3.1	0	0	0	0	0	0	0
2009	12	3.15	3.15	0	0	0	0	0	0	0
2009	12	3.2	3.2	0	0	0	0	0	0	0
2009	12	3.25	3.25	0	0	0	0	0	0	0
2009	12	4	4	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2010	1	1	1	0	0	0	0	0	0	0
2010	1	2	2	0	0	0	0	0	0	0
2010	1	3.1	3.1	0	0	0	0	0	0	0
2010	1	3.15	3.15	0	0	0	0	0	0	0
2010	1	3.2	3.2	0	0	0	0	0	0	0
2010	1	3.25	3.25	0	0	0	0	0	0	0
2010	1	4	4	0	0	0	0	0	0	1
2010	2	1	1	0	0	0	0	0	0	0
2010	2	2	2	0	0	0	0	0	0	0
2010	2	3.1	3.1	0	0	0	0	0	0	0
2010	2	3.15	3.15	0	0	0	0	0	0	0
2010	2	3.2	3.2	0	0	0	0	0	0	0
2010	2	3.25	3.25	0	0	0	0	0	0	0
2010	2	4	4	0	0	0	0	0	0	1
2010	3	1	1	0	0	0	0	0	0	0
2010	3	2	2	0	0	0	0	0	0	0
2010	3	3.1	3.1	0	0	0	0	0	0	0
2010	3	3.15	3.15	0	0	0	0	0	0	0
2010	3	3.2	3.2	0	0	0	0	0	0	0
2010	3	3.25	3.25	0	0	0	0	0	0	0
2010	3	4	4	0	0	0	0	0	0	1
2010	4	1	1	0	0	0	0	0	0	0
2010	4	2	2	0	0	0	0	0	0	0
2010	4	3.1	3.1	0	0	0	0	0	0	0
2010	4	3.15	3.15	0	0	0	0	0	0	0
2010	4	3.2	3.2	0	0	0	0	0	0	0
2010	4	3.25	3.25	0	0	0	0	0	0	0
2010	4	4	4	0	0	0	0	0	0	1
2010	5	1	1	0	0	0	0	0	0	0
2010	5	2	2	0	0	0	0	0	0	0
2010	5	3.1	3.1	0	0	0	0	0	0	0
2010	5	3.15	3.15	0	0	0	0	0	0	0
2010	5	3.2	3.2	0	0	0	0	0	0	0
2010	5	3.25	3.25	0	0	0	0	0	0	0
2010	5	4	4	0	0	0	0	0	0	1
2010	6	1	1	0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2010	6	2		0	0	0	0	0	0	0
2010	6	3.1		0	0	0	0	0	0	0
2010	6	3.15		0	0	0	0	0	0	0
2010	6	3.2		0	0	0	0	0	0	0
2010	6	3.25		0	0	0	0	0	0	0
2010	6	4		0	0	0	0	0	0	1
2010	7	1		0	0	0	0	0	0	0
2010	7	2		0	0	0	0	0	0	0
2010	7	3.1		0	0	0	0	0	0	0
2010	7	3.15		0	0	0	0	0	0	0
2010	7	3.2		0	0	0	0	0	0	0
2010	7	3.25		0	0	0	0	0	0	0
2010	7	4		0	0	0	0	0	0	1
2010	8	1		0	0	0	0	0	0	0
2010	8	2		0	0	0	0	0	0	0
2010	8	3.1		0	0	0	0	0	0	0
2010	8	3.15		0	0	0	0	0	0	0
2010	8	3.2		0	0	0	0	0	0	0
2010	8	3.25		0	0	0	0	0	0	0
2010	8	4		0	0	0	0	0	0	1
2010	9	1		0	0	0	0	0	0	0
2010	9	2		0	0	0	0	0	0	0
2010	9	3.1		0	0	0	0	0	0	0
2010	9	3.15		0	0	0	0	0	0	0
2010	9	3.2		0	0	0	0	0	0	0
2010	9	3.25		0	0	0	0	0	0	0
2010	9	4		0	0	0	0	0	0	1
2010	10	1		0	0	0	0	0	0	0
2010	10	2		0	0	0	0	0	0	0
2010	10	3.1		0	0	0	0	0	0	0
2010	10	3.15		0	0	0	0	0	0	0
2010	10	3.2		0	0	0	0	0	0	0
2010	10	3.25		0	0	0	0	0	0	0
2010	10	4		0	0	0	0	0	0	1
2010	11	1		0	0	0	0	0	0	0
2010	11	2		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2010	11	3.1		0	0	0	0	0	0	0
2010	11	3.15		0	0	0	0	0	0	0
2010	11	3.2		0	0	0	0	0	0	0
2010	11	3.25		0	0	0	0	0	0	0
2010	11	4		0	0	0	0	0	0	1
2010	12	1		0	0	0	0	0	0	0
2010	12	2		0	0	0	0	0	0	0
2010	12	3.1		0	0	0	0	0	0	0
2010	12	3.15		0	0	0	0	0	0	0
2010	12	3.2		0	0	0	0	0	0	0
2010	12	3.25		0	0	0	0	0	0	0
2010	12	4		0	0	0	0	0	0	1
2011	1	1		0	0	0	0	0	0	0
2011	1	2		0	0	0	0	0	0	0
2011	1	3.1		0	0	0	0	0	0	0
2011	1	3.15		0	0	0	0	0	0	0
2011	1	3.2		0	0	0	0	0	0	0
2011	1	3.25		0	0	0	0	0	0	0
2011	1	4		0	0	0	0	0	0	1
2011	2	1		0	0	0	0	0	0	0
2011	2	2		0	0	0	0	0	0	0
2011	2	3.1		0	0	0	0	0	0	0
2011	2	3.15		0	0	0	0	0	0	0
2011	2	3.2		0	0	0	0	0	0	0
2011	2	3.25		0	0	0	0	0	0	0
2011	2	4		0	0	0	0	0	0	1
2011	3	1		0	0	0	0	0	0	0
2011	3	2		0	0	0	0	0	0	0
2011	3	3.1		0	0	0	0	0	0	0
2011	3	3.15		0	0	0	0	0	0	0
2011	3	3.2		0	0	0	0	0	0	0
2011	3	3.25		0	0	0	0	0	0	0
2011	3	4		0	0	0	0	0	0	1
2011	4	1		0	0	0	0	0	0	0
2011	4	2		0	0	0	0	0	0	0
2011	4	3.1		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2011	4	3.15		0	0	0	0	0	0	0
2011	4	3.2		0	0	0	0	0	0	0
2011	4	3.25		0	0	0	0	0	0	0
2011	4	4		0	0	0	0	0	0	1
2011	5	1		0	0	0	0	0	0	0
2011	5	2		0	0	0	0	0	0	0
2011	5	3.1		0	0	0	0	0	0	0
2011	5	3.15		0	0	0	0	0	0	0
2011	5	3.2		0	0	0	0	0	0	0
2011	5	3.25		0	0	0	0	0	0	0
2011	5	4		0	0	0	0	0	0	1
2011	6	1		0	0	0	0	0	0	0
2011	6	2		0	0	0	0	0	0	0
2011	6	3.1		0	0	0	0	0	0	0
2011	6	3.15		0	0	0	0	0	0	0
2011	6	3.2		0	0	0	0	0	0	0
2011	6	3.25		0	0	0	0	0	0	0
2011	6	4		0	0	0	0	0	0	1
2011	7	1		0	0	0	0	0	0	0
2011	7	2		0	0	0	0	0	0	0
2011	7	3.1		0	0	0	0	0	0	0
2011	7	3.15		0	0	0	0	0	0	0
2011	7	3.2		0	0	0	0	0	0	0
2011	7	3.25		0	0	0	0	0	0	0
2011	7	4		0	0	0	0	0	0	1
2011	8	1		0	0	0	0	0	0	0
2011	8	2		0	0	0	0	0	0	0
2011	8	3.1		0	0	0	0	0	0	0
2011	8	3.15		0	0	0	0	0	0	0
2011	8	3.2		0	0	0	0	0	0	0
2011	8	3.25		0	0	0	0	0	0	0
2011	8	4		0	0	0	0	0	0	1
2011	9	1		0	0	0	0	0	0	0
2011	9	2		0	0	0	0	0	0	0
2011	9	3.1		0	0	0	0	0	0	0
2011	9	3.15		0	0	0	0	0	0	0

Customer_Model_Input

YEAR	MONTH	REVCLS	ind3	ind4	or1	or2	or3	or4	or5	or6
2011	9	3.2		0	0	0	0	0	0	0
2011	9	3.25		0	0	0	0	0	0	0
2011	9	4		0	0	0	0	0	0	1
2011	10	1		0	0	0	0	0	0	0
2011	10	2		0	0	0	0	0	0	0
2011	10	3.1		0	0	0	0	0	0	0
2011	10	3.15		0	0	0	0	0	0	0
2011	10	3.2		0	0	0	0	0	0	0
2011	10	3.25		0	0	0	0	0	0	0
2011	10	4		0	0	0	0	0	0	1
2011	11	1		0	0	0	0	0	0	0
2011	11	2		0	0	0	0	0	0	0
2011	11	3.1		0	0	0	0	0	0	0
2011	11	3.15		0	0	0	0	0	0	0
2011	11	3.2		0	0	0	0	0	0	0
2011	11	3.25		0	0	0	0	0	0	0
2011	11	4		0	0	0	0	0	0	1
2011	12	1		0	0	0	0	0	0	0
2011	12	2		0	0	0	0	0	0	0
2011	12	3.1		0	0	0	0	0	0	0
2011	12	3.15		0	0	0	0	0	0	0
2011	12	3.2		0	0	0	0	0	0	0
2011	12	3.25		0	0	0	0	0	0	0
2011	12	4		0	0	0	0	0	0	1

Kentucky Power Company
 Residential Customers

The ARIMA Procedure

Maximum Likelihood Estimation

Parameter	Estimate	Standard Error	t Value	Approx Pr > t	Lag	Variable	Shift
MU	186.68950	351.08973	0.53	0.5949	0	CUST	0
AR1,1	0.58125	0.07105	8.18	<.0001	1	CUST	0
AR1,2	0.40711	0.07169	5.68	<.0001	3	CUST	0
AR2,1	-0.23694	0.09326	-2.54	0.0111	6	CUST	0
AR2,2	-0.19572	0.09028	-2.17	0.0302	8	CUST	0
AR2,3	-0.31834	0.09450	-3.37	0.0008	12	CUST	0
NUM1	375.24134	47.90246	7.83	<.0001	0	res1	0
NUM2	305.09638	48.10261	6.34	<.0001	0	res2	0

Constant Estimate	3.805657
Variance Estimate	16017.28
Std Error Estimate	126.5594
AIC	1489.45
SBC	1511.615
Number of Residuals	118

Kentucky Power Company
 Residential Customers

The ARIMA Procedure

Correlations of Parameter Estimates

Variable Parameter		CUST MU	CUST AR1,1	CUST AR1,2	CUST AR2,1	CUST AR2,2	CUST AR2,3	res1 NUM1	res2 NUM2
CUST	MU	1.000	-0.015	-0.140	0.078	0.033	0.073	-0.002	0.013
CUST	AR1,1	-0.015	1.000	-0.957	0.073	-0.009	-0.129	0.025	0.037
CUST	AR1,2	-0.140	-0.957	1.000	-0.106	-0.007	0.097	-0.023	-0.043
CUST	AR2,1	0.078	0.073	-0.106	1.000	-0.097	0.213	0.051	0.023
CUST	AR2,2	0.033	-0.009	-0.007	-0.097	1.000	-0.020	0.015	0.125
CUST	AR2,3	0.073	-0.129	0.097	0.213	-0.020	1.000	-0.073	-0.010
res1	NUM1	-0.002	0.025	-0.023	0.051	0.015	-0.073	1.000	0.314
res2	NUM2	0.013	0.037	-0.043	0.023	0.125	-0.010	0.314	1.000

Autocorrelation Check of Residuals

To Lag	Chi- Square	DF	Pr > ChiSq	-----Autocorrelations-----					
6	0.31	1	0.5766	0.019	0.012	-0.021	-0.035	-0.019	-0.003
12	7.48	7	0.3806	-0.026	0.010	-0.053	-0.023	0.214	-0.064
18	10.09	13	0.6862	0.001	-0.053	0.057	0.104	0.034	0.029
24	20.10	19	0.3888	0.154	0.009	-0.002	0.044	0.019	-0.204

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1																	Std Error
0	16017.283	1.00000	*****																	0
1	303.337	0.01894	. .																	0.092057
2	198.691	0.01240	. .																	0.092090
3	-335.788	-.02096	. .																	0.092105
4	-558.653	-.03488	. * .																	0.092145
5	-296.630	-.01852	. .																	0.092257

Kentucky Power Company
 Residential Customers

The ARIMA Procedure

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error
6	-54.145273	-.00338									.		.											0.092288
7	-423.425	-.02644									.		*		.									0.092289
8	165.404	0.01033									.		.											0.092354
9	-845.396	-.05278									.		*		.									0.092363
10	-362.418	-.02263									.		.											0.092619
11	3435.580	0.21449									.		****											0.092665
12	-1026.342	-.06408									.		*		.									0.096782
13	13.934220	0.00087									.		.											0.097140
14	-848.794	-.05299									.		*		.									0.097140
15	912.006	0.05694									.		*		.									0.097385
16	1670.392	0.10429									.		**		.									0.097667
17	536.648	0.03350									.		*		.									0.098606
18	462.528	0.02888									.		*		.									0.098702
19	2460.419	0.15361									.		***		.									0.098774
20	136.780	0.00854									.		.											0.100778
21	-26.227939	-.00164									.		.											0.100784
22	698.595	0.04362									.		*		.									0.100785
23	310.927	0.01941									.		.											0.100944
24	-3270.301	-.20417									.		****		.									0.100976

".*" marks two standard errors

Kentucky Power Company
 Residential Customers

The ARIMA Procedure

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
1	-0.05575									.	*		.									
2	-0.00564									.		.										
3	0.04135									.		*		.								
4	0.06060									.		*		.								
5	0.00009									.		.		.								
6	-0.01425									.		.		.								
7	0.00076									.		.		.								
8	0.00233									.		.		.								
9	0.02367									.		.		.								
10	0.03031									.		.		*		.						
11	-0.21044									****		.										
12	0.10827									.		**		.								
13	-0.08663									.		**		.								
14	0.04011									.		.		*		.						
15	-0.05430									.		*		.								
16	-0.09882									.		**		.								
17	-0.00565									.		.		.								
18	-0.02375									.		.		.								
19	-0.13193									.		***		.								
20	-0.01691									.		.		.								
21	0.01302									.		.		.								
22	-0.00870									.		.		.								
23	-0.06844									.		*		.								
24	0.18533									.		****		.								

Kentucky Power Company
 Residential Customers

The ARIMA Procedure

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
1	0.01894									.		.										
2	0.01205									.		.										
3	-0.02144									.		.										
4	-0.03426									.		*		.								
5	-0.01674									.		.										
6	-0.00231									.		.										
7	-0.02739									.		*		.								
8	0.00946									.		.										
9	-0.05397									.		*		.								
10	-0.02271									.		.										
11	0.21642									.		.		****								
12	-0.07870									.		**		.								
13	-0.00689									.		.										
14	-0.04659									.		*		.								
15	0.07497									.		.		*								
16	0.10902									.		.		**								
17	0.02067									.		.										
18	0.03136									.		.		*								
19	0.15720									.		.		***								
20	0.03993									.		.		*								
21	0.00241									.		.										
22	0.00752									.		.										
23	0.06840									.		.		*								
24	-0.21581									.		.		****		.						

Model for variable CUST

Estimated Intercept 186.6895
 Period(s) of Differencing 12

Kentucky Power Company
 Residential Customers

The ARIMA Procedure

Autoregressive Factors

Factor 1: 1 - 0.58125 B**(1) - 0.40711 B**(3)
 Factor 2: 1 + 0.23694 B**(6) + 0.19572 B**(8) + 0.31834 B**(12)

Input Number 1

Input Variable res1
 Period(s) of Differencing 12
 Overall Regression Factor 375.2413

Input Number 2

Input Variable res2
 Period(s) of Differencing 12
 Overall Regression Factor 305.0964

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence	Limits
131	144024.4	126.56	143776.4	144272.5
132	144277.7	146.39	143990.8	144564.6
133	144480.0	152.50	144181.1	144778.9
134	144469.9	170.56	144135.6	144804.2
135	144141.6	186.06	143776.9	144506.2
136	143821.1	195.68	143437.6	144204.7
137	143603.4	199.03	143213.3	143993.5
138	143530.5	205.56	143127.6	143933.4
139	143572.8	207.70	143165.7	143979.9
140	143694.3	210.17	143282.3	144106.2
141	143778.0	213.86	143358.8	144197.1
142	143753.8	216.73	143329.0	144178.6

Kentucky Power Company
Residential Customers

The ARIMA Procedure

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence	Limits
143	143890.6	251.13	143398.4	144382.8
144	144167.3	266.72	143644.5	144690.0
145	144413.4	277.97	143868.6	144958.2
146	144345.6	294.45	143768.4	144922.7
147	144014.8	310.30	143406.7	144623.0
148	143677.4	322.74	143044.8	144310.0
149	143461.5	332.17	142810.4	144112.5
150	143392.0	343.00	142719.7	144064.3
151	143440.0	350.61	142752.8	144127.2
152	143549.2	358.38	142846.8	144251.6
153	143609.2	366.04	142891.8	144326.7
154	143620.9	373.23	142889.4	144352.4
155	143762.5	410.73	142957.5	144567.5
156	144037.8	430.81	143193.4	144882.1
157	144271.8	443.92	143401.7	145141.8
158	144228.0	463.14	143320.3	145135.8
159	143906.1	481.45	142962.5	144849.7
160	143571.4	496.19	142598.9	144543.9

Kentucky Power Company
 Commercial Customers

The ARIMA Procedure

Maximum Likelihood Estimation

Parameter	Estimate	Standard Error	t Value	Approx Pr > t	Lag	Variable	Shift
MU	41.99123	4.14681	10.13	<.0001	0	CUST	0
MA1,1	0.38007	0.08460	4.49	<.0001	1	CUST	0
AR1,1	-0.22028	0.08397	-2.62	0.0087	6	CUST	0
AR2,1	0.35542	0.08874	4.01	<.0001	24	CUST	0
NUM1	-783.94417	59.84803	-13.10	<.0001	0	com1	0
NUM2	517.08788	48.98808	10.56	<.0001	0	com3	0
NUM3	814.18656	54.93362	14.82	<.0001	0	com4	0

Constant Estimate	33.02861
Variance Estimate	4199.764
Std Error Estimate	64.80559
AIC	1452.815
SBC	1472.834
Number of Residuals	129

Correlations of Parameter Estimates

Variable Parameter		CUST MU	CUST MA1,1	CUST AR1,1	CUST AR2,1	com1 NUM1	com3 NUM2	com4 NUM3
CUST MU		1.000	0.020	-0.005	-0.097	-0.125	-0.006	-0.090
CUST MA1,1		0.020	1.000	-0.027	-0.081	-0.073	0.032	-0.047
CUST AR1,1		-0.005	-0.027	1.000	-0.004	0.044	-0.036	0.107
CUST AR2,1		-0.097	-0.081	-0.004	1.000	0.065	0.052	0.013
com1 NUM1		-0.125	-0.073	0.044	0.065	1.000	-0.000	0.019
com3 NUM2		-0.006	0.032	-0.036	0.052	-0.000	1.000	0.009
com4 NUM3		-0.090	-0.047	0.107	0.013	0.019	0.009	1.000

Kentucky Power Company
 Commercial Customers

The ARIMA Procedure

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	-----Autocorrelations-----					
6	4.10	3	0.2504	0.011	-0.006	0.170	-0.041	0.006	-0.003
12	7.71	9	0.5633	0.107	-0.103	-0.037	-0.010	-0.014	0.047
18	15.29	15	0.4304	0.033	-0.053	-0.021	-0.028	-0.204	0.059
24	19.90	21	0.5278	-0.045	-0.131	-0.052	-0.053	-0.034	-0.060

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error	
0	4199.764	1.00000																						0	
1	45.282069	0.01078																							0.088045
2	-23.458467	-0.00559																							0.088055
3	712.063	0.16955																							0.088058
4	-171.087	-0.04074																							0.090553
5	24.441696	0.00582																							0.090695
6	-10.601199	-0.00252																							0.090698
7	449.515	0.10703																							0.090699
8	-431.015	-0.10263																							0.091673
9	-155.136	-0.03694																							0.092559
10	-43.983138	-0.01047																							0.092673
11	-59.486208	-0.01416																							0.092682
12	195.873	0.04664																							0.092699
13	139.975	0.03333																							0.092881
14	-223.174	-0.05314																							0.092974
15	-89.941985	-0.02142																							0.093209
16	-118.442	-0.02820																							0.093247
17	-856.818	-0.20402																							0.093313
18	249.405	0.05939																							0.096709
19	-188.139	-0.04480																							0.096991
20	-550.069	-0.13098																							0.097151

Kentucky Power Company
 Commercial Customers

The ARIMA Procedure

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error
21	-219.825	-.05234										.	*		.									0.098511
22	-221.219	-.05267										.	*		.									0.098726
23	-142.830	-.03401										.	*		.									0.098944
24	-252.835	-.06020										.	*		.									0.099034

"," marks two standard errors

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	-0.06733										.	*		.									
2	0.06298										.	*		.									
3	-0.17673										****		.										
4	0.10857										.	*		**	.								
5	-0.04461										.	*		.									
6	0.06685										.	*		*	.								
7	-0.12229										.	**		.									
8	0.11378										.	*		**	.								
9	0.04088										.	*		.									
10	0.01791										.			.									
11	-0.00572										.			.									
12	-0.03959										.	*		.									
13	-0.02300										.			.									
14	-0.00088										.			.									
15	0.03999										.	*		.									
16	0.01605										.			.									
17	0.15543										.	*		***	.								
18	-0.07322										.	*		.									
19	0.04219										.	*		.									
20	0.05083										.	*		.									

Kentucky Power Company
 Commercial Customers

The ARIMA Procedure

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
21	0.06023									.		*	.									
22	0.02165									.		.										
23	0.01721									.		.										
24	0.01236									.		.										

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
1	0.01078									.		.										
2	-0.00570									.		.										
3	0.16970									.		***.										
4	-0.04594									.		*	.									
5	0.00970									.		.										
6	-0.03330									.		*	.									
7	0.12668									.		***.										
8	-0.11836									.		**	.									
9	-0.02183									.		.										
10	-0.05766									.		*	.									
11	0.04261									.		*	.									
12	0.04083									.		*	.									
13	0.05064									.		*	.									
14	-0.08650									.		**	.									
15	-0.00400									.		.										
16	-0.04868									.		*	.									
17	-0.18548									.		****	.									
18	0.06232									.		*	.									
19	-0.05537									.		*	.									
20	-0.06656									.		*	.									
21	-0.07396									.		*	.									
22	-0.02511									.		*	.									

Kentucky Power Company
 Commercial Customers

The ARIMA Procedure

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
23	-0.02052									.		.										
24	-0.01406									.		.										

Model for variable CUST

Estimated Intercept 41.99123
 Period(s) of Differencing 1

Autoregressive Factors

Factor 1: 1 + 0.22028 B**(6)
 Factor 2: 1 - 0.35542 B**(24)

Moving Average Factors

Factor 1: 1 - 0.38007 B**(1)

Input Number 1

Input Variable com1
 Period(s) of Differencing 1
 Overall Regression Factor -783.944

Input Number 2

Input Variable com3
 Period(s) of Differencing 1

Kentucky Power Company
 Commercial Customers

The ARIMA Procedure

Input Number 2

Overall Regression Factor 517.0879

Input Number 3

Input Variable com4
 Period(s) of Differencing 1
 Overall Regression Factor 814.1866

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits	
131	29484.2290	64.8056	29357.2124	29611.2456
132	29489.3397	76.2482	29339.8959	29638.7835
133	29550.2215	86.1848	29381.3023	29719.1406
134	29562.1762	95.0886	29375.8059	29748.5465
135	29594.1013	103.2273	29391.7794	29796.4231
136	29631.4161	110.7696	29414.3116	29848.5205
137	29701.9396	113.7573	29478.9795	29924.8997
138	29766.0433	117.9915	29534.7842	29997.3024
139	29814.5746	122.0790	29575.3042	30053.8451
140	29874.2242	126.0340	29627.2021	30121.2462
141	29920.7256	129.8686	29666.1879	30175.2633
142	29960.3669	133.5931	29698.5292	30222.2046
143	29992.6108	137.9685	29722.1976	30263.0240
144	30015.3539	141.9243	29737.1874	30293.5204
145	30058.9381	145.7728	29773.2286	30344.6476
146	30081.0542	149.5223	29787.9959	30374.1126
147	30114.7062	153.1801	29814.4787	30414.9336
148	30159.8994	156.7525	29852.6702	30467.1287
149	30202.9579	160.1029	29889.1620	30516.7539
150	30233.8687	163.4373	29913.5374	30554.2000

Kentucky Power Company
Commercial Customers

The ARIMA Procedure

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits	
151	30276.9507	166.7051	29950.2148	30603.6866
152	30320.3611	169.9100	29987.3437	30653.3785
153	30380.2419	173.0555	30041.0593	30719.4245
154	30408.1398	176.1449	30062.9021	30753.3775
155	30436.0773	184.8420	30073.7938	30798.3609
156	30464.9747	190.7779	30091.0570	30838.8925
157	30513.6710	196.5346	30128.4703	30898.8718
158	30544.9878	202.1274	30148.8254	30941.1503
159	30583.3759	207.5696	30176.5470	30990.2048
160	30623.7568	212.8727	30206.5340	31040.9796

Kentucky Power Company
 Industrial Customers

The ARIMA Procedure

Maximum Likelihood Estimation

Parameter	Estimate	Standard Error	t Value	Approx Pr > t	Lag	Variable	Shift
MU	1058.1	3.38193	312.87	<.0001	0	CUST	0
AR1,1	0.28545	0.08493	3.36	0.0008	2	CUST	0
AR1,2	0.23962	0.08649	2.77	0.0056	3	CUST	0
NUM1	-92.74782	4.04920	-22.91	<.0001	0	ind1	0
NUM2	-43.06269	8.53359	-5.05	<.0001	0	ind2	0
NUM3	51.86983	8.25133	6.29	<.0001	0	ind3	0
NUM4	-25.13263	3.17998	-7.90	<.0001	0	ind4	0

Constant Estimate	502.5297
Variance Estimate	77.32863
Std Error Estimate	8.79367
AIC	941.3575
SBC	961.4303
Number of Residuals	130

Correlations of Parameter Estimates

Variable Parameter		CUST MU	CUST AR1,1	CUST AR1,2	ind1 NUM1	ind2 NUM2	ind3 NUM3	ind4 NUM4
CUST MU		1.000	-0.124	-0.112	-0.753	-0.228	-0.012	-0.118
CUST AR1,1		-0.124	1.000	-0.196	0.071	0.079	0.001	0.107
CUST AR1,2		-0.112	-0.196	1.000	0.042	-0.003	0.038	0.163
ind1 NUM1		-0.753	0.071	0.042	1.000	0.253	-0.034	-0.403
ind2 NUM2		-0.228	0.079	-0.003	0.253	1.000	-0.006	-0.063
ind3 NUM3		-0.012	0.001	0.038	-0.034	-0.006	1.000	0.055
ind4 NUM4		-0.118	0.107	0.163	-0.403	-0.063	0.055	1.000

Kentucky Power Company
 Industrial Customers

The ARIMA Procedure

Autocorrelation Check of Residuals

To Lag	Chi- Square	DF	Pr > ChiSq	-----Autocorrelations-----					
6	2.74	4	0.6024	0.119	0.022	0.015	-0.024	-0.029	-0.063
12	5.00	10	0.8910	0.006	-0.011	-0.053	-0.028	-0.090	-0.063
18	7.16	16	0.9700	0.016	0.026	0.007	0.039	0.081	0.071
24	11.29	22	0.9704	-0.013	0.040	0.118	0.044	-0.088	-0.029

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error	
0	77.328635	1.00000																						0	
1	9.238512	0.11947																							0.087706
2	1.663368	0.02151																							0.088949
3	1.123476	0.01453																							0.088989
4	-1.861761	-0.02408																							0.089007
5	-2.253595	-0.02914																							0.089057
6	-4.892888	-0.06327																							0.089131
7	0.481383	0.00623																							0.089475
8	-0.823946	-0.01066																							0.089479
9	-4.121958	-0.05330																							0.089488
10	-2.142843	-0.02771																							0.089732
11	-6.939021	-0.08973																							0.089798
12	-4.833414	-0.06250																							0.090485
13	1.237805	0.01601																							0.090817
14	2.048652	0.02649																							0.090839
15	0.554458	0.00717																							0.090898
16	3.035678	0.03926																							0.090902
17	6.283744	0.08126																							0.091033
18	5.503494	0.07117																							0.091589
19	-1.022910	-0.01323																							0.092013
20	3.059555	0.03957																							0.092028

Kentucky Power Company
 Industrial Customers

The ARIMA Procedure

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error
21	9.103071	0.11772										.		**	.									0.092159
22	3.389686	0.04383										.		*	.									0.093308
23	-6.781027	-.08769										.		**	.									0.093466
24	-2.204303	-.02851										.		*	.									0.094097

"," marks two standard errors

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	-0.09074										.		**		.								
2	-0.02754										.		*		.								
3	-0.00583										.				.								
4	0.04410										.			*		.							
5	0.00925										.				.								
6	0.04203										.			*		.							
7	-0.02789										.			*		.							
8	0.00466										.				.								
9	0.02408										.				.								
10	-0.02230										.				.								
11	0.06913										.			*		.							
12	0.04445										.			*		.							
13	-0.02687										.			*		.							
14	-0.01253										.				.								
15	0.00927										.				.								
16	-0.02978										.			*		.							
17	-0.04617										.			*		.							
18	-0.05107										.			*		.							
19	0.04121										.			*		.							
20	-0.01299										.				.								

Kentucky Power Company
 Industrial Customers

The ARIMA Procedure

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
21	-0.09928										. **		.									
22	-0.04302										. *		.									
23	0.09380										.		**	.								
24	0.00411										.		.									

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
1	0.11947										.		**	.								
2	0.00734										.		.									
3	0.01126										.		.									
4	-0.02767										.		*	.								
5	-0.02374										.		.									
6	-0.05742										.		*	.								
7	0.02214										.		.									
8	-0.01252										.		.									
9	-0.05136										.		*	.								
10	-0.01956										.		.									
11	-0.08668										.		**	.								
12	-0.04503										.		*	.								
13	0.03036										.		*	.								
14	0.02050										.		.									
15	-0.00882										.		.									
16	0.03138										.		*	.								
17	0.06236										.		*	.								
18	0.05168										.		*	.								
19	-0.02721										.		*	.								
20	0.03690										.		*	.								
21	0.10896										.		**	.								
22	0.02461										.		.									

Kentucky Power Company
 Industrial Customers

The ARIMA Procedure

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
23	-0.10014									. **			.									
24	-0.00434									.			.									

Model for variable CUST

Estimated Intercept 1058.116

Autoregressive Factors

Factor 1: 1 - 0.28545 B**(2) - 0.23962 B**(3)

Input Number 1

Input Variable ind1
 Overall Regression Factor -92.7478

Input Number 2

Input Variable ind2
 Overall Regression Factor -43.0627

Input Number 3

Input Variable ind3
 Overall Regression Factor 51.86983

Kentucky Power Company
 Industrial Customers

The ARIMA Procedure

Input Number 4

Input Variable ind4
 Overall Regression Factor -25.1326

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence	Limits
131	968.1278	8.7937	950.8925	985.3631
132	967.4125	8.7937	950.1772	984.6477
133	967.7449	9.1449	949.8212	985.6686
134	966.6128	9.3845	948.2195	985.0062
135	966.5363	9.4119	948.0894	984.9832
136	966.2928	9.4884	947.6959	984.8898
137	965.9997	9.5149	947.3508	984.6486
138	965.9119	9.5288	947.2357	984.5881
139	965.7699	9.5415	947.0689	984.4708
140	965.6746	9.5467	946.9633	984.3858
141	965.6130	9.5504	946.8946	984.3313
142	965.5517	9.5526	946.8289	984.2746
143	965.5113	9.5538	946.7861	984.2365
144	965.4791	9.5546	946.7524	984.2058
145	965.4529	9.5551	946.7253	984.1805
146	965.4340	9.5553	946.7059	984.1621
147	965.4188	9.5555	946.6903	984.1472
148	965.4071	9.5556	946.6785	984.1357
149	965.3982	9.5557	946.6695	984.1270
150	965.3913	9.5557	946.6625	984.1201
151	965.3859	9.5557	946.6571	984.1148
152	965.3818	9.5557	946.6530	984.1107
153	965.3786	9.5557	946.6497	984.1075
154	965.3762	9.5557	946.6473	984.1051
155	965.3743	9.5557	946.6454	984.1032
156	965.3728	9.5557	946.6439	984.1017

Kentucky Power Company
Industrial Customers

The ARIMA Procedure

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence	Limits
157	965.3717	9.5557	946.6428	984.1006
158	965.3708	9.5557	946.6419	984.0997
159	965.3701	9.5557	946.6412	984.0990
160	965.3696	9.5557	946.6407	984.0985

Kentucky Power Company
 Industrial-Small Mining Customers

The ARIMA Procedure

Maximum Likelihood Estimation

Parameter	Estimate	Standard Error	t Value	Approx Pr > t	Lag
MU	-1.14745	0.34946	-3.28	0.0010	0
MA1,1	0.63154	0.07316	8.63	<.0001	1

Constant Estimate	-1.14745
Variance Estimate	102.5517
Std Error Estimate	10.12678
AIC	876.2761
SBC	881.8005
Number of Residuals	117

Correlations of Parameter Estimates

Parameter	MU	MA1,1
MU	1.000	-0.017
MA1,1	-0.017	1.000

Kentucky Power Company
Industrial-Small Mining Customers

The ARIMA Procedure

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	-----Autocorrelations-----					
6	2.70	5	0.7456	-0.010	0.030	-0.013	0.049	0.031	-0.131
12	10.02	11	0.5282	-0.045	-0.098	0.156	0.122	0.035	-0.068
18	14.37	17	0.6406	0.084	-0.019	-0.114	-0.099	-0.032	0.025
24	18.66	23	0.7208	0.046	-0.030	0.098	0.080	-0.096	-0.029

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error
0	102.552	1.00000													*****									0
1	-1.049289	-0.01023													.									0.092450
2	3.085133	0.03008													.	*								0.092460
3	-1.319449	-0.01287													.									0.092543
4	5.012517	0.04888													.	*								0.092559
5	3.212241	0.03132													.	*								0.092779
6	-13.408866	-0.13075													.	***								0.092869
7	-4.642683	-0.04527													.	*								0.094430
8	-10.045163	-0.09795													.	**								0.094615
9	15.969374	0.15572													.	***								0.095478
10	12.550784	0.12238													.	**								0.097624
11	3.545918	0.03458													.	*								0.098927
12	-6.924893	-0.06753													.	*								0.099030
13	8.623430	0.08409													.	**								0.099423
14	-1.908678	-0.01861													.									0.100029
15	-11.670169	-0.11380													.	**								0.100059
16	-10.174575	-0.09921													.	**								0.101159
17	-3.244830	-0.03164													.	*								0.101987
18	2.584804	0.02520													.	*								0.102071
19	4.732715	0.04615													.	*								0.102124
20	-3.076723	-0.03000													.	*								0.102302

Kentucky Power Company
 Industrial-Small Mining Customers

The ARIMA Procedure

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error
21	10.093903	0.09843										.		**	.									0.102377
22	8.249089	0.08044										.		**	.									0.103183
23	-9.874523	-.09629										.		**	.									0.103718
24	-3.012718	-.02938										.		*	.									0.104479

"." marks two standard errors

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	0.03222										.		*	.									
2	-0.09844										.		**	.									
3	-0.04382										.		*	.									
4	-0.08016										.		**	.									
5	-0.08045										.		**	.									
6	0.08465										.		**	.									
7	0.04612										.		*	.									
8	0.18586										.		****	.									
9	-0.07377										.		*	.									
10	-0.16637										.		****	.									
11	-0.02382										.			.									
12	0.08372										.		**	.									
13	-0.11770										.		**	.									
14	0.01567										.			.									
15	0.10365										.		**	.									
16	0.06784										.		*	.									
17	0.02804										.		*	.									
18	-0.03279										.		*	.									
19	-0.04900										.		*	.									
20	0.04560										.		*	.									

Kentucky Power Company
 Industrial-Small Mining Customers

The ARIMA Procedure

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
21	-0.10377										. **		.									
22	-0.03594										. *		.									
23	0.13828										.		***.									
24	0.02507										.		*	.								

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
1	-0.01023										.		.									
2	0.02998										.		*	.								
3	-0.01227										.		.									
4	0.04779										.		*	.								
5	0.03309										.		*	.								
6	-0.13371										.		***	.								
7	-0.04922										.		*	.								
8	-0.09421										.		**	.								
9	0.15467										.		***.	.								
10	0.15088										.		***.	.								
11	0.04450										.		*	.								
12	-0.08704										.		**	.								
13	0.05333										.		*	.								
14	-0.06848										.		*	.								
15	-0.10874										.		**	.								
16	-0.05928										.		*	.								
17	0.02879										.		*	.								
18	0.02801										.		*	.								
19	0.05151										.		*	.								
20	-0.06762										.		*	.								
21	0.10016										.		**	.								
22	0.04766										.		*	.								

Kentucky Power Company
 Industrial-Small Mining Customers

The ARIMA Procedure

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
23	-0.16187										.***		.									
24	-0.02961										.	*		.								

Model for variable CUST

Estimated Mean -1.14745
 Period(s) of Differencing 1

Moving Average Factors

Factor 1: 1 - 0.63154 B**(1)

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence Limits	
119	462.3010	10.1268	442.4528	482.1491
120	461.1535	10.7923	440.0010	482.3061
121	460.0061	11.4191	437.6250	482.3872
122	458.8586	12.0133	435.3130	482.4043
123	457.7112	12.5794	433.0560	482.3664
124	456.5637	13.1211	430.8468	482.2807
125	455.4163	13.6414	428.6797	482.1529
126	454.2688	14.1425	426.5501	481.9876
127	453.1214	14.6264	424.4541	481.7887
128	451.9740	15.0949	422.3886	481.5593
129	450.8265	15.5492	420.3506	481.3024
130	449.6791	15.9906	418.3380	481.0201
131	448.5316	16.4202	416.3486	480.7146

Kentucky Power Company
Industrial-Small Mining Customers

The ARIMA Procedure

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence	Limits
132	447.3842	16.8388	414.3807	480.3876
133	446.2367	17.2473	412.4327	480.0407
134	445.0893	17.6463	410.5032	479.6753
135	443.9418	18.0364	408.5911	479.2926
136	442.7944	18.4183	406.6951	478.8937
137	441.6469	18.7925	404.8143	478.4796
138	440.4995	19.1593	402.9479	478.0511
139	439.3520	19.5193	401.0949	477.6092
140	438.2046	19.8727	399.2547	477.1545
141	437.0572	20.2200	397.4267	476.6876
142	435.9097	20.5614	395.6101	476.2093
143	434.7623	20.8972	393.8045	475.7200
144	433.6148	21.2277	392.0092	475.2204
145	432.4674	21.5532	390.2239	474.7108
146	431.3199	21.8738	388.4481	474.1917
147	430.1725	22.1897	386.6814	473.6635
148	429.0250	22.5013	384.9234	473.1267

Kentucky Power Company
 Other Retail Customers

The ARIMA Procedure

Maximum Likelihood Estimation

Parameter	Estimate	Standard Error	t Value	Approx Pr > t	Lag	Variable	Shift
MU	379.17784	1.35490	279.86	<.0001	0	CUST	0
AR1,1	0.39030	0.08264	4.72	<.0001	1	CUST	0
AR1,2	0.24523	0.08299	2.95	0.0031	3	CUST	0
NUM1	219.94203	3.86641	56.89	<.0001	0	or1	0
NUM2	93.63569	2.31542	40.44	<.0001	0	or2	0
NUM3	151.37355	2.07749	72.86	<.0001	0	or3	0
NUM4	64.53362	1.67351	38.56	<.0001	0	or4	0
NUM5	58.74299	3.12547	18.79	<.0001	0	or5	0

Constant Estimate	138.198
Variance Estimate	11.78395
Std Error Estimate	3.432776
AIC	697.7907
SBC	720.731
Number of Residuals	130

Kentucky Power Company
 Other Retail Customers

The ARIMA Procedure

Correlations of Parameter Estimates

Variable Parameter		CUST MU	CUST AR1,1	CUST AR1,2	or1 NUM1	or2 NUM2	or3 NUM3	or4 NUM4	or5 NUM5
CUST	MU	1.000	0.027	0.049	-0.348	-0.584	-0.642	-0.725	-0.000
CUST	AR1,1	0.027	1.000	-0.317	-0.005	-0.109	-0.004	-0.017	0.068
CUST	AR1,2	0.049	-0.317	1.000	-0.064	-0.143	-0.011	-0.054	0.024
or1	NUM1	-0.348	-0.005	-0.064	1.000	0.449	0.305	0.281	-0.004
or2	NUM2	-0.584	-0.109	-0.143	0.449	1.000	0.586	0.499	-0.018
or3	NUM3	-0.642	-0.004	-0.011	0.305	0.586	1.000	0.508	-0.000
or4	NUM4	-0.725	-0.017	-0.054	0.281	0.499	0.508	1.000	-0.028
or5	NUM5	-0.000	0.068	0.024	-0.004	-0.018	-0.000	-0.028	1.000

Autocorrelation Check of Residuals

To Lag	Chi- Square	DF	Pr > ChiSq	-----Autocorrelations-----					
6	1.54	4	0.8202	-0.017	0.073	0.033	0.036	0.032	-0.048
12	10.03	10	0.4377	-0.008	-0.064	-0.102	0.069	-0.141	-0.141
18	13.45	16	0.6395	-0.076	-0.021	-0.082	-0.078	-0.061	-0.016
24	17.11	22	0.7575	0.030	0.031	-0.097	0.088	-0.043	-0.046

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1																	Std Error
0	11.783951	1.00000	*****																	0
1	-0.202486	-0.01718	. .																	0.087706
2	0.858852	0.07288	. * .																	0.087732
3	0.390194	0.03311	. * .																	0.088196
4	0.430063	0.03650	. * .																	0.088292
5	0.378569	0.03213	. * .																	0.088408

Kentucky Power Company
 Other Retail Customers

The ARIMA Procedure

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error
6	-0.561216	-.04763										. *		.										0.088498
7	-0.091114	-.00773										.		.										0.088694
8	-0.756419	-.06419										.		*		.								0.088700
9	-1.199334	-.10178										.		**		.								0.089056
10	0.813274	0.06902										.		*		.								0.089947
11	-1.663605	-.14118										.		***		.								0.090353
12	-1.659414	-.14082										.		***		.								0.092034
13	-0.900592	-.07643										.		**		.								0.093677
14	-0.245611	-.02084										.		.		.								0.094155
15	-0.960433	-.08150										.		**		.								0.094191
16	-0.915457	-.07769										.		**		.								0.094732
17	-0.714379	-.06062										.		*		.								0.095221
18	-0.190341	-.01615										.		.		.								0.095517
19	0.356874	0.03028										.		*		.								0.095538
20	0.370662	0.03145										.		*		.								0.095612
21	-1.146865	-.09732										.		**		.								0.095691
22	1.035188	0.08785										.		**		.								0.096450
23	-0.504755	-.04283										.		*		.								0.097063
24	-0.545747	-.04631										.		*		.								0.097209

".*" marks two standard errors

Kentucky Power Company
 Other Retail Customers

The ARIMA Procedure

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	0.07409										.		*	.									
2	-0.03123									.		*	.										
3	0.10150									.		.		**	.								
4	0.04292									.		.		*	.								
5	0.03102									.		.		*	.								
6	0.11477									.		.		**	.								
7	0.03175									.		.		*	.								
8	0.11827									.		.		**	.								
9	0.15787									.		.		***	.								
10	-0.06104									.		.		*	.								
11	0.11624									.		.		**	.								
12	0.22930									.		.		*****	.								
13	0.05698									.		.		*	.								
14	0.00109																
15	0.11778									.		.		**	.								
16	0.06726									.		.		*	.								
17	0.08121									.		.		**	.								
18	0.03767									.		.		*	.								
19	-0.04246									.		.		*	.								
20	0.02555									.		.		*	.								
21	0.10179									.		.		**	.								
22	-0.06412									.		.		*	.								
23	0.07894									.		.		**	.								
24	0.11998									.		.		**	.								

Kentucky Power Company
 Other Retail Customers

The ARIMA Procedure

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
1	-0.01718									.		.										
2	0.07261									.		*	.									
3	0.03572									.		*	.									
4	0.03261									.		*	.									
5	0.02864									.		*	.									
6	-0.05303									.		*	.									
7	-0.01659									.		.	.									
8	-0.06154									.		*	.									
9	-0.10290									.		**	.									
10	0.07861									.		**	.									
11	-0.11922									.		**	.									
12	-0.15159									.		***	.									
13	-0.06225									.		*	.									
14	-0.00489									.		.	.									
15	-0.07707									.		**	.									
16	-0.06417									.		*	.									
17	-0.07251									.		*	.									
18	-0.02593									.		*	.									
19	0.03363									.		*	.									
20	-0.00822									.		.	.									
21	-0.13142									.		***	.									
22	0.06788									.		*	.									
23	-0.08118									.		**	.									
24	-0.14082									.		***	.									

Model for variable CUST

Estimated Intercept 379.1778

Kentucky Power Company
Other Retail Customers

The ARIMA Procedure

Autoregressive Factors

Factor 1: $1 - 0.3903 B^{(1)} - 0.24523 B^{(3)}$

Input Number 1

Input Variable	or1
Overall Regression Factor	219.942

Input Number 2

Input Variable	or2
Overall Regression Factor	93.63569

Input Number 3

Input Variable	or3
Overall Regression Factor	151.3736

Input Number 4

Input Variable	or4
Overall Regression Factor	64.53362

Input Number 5

Input Variable	or5
Overall Regression Factor	58.74299

Kentucky Power Company
Other Retail Customers

The ARIMA Procedure

Forecasts for variable CUST

Obs	Forecast	Std Error	95% Confidence	Limits
131	379.3100	3.4328	372.5819	386.0382
132	378.4501	3.6850	371.2277	385.6726
133	378.8502	3.7219	371.5554	386.1450
134	379.0824	3.8661	371.5050	386.6597
135	378.9621	3.9356	371.2484	386.6759
136	379.0133	3.9576	371.2566	386.7700
137	379.0902	3.9797	371.2902	386.8902
138	379.0907	3.9945	371.2617	386.9198
139	379.1035	4.0015	371.2607	386.9463
140	379.1273	4.0062	371.2753	386.9794
141	379.1368	4.0094	371.2784	386.9951
142	379.1436	4.0113	371.2817	387.0055
143	379.1521	4.0124	371.2880	387.0162
144	379.1577	4.0131	371.2922	387.0232
145	379.1616	4.0135	371.2952	387.0280
146	379.1652	4.0138	371.2982	387.0321
147	379.1680	4.0140	371.3007	387.0352
148	379.1700	4.0141	371.3025	387.0375
149	379.1717	4.0141	371.3041	387.0393
150	379.1730	4.0142	371.3053	387.0407
151	379.1740	4.0142	371.3063	387.0417
152	379.1748	4.0142	371.3071	387.0426
153	379.1755	4.0142	371.3077	387.0432
154	379.1760	4.0142	371.3082	387.0438
155	379.1764	4.0142	371.3086	387.0442
156	379.1767	4.0142	371.3089	387.0445
157	379.1769	4.0143	371.3091	387.0447
158	379.1771	4.0143	371.3093	387.0449
159	379.1773	4.0143	371.3095	387.0451
160	379.1774	4.0143	371.3096	387.0452

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
1998	1	1	142740			KPC
1998	1	2	24122			KPC
1998	1	3.1	1068	1039.387	1076.845	KPC
1998	1	3.15	557			KPC
1998	1	3.2				KPC
1998	1	3.25				KPC
1998	1	4	601	591.2521	606.9877	KPC
1998	2	1	142471			KPC
1998	2	2	24003	24014.83	24313.15	KPC
1998	2	3.1	1079	1040.517	1077.772	KPC
1998	2	3.15	583			KPC
1998	2	3.2				KPC
1998	2	3.25				KPC
1998	2	4	475	466.7065	480.6591	KPC
1998	3	1	142614			KPC
1998	3	2	23841	23957.76	24239.15	KPC
1998	3	3.1	1027	1044.872	1080.377	KPC
1998	3	3.15	588			KPC
1998	3	3.2				KPC
1998	3	3.25				KPC
1998	3	4	480	466.9729	480.853	KPC
1998	4	1	142771			KPC
1998	4	2	24158	23839.48	24118.7	KPC
1998	4	3.1	1094	1049.21	1083.681	KPC
1998	4	3.15	651			KPC
1998	4	3.2				KPC
1998	4	3.25				KPC
1998	4	4	477	469.3514	482.8076	KPC
1998	5	1	142280			KPC
1998	5	2	24055	23992.71	24271.62	KPC
1998	5	3.1	1049	1037.003	1071.473	KPC
1998	5	3.15	578			KPC
1998	5	3.2				KPC
1998	5	3.25				KPC
1998	5	4	478	468.2556	481.7118	KPC
1998	6	1	142257			KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
1998	6	2	24137	23986.88	24265.74	KPC
1998	6	3.1	1064	1043.667	1078.138	KPC
1998	6	3.15	573			KPC
1998	6	3.2				KPC
1998	6	3.25				KPC
1998	6	4	478	469.872	483.3283	KPC
1998	7	1	142397			KPC
1998	7	2	24307	24018.4	24296.41	KPC
1998	7	3.1	1071	1046.877	1081.348	KPC
1998	7	3.15	605			KPC
1998	7	3.2				KPC
1998	7	3.25				KPC
1998	7	4	475	469.1363	482.5926	KPC
1998	8	1	142602			KPC
1998	8	2	24303	24194.37	24467.02	KPC
1998	8	3.1	1059	1040.376	1074.846	KPC
1998	8	3.15	598			KPC
1998	8	3.2				KPC
1998	8	3.25				KPC
1998	8	4	473	468.2107	481.6669	KPC
1998	9	1	142455			KPC
1998	9	2	24368	24265.17	24537.07	KPC
1998	9	3.1	1055	1045.968	1080.439	KPC
1998	9	3.15	561			KPC
1998	9	3.2				KPC
1998	9	3.25				KPC
1998	9	4	467	467.4301	480.8863	KPC
1998	10	1	142643			KPC
1998	10	2	24315	24225.1	24496.9	KPC
1998	10	3.1	1060	1044.22	1078.691	KPC
1998	10	3.15	591			KPC
1998	10	3.2				KPC
1998	10	3.25				KPC
1998	10	4	523	522.0904	535.5467	KPC
1998	11	1	142896			KPC
1998	11	2	24496	24271.04	24542.82	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
1998	11	3.1	1080	1040.203	1074.673	KPC
1998	11	3.15	723			KPC
1998	11	3.2				KPC
1998	11	3.25				KPC
1998	11	4	536	520.9217	534.3779	KPC
1998	12	1	143048			KPC
1998	12	2	24450	24359.29	24631.07	KPC
1998	12	3.1	1070	1040.672	1075.142	KPC
1998	12	3.15	589			KPC
1998	12	3.2				KPC
1998	12	3.25				KPC
1998	12	4	525	524.5242	537.9804	KPC
1999	1	1	143197	142178.6	143674.8	KPC
1999	1	2	24422	24345.96	24617.73	KPC
1999	1	3.1	1056	1047.579	1082.049	KPC
1999	1	3.15	605			KPC
1999	1	3.2	5			KPC
1999	1	3.25	2			KPC
1999	1	4	525	519.8047	533.261	KPC
1999	2	1	143168	142599.7	143209.4	KPC
1999	2	2	24467	24358.35	24630.09	KPC
1999	2	3.1	1056	1049.517	1083.987	KPC
1999	2	3.15	596	580.3776	627.3275	KPC
1999	2	3.2	5			KPC
1999	2	3.25	2			KPC
1999	2	4	526	522.9927	536.449	KPC
1999	3	1	143337	142922.4	143512.6	KPC
1999	3	2	24536	24375.05	24646.79	KPC
1999	3	3.1	1056	1043.124	1077.595	KPC
1999	3	3.15	595	577.4515	619.3441	KPC
1999	3	3.2	5			KPC
1999	3	3.25	2			KPC
1999	3	4	526	520.6855	534.1417	KPC
1999	4	1	143195	143098.4	143643.7	KPC
1999	4	2	24622	24458.02	24729.76	KPC
1999	4	3.1	1052	1039.77	1074.24	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
1999	4	3.15	589	575.531	616.0275	KPC
1999	4	3.2	5			KPC
1999	4	3.25	2			KPC
1999	4	4	527	520.6855	534.1417	KPC
1999	5	1	142917	142519.9	143065	KPC
1999	5	2	24638	24484.45	24756.19	KPC
1999	5	3.1	1048	1039.77	1074.24	KPC
1999	5	3.15	584	571.964	611.9688	KPC
1999	5	3.2	5			KPC
1999	5	3.25	2			KPC
1999	5	4	527	521.321	534.7773	KPC
1999	6	1	142951	142652.6	143194.9	KPC
1999	6	2	24696	24557.43	24829.17	KPC
1999	6	3.1	1052	1038.628	1073.098	KPC
1999	6	3.15	578	567.8975	607.7152	KPC
1999	6	3.2	5			KPC
1999	6	3.25	2			KPC
1999	6	4	529	521.321	534.7773	KPC
1999	7	1	142955	142706.6	143248.2	KPC
1999	7	2	24793	24612.56	24884.19	KPC
1999	7	3.1	1056	1036.527	1070.998	KPC
1999	7	3.15	571	563.1357	602.8802	KPC
1999	7	3.2	5			KPC
1999	7	3.25	2			KPC
1999	7	4	532	522.3469	535.8031	KPC
1999	8	1	143050	142866.6	143405.8	KPC
1999	8	2	24858	24693.91	24964.99	KPC
1999	8	3.1	1056	1036.711	1071.181	KPC
1999	8	3.15	566	557.56	597.2754	KPC
1999	8	3.2	4			KPC
1999	8	3.25	2			KPC
1999	8	4	530	523.5178	536.974	KPC
1999	9	1	143099	142734.4	143272.1	KPC
1999	9	2	24884	24762.93	25033.93	KPC
1999	9	3.1	1055	1038.811	1073.282	KPC
1999	9	3.15	597	552.2044	591.9083	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
1999	9	3.2	5			KPC
1999	9	3.25	2			KPC
1999	9	4	531	523.2276	536.6838	KPC
1999	10	1	143243	142977.4	143502.4	KPC
1999	10	2	25160	24765.85	25036.84	KPC
1999	10	3.1	1057	1039.77	1074.24	KPC
1999	10	3.15	573	560.256	599.9553	KPC
1999	10	3.2	5			KPC
1999	10	3.25	2			KPC
1999	10	4	532	524.3536	537.8098	KPC
1999	11	1	143398	143108.9	143630.3	KPC
1999	11	2	25140	24984.69	25255.67	KPC
1999	11	3.1	1054	1039.484	1073.955	KPC
1999	11	3.15	577	556.4907	596.1881	KPC
1999	11	3.2	5			KPC
1999	11	3.25	2			KPC
1999	11	4	531	524.2534	537.7097	KPC
1999	12	1	143574	143370	143890.9	KPC
1999	12	2	25165	25032.48	25303.46	KPC
1999	12	3.1	1050	1039.815	1074.286	KPC
1999	12	3.15	573	555.587	595.2837	KPC
1999	12	3.2	5			KPC
1999	12	3.25	2			KPC
1999	12	4	531	524.1084	537.5646	KPC
2000	1	1	143869	143502.9	144019.2	KPC
2000	1	2	25331	25079.55	25348.24	KPC
2000	1	3.1	1016	996.3756	1030.846	KPC
2000	1	3.15	571	553.5424	593.2387	KPC
2000	1	3.2	5			KPC
2000	1	3.25	2			KPC
2000	1	4	533	524.3536	537.8098	KPC
2000	2	1	143934	143484.9	143986.7	KPC
2000	2	2	25282	25145.4	25402.06	KPC
2000	2	3.1	973	944.8298	979.3003	KPC
2000	2	3.15	558	551.5142	591.2104	KPC
2000	2	3.2	5			KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2000	2	3.25	2			KPC
2000	2	4	530	524.889	538.3452	KPC
2000	3	1	143862	143706.3	144206.6	KPC
2000	3	2	25311	25127.04	25382.12	KPC
2000	3	3.1	966	946.4582	980.9288	KPC
2000	3	3.15	561	545.4433	585.1395	KPC
2000	3	3.2	5			KPC
2000	3	3.25	2			KPC
2000	3	4	530	523.7181	537.1743	KPC
2000	4	1	143461	143614.4	144110.5	KPC
2000	4	2	25327	25252.43	25507.28	KPC
2000	4	3.1	975	950.5381	985.0086	KPC
2000	4	3.15	556	542.7146	582.4109	KPC
2000	4	3.2	5			KPC
2000	4	3.25	2			KPC
2000	4	4	532	524.2085	537.6648	KPC
2000	5	1	143434	143092.3	143588.4	KPC
2000	5	2	25431	25224.33	25479.15	KPC
2000	5	3.1	968	950.1419	984.6124	KPC
2000	5	3.15	549	539.1491	578.8453	KPC
2000	5	3.2	5			KPC
2000	5	3.25	2			KPC
2000	5	4	531	524.2534	537.7097	KPC
2000	6	1	143303	143218.5	143714.7	KPC
2000	6	2	25460	25332.36	25587.18	KPC
2000	6	3.1	958	951.0335	985.5041	KPC
2000	6	3.15	543	534.3181	574.0143	KPC
2000	6	3.2	5			KPC
2000	6	3.25	2			KPC
2000	6	4	534	523.8631	537.3194	KPC
2000	7	1	143298	143006.2	143502.3	KPC
2000	7	2	25553	25399.48	25654.2	KPC
2000	7	3.1	963	951.192	985.6626	KPC
2000	7	3.15	546	529.0564	568.7526	KPC
2000	7	3.2	5			KPC
2000	7	3.25	2			KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2000	7	4	534	525.5245	538.9807	KPC
2000	8	1	143438	143223.7	143719.8	KPC
2000	8	2	25605	25449.13	25703.26	KPC
2000	8	3.1	967	946.6602	981.1307	KPC
2000	8	3.15	579	526.8387	566.535	KPC
2000	8	3.2	5			KPC
2000	8	3.25	2			KPC
2000	8	4	532	525.2793	538.7355	KPC
2000	9	1	143541	143199.4	143695.5	KPC
2000	9	2	25597	25504.1	25758.14	KPC
2000	9	3.1	968	945.6912	980.1617	KPC
2000	9	3.15	517	537.5973	577.2936	KPC
2000	9	3.2	5			KPC
2000	9	3.25	2			KPC
2000	9	4	536	525.2344	538.6906	KPC
2000	10	1	143672	143436.4	143932.5	KPC
2000	10	2	25596	25518.43	25772.47	KPC
2000	10	3.1	967	948.0311	982.5016	KPC
2000	10	3.15	549	521.5474	561.2437	KPC
2000	10	3.2	5			KPC
2000	10	3.25	2			KPC
2000	10	4	532	526.7956	540.2518	KPC
2000	11	1	143791	143584.7	144080.8	KPC
2000	11	2	25750	25554.17	25808.2	KPC
2000	11	3.1	967	949.275	983.7456	KPC
2000	11	3.15	525	523.2019	562.8981	KPC
2000	11	3.2	5			KPC
2000	11	3.25	2			KPC
2000	11	4	532	524.7439	538.2001	KPC
2000	12	1	144226	143846.7	144342.8	KPC
2000	12	2	25765	25613.54	25867.57	KPC
2000	12	3.1	965	949.2292	983.6997	KPC
2000	12	3.15	523	515.4038	555.1	KPC
2000	12	3.2	4			KPC
2000	12	3.25	2			KPC
2000	12	4	471	467.987	481.4432	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2001	1	1	144223	144122.5	144618.6	KPC
2001	1	2	25718	25644.59	25898.63	KPC
2001	1	3.1	968	948.9896	983.4601	KPC
2001	1	3.15	538	509.742	549.4383	KPC
2001	1	3.2	4			KPC
2001	1	3.25	2			KPC
2001	1	4	471	465.7328	479.1891	KPC
2001	2	1	144273	144038	144534.1	KPC
2001	2	2	25785	25648.61	25902.65	KPC
2001	2	3.1	970	948.4187	982.8892	KPC
2001	2	3.15	526	511.6933	551.3895	KPC
2001	2	3.2	5			KPC
2001	2	3.25	2			KPC
2001	2	4	446	436.6308	450.087	KPC
2001	3	1	144119	144099.8	144595.9	KPC
2001	3	2	25748	25718.83	25972.86	KPC
2001	3	3.1	966	948.7958	983.2663	KPC
2001	3	3.15	525	508.504	548.2003	KPC
2001	3	3.2	5			KPC
2001	3	3.25	2			KPC
2001	3	4	446	437.4318	450.8881	KPC
2001	4	1	143978	143606.4	144102.5	KPC
2001	4	2	25819	25717.84	25971.87	KPC
2001	4	3.1	969	950.0855	984.5561	KPC
2001	4	3.15	525	506.1215	545.8177	KPC
2001	4	3.2	5			KPC
2001	4	3.25	2			KPC
2001	4	4	445	437.4318	450.8881	KPC
2001	5	1	143932	143601.3	144097.4	KPC
2001	5	2	25876	25720.77	25974.81	KPC
2001	5	3.1	970	949.423	983.8935	KPC
2001	5	3.15	560	504.6168	544.313	KPC
2001	5	3.2	5			KPC
2001	5	3.25	2			KPC
2001	5	4	446	438.0475	451.5037	KPC
2001	6	1	143849	143440.4	143936.5	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2001	6	2	25911	25785	26039.03	KPC
2001	6	3.1	971	949.3208	983.7914	KPC
2001	6	3.15	558	516.5625	556.2588	KPC
2001	6	3.2	5			KPC
2001	6	3.25	2			KPC
2001	6	4	445	438.4378	451.894	KPC
2001	7	1	143853	143622.1	144118.2	KPC
2001	7	2	25942	25860.04	26114.07	KPC
2001	7	3.1	974	950.3252	984.7957	KPC
2001	7	3.15	540	523.3699	563.0661	KPC
2001	7	3.2	5			KPC
2001	7	3.25	2			KPC
2001	7	4	446	437.8022	451.2585	KPC
2001	8	1	143911	143684.7	144180.8	KPC
2001	8	2	25971	25877	26131.04	KPC
2001	8	3.1	974	950.8502	985.3208	KPC
2001	8	3.15	540	521.0367	560.733	KPC
2001	8	3.2	5			KPC
2001	8	3.25	3			KPC
2001	8	4	445	438.4378	451.894	KPC
2001	9	1	144012	143858.4	144354.5	KPC
2001	9	2	26078	25912.35	26166.39	KPC
2001	9	3.1	971	951.9462	986.4168	KPC
2001	9	3.15	540	519.5632	559.2595	KPC
2001	9	3.2	5			KPC
2001	9	3.25	3			KPC
2001	9	4	444	437.8022	451.2585	KPC
2001	10	1	144138	143869.4	144365.5	KPC
2001	10	2	26151	26058.52	26312.55	KPC
2001	10	3.1	969	952.6651	987.1356	KPC
2001	10	3.15	546	518.6327	558.3289	KPC
2001	10	3.2	5			KPC
2001	10	3.25	3			KPC
2001	10	4	444	437.6572	451.1134	KPC
2001	11	1	144214	144040.9	144537	KPC
2001	11	2	26236	26051.73	26305.76	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2001	11	3.1	968	951.8087	986.2793	KPC
2001	11	3.15	548	520.2558	559.952	KPC
2001	11	3.2	5			KPC
2001	11	3.25	3			KPC
2001	11	4	444	437.4119	450.8682	KPC
2001	12	1	144447	144262.1	144758.2	KPC
2001	12	2	26356	26125.97	26380	KPC
2001	12	3.1	964	950.519	984.9895	KPC
2001	12	3.15	538	522.0177	561.7139	KPC
2001	12	3.2	5			KPC
2001	12	3.25	3			KPC
2001	12	4	443	437.1667	450.623	KPC
2002	1	1	144776	144342.4	144838.5	KPC
2002	1	2	26454	26282.63	26536.66	KPC
2002	1	3.1	940	949.7543	984.2248	KPC
2002	1	3.15	540	519.4459	559.1421	KPC
2002	1	3.2	5			KPC
2002	1	3.25	3			KPC
2002	1	4	441	436.7764	450.2327	KPC
2002	2	1	144635	144513.6	145009.7	KPC
2002	2	2	26430	26324.44	26578.47	KPC
2002	2	3.1	959	948.3728	982.8434	KPC
2002	2	3.15	542	518.5586	558.2548	KPC
2002	2	3.2	5			KPC
2002	2	3.25	3			KPC
2002	2	4	438	435.9958	449.452	KPC
2002	3	1	144570	144241.4	144737.5	KPC
2002	3	2	26967	26850.03	27104.06	KPC
2002	3	3.1	964	940.5636	975.0342	KPC
2002	3	3.15	548	518.7351	558.4313	KPC
2002	3	3.2	5			KPC
2002	3	3.25	3			KPC
2002	3	4	439	434.5797	448.0359	KPC
2002	4	1	144471	144168.1	144664.2	KPC
2002	4	2	26499	26370.96	26624.99	KPC
2002	4	3.1	956	940.2362	974.7067	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2002	4	3.15	536	521.0573	560.7536	KPC
2002	4	3.2	5			KPC
2002	4	3.25	3			KPC
2002	4	4	439	434.4795	447.9358	KPC
2002	5	1	144097	144117.5	144613.6	KPC
2002	5	2	26568	26421.3	26675.33	KPC
2002	5	3.1	1017	998.0861	1032.557	KPC
2002	5	3.15	540	518.1024	557.7987	KPC
2002	5	3.2	5			KPC
2002	5	3.25	3			KPC
2002	5	4	439	433.7438	447.2001	KPC
2002	6	1	144170	143893.8	144389.9	KPC
2002	6	2	26594	26452.36	26706.39	KPC
2002	6	3.1	962	945.1308	979.6013	KPC
2002	6	3.15	530	517.7101	557.4064	KPC
2002	6	3.2	5			KPC
2002	6	3.25	3			KPC
2002	6	4	439	433.9891	447.4453	KPC
2002	7	1	144163	143939.7	144435.8	KPC
2002	7	2	26774	26518.92	26772.95	KPC
2002	7	3.1	960	945.82	980.2905	KPC
2002	7	3.15	533	513.7778	553.474	KPC
2002	7	3.2	5			KPC
2002	7	3.25	3			KPC
2002	7	4	439	433.9891	447.4453	KPC
2002	8	1	144235	144004.4	144500.5	KPC
2002	8	2	26798	26651.27	26905.3	KPC
2002	8	3.1	975	947.1143	981.5848	KPC
2002	8	3.15	531	512.3997	552.096	KPC
2002	8	3.2	5			KPC
2002	8	3.25	3			KPC
2002	8	4	438	433.9891	447.4453	KPC
2002	9	1	144234	144013.5	144509.6	KPC
2002	9	2	26840	26691.56	26945.59	KPC
2002	9	3.1	949	920.6607	955.1312	KPC
2002	9	3.15	520	510.7925	550.4887	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2002	9	3.2	5			KPC
2002	9	3.25	3			KPC
2002	9	4	500	492.3417	505.798	KPC
2002	10	1	144277	144184.1	144680.2	KPC
2002	10	2	26773	26727.95	26981.99	KPC
2002	10	3.1	946	924.4632	958.9337	KPC
2002	10	3.15	514	505.7244	545.4207	KPC
2002	10	3.2	5			KPC
2002	10	3.25	3			KPC
2002	10	4	440	434.87	448.3262	KPC
2002	11	1	144470	144229.6	144725.7	KPC
2002	11	2	26847	26757.85	27011.88	KPC
2002	11	3.1	949	927.8099	962.2805	KPC
2002	11	3.15	539	500.313	540.0092	KPC
2002	11	3.2	5			KPC
2002	11	3.25	3			KPC
2002	11	4	440	434.1341	447.5904	KPC
2002	12	1	144696	144499.9	144996	KPC
2002	12	2	26903	26769.28	27023.31	KPC
2002	12	3.1	944	926.7457	961.2163	KPC
2002	12	3.15	523	506.1069	545.8031	KPC
2002	12	3.2	6			KPC
2002	12	3.25	3			KPC
2002	12	4	448	434.9328	448.3891	KPC
2003	1	1	144903	144729.3	145225.4	KPC
2003	1	2	26893	26757.39	27011.42	KPC
2003	1	3.1	942	926.8832	961.3538	KPC
2003	1	3.15	519	503.8706	543.5669	KPC
2003	1	3.2	6			KPC
2003	1	3.25	3			KPC
2003	1	4	451	437.747	451.2032	KPC
2003	2	1	144848	144584.4	145080.5	KPC
2003	2	2	26858	26818.34	27072.38	KPC
2003	2	3.1	941	926.1748	960.6454	KPC
2003	2	3.15	516	500.9845	540.6808	KPC
2003	2	3.2	7			KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2003	2	3.25	3			KPC
2003	2	4	454	438.9179	452.3741	KPC
2003	3	1	144700	144541.1	145037.2	KPC
2003	3	2	26904	26774.19	27028.22	KPC
2003	3	3.1	935	924.4058	958.8764	KPC
2003	3	3.15	549	498.0564	537.7527	KPC
2003	3	3.2	7			KPC
2003	3	3.25	3			KPC
2003	3	4	455	442.0507	455.5069	KPC
2003	4	1	144415	144364.7	144860.8	KPC
2003	4	2	26912	26848.86	27102.9	KPC
2003	4	3.1	968	923.6411	958.1117	KPC
2003	4	3.15	525	508.3664	548.0626	KPC
2003	4	3.2	7			KPC
2003	4	3.25	3			KPC
2003	4	4	447	443.1767	456.6329	KPC
2003	5	1	144250	144001.3	144497.4	KPC
2003	5	2	26961	26858.31	27112.34	KPC
2003	5	3.1	933	921.6888	956.1594	KPC
2003	5	3.15	516	506.0345	545.7308	KPC
2003	5	3.2	7			KPC
2003	5	3.25	3			KPC
2003	5	4	447	440.7899	454.2462	KPC
2003	6	1	144177	144074.8	144570.9	KPC
2003	6	2	27000	26877.54	27131.57	KPC
2003	6	3.1	929	929.6709	964.1414	KPC
2003	6	3.15	518	501.2457	540.942	KPC
2003	6	3.2	7			KPC
2003	6	3.25	3			KPC
2003	6	4	446	441.0352	454.4914	KPC
2003	7	1	144130	143933.8	144429.9	KPC
2003	7	2	27038	26917.28	27171.32	KPC
2003	7	3.1	931	927.5877	962.0583	KPC
2003	7	3.15	509	498.9583	538.6546	KPC
2003	7	3.2	7			KPC
2003	7	3.25	3			KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2003	7	4	446	438.683	452.1392	KPC
2003	8	1	144290	143999.3	144495.4	KPC
2003	8	2	27940	27783.86	28037.89	KPC
2003	8	3.1	924	918.0592	952.5297	KPC
2003	8	3.15	517	494.1976	533.8939	KPC
2003	8	3.2	7			KPC
2003	8	3.25	3			KPC
2003	8	4	447	438.683	452.1392	KPC
2003	9	1	144411	144092.6	144588.7	KPC
2003	9	2	27992	27859.94	28113.98	KPC
2003	9	3.1	920	917.6716	952.1421	KPC
2003	9	3.15	512	494.1387	533.8349	KPC
2003	9	3.2	7			KPC
2003	9	3.25	3			KPC
2003	9	4	445	438.8281	452.2843	KPC
2003	10	1	144406	144195.8	144691.9	KPC
2003	10	2	28029	27925.84	28179.87	KPC
2003	10	3.1	916	916.1527	950.6232	KPC
2003	10	3.15	502	492.2592	531.9554	KPC
2003	10	3.2	7			KPC
2003	10	3.25	3			KPC
2003	10	4	445	438.0475	451.5037	KPC
2003	11	1	144466	144304.6	144800.7	KPC
2003	11	2	28046	27967.96	28221.99	KPC
2003	11	3.1	922	913.3335	947.8041	KPC
2003	11	3.15	515	487.3876	527.0839	KPC
2003	11	3.2	7			KPC
2003	11	3.25	3			KPC
2003	11	4	445	438.2927	451.7489	KPC
2003	12	1	144850	144586.2	145082.3	KPC
2003	12	2	28110	28007.43	28261.46	KPC
2003	12	3.1	943	911.2332	945.7038	KPC
2003	12	3.15	533	489.101	528.7972	KPC
2003	12	3.2	7			KPC
2003	12	3.25	3			KPC
2003	12	4	444	437.8022	451.2585	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2004	1	1	145096	144808.5	145304.6	KPC
2004	1	2	28131	28054.19	28308.22	KPC
2004	1	3.1	938	911.9874	946.458	KPC
2004	1	3.15	530	496.8153	536.5115	KPC
2004	1	3.2	8			KPC
2004	1	3.25	3			KPC
2004	1	4	443	437.4119	450.8682	KPC
2004	2	1	144846	144726.8	145222.9	KPC
2004	2	2	28104	28030.49	28284.52	KPC
2004	2	3.1	938	919.4196	953.8901	KPC
2004	2	3.15	528	500.5818	540.2781	KPC
2004	2	3.2	8			KPC
2004	2	3.25	3			KPC
2004	2	4	442	437.0216	450.4779	KPC
2004	3	1	144789	144516.7	145012.8	KPC
2004	3	2	28127	28034.35	28288.38	KPC
2004	3	3.1	937	923.0244	957.495	KPC
2004	3	3.15	523	502.2236	541.9199	KPC
2004	3	3.2	8			KPC
2004	3	3.25	3			KPC
2004	3	4	441	436.3861	449.8423	KPC
2004	4	1	144670	144347.7	144843.8	KPC
2004	4	2	28166	28061.09	28315.12	KPC
2004	4	3.1	938	921.8263	956.2969	KPC
2004	4	3.15	523	501.4182	541.1144	KPC
2004	4	3.2	8			KPC
2004	4	3.25	3			KPC
2004	4	4	439	435.7506	449.2068	KPC
2004	5	1	144359	144117.9	144614	KPC
2004	5	2	28189	28107.85	28361.88	KPC
2004	5	3.1	942	921.5409	956.0114	KPC
2004	5	3.15	528	500.9095	540.6058	KPC
2004	5	3.2	8			KPC
2004	5	3.25	3			KPC
2004	5	4	439	434.7247	448.181	KPC
2004	6	1	144117	144047.6	144543.7	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2004	6	2	28233	28116.98	28371.01	KPC
2004	6	3.1	934	921.5867	956.0572	KPC
2004	6	3.15	518	502.4306	542.1268	KPC
2004	6	3.2	8			KPC
2004	6	3.25	3			KPC
2004	6	4	439	434.4795	447.9358	KPC
2004	7	1	144037	143967	144463.1	KPC
2004	7	2	28321	28210.22	28464.25	KPC
2004	7	3.1	935	922.9681	957.4386	KPC
2004	7	3.15	517	499.7066	539.4029	KPC
2004	7	3.2	8			KPC
2004	7	3.25	3			KPC
2004	7	4	442	433.9891	447.4453	KPC
2004	8	1	144066	144042.5	144538.6	KPC
2004	8	2	28361	28245.78	28499.81	KPC
2004	8	3.1	933	921.643	956.1136	KPC
2004	8	3.15	517	497.6179	537.3141	KPC
2004	8	3.2	8			KPC
2004	8	3.25	3			KPC
2004	8	4	444	435.16	448.6162	KPC
2004	9	1	144081	143950.4	144446.5	KPC
2004	9	2	28421	28282.92	28536.95	KPC
2004	9	3.1	932	920.0115	954.482	KPC
2004	9	3.15	516	496.2987	535.995	KPC
2004	9	3.2	8			KPC
2004	9	3.25	3			KPC
2004	9	4	444	435.9406	449.3968	KPC
2004	10	1	144159	143912	144408.1	KPC
2004	10	2	28472	28294.24	28548.28	KPC
2004	10	3.1	933	919.6802	954.1507	KPC
2004	10	3.15	512	495.0972	534.7934	KPC
2004	10	3.2	8			KPC
2004	10	3.25	3			KPC
2004	10	4	444	436.6763	450.1325	KPC
2004	11	1	144360	144023	144519.1	KPC
2004	11	2	28442	28385.36	28639.4	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2004	11	3.1	923	918.9155	953.386	KPC
2004	11	3.15	520	492.8645	532.5607	KPC
2004	11	3.2	8			KPC
2004	11	3.25	3			KPC
2004	11	4	444	437.1667	450.623	KPC
2004	12	1	144623	144396.4	144892.5	KPC
2004	12	2	28496	28387.01	28641.04	KPC
2004	12	3.1	928	918.9613	953.4319	KPC
2004	12	3.15	515	494.4022	534.0984	KPC
2004	12	3.2	8			KPC
2004	12	3.25	3			KPC
2004	12	4	442	437.1667	450.623	KPC
2005	1	1	144900	144648.9	145145	KPC
2005	1	2	28555	28400.02	28654.05	KPC
2005	1	3.1	932	916.3465	950.817	KPC
2005	1	3.15	518	493.5309	533.2272	KPC
2005	1	3.2	8			KPC
2005	1	3.25	3			KPC
2005	1	4	445	436.3861	449.8423	KPC
2005	2	1	144415	144187.3	144683.4	KPC
2005	2	2	28492	28431.01	28685.04	KPC
2005	2	3.1	928	915.3775	949.848	KPC
2005	2	3.15	515	494.0861	533.7824	KPC
2005	2	3.2	8			KPC
2005	2	3.25	3			KPC
2005	2	4	441	437.557	451.0133	KPC
2005	3	1	145259	144859.7	145355.8	KPC
2005	3	2	28726	28429.53	28683.56	KPC
2005	3	3.1	941	917.7174	952.1879	KPC
2005	3	3.15	521	493.3314	533.0276	KPC
2005	3	3.2	8			KPC
2005	3	3.25	3			KPC
2005	3	4	445	435.5054	448.9616	KPC
2005	4	1	144955	144407.4	144903.5	KPC
2005	4	2	28742	28553.97	28808	KPC
2005	4	3.1	928	917.5341	952.0046	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2005	4	3.15	507	495.0655	534.7617	KPC
2005	4	3.2	8			KPC
2005	4	3.25	3			KPC
2005	4	4	451	437.8022	451.2585	KPC
2005	5	1	144302	144273.8	144769.9	KPC
2005	5	2	28820	28654.64	28908.67	KPC
2005	5	3.1	931	920.2864	954.757	KPC
2005	5	3.15	498	491.0022	530.6984	KPC
2005	5	3.2	8			KPC
2005	5	3.25	3			KPC
2005	5	4	443	439.1631	452.6194	KPC
2005	6	1	144342	143939.7	144435.9	KPC
2005	6	2	28921	28717.79	28971.82	KPC
2005	6	3.1	933	919.6907	954.1612	KPC
2005	6	3.15	518	485.1199	524.8162	KPC
2005	6	3.2	8			KPC
2005	6	3.25	3			KPC
2005	6	4	444	437.0216	450.4779	KPC
2005	7	1	144274	144057.3	144553.4	KPC
2005	7	2	28896	28797.78	29051.81	KPC
2005	7	3.1	929	917.4319	951.9025	KPC
2005	7	3.15	511	488.7742	528.4705	KPC
2005	7	3.2	8			KPC
2005	7	3.25	3			KPC
2005	7	4	445	438.8833	452.3396	KPC
2005	8	1	144231	143986.6	144482.7	KPC
2005	8	2	28995	28855.3	29109.34	KPC
2005	8	3.1	934	918.7217	953.1923	KPC
2005	8	3.15	522	488.5028	528.1991	KPC
2005	8	3.2	8			KPC
2005	8	3.25	3			KPC
2005	8	4	385	372.7782	386.2344	KPC
2005	9	1	144191	144020.9	144517	KPC
2005	9	2	29068	28866.73	29120.77	KPC
2005	9	3.1	936	918.0592	952.5297	KPC
2005	9	3.15	513	492.3845	532.0807	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2005	9	3.2	8			KPC
2005	9	3.25	3			KPC
2005	9	4	381	374.7929	388.2491	KPC
2005	10	1	144223	143987.5	144483.6	KPC
2005	10	2	29079	28956.04	29210.08	KPC
2005	10	3.1	937	918.5279	952.9985	KPC
2005	10	3.15	516	491.5198	531.216	KPC
2005	10	3.2	8			KPC
2005	10	3.25	3			KPC
2005	10	4	381	373.4769	386.9331	KPC
2005	11	1	144419	144183.5	144679.6	KPC
2005	11	2	29040	28979.25	29233.29	KPC
2005	11	3.1	935	920.2969	954.7675	KPC
2005	11	3.15	506	492.0791	531.7753	KPC
2005	11	3.2	8			KPC
2005	11	3.25	3			KPC
2005	11	4	386	374.5887	388.0449	KPC
2005	12	1	144641	144355.1	144851.2	KPC
2005	12	2	29064	28974.75	29228.78	KPC
2005	12	3.1	940	921.0616	955.5322	KPC
2005	12	3.15	506	488.7477	528.444	KPC
2005	12	3.2	8			KPC
2005	12	3.25	3			KPC
2005	12	4	382	375.5593	389.0155	KPC
2006	1	1	144830	144722.1	145218.2	KPC
2006	1	2	29121	29000.31	29254.35	KPC
2006	1	3.1	947	920.7303	955.2009	KPC
2006	1	3.15	505	486.6438	526.3401	KPC
2006	1	3.2	8			KPC
2006	1	3.25	3			KPC
2006	1	4	380	373.9981	387.4543	KPC
2006	2	1	144530	144137.1	144633.2	KPC
2006	2	2	29047	29004.89	29258.92	KPC
2006	2	3.1	938	921.6783	956.1489	KPC
2006	2	3.15	504	484.9466	524.6429	KPC
2006	2	3.2	8			KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2006	2	3.25	3			KPC
2006	2	4	381	374.4436	387.8999	KPC
2006	3	1	145013	144928.4	145424.5	KPC
2006	3	2	29187	28981.45	29235.48	KPC
2006	3	3.1	952	924.8746	959.3451	KPC
2006	3	3.15	509	483.5064	523.2026	KPC
2006	3	3.2	8			KPC
2006	3	3.25	3			KPC
2006	3	4	383	373.853	387.3092	KPC
2006	4	1	144560	144494.4	144990.5	KPC
2006	4	2	29148	29077.5	29331.53	KPC
2006	4	3.1	945	923.9829	958.4535	KPC
2006	4	3.15	499	484.4391	524.1353	KPC
2006	4	3.2	8			KPC
2006	4	3.25	3			KPC
2006	4	4	381	374.1431	387.5994	KPC
2006	5	1	144258	143936	144432.1	KPC
2006	5	2	29245	29093.59	29347.62	KPC
2006	5	3.1	942	925.8226	960.2931	KPC
2006	5	3.15	497	481.3435	521.0397	KPC
2006	5	3.2	8			KPC
2006	5	3.25	3			KPC
2006	5	4	379	373.6078	387.064	KPC
2006	6	1	144120	143964	144460.1	KPC
2006	6	2	29278	29157.1	29411.14	KPC
2006	6	3.1	954	927.1792	961.6497	KPC
2006	6	3.15	499	478.6516	518.3479	KPC
2006	6	3.2	8			KPC
2006	6	3.25	3			KPC
2006	6	4	380	373.3176	386.7739	KPC
2006	7	1	144118	143777.1	144273.3	KPC
2006	7	2	29279	29206.7	29460.74	KPC
2006	7	3.1	946	924.6455	959.116	KPC
2006	7	3.15	505	477.6885	517.3847	KPC
2006	7	3.2	8			KPC
2006	7	3.25	3			KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2006	7	4	381	373.2175	386.6737	KPC
2006	8	1	144248	143859.5	144355.6	KPC
2006	8	2	29339	29234.21	29488.25	KPC
2006	8	3.1	941	927.352	961.8225	KPC
2006	8	3.15	510	479.291	518.9872	KPC
2006	8	3.2	8			KPC
2006	8	3.25	3			KPC
2006	8	4	381	373.1173	386.5735	KPC
2006	9	1	144269	143961.4	144457.5	KPC
2006	9	2	29384	29245.75	29499.78	KPC
2006	9	3.1	941	927.9439	962.4144	KPC
2006	9	3.15	508	482.1453	521.8416	KPC
2006	9	3.2	8			KPC
2006	9	3.25	3			KPC
2006	9	4	379	373.3625	386.8188	KPC
2006	10	1	144313	144041.9	144538	KPC
2006	10	2	29597	29315.51	29569.55	KPC
2006	10	3.1	941	924.5996	959.0702	KPC
2006	10	3.15	511	483.211	522.9073	KPC
2006	10	3.2	8			KPC
2006	10	3.25	3			KPC
2006	10	4	379	372.8272	386.2834	KPC
2006	11	1	144545	144249.7	144745.8	KPC
2006	11	2	29433	29414.07	29668.11	KPC
2006	11	3.1	944	923.4015	957.8721	KPC
2006	11	3.15	507	484.9895	524.6857	KPC
2006	11	3.2	8			KPC
2006	11	3.25	3			KPC
2006	11	4	380	372.8272	386.2834	KPC
2006	12	1	144554	144602.5	145098.6	KPC
2006	12	2	29354	29395.46	29649.5	KPC
2006	12	3.1	944	923.4015	957.8721	KPC
2006	12	3.15	503	484.6388	524.335	KPC
2006	12	3.2	8			KPC
2006	12	3.25	3			KPC
2006	12	4	380	372.727	386.1832	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2007	1	1	144815	144541.3	145037.4	KPC
2007	1	2	29460	29351.69	29605.72	KPC
2007	1	3.1	949	924.2579	958.7284	KPC
2007	1	3.15	500	482.9435	522.6397	KPC
2007	1	3.2	8			KPC
2007	1	3.25	3			KPC
2007	1	4	378	372.727	386.1832	KPC
2007	2	1	144843	144608.5	145104.6	KPC
2007	2	2	29416	29340.64	29594.68	KPC
2007	2	3.1	943	924.9767	959.4473	KPC
2007	2	3.15	493	480.7674	520.4637	KPC
2007	2	3.2	8			KPC
2007	2	3.25	3			KPC
2007	2	4	376	372.1916	385.6479	KPC
2007	3	1	144494	144435.7	144931.8	KPC
2007	3	2	29460	29419.6	29673.63	KPC
2007	3	3.1	938	926.404	960.8745	KPC
2007	3	3.15	497	476.814	516.5102	KPC
2007	3	3.2	8			KPC
2007	3	3.25	3			KPC
2007	3	4	376	371.411	384.8673	KPC
2007	4	1	144179	144219.2	144715.3	KPC
2007	4	2	29427	29361.69	29615.73	KPC
2007	4	3.1	935	925.8894	960.3599	KPC
2007	4	3.15	488	475.791	515.4873	KPC
2007	4	3.2	8			KPC
2007	4	3.25	3			KPC
2007	4	4	374	370.9206	384.3768	KPC
2007	5	1	143841	143695.4	144191.5	KPC
2007	5	2	29570	29417.97	29672	KPC
2007	5	3.1	931	923.0244	957.495	KPC
2007	5	3.15	484	471.8289	511.5251	KPC
2007	5	3.2	8			KPC
2007	5	3.25	3			KPC
2007	5	4	374	369.6495	383.1057	KPC
2007	6	1	143743	143610.3	144106.5	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2007	6	2	29678	29524.03	29778.06	KPC
2007	6	3.1	944	920.97	955.4405	KPC
2007	6	3.15	481	467.8528	507.549	KPC
2007	6	3.2	8			KPC
2007	6	3.25	3			KPC
2007	6	4	373	369.6495	383.1057	KPC
2007	7	1	143666	143444.1	143940.2	KPC
2007	7	2	29736	29546.15	29800.19	KPC
2007	7	3.1	941	919.1093	953.5798	KPC
2007	7	3.15	491	464.2363	503.9326	KPC
2007	7	3.2	8			KPC
2007	7	3.25	3			KPC
2007	7	4	372	368.7687	382.225	KPC
2007	8	1	143970	143577.1	144073.2	KPC
2007	8	2	29828	29658.08	29912.11	KPC
2007	8	3.1	941	921.8616	956.3322	KPC
2007	8	3.15	490	465.637	505.3332	KPC
2007	8	3.2	8			KPC
2007	8	3.25	3			KPC
2007	8	4	365	368.3784	381.8347	KPC
2007	9	1	144118	143702.8	144198.9	KPC
2007	9	2	29876	29752.28	30006.31	KPC
2007	9	3.1	942	924.1204	958.5909	KPC
2007	9	3.15	485	466.1531	505.8493	KPC
2007	9	3.2	8			KPC
2007	9	3.25	3			KPC
2007	9	4	388	365.4011	378.8573	KPC
2007	10	1	144087	143828.7	144324.8	KPC
2007	10	2	29925	29795.7	30049.73	KPC
2007	10	3.1	936	923.4015	957.8721	KPC
2007	10	3.15	480	464.6367	504.333	KPC
2007	10	3.2	8			KPC
2007	10	3.25	3			KPC
2007	10	4	377	374.1328	387.589	KPC
2007	11	1	144181	144117.9	144614	KPC
2007	11	2	29935	29790.89	30044.92	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2007	11	3.1	937	923.687	958.1575	KPC
2007	11	3.15	476	461.8368	501.533	KPC
2007	11	3.2	8			KPC
2007	11	3.25	3			KPC
2007	11	4	374	368.1229	381.5791	KPC
2007	12	1	144542	144158.1	144654.2	KPC
2007	12	2	29922	29827.16	30081.2	KPC
2007	12	3.1	935	922.2139	956.6844	KPC
2007	12	3.15	471	458.5947	498.2909	KPC
2007	12	3.2	8			KPC
2007	12	3.25	3			KPC
2007	12	4	373	372.5923	386.0485	KPC
2008	1	1	144825	144529.4	145025.5	KPC
2008	1	2	29969	29845.77	30099.8	KPC
2008	1	3.1	937	921.0616	955.5322	KPC
2008	1	3.15	473	454.7049	494.4011	KPC
2008	1	3.2	8			KPC
2008	1	3.25	3			KPC
2008	1	4	380	369.5044	382.9607	KPC
2008	2	1	144690	144440.1	144936.2	KPC
2008	2	2	29955	29837.63	30091.67	KPC
2008	2	3.1	940	920.7303	955.2009	KPC
2008	2	3.15	475	452.9852	492.6815	KPC
2008	2	3.2	8			KPC
2008	2	3.25	3			KPC
2008	2	4	379	371.5008	384.9571	KPC
2008	3	1	144365	144190.6	144686.7	KPC
2008	3	2	29975	29909.58	30163.61	KPC
2008	3	3.1	952	920.822	955.2925	KPC
2008	3	3.15	469	452.6361	492.3323	KPC
2008	3	3.2	8			KPC
2008	3	3.25	3			KPC
2008	3	4	376	370.8653	384.3215	KPC
2008	4	1	143988	143902.5	144398.6	KPC
2008	4	2	30023	29880.63	30134.66	KPC
2008	4	3.1	947	922.1576	956.6281	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2008	4	3.15	462	450.2049	489.9011	KPC
2008	4	3.2	8			KPC
2008	4	3.25	3			KPC
2008	4	4	383	371.411	384.8673	KPC
2008	5	1	143799	143482.9	143979	KPC
2008	5	2	30069	29952.4	30206.43	KPC
2008	5	3.1	948	926.3018	960.7724	KPC
2008	5	3.15	461	446.0902	485.7865	KPC
2008	5	3.2	8			KPC
2008	5	3.25	3			KPC
2008	5	4	374	373.8979	387.3541	KPC
2008	6	1	143710	143366.1	143862.2	KPC
2008	6	2	30080	29995.44	30249.47	KPC
2008	6	3.1	956	927.7501	962.2206	KPC
2008	6	3.15	460	443.1232	482.8194	KPC
2008	6	3.2	8			KPC
2008	6	3.25	3			KPC
2008	6	4	373	369.6495	383.1057	KPC
2008	7	1	143789	143347.1	143843.2	KPC
2008	7	2	29341	29212.67	29466.7	KPC
2008	7	3.1	957	926.8374	961.3079	KPC
2008	7	3.15	466	440.8809	480.5772	KPC
2008	7	3.2	8			KPC
2008	7	3.25	3			KPC
2008	7	4	386	370.9758	384.4321	KPC
2008	8	1	143832	143682.4	144178.5	KPC
2008	8	2	29387	29265.13	29519.16	KPC
2008	8	3.1	951	929.3606	963.8311	KPC
2008	8	3.15	460	441.6756	481.3719	KPC
2008	8	3.2	8			KPC
2008	8	3.25	3			KPC
2008	8	4	380	373.8426	387.2989	KPC
2008	9	1	143855	143714.9	144211	KPC
2008	9	2	29479	29317.52	29571.55	KPC
2008	9	3.1	966	956.6957	991.1662	KPC
2008	9	3.15	464	439.9667	479.663	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2008	9	3.2	8			KPC
2008	9	3.25	3			KPC
2008	9	4	376	371.2556	384.7118	KPC
2008	10	1	143884	143755.9	144252	KPC
2008	10	2	29482	29433.99	29688.02	KPC
2008	10	3.1	972	955.2226	989.6931	KPC
2008	10	3.15	469	440.3613	480.0576	KPC
2008	10	3.2	8			KPC
2008	10	3.25	3			KPC
2008	10	4	379	372.8824	386.3386	KPC
2008	11	1	144024.4	143776.4	144272.5	KPC
2008	11	2	29484.23	29357.21	29611.25	KPC
2008	11	3.1	968.1278	950.8925	985.3631	KPC
2008	11	3.15	462.301	442.4528	482.1491	KPC
2008	11	3.2				KPC
2008	11	3.25				KPC
2008	11	4	379.31	372.5819	386.0382	KPC
2008	12	1	144277.7	143990.8	144564.6	KPC
2008	12	2	29489.34	29339.9	29638.78	KPC
2008	12	3.1	967.4125	950.1772	984.6477	KPC
2008	12	3.15	461.1535	440.001	482.3061	KPC
2008	12	3.2				KPC
2008	12	3.25				KPC
2008	12	4	378.4501	371.2277	385.6726	KPC
2009	1	1	144480	144181.1	144778.9	KPC
2009	1	2	29550.22	29381.3	29719.14	KPC
2009	1	3.1	967.7449	949.8212	985.6686	KPC
2009	1	3.15	460.0061	437.625	482.3872	KPC
2009	1	3.2				KPC
2009	1	3.25				KPC
2009	1	4	378.8502	371.5554	386.145	KPC
2009	2	1	144469.9	144135.6	144804.2	KPC
2009	2	2	29562.18	29375.81	29748.55	KPC
2009	2	3.1	966.6128	948.2195	985.0062	KPC
2009	2	3.15	458.8586	435.313	482.4043	KPC
2009	2	3.2				KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2009	2	3.25				KPC
2009	2	4	379.0824	371.505	386.6597	KPC
2009	3	1	144141.6	143776.9	144506.2	KPC
2009	3	2	29594.1	29391.78	29796.42	KPC
2009	3	3.1	966.5363	948.0894	984.9832	KPC
2009	3	3.15	457.7112	433.056	482.3664	KPC
2009	3	3.2				KPC
2009	3	3.25				KPC
2009	3	4	378.9621	371.2484	386.6759	KPC
2009	4	1	143821.1	143437.6	144204.7	KPC
2009	4	2	29631.42	29414.31	29848.52	KPC
2009	4	3.1	966.2928	947.6959	984.8898	KPC
2009	4	3.15	456.5637	430.8468	482.2807	KPC
2009	4	3.2				KPC
2009	4	3.25				KPC
2009	4	4	379.0133	371.2566	386.77	KPC
2009	5	1	143603.4	143213.3	143993.5	KPC
2009	5	2	29701.94	29478.98	29924.9	KPC
2009	5	3.1	965.9997	947.3508	984.6486	KPC
2009	5	3.15	455.4163	428.6797	482.1529	KPC
2009	5	3.2				KPC
2009	5	3.25				KPC
2009	5	4	379.0902	371.2902	386.8902	KPC
2009	6	1	143530.5	143127.6	143933.4	KPC
2009	6	2	29766.04	29534.78	29997.3	KPC
2009	6	3.1	965.9119	947.2357	984.5881	KPC
2009	6	3.15	454.2688	426.5501	481.9876	KPC
2009	6	3.2				KPC
2009	6	3.25				KPC
2009	6	4	379.0907	371.2617	386.9198	KPC
2009	7	1	143572.8	143165.7	143979.9	KPC
2009	7	2	29814.57	29575.3	30053.85	KPC
2009	7	3.1	965.7699	947.0689	984.4708	KPC
2009	7	3.15	453.1214	424.4541	481.7887	KPC
2009	7	3.2				KPC
2009	7	3.25				KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2009	7	4	379.1035	371.2607	386.9463	KPC
2009	8	1	143694.3	143282.3	144106.2	KPC
2009	8	2	29874.22	29627.2	30121.25	KPC
2009	8	3.1	965.6746	946.9633	984.3858	KPC
2009	8	3.15	451.974	422.3886	481.5593	KPC
2009	8	3.2				KPC
2009	8	3.25				KPC
2009	8	4	379.1273	371.2753	386.9794	KPC
2009	9	1	143778	143358.8	144197.1	KPC
2009	9	2	29920.73	29666.19	30175.26	KPC
2009	9	3.1	965.613	946.8946	984.3313	KPC
2009	9	3.15	450.8265	420.3506	481.3024	KPC
2009	9	3.2				KPC
2009	9	3.25				KPC
2009	9	4	379.1368	371.2784	386.9951	KPC
2009	10	1	143753.8	143329	144178.6	KPC
2009	10	2	29960.37	29698.53	30222.2	KPC
2009	10	3.1	965.5517	946.8289	984.2746	KPC
2009	10	3.15	449.6791	418.338	481.0201	KPC
2009	10	3.2				KPC
2009	10	3.25				KPC
2009	10	4	379.1436	371.2817	387.0055	KPC
2009	11	1	143890.6	143398.4	144382.8	KPC
2009	11	2	29992.61	29722.2	30263.02	KPC
2009	11	3.1	965.5113	946.7861	984.2365	KPC
2009	11	3.15	448.5316	416.3486	480.7146	KPC
2009	11	3.2				KPC
2009	11	3.25				KPC
2009	11	4	379.1521	371.288	387.0162	KPC
2009	12	1	144167.3	143644.5	144690	KPC
2009	12	2	30015.35	29737.19	30293.52	KPC
2009	12	3.1	965.4791	946.7524	984.2058	KPC
2009	12	3.15	447.3842	414.3807	480.3876	KPC
2009	12	3.2				KPC
2009	12	3.25				KPC
2009	12	4	379.1577	371.2922	387.0232	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2010	1	1	144413.4	143868.6	144958.2	KPC
2010	1	2	30058.94	29773.23	30344.65	KPC
2010	1	3.1	965.4529	946.7253	984.1805	KPC
2010	1	3.15	446.2367	412.4327	480.0407	KPC
2010	1	3.2				KPC
2010	1	3.25				KPC
2010	1	4	379.1616	371.2952	387.028	KPC
2010	2	1	144345.6	143768.4	144922.7	KPC
2010	2	2	30081.05	29788	30374.11	KPC
2010	2	3.1	965.434	946.7059	984.1621	KPC
2010	2	3.15	445.0893	410.5032	479.6753	KPC
2010	2	3.2				KPC
2010	2	3.25				KPC
2010	2	4	379.1652	371.2982	387.0321	KPC
2010	3	1	144014.8	143406.7	144623	KPC
2010	3	2	30114.71	29814.48	30414.93	KPC
2010	3	3.1	965.4188	946.6903	984.1472	KPC
2010	3	3.15	443.9418	408.5911	479.2926	KPC
2010	3	3.2				KPC
2010	3	3.25				KPC
2010	3	4	379.168	371.3007	387.0352	KPC
2010	4	1	143677.4	143044.8	144310	KPC
2010	4	2	30159.9	29852.67	30467.13	KPC
2010	4	3.1	965.4071	946.6785	984.1357	KPC
2010	4	3.15	442.7944	406.6951	478.8937	KPC
2010	4	3.2				KPC
2010	4	3.25				KPC
2010	4	4	379.17	371.3025	387.0375	KPC
2010	5	1	143461.5	142810.4	144112.5	KPC
2010	5	2	30202.96	29889.16	30516.75	KPC
2010	5	3.1	965.3982	946.6695	984.127	KPC
2010	5	3.15	441.6469	404.8143	478.4796	KPC
2010	5	3.2				KPC
2010	5	3.25				KPC
2010	5	4	379.1717	371.3041	387.0393	KPC
2010	6	1	143392	142719.7	144064.3	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2010	6	2	30233.87	29913.54	30554.2	KPC
2010	6	3.1	965.3913	946.6625	984.1201	KPC
2010	6	3.15	440.4995	402.9479	478.0511	KPC
2010	6	3.2				KPC
2010	6	3.25				KPC
2010	6	4	379.173	371.3053	387.0407	KPC
2010	7	1	143440	142752.8	144127.2	KPC
2010	7	2	30276.95	29950.21	30603.69	KPC
2010	7	3.1	965.3859	946.6571	984.1148	KPC
2010	7	3.15	439.352	401.0949	477.6092	KPC
2010	7	3.2				KPC
2010	7	3.25				KPC
2010	7	4	379.174	371.3063	387.0417	KPC
2010	8	1	143549.2	142846.8	144251.6	KPC
2010	8	2	30320.36	29987.34	30653.38	KPC
2010	8	3.1	965.3818	946.653	984.1107	KPC
2010	8	3.15	438.2046	399.2547	477.1545	KPC
2010	8	3.2				KPC
2010	8	3.25				KPC
2010	8	4	379.1748	371.3071	387.0426	KPC
2010	9	1	143609.2	142891.8	144326.7	KPC
2010	9	2	30380.24	30041.06	30719.42	KPC
2010	9	3.1	965.3786	946.6497	984.1075	KPC
2010	9	3.15	437.0572	397.4267	476.6876	KPC
2010	9	3.2				KPC
2010	9	3.25				KPC
2010	9	4	379.1755	371.3077	387.0432	KPC
2010	10	1	143620.9	142889.4	144352.4	KPC
2010	10	2	30408.14	30062.9	30753.38	KPC
2010	10	3.1	965.3762	946.6473	984.1051	KPC
2010	10	3.15	435.9097	395.6101	476.2093	KPC
2010	10	3.2				KPC
2010	10	3.25				KPC
2010	10	4	379.176	371.3082	387.0438	KPC
2010	11	1	143762.5	142957.5	144567.5	KPC
2010	11	2	30436.08	30073.79	30798.36	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2010	11	3.1	965.3743	946.6454	984.1032	KPC
2010	11	3.15	434.7623	393.8045	475.72	KPC
2010	11	3.2				KPC
2010	11	3.25				KPC
2010	11	4	379.1764	371.3086	387.0442	KPC
2010	12	1	144037.8	143193.4	144882.1	KPC
2010	12	2	30464.97	30091.06	30838.89	KPC
2010	12	3.1	965.3728	946.6439	984.1017	KPC
2010	12	3.15	433.6148	392.0092	475.2204	KPC
2010	12	3.2				KPC
2010	12	3.25				KPC
2010	12	4	379.1767	371.3089	387.0445	KPC
2011	1	1	144271.8	143401.7	145141.8	KPC
2011	1	2	30513.67	30128.47	30898.87	KPC
2011	1	3.1	965.3717	946.6428	984.1006	KPC
2011	1	3.15	432.4674	390.2239	474.7108	KPC
2011	1	3.2				KPC
2011	1	3.25				KPC
2011	1	4	379.1769	371.3091	387.0447	KPC
2011	2	1	144228	143320.3	145135.8	KPC
2011	2	2	30544.99	30148.83	30941.15	KPC
2011	2	3.1	965.3708	946.6419	984.0997	KPC
2011	2	3.15	431.3199	388.4481	474.1917	KPC
2011	2	3.2				KPC
2011	2	3.25				KPC
2011	2	4	379.1771	371.3093	387.0449	KPC
2011	3	1	143906.1	142962.5	144849.7	KPC
2011	3	2	30583.38	30176.55	30990.2	KPC
2011	3	3.1	965.3701	946.6412	984.099	KPC
2011	3	3.15	430.1725	386.6814	473.6635	KPC
2011	3	3.2				KPC
2011	3	3.25				KPC
2011	3	4	379.1773	371.3095	387.0451	KPC
2011	4	1	143571.4	142598.9	144543.9	KPC
2011	4	2	30623.76	30206.53	31040.98	KPC
2011	4	3.1	965.3696	946.6407	984.0985	KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2011	4	3.15	429.025	384.9234	473.1267	KPC
2011	4	3.2				KPC
2011	4	3.25				KPC
2011	4	4	379.1774	371.3096	387.0452	KPC
2011	5	1				KPC
2011	5	2				KPC
2011	5	3.1				KPC
2011	5	3.15				KPC
2011	5	3.2				KPC
2011	5	3.25				KPC
2011	5	4				KPC
2011	6	1				KPC
2011	6	2				KPC
2011	6	3.1				KPC
2011	6	3.15				KPC
2011	6	3.2				KPC
2011	6	3.25				KPC
2011	6	4				KPC
2011	7	1				KPC
2011	7	2				KPC
2011	7	3.1				KPC
2011	7	3.15				KPC
2011	7	3.2				KPC
2011	7	3.25				KPC
2011	7	4				KPC
2011	8	1				KPC
2011	8	2				KPC
2011	8	3.1				KPC
2011	8	3.15				KPC
2011	8	3.2				KPC
2011	8	3.25				KPC
2011	8	4				KPC
2011	9	1				KPC
2011	9	2				KPC
2011	9	3.1				KPC
2011	9	3.15				KPC

KPC_Customer_Model_Output

YEAR	MONTH	REVCLS	CUST	L95	U95	JURIS
2011	9	3.2				KPC
2011	9	3.25				KPC
2011	9	4				KPC
2011	10	1				KPC
2011	10	2				KPC
2011	10	3.1				KPC
2011	10	3.15				KPC
2011	10	3.2				KPC
2011	10	3.25				KPC
2011	10	4				KPC
2011	11	1				KPC
2011	11	2				KPC
2011	11	3.1				KPC
2011	11	3.15				KPC
2011	11	3.2				KPC
2011	11	3.25				KPC
2011	11	4				KPC
2011	12	1				KPC
2011	12	2				KPC
2011	12	3.1				KPC
2011	12	3.15				KPC
2011	12	3.2				KPC
2011	12	3.25				KPC
2011	12	4				KPC

SHORT-TERM USAGE

Kentucky Power Company
Usage Models

Revcls-Revenue Class

1-Residential

2-Commercial

3.1 Small Industrial

3.15 Small Mine Power

3.2 Large Industrial

3.25 Large Mine Power

3.4 Other Retail

bcdd65-Cooling degree days base 65

bcdd70-Cooling degree days base 70

bhdd65-Heating degree days base 65

bhdd55-Heating degree days base 55

kwh-energy in kWh

cust-customers

met_day-number of billing days

usage-energy per customer

ind1, ind2, ind3, ind4, ind5, ind6, ind7, ind8, min1, min2, or1, or2, or3, or4, or5, im1

Binary Variables

KPC_Use_Model_Input

YEAR	MONTH	bccd65	bccd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
1998	1	0	0	750.2064	458.1286	1	2.59E+08	142740	32.83575623	1/1/1998	1816.033	0
1998	1	0	0	750.2064	458.1286	2	1.07E+08	24122	32.96778268	1/1/1998	4454.302	0
1998	1	0	0	750.2064	458.1286	3.1	1.8E+08	1068	31.7331054	1/1/1998		0
1998	1	0	0	750.2064	458.1286	3.15	1.03E+08	557	31.7331054	1/1/1998		0
1998	1	0	0	750.2064	458.1286	4	1062831	601	31.5405524	1/1/1998		0
1998	2	0	0	782.0813	485.2255	1	2.21E+08	142471	29.30555432	2/1/1998	1553.672	0
1998	2	0	0	782.0813	485.2255	2	99409464	24003	29.53973602	2/1/1998	4141.543	0
1998	2	0	0	782.0813	485.2255	3.1	1.63E+08	1079	29.34345561	2/1/1998		0
1998	2	0	0	782.0813	485.2255	3.15	93634648	583	29.34345561	2/1/1998		0
1998	2	0	0	782.0813	485.2255	4	906885	475	28.73270355	2/1/1998		0
1998	3	0.032726	0	682.6603	389.1753	1	1.99E+08	142614	28.98145151	3/1/1998	1393.329	0
1998	3	0.032726	0	682.6603	389.1753	2	85160544	23841	29.18108366	3/1/1998	3572.021	0
1998	3	0.032726	0	682.6603	389.1753	3.1	1.69E+08	1027	29.92606081	3/1/1998		0
1998	3	0.032726	0	682.6603	389.1753	3.15	1.01E+08	588	29.92606081	3/1/1998		0
1998	3	0.032726	0	682.6603	389.1753	4	901367	480	30.54667296	3/1/1998		0
1998	4	41.52905	16.46108	445.7255	227.248	1	1.65E+08	142771	30.04692994	4/1/1998	1159.164	0
1998	4	41.52905	16.46108	445.7255	227.248	2	95019595	24158	30.19891908	4/1/1998	3933.256	0
1998	4	41.52905	16.46108	445.7255	227.248	3.1	1.74E+08	1094	30.17848256	4/1/1998		0
1998	4	41.52905	16.46108	445.7255	227.248	3.15	96970537	651	30.17848256	4/1/1998		0
1998	4	41.52905	16.46108	445.7255	227.248	4	801290	477	30.13542414	4/1/1998		0
1998	5	23.23532	7.166952	209.1506	33.96939	1	1.32E+08	142280	29.41758996	5/1/1998	927.0211	0
1998	5	23.23532	7.166952	209.1506	33.96939	2	87043618	24055	29.61339613	5/1/1998	3618.525	0
1998	5	23.23532	7.166952	209.1506	33.96939	3.1	1.72E+08	1049	29.84682511	5/1/1998		0
1998	5	23.23532	7.166952	209.1506	33.96939	3.15	85826319	578	29.84682511	5/1/1998		0
1998	5	23.23532	7.166952	209.1506	33.96939	4	738492	478	30.25496053	5/1/1998		0
1998	6	133.4558	43.98348	42.67445	0.752694	1	1.43E+08	142257	30.49014988	6/1/1998	1003.71	0
1998	6	133.4558	43.98348	42.67445	0.752694	2	93873460	24137	30.89122135	6/1/1998	3889.193	0
1998	6	133.4558	43.98348	42.67445	0.752694	3.1	1.65E+08	1064	30.42409972	6/1/1998		0
1998	6	133.4558	43.98348	42.67445	0.752694	3.15	79830722	573	30.42409972	6/1/1998		0
1998	6	133.4558	43.98348	42.67445	0.752694	4	679396	478	30.05213684	6/1/1998		0
1998	7	285.9581	147.3316	11.38858	0.327258	1	1.77E+08	142397	30.12420263	7/1/1998	1243.693	0
1998	7	285.9581	147.3316	11.38858	0.327258	2	1.09E+08	24307	30.47689222	7/1/1998	4489.567	0
1998	7	285.9581	147.3316	11.38858	0.327258	3.1	1.68E+08	1071	30.5881427	7/1/1998		0
1998	7	285.9581	147.3316	11.38858	0.327258	3.15	80815262	605	30.5881427	7/1/1998		0
1998	7	285.9581	147.3316	11.38858	0.327258	4	715592	475	30.87312413	7/1/1998		0
1998	8	294.925	143.9935	0	0	1	1.78E+08	142602	29.19304642	8/1/1998	1250.203	0

KPC_Use_Model_Input

YEAR	MONTH	bcdd65	bcdd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
1998	8	294.925	143.9935	0	0	2	1.04E+08	24303	29.27851677	8/1/1998	4271.91	0
1998	8	294.925	143.9935	0	0	3.1	1.69E+08	1059	30.0284569	8/1/1998		0
1998	8	294.925	143.9935	0	0	3.15	85295169	598	30.0284569	8/1/1998		0
1998	8	294.925	143.9935	0	0	4	771181	473	30.44423365	8/1/1998		0
1998	9	286.2199	148.5097	6.283355	0	1	1.74E+08	142455	30.1222198	9/1/1998	1219.362	0
1998	9	286.2199	148.5097	6.283355	0	2	1.08E+08	24368	30.41462405	9/1/1998	4442.376	0
1998	9	286.2199	148.5097	6.283355	0	3.1	1.62E+08	1055	30.42656091	9/1/1998		0
1998	9	286.2199	148.5097	6.283355	0	3.15	89300968	561	30.42656091	9/1/1998		0
1998	9	286.2199	148.5097	6.283355	0	4	843738	467	30.20807494	9/1/1998		0
1998	10	175.7049	86.62521	82.46903	6.316081	1	1.42E+08	142643	29.44911056	10/1/1998	994.5192	0
1998	10	175.7049	86.62521	82.46903	6.316081	2	95623330	24315	29.68323264	10/1/1998	3932.689	0
1998	10	175.7049	86.62521	82.46903	6.316081	3.1	1.72E+08	1060	30.03211441	10/1/1998		0
1998	10	175.7049	86.62521	82.46903	6.316081	3.15	85526184	591	30.03211441	10/1/1998		0
1998	10	175.7049	86.62521	82.46903	6.316081	4	950987	523	30.49645297	10/1/1998		0
1998	11	12.95942	4.254355	373.5978	127.5979	1	1.54E+08	142896	29.23652399	11/1/1998	1079.236	0
1998	11	12.95942	4.254355	373.5978	127.5979	2	89644236	24496	29.63305725	11/1/1998	3659.546	0
1998	11	12.95942	4.254355	373.5978	127.5979	3.1	1.63E+08	1080	30.18068677	11/1/1998		0
1998	11	12.95942	4.254355	373.5978	127.5979	3.15	95178476	723	30.18068677	11/1/1998		0
1998	11	12.95942	4.254355	373.5978	127.5979	4	1002788	536	30.12532517	11/1/1998		0
1998	12	2.748968	0	514.8751	244.3636	1	2.09E+08	143048	31.98439316	12/1/1998	1459.52	0
1998	12	2.748968	0	514.8751	244.3636	2	1.05E+08	24450	32.14106964	12/1/1998	4298.279	0
1998	12	2.748968	0	514.8751	244.3636	3.1	1.77E+08	1070	31.92290406	12/1/1998		0
1998	12	2.748968	0	514.8751	244.3636	3.15	1.29E+08	589	31.92290406	12/1/1998		0
1998	12	2.748968	0	514.8751	244.3636	4	1109403	525	31.2079869	12/1/1998		0
1999	1	1.178129	0	912.0028	619.0414	1	2.86E+08	143197	32.83575623	1/1/1999	1996.281	0
1999	1	1.178129	0	912.0028	619.0414	2	1.17E+08	24422	32.96778268	1/1/1999	4809.156	0
1999	1	1.178129	0	912.0028	619.0414	3.1	43815274	1056	31.7331054	1/1/1999		0
1999	1	1.178129	0	912.0028	619.0414	3.15	98922558	605	31.7331054	1/1/1999		0
1999	1	1.178129	0	912.0028	619.0414	4	1091890	525	31.5405524	1/1/1999		0
1999	2	0	0	721.6695	431.6534	1	2.1E+08	143168	29.30555432	2/1/1999	1466.155	0
1999	2	0	0	721.6695	431.6534	2	99527085	24467	29.53973602	2/1/1999	4067.809	0
1999	2	0	0	721.6695	431.6534	3.1	42358176	1056	29.34345561	2/1/1999		0
1999	2	0	0	721.6695	431.6534	3.15	60029166	596	29.34345561	2/1/1999		0
1999	2	0	0	721.6695	431.6534	4	936418	526	28.73270355	2/1/1999		0
1999	3	0	0	817.6215	516.2496	1	2.24E+08	143337	28.98145151	3/1/1999	1560.207	0
1999	3	0	0	817.6215	516.2496	2	1.04E+08	24536	29.18108366	3/1/1999	4233.165	0

KPC_Use_Model_Input

YEAR	MONTH	bccd65	bccd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
1999	3	0	0	817.6215	516.2496	3.1	50506567	1056	29.92606081	3/1/1999	0	0
1999	3	0	0	817.6215	516.2496	3.15	93602581	595	29.92606081	3/1/1999	0	0
1999	3	0	0	817.6215	516.2496	4	931706	526	30.54667296	3/1/1999	0	0
1999	4	9.457758	0.130903	508.1009	267.5335	1	1.75E+08	143195	30.04692994	4/1/1999	1223.541	0
1999	4	9.457758	0.130903	508.1009	267.5335	2	94106931	24622	30.19891908	4/1/1999	3822.067	0
1999	4	9.457758	0.130903	508.1009	267.5335	3.1	51682903	1052	30.17848256	4/1/1999	0	0
1999	4	9.457758	0.130903	508.1009	267.5335	3.15	80928976	589	30.17848256	4/1/1999	0	0
1999	4	9.457758	0.130903	508.1009	267.5335	4	819222	527	30.13542414	4/1/1999	0	0
1999	5	32.07129	4.319806	174.5595	32.30037	1	1.24E+08	142917	29.41758996	5/1/1999	866.5452	0
1999	5	32.07129	4.319806	174.5595	32.30037	2	87169352	24638	29.61339613	5/1/1999	3538.004	0
1999	5	32.07129	4.319806	174.5595	32.30037	3.1	45815293	1048	29.84682511	5/1/1999	0	0
1999	5	32.07129	4.319806	174.5595	32.30037	3.15	69874965	584	29.84682511	5/1/1999	0	0
1999	5	32.07129	4.319806	174.5595	32.30037	4	742539	527	30.25496053	5/1/1999	0	0
1999	6	149.197	65.38616	32.07129	0	1	1.4E+08	142951	30.49014988	6/1/1999	977.5279	0
1999	6	149.197	65.38616	32.07129	0	2	97019424	24696	30.89122135	6/1/1999	3928.548	0
1999	6	149.197	65.38616	32.07129	0	3.1	47963006	1052	30.42409972	6/1/1999	0	0
1999	6	149.197	65.38616	32.07129	0	3.15	72564318	578	30.42409972	6/1/1999	0	0
1999	6	149.197	65.38616	32.07129	0	4	693125	529	30.05213684	6/1/1999	0	0
1999	7	346.6645	211.7032	2.781694	0	1	1.81E+08	142955	30.12420263	7/1/1999	1267.808	0
1999	7	346.6645	211.7032	2.781694	0	2	1.1E+08	24793	30.47689222	7/1/1999	4420.578	0
1999	7	346.6645	211.7032	2.781694	0	3.1	44664082	1056	30.5881427	7/1/1999	0	0
1999	7	346.6645	211.7032	2.781694	0	3.15	72677904	571	30.5881427	7/1/1999	0	0
1999	7	346.6645	211.7032	2.781694	0	4	729393	532	30.87312413	7/1/1999	0	0
1999	8	430.0498	280.8856	0	0	1	1.98E+08	143050	29.19304642	8/1/1999	1387.451	0
1999	8	430.0498	280.8856	0	0	2	1.12E+08	24858	29.27851677	8/1/1999	4490.294	0
1999	8	430.0498	280.8856	0	0	3.1	1.33E+08	1056	30.0284569	8/1/1999	0	0
1999	8	430.0498	280.8856	0	0	3.15	73131788	566	30.0284569	8/1/1999	0	0
1999	8	430.0498	280.8856	0	0	4	799724	530	30.44423365	8/1/1999	0	0
1999	9	219.0665	94.74121	8.181452	0.130903	1	1.61E+08	143099	30.1222198	9/1/1999	1126.779	0
1999	9	219.0665	94.74121	8.181452	0.130903	2	1.01E+08	24884	30.41462405	9/1/1999	4058.172	0
1999	9	219.0665	94.74121	8.181452	0.130903	3.1	45918373	1055	30.42656091	9/1/1999	0	0
1999	9	219.0665	94.74121	8.181452	0.130903	3.15	81569618	597	30.42656091	9/1/1999	0	0
1999	9	219.0665	94.74121	8.181452	0.130903	4	849764	531	30.20807494	9/1/1999	0	0
1999	10	45.61977	9.915919	122.2963	14.59571	1	1.29E+08	143243	29.44911056	10/1/1999	900.6649	0
1999	10	45.61977	9.915919	122.2963	14.59571	2	95125923	25160	29.68323264	10/1/1999	3780.84	0
1999	10	45.61977	9.915919	122.2963	14.59571	3.1	39364261	1057	30.03211441	10/1/1999	0	0

KPC_Use_Model_Input

YEAR	MONTH	bccd65	bccd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
1999	10	45.61977	9.915919	122.2963	14.59571	3.15	73749263	573	30.03211441	10/1/1999		0
1999	10	45.61977	9.915919	122.2963	14.59571	4	973333	532	30.49645297	10/1/1999		0
1999	11	2.552613	0.261806	355.075	121.74	1	1.5E+08	143398	29.23652399	11/1/1999	1048.741	0
1999	11	2.552613	0.261806	355.075	121.74	2	87415277	25140	29.63305725	11/1/1999	3477.139	0
1999	11	2.552613	0.261806	355.075	121.74	3.15	51164239	1054	30.18068677	11/1/1999		0
1999	11	2.552613	0.261806	355.075	121.74	4	82778285	577	30.18068677	11/1/1999		0
1999	11	2.552613	0.261806	355.075	121.74	4	1014483	531	30.12532517	11/1/1999		0
1999	12	0	0	578.3632	297.5758	1	2.16E+08	143574	31.98439316	12/1/1999	1501.399	0
1999	12	0	0	578.3632	297.5758	2	1.07E+08	25165	32.14106964	12/1/1999	4235.758	0
1999	12	0	0	578.3632	297.5758	3.15	52966849	1050	31.92290406	12/1/1999		0
1999	12	0	0	578.3632	297.5758	3.15	89363760	573	31.92290406	12/1/1999		0
1999	12	0	0	578.3632	297.5758	4	1110250	531	31.2079869	12/1/1999		0
2000	1	0	0	834.2463	539.714	1	2.77E+08	143869	32.83575623	1/1/2000	1922.441	1
2000	1	0	0	834.2463	539.714	2	1.16E+08	25331	32.96778268	1/1/2000	4581.245	1
2000	1	0	0	834.2463	539.714	3.1	-24438862	1016	31.7331054	1/1/2000		1
2000	1	0	0	834.2463	539.714	3.15	87470232	571	31.7331054	1/1/2000		1
2000	1	0	0	834.2463	539.714	4	1104283	533	31.5405524	1/1/2000		1
2000	2	0	0	1016.169	715.2552	1	2.77E+08	143934	29.30555432	2/1/2000	1921.955	-1
2000	2	0	0	1016.169	715.2552	2	1.14E+08	25282	29.53973602	2/1/2000	4516.512	-1
2000	2	0	0	1016.169	715.2552	3.1	1.28E+08	973	29.34345561	2/1/2000		-1
2000	2	0	0	1016.169	715.2552	3.15	83539685	558	29.34345561	2/1/2000		-1
2000	2	0	0	1016.169	715.2552	4	938438	530	28.73270355	2/1/2000		-1
2000	3	2.029	0	537.5868	278.1694	1	1.89E+08	143862	28.98145151	3/1/2000	1315.91	0
2000	3	2.029	0	537.5868	278.1694	2	97738698	25311	29.18108366	3/1/2000	3861.511	0
2000	3	2.029	0	537.5868	278.1694	3.1	49525057	966	29.92606081	3/1/2000		0
2000	3	2.029	0	537.5868	278.1694	3.15	80827861	561	29.92606081	3/1/2000		0
2000	3	2.029	0	537.5868	278.1694	4	939037	530	30.54667296	3/1/2000		0
2000	4	4.712516	0	403.8692	153.6149	1	1.54E+08	143461	30.04692994	4/1/2000	1075.373	0
2000	4	4.712516	0	403.8692	153.6149	2	89933021	25327	30.19891908	4/1/2000	3550.875	0
2000	4	4.712516	0	403.8692	153.6149	3.1	51069843	975	30.17848256	4/1/2000		0
2000	4	4.712516	0	403.8692	153.6149	3.15	76787823	556	30.17848256	4/1/2000		0
2000	4	4.712516	0	403.8692	153.6149	4	817861	532	30.13542414	4/1/2000		0
2000	5	51.44497	21.92629	226.0044	57.33561	1	1.43E+08	143434	29.41758996	5/1/2000	998.0238	0
2000	5	51.44497	21.92629	226.0044	57.33561	2	92491053	25431	29.61339613	5/1/2000	3636.941	0
2000	5	51.44497	21.92629	226.0044	57.33561	3.1	49035225	968	29.84682511	5/1/2000		0
2000	5	51.44497	21.92629	226.0044	57.33561	3.15	76187162	549	29.84682511	5/1/2000		0

KPC_Use_Model_Input

YEAR	MONTH	bccd65	bccd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2000	5	51.44497	21.92629	226.0044	57.33561	4	755515	531	30.25496053	5/1/2000		0
2000	6	143.7317	67.25153	42.21629	0.130903	1	1.5E+08	143303	30.49014988	6/1/2000	1048.147	0
2000	6	143.7317	67.25153	42.21629	0.130903	2	1.05E+08	25460	30.89122135	6/1/2000	4118.48	0
2000	6	143.7317	67.25153	42.21629	0.130903	3.1	51857418	958	30.42409972	6/1/2000		0
2000	6	143.7317	67.25153	42.21629	0.130903	3.15	74521952	543	30.42409972	6/1/2000		0
2000	6	143.7317	67.25153	42.21629	0.130903	4	705902	534	30.05213684	6/1/2000		0
2000	7	261.9701	125.6344	5.432484	0	1	1.75E+08	143298	30.12420263	7/1/2000	1220.916	0
2000	7	261.9701	125.6344	5.432484	0	2	1.08E+08	25553	30.47689222	7/1/2000	4231.963	0
2000	7	261.9701	125.6344	5.432484	0	3.1	46993070	963	30.5881427	7/1/2000		0
2000	7	261.9701	125.6344	5.432484	0	3.15	66010253	546	30.5881427	7/1/2000		0
2000	7	261.9701	125.6344	5.432484	0	4	744508	534	30.87312413	7/1/2000		0
2000	8	229.8006	90.71594	0	0	1	1.7E+08	143438	29.19304642	8/1/2000	1185.967	0
2000	8	229.8006	90.71594	0	0	2	1.09E+08	25605	29.27851677	8/1/2000	4249.506	0
2000	8	229.8006	90.71594	0	0	3.1	50582769	967	30.0284569	8/1/2000		0
2000	8	229.8006	90.71594	0	0	3.15	66539737	579	30.0284569	8/1/2000		0
2000	8	229.8006	90.71594	0	0	4	803535	532	30.44423365	8/1/2000		0
2000	9	199.6274	72.74947	11.84674	0.654516	1	1.65E+08	143541	30.1222198	9/1/2000	1146.884	0
2000	9	199.6274	72.74947	11.84674	0.654516	2	1.12E+08	25597	30.41462405	9/1/2000	4374.051	0
2000	9	199.6274	72.74947	11.84674	0.654516	3.1	48498550	968	30.42656091	9/1/2000		0
2000	9	199.6274	72.74947	11.84674	0.654516	3.15	84959155	517	30.42656091	9/1/2000		0
2000	9	199.6274	72.74947	11.84674	0.654516	4	890054	536	30.20807494	9/1/2000		0
2000	10	69.05145	23.03897	174.1995	36.16202	1	1.41E+08	143672	29.44911056	10/1/2000	981.0043	0
2000	10	69.05145	23.03897	174.1995	36.16202	2	96372646	25596	29.68323264	10/1/2000	3765.145	0
2000	10	69.05145	23.03897	174.1995	36.16202	3.1	42784177	967	30.03211441	10/1/2000		0
2000	10	69.05145	23.03897	174.1995	36.16202	3.15	76867790	549	30.03211441	10/1/2000		0
2000	10	69.05145	23.03897	174.1995	36.16202	4	973790	532	30.49645297	10/1/2000		0
2000	11	9.588661	1.799919	315.0186	124.0635	1	1.49E+08	143791	29.23652399	11/1/2000	1034.52	0
2000	11	9.588661	1.799919	315.0186	124.0635	2	91910570	25750	29.63305725	11/1/2000	3569.343	0
2000	11	9.588661	1.799919	315.0186	124.0635	3.1	42409854	967	30.18068677	11/1/2000		0
2000	11	9.588661	1.799919	315.0186	124.0635	3.15	78207742	525	30.18068677	11/1/2000		0
2000	11	9.588661	1.799919	315.0186	124.0635	4	1029400	532	30.12532517	11/1/2000		0
2000	12	0	0	843.6058	548.3209	1	2.66E+08	144226	31.98439316	12/1/2000	1842.379	0
2000	12	0	0	843.6058	548.3209	2	1.17E+08	25765	32.14106964	12/1/2000	4539.569	0
2000	12	0	0	843.6058	548.3209	3.1	48315424	965	31.92290406	12/1/2000		0
2000	12	0	0	843.6058	548.3209	3.15	88295241	523	31.92290406	12/1/2000		0
2000	12	0	0	843.6058	548.3209	4	1129822	471	31.2079869	12/1/2000		0

KPC_Use_Model_Input

YEAR	MONTH	bcdd65	bcdd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2001	1	0	0	1121.612	817.2616	1	3.52E+08	144223	32.83575623	1/1/2001	2442.094	0
2001	1	0	0	1121.612	817.2616	2	1.34E+08	25718	32.96778268	1/1/2001	5204.724	0
2001	1	0	0	1121.612	817.2616	3.1	2.13E+08	968	31.7331054	1/1/2001		0
2001	1	0	0	1121.612	817.2616	3.15	95959000	538	31.7331054	1/1/2001		0
2001	1	0	0	1121.612	817.2616	4	1122283	471	31.5405524	1/1/2001		0
2001	2	0	0	933.2418	632.8189	1	2.62E+08	144273	29.30555432	2/1/2001	1814.616	0
2001	2	0	0	933.2418	632.8189	2	1.14E+08	25785	29.53973602	2/1/2001	4401.9	0
2001	2	0	0	933.2418	632.8189	3.1	48696211	970	29.34345561	2/1/2001		0
2001	2	0	0	933.2418	632.8189	3.15	90303820	526	29.34345561	2/1/2001		0
2001	2	0	0	933.2418	632.8189	4	969514	446	28.73270355	2/1/2001		0
2001	3	0	0	737.5088	442.9765	1	2.19E+08	144119	28.98145151	3/1/2001	1520.046	0
2001	3	0	0	737.5088	442.9765	2	1.03E+08	25748	29.18108366	3/1/2001	3991.9	0
2001	3	0	0	737.5088	442.9765	3.1	44037544	966	29.92660681	3/1/2001		0
2001	3	0	0	737.5088	442.9765	3.15	87199662	525	29.92660681	3/1/2001		0
2001	3	0	0	737.5088	442.9765	4	961800	446	30.54667296	3/1/2001		0
2001	4	38.15829	18.03192	557.5168	304.0227	1	1.91E+08	143978	30.04692994	4/1/2001	1325.045	0
2001	4	38.15829	18.03192	557.5168	304.0227	2	1E+08	25819	30.19891908	4/1/2001	3880.637	0
2001	4	38.15829	18.03192	557.5168	304.0227	3.1	44138542	969	30.17848256	4/1/2001		0
2001	4	38.15829	18.03192	557.5168	304.0227	3.15	86147572	525	30.17848256	4/1/2001		0
2001	4	38.15829	18.03192	557.5168	304.0227	4	850414	445	30.13542414	4/1/2001		0
2001	5	85.0871	30.435	168.7015	46.60155	1	1.41E+08	143932	29.41758996	5/1/2001	979.7614	0
2001	5	85.0871	30.435	168.7015	46.60155	2	97747035	25876	29.61339613	5/1/2001	3777.517	0
2001	5	85.0871	30.435	168.7015	46.60155	3.1	42530582	970	29.84682511	5/1/2001		0
2001	5	85.0871	30.435	168.7015	46.60155	3.15	79037843	560	29.84682511	5/1/2001		0
2001	5	85.0871	30.435	168.7015	46.60155	4	785878	446	30.25496053	5/1/2001		0
2001	6	91.37045	28.99506	81.12727	2.748968	1	1.41E+08	143849	30.49014988	6/1/2001	977.7367	0
2001	6	91.37045	28.99506	81.12727	2.748968	2	1E+08	25911	30.89122135	6/1/2001	3876.89	0
2001	6	91.37045	28.99506	81.12727	2.748968	3.1	44674704	971	30.42409972	6/1/2001		0
2001	6	91.37045	28.99506	81.12727	2.748968	3.15	81816642	558	30.42409972	6/1/2001		0
2001	6	91.37045	28.99506	81.12727	2.748968	4	735874	445	30.05213684	6/1/2001		0
2001	7	227.4444	100.3373	5.170677	0	1	1.72E+08	143853	30.12420263	7/1/2001	1193.278	0
2001	7	227.4444	100.3373	5.170677	0	2	1.1E+08	25942	30.47689222	7/1/2001	4231.139	0
2001	7	227.4444	100.3373	5.170677	0	3.1	44773780	974	30.5881427	7/1/2001		0
2001	7	227.4444	100.3373	5.170677	0	3.15	71970670	540	30.5881427	7/1/2001		0
2001	7	227.4444	100.3373	5.170677	0	4	758156	446	30.87312413	7/1/2001		0
2001	8	331.3161	183.4936	0	0	1	1.86E+08	143911	29.19304642	8/1/2001	1290.725	0

KPC_Use_Model_Input

YEAR	MONTH	bccd65	bccd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2001	8	331.3161	183.4936	0	0	2	1.13E+08	25971	29.27851677	8/1/2001	4366.474	0
2001	8	331.3161	183.4936	0	0	3.1	48624286	974	30.0284569	8/1/2001		0
2001	8	331.3161	183.4936	0	0	3.15	74362761	540	30.0284569	8/1/2001		0
2001	8	331.3161	183.4936	0	0	4	827130	445	30.44423365	8/1/2001		0
2001	9	257.6503	121.3473	5.0725	0.130903	1	1.76E+08	144012	30.1222198	9/1/2001	1220.538	0
2001	9	257.6503	121.3473	5.0725	0.130903	2	1.14E+08	26078	30.41462405	9/1/2001	4361.4	0
2001	9	257.6503	121.3473	5.0725	0.130903	3.1	45320431	971	30.42656091	9/1/2001		0
2001	9	257.6503	121.3473	5.0725	0.130903	3.15	77168655	540	30.42656091	9/1/2001		0
2001	9	257.6503	121.3473	5.0725	0.130903	4	899978	444	30.20807494	9/1/2001		0
2001	10	63.06263	16.91924	145.7607	27.19515	1	1.41E+08	144138	29.44911056	10/1/2001	976.7007	0
2001	10	63.06263	16.91924	145.7607	27.19515	2	95920901	26151	29.68323264	10/1/2001	3667.963	0
2001	10	63.06263	16.91924	145.7607	27.19515	3.1	41637737	969	30.03211441	10/1/2001		0
2001	10	63.06263	16.91924	145.7607	27.19515	3.15	79536116	546	30.03211441	10/1/2001		0
2001	10	63.06263	16.91924	145.7607	27.19515	4	1004158	444	30.49645297	10/1/2001		0
2001	11	18.65371	3.501661	350.6897	131.2959	1	1.66E+08	144214	29.23652399	11/1/2001	1151.266	0
2001	11	18.65371	3.501661	350.6897	131.2959	2	95928175	26236	29.63305725	11/1/2001	3656.357	0
2001	11	18.65371	3.501661	350.6897	131.2959	3.1	47903742	968	30.18068677	11/1/2001		0
2001	11	18.65371	3.501661	350.6897	131.2959	3.15	86223340	548	30.18068677	11/1/2001		0
2001	11	18.65371	3.501661	350.6897	131.2959	4	1106597	444	30.12532517	11/1/2001		0
2001	12	0.589065	0	447.3618	170.5669	1	2.04E+08	144447	31.98439316	12/1/2001	1414.092	0
2001	12	0.589065	0	447.3618	170.5669	2	1.05E+08	26356	32.14106964	12/1/2001	3975.593	0
2001	12	0.589065	0	447.3618	170.5669	3.1	51823266	964	31.92290406	12/1/2001		0
2001	12	0.589065	0	447.3618	170.5669	3.15	86620465	538	31.92290406	12/1/2001		0
2001	12	0.589065	0	447.3618	170.5669	4	1171000	443	31.2079869	12/1/2001		0
2002	1	0	0	872.2082	573.4216	1	3E+08	144776	32.83575623	1/1/2002	2073.17	0
2002	1	0	0	872.2082	573.4216	2	1.24E+08	26454	32.96778268	1/1/2002	4683.936	0
2002	1	0	0	872.2082	573.4216	3.1	42010862	940	31.7331054	1/1/2002		0
2002	1	0	0	872.2082	573.4216	3.15	1E+08	540	31.7331054	1/1/2002		0
2002	1	0	0	872.2082	573.4216	4	1162628	441	31.5405524	1/1/2002		0
2002	2	0	0	756.2279	472.8879	1	2.42E+08	144635	29.30555432	2/1/2002	1672.432	0
2002	2	0	0	756.2279	472.8879	2	1.08E+08	26430	29.53973602	2/1/2002	4086.971	0
2002	2	0	0	756.2279	472.8879	3.1	46071371	959	29.34345561	2/1/2002		0
2002	2	0	0	756.2279	472.8879	3.15	92788578	542	29.34345561	2/1/2002		0
2002	2	0	0	756.2279	472.8879	4	991174	438	28.73270355	2/1/2002		0
2002	3	1.178129	0	712.8662	420.6902	1	2.32E+08	144570	28.98145151	3/1/2002	1604.874	0
2002	3	1.178129	0	712.8662	420.6902	2	1.07E+08	26967	29.18108366	3/1/2002	3979.302	0

KPC_Use_Model_Input

YEAR	MONTH	bccd65	bccd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2002	3	1.178129	0	712.8662	420.6902	3.1	44121990	964	29.92606081	3/1/2002	0	0
2002	3	1.178129	0	712.8662	420.6902	3.15	87607468	548	29.92606081	3/1/2002	0	0
2002	3	1.178129	0	712.8662	420.6902	4	981060	439	30.54667296	3/1/2002	0	0
2002	4	17.96647	5.236129	466.3427	225.3172	1	1.87E+08	144471	30.04692994	4/1/2002	1295.82	0
2002	4	17.96647	5.236129	466.3427	225.3172	2	1.03E+08	26499	30.19891908	4/1/2002	3869.474	0
2002	4	17.96647	5.236129	466.3427	225.3172	3.1	48312753	956	30.17848256	4/1/2002	0	0
2002	4	17.96647	5.236129	466.3427	225.3172	3.15	83917817	536	30.17848256	4/1/2002	0	0
2002	4	17.96647	5.236129	466.3427	225.3172	4	880087	439	30.13542414	4/1/2002	0	0
2002	5	51.18316	17.21377	222.2737	59.92095	1	1.36E+08	144097	29.41758996	5/1/2002	946.106	0
2002	5	51.18316	17.21377	222.2737	59.92095	2	95971433	26568	29.61339613	5/1/2002	3612.294	0
2002	5	51.18316	17.21377	222.2737	59.92095	3.1	46951722	1017	29.84682511	5/1/2002	0	0
2002	5	51.18316	17.21377	222.2737	59.92095	3.15	74982910	540	29.84682511	5/1/2002	0	0
2002	5	51.18316	17.21377	222.2737	59.92095	4	793915	439	30.25496053	5/1/2002	0	0
2002	6	134.4049	55.86295	117.1911	34.493	1	1.59E+08	144170	30.49014988	6/1/2002	1103.276	0
2002	6	134.4049	55.86295	117.1911	34.493	2	1.05E+08	26594	30.89122135	6/1/2002	3958.843	0
2002	6	134.4049	55.86295	117.1911	34.493	3.1	48056096	962	30.42409972	6/1/2002	0	0
2002	6	134.4049	55.86295	117.1911	34.493	3.15	64761302	530	30.42409972	6/1/2002	0	0
2002	6	134.4049	55.86295	117.1911	34.493	4	741727	439	30.05213684	6/1/2002	0	0
2002	7	308.1135	170.9923	0.62179	0	1	1.96E+08	144163	30.12420263	7/1/2002	1356.212	0
2002	7	308.1135	170.9923	0.62179	0	2	1.17E+08	26774	30.47689222	7/1/2002	4385.546	0
2002	7	308.1135	170.9923	0.62179	0	3.1	45923334	960	30.5881427	7/1/2002	0	0
2002	7	308.1135	170.9923	0.62179	0	3.15	67385377	533	30.5881427	7/1/2002	0	0
2002	7	308.1135	170.9923	0.62179	0	4	778790	439	30.87312413	7/1/2002	0	0
2002	8	391.1388	240.6656	0	0	1	2.06E+08	144235	29.19304642	8/1/2002	1425.291	0
2002	8	391.1388	240.6656	0	0	2	1.19E+08	26798	29.27851677	8/1/2002	4454.368	0
2002	8	391.1388	240.6656	0	0	3.1	50271658	975	30.0284569	8/1/2002	0	0
2002	8	391.1388	240.6656	0	0	3.15	71803238	531	30.0284569	8/1/2002	0	0
2002	8	391.1388	240.6656	0	0	4	839473	438	30.44423365	8/1/2002	0	0
2002	9	345.4863	197.173	0.785419	0	1	1.88E+08	144234	30.1222198	9/1/2002	1301.869	0
2002	9	345.4863	197.173	0.785419	0	2	1.2E+08	26840	30.41462405	9/1/2002	4459.588	0
2002	9	345.4863	197.173	0.785419	0	3.1	48742566	949	30.42656091	9/1/2002	0	0
2002	9	345.4863	197.173	0.785419	0	3.15	74005022	520	30.42656091	9/1/2002	0	0
2002	9	345.4863	197.173	0.785419	0	4	913366	500	30.20807494	9/1/2002	0	0
2002	10	140.001	61.68815	83.15627	12.95942	1	1.45E+08	144277	29.44911056	10/1/2002	1006.367	0
2002	10	140.001	61.68815	83.15627	12.95942	2	1.05E+08	26773	29.68323264	10/1/2002	3918.101	0
2002	10	140.001	61.68815	83.15627	12.95942	3.1	49245270	946	30.03211441	10/1/2002	0	0

KPC_Use_Model_Input

YEAR	MONTH	bccd65	bccd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2002	10	140.001	61.68815	83.15627	12.95942	3.15	75833653	514	30.03211441	10/1/2002		0
2002	10	140.001	61.68815	83.15627	12.95942	4	1024559	440	30.49645297	10/1/2002		0
2002	11	13.90847	4.516161	417.1559	159.342	1	1.62E+08	144470	29.23652399	11/1/2002	1119.832	0
2002	11	13.90847	4.516161	417.1559	159.342	2	96109986	26847	29.63305725	11/1/2002	3579.915	0
2002	11	13.90847	4.516161	417.1559	159.342	3.15	48873164	949	30.18068677	11/1/2002		0
2002	11	13.90847	4.516161	417.1559	159.342	4	1081248	539	30.18068677	11/1/2002		0
2002	11	13.90847	4.516161	417.1559	159.342	4	1081248	440	30.12532517	11/1/2002		0
2002	12	1.832645	0	773.6708	476.1278	1	2.66E+08	144696	31.98439316	12/1/2002	1840.687	0
2002	12	1.832645	0	773.6708	476.1278	2	1.17E+08	26903	32.14106964	12/1/2002	4357.596	0
2002	12	1.832645	0	773.6708	476.1278	3.15	42143412	944	31.92290406	12/1/2002		0
2002	12	1.832645	0	773.6708	476.1278	3.15	86198959	523	31.92290406	12/1/2002		0
2002	12	1.832645	0	773.6708	476.1278	4	1161986	448	31.2079869	12/1/2002		0
2003	1	0	0	867.3648	567.1055	1	3.18E+08	144903	32.83575623	1/1/2003	2194.398	0
2003	1	0	0	867.3648	567.1055	2	1.27E+08	26893	32.96778268	1/1/2003	4710.909	0
2003	1	0	0	867.3648	567.1055	3.1	32840539	942	31.7331054	1/1/2003		0
2003	1	0	0	867.3648	567.1055	3.15	89253807	519	31.7331054	1/1/2003		0
2003	1	0	0	867.3648	567.1055	4	1171230	451	31.5405524	1/1/2003		0
2003	2	0	0	1095.889	792.3245	1	3.04E+08	144848	29.30555432	2/1/2003	2098.001	0
2003	2	0	0	1095.889	792.3245	2	1.23E+08	26858	29.53973602	2/1/2003	4571.437	0
2003	2	0	0	1095.889	792.3245	3.1	28625874	941	29.34345561	2/1/2003		0
2003	2	0	0	1095.889	792.3245	3.15	85657139	516	29.34345561	2/1/2003		0
2003	2	0	0	1095.889	792.3245	4	991122	454	28.73270355	2/1/2003		0
2003	3	0	0	825.3776	534.6742	1	2.47E+08	144700	28.98145151	3/1/2003	1707.985	0
2003	3	0	0	825.3776	534.6742	2	1.1E+08	26904	29.18108366	3/1/2003	4105.361	0
2003	3	0	0	825.3776	534.6742	3.1	27738241	935	29.92606081	3/1/2003		0
2003	3	0	0	825.3776	534.6742	3.15	87814209	549	29.92606081	3/1/2003		0
2003	3	0	0	825.3776	534.6742	4	978688	455	30.54667296	3/1/2003		0
2003	4	15.44658	0	358.0203	141.3428	1	1.65E+08	144415	30.04692994	4/1/2003	1143.625	0
2003	4	15.44658	0	358.0203	141.3428	2	98087839	26912	30.19891908	4/1/2003	3644.762	0
2003	4	15.44658	0	358.0203	141.3428	3.1	26252145	968	30.17848256	4/1/2003		0
2003	4	15.44658	0	358.0203	141.3428	3.15	74955865	525	30.17848256	4/1/2003		0
2003	4	15.44658	0	358.0203	141.3428	4	867148	447	30.13542414	4/1/2003		0
2003	5	38.48555	3.174403	162.2545	30.5659	1	1.35E+08	144250	29.41758996	5/1/2003	934.722	0
2003	5	38.48555	3.174403	162.2545	30.5659	2	98693053	26961	29.61339613	5/1/2003	3660.586	0
2003	5	38.48555	3.174403	162.2545	30.5659	3.1	27347589	933	29.84682511	5/1/2003		0
2003	5	38.48555	3.174403	162.2545	30.5659	3.15	73486430	516	29.84682511	5/1/2003		0

KPC_Use_Model_Input

YEAR	MONTH	bccd65	bccd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2003	5	38.48555	3.174403	162.2545	30.5659	4	798937	447	30.25496053	5/1/2003	0	0
2003	6	52.32856	12.53398	70.81865	0	1	1.37E+08	144177	30.49014988	6/1/2003	947.9526	0
2003	6	52.32856	12.53398	70.81865	0	2	1.02E+08	27000	30.89122135	6/1/2003	3785.701	0
2003	6	52.32856	12.53398	70.81865	0	3.1	26772073	929	30.42409972	6/1/2003	0	0
2003	6	52.32856	12.53398	70.81865	0	3.15	71230186	518	30.42409972	6/1/2003	0	0
2003	6	52.32856	12.53398	70.81865	0	4	742143	446	30.05213684	6/1/2003	0	0
2003	7	220.2774	93.82489	9.425032	0	1	1.75E+08	144130	30.29390599	7/1/2003	1211.8	0
2003	7	220.2774	93.82489	9.425032	0	2	1.13E+08	27038	30.86337504	7/1/2003	4170.266	0
2003	7	220.2774	93.82489	9.425032	0	3.1	27807322	931	30.86322741	7/1/2003	0	0
2003	7	220.2774	93.82489	9.425032	0	3.15	66954414	509	30.86322741	7/1/2003	0	0
2003	7	220.2774	93.82489	9.425032	0	4	764746	446	31.01139469	7/1/2003	0	0
2003	8	262.7882	116.733	0	0	1	1.79E+08	144290	28.83001091	8/1/2003	1243.867	0
2003	8	262.7882	116.733	0	0	2	1.13E+08	27940	29.00116669	8/1/2003	4029.59	0
2003	8	262.7882	116.733	0	0	3.1	28115282	924	29.86990137	8/1/2003	0	0
2003	8	262.7882	116.733	0	0	3.15	69785215	517	29.86990137	8/1/2003	0	0
2003	8	262.7882	116.733	0	0	4	825765	447	30.42665468	8/1/2003	0	0
2003	9	251.0724	121.5436	2.454435	0	1	1.82E+08	144411	30.31452546	9/1/2003	1260.932	0
2003	9	251.0724	121.5436	2.454435	0	2	1.2E+08	27992	30.31790893	9/1/2003	4297.225	0
2003	9	251.0724	121.5436	2.454435	0	3.1	22295395	920	30.26432511	9/1/2003	0	0
2003	9	251.0724	121.5436	2.454435	0	3.15	72962868	512	30.26432511	9/1/2003	0	0
2003	9	251.0724	121.5436	2.454435	0	4	902695	445	30.0723287	9/1/2003	0	0
2003	10	36.62018	4.221629	150.2769	35.6384	1	1.4E+08	144406	29.51032338	10/1/2003	967.0794	0
2003	10	36.62018	4.221629	150.2769	35.6384	2	1.01E+08	28029	29.97690026	10/1/2003	3620.641	0
2003	10	36.62018	4.221629	150.2769	35.6384	3.1	31828316	916	30.18006441	10/1/2003	0	0
2003	10	36.62018	4.221629	150.2769	35.6384	3.15	74077646	502	30.18006441	10/1/2003	0	0
2003	10	36.62018	4.221629	150.2769	35.6384	4	1009775	445	30.76597567	10/1/2003	0	0
2003	11	8.639613	0	291.8487	98.63558	1	1.53E+08	144466	29.06951233	11/1/2003	1060.486	0
2003	11	8.639613	0	291.8487	98.63558	2	96076452	28046	29.4095236	11/1/2003	3425.674	0
2003	11	8.639613	0	291.8487	98.63558	3.1	27164886	922	29.82944309	11/1/2003	0	0
2003	11	8.639613	0	291.8487	98.63558	3.15	77953562	515	29.82944309	11/1/2003	0	0
2003	11	8.639613	0	291.8487	98.63558	4	1049780	445	29.9856728	11/1/2003	0	0
2003	12	0.981774	0	622.3139	345.9772	1	2.5E+08	144850	31.97092721	12/1/2003	1727.644	0
2003	12	0.981774	0	622.3139	345.9772	2	1.16E+08	28110	32.20918778	12/1/2003	4127.078	0
2003	12	0.981774	0	622.3139	345.9772	3.1	25807073	943	32.49130598	12/1/2003	0	0
2003	12	0.981774	0	622.3139	345.9772	3.15	83776077	533	32.49130598	12/1/2003	0	0
2003	12	0.981774	0	622.3139	345.9772	4	1122778	444	31.16965195	12/1/2003	0	0

KPC_Use_Model_Input

YEAR	MONTH	bccd65	bccd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2004	1	0.785419	0	852.2127	558.7277	1	3.23E+08	145096	32.89804073	1/1/2004	2228.905	0
2004	1	0.785419	0	852.2127	558.7277	2	1.31E+08	28131	33.07882645	1/1/2004	4666.07	0
2004	1	0.785419	0	852.2127	558.7277	3.1	25401537	938	31.86000627	1/1/2004		0
2004	1	0.785419	0	852.2127	558.7277	3.15	85863580	530	31.86000627	1/1/2004		0
2004	1	0.785419	0	852.2127	558.7277	4	1185525	443	31.61935952	1/1/2004		0
2004	2	0.261806	0	1020.325	719.7714	1	3.07E+08	144846	29.35661581	2/1/2004	2116.279	0
2004	2	0.261806	0	1020.325	719.7714	2	1.25E+08	28104	29.50676808	2/1/2004	4454.941	0
2004	2	0.261806	0	1020.325	719.7714	3.1	23687841	938	29.11884931	2/1/2004		0
2004	2	0.261806	0	1020.325	719.7714	3.15	85465096	528	29.11884931	2/1/2004		0
2004	2	0.261806	0	1020.325	719.7714	4	978205	442	29.19712971	2/1/2004		0
2004	3	2.356258	0	711.1645	418.0067	1	2.31E+08	144789	28.95241592	3/1/2004	1593.278	0
2004	3	2.356258	0	711.1645	418.0067	2	1.09E+08	28127	29.21813214	3/1/2004	3884.1	0
2004	3	2.356258	0	711.1645	418.0067	3.1	22297694	937	30.33452273	3/1/2004		0
2004	3	2.356258	0	711.1645	418.0067	3.15	81301309	523	30.33452273	3/1/2004		0
2004	3	2.356258	0	711.1645	418.0067	4	969434	441	30.46747435	3/1/2004		0
2004	4	13.0576	1.472661	457.2122	231.0442	1	1.87E+08	144670	30.22186637	4/1/2004	1292.408	0
2004	4	13.0576	1.472661	457.2122	231.0442	2	1.06E+08	28166	30.55924492	4/1/2004	3764.788	0
2004	4	13.0576	1.472661	457.2122	231.0442	3.1	8533012	938	30.00382037	4/1/2004		0
2004	4	13.0576	1.472661	457.2122	231.0442	3.15	79987020	523	30.00382037	4/1/2004		0
2004	4	13.0576	1.472661	457.2122	231.0442	4	865909	439	30.22895913	4/1/2004		0
2004	5	72.52039	21.69721	175.1158	57.13926	1	1.46E+08	144359	29.32977886	5/1/2004	1010.219	0
2004	5	72.52039	21.69721	175.1158	57.13926	2	1.03E+08	28189	29.61446972	5/1/2004	3650.134	0
2004	5	72.52039	21.69721	175.1158	57.13926	3.1	40431547	942	29.84101017	5/1/2004		0
2004	5	72.52039	21.69721	175.1158	57.13926	3.15	72809938	528	29.84101017	5/1/2004		0
2004	5	72.52039	21.69721	175.1158	57.13926	4	757310	439	30.49615937	5/1/2004		0
2004	6	198.9729	81.61816	14.66116	3.959823	1	1.66E+08	144117	30.82057616	6/1/2004	1153.825	0
2004	6	198.9729	81.61816	14.66116	3.959823	2	1.18E+08	28233	31.19064898	6/1/2004	4162.507	0
2004	6	198.9729	81.61816	14.66116	3.959823	3.1	23419812	934	30.61899521	6/1/2004		0
2004	6	198.9729	81.61816	14.66116	3.959823	3.15	70299843	518	30.61899521	6/1/2004		0
2004	6	198.9729	81.61816	14.66116	3.959823	4	724943	439	30.26297448	6/1/2004		0
2004	7	254.3122	126.3216	1.570839	0	1	1.86E+08	144037	30.37168349	7/1/2004	1290.174	0
2004	7	254.3122	126.3216	1.570839	0	2	1.19E+08	28321	30.54495655	7/1/2004	4200.984	0
2004	7	254.3122	126.3216	1.570839	0	3.1	24151705	935	30.43223321	7/1/2004		0
2004	7	254.3122	126.3216	1.570839	0	3.15	63345192	517	30.43223321	7/1/2004		0
2004	7	254.3122	126.3216	1.570839	0	4	746664	442	30.99328234	7/1/2004		0
2004	8	251.0069	118.5001	3.239855	0	1	1.74E+08	144066	29.01265351	8/1/2004	1207.89	0

KPC_Use_Model_Input

YEAR	MONTH	bccd65	bccd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2004	8	251.0069	118.5001	3.239855	0	2	1.14E+08	28361	29.31957963	8/1/2004	4035.252	0
2004	8	251.0069	118.5001	3.239855	0	3.1	24158910	933	30.42453505	8/1/2004		0
2004	8	251.0069	118.5001	3.239855	0	3.15	68427463	517	30.42453505	8/1/2004		0
2004	8	251.0069	118.5001	3.239855	0	4	809509	444	30.52103318	8/1/2004		0
2004	9	220.081	94.25032	5.203403	0	1	1.67E+08	144081	29.75675756	9/1/2004	1160.798	0
2004	9	220.081	94.25032	5.203403	0	2	1.17E+08	28421	29.96771584	9/1/2004	4127.901	0
2004	9	220.081	94.25032	5.203403	0	3.1	23860831	932	30.38800429	9/1/2004		0
2004	9	220.081	94.25032	5.203403	0	3.15	67619129	516	30.38800429	9/1/2004		0
2004	9	220.081	94.25032	5.203403	0	4	885947	444	30.09975313	9/1/2004		0
2004	10	65.41889	12.07582	101.4827	9.686839	1	1.41E+08	144159	29.57961326	10/1/2004	977.2781	0
2004	10	65.41889	12.07582	101.4827	9.686839	2	1.06E+08	28472	29.99069741	10/1/2004	3717.885	0
2004	10	65.41889	12.07582	101.4827	9.686839	3.1	24615737	933	30.08098882	10/1/2004		0
2004	10	65.41889	12.07582	101.4827	9.686839	3.15	69814465	512	30.08098882	10/1/2004		0
2004	10	65.41889	12.07582	101.4827	9.686839	4	996735	444	30.74244419	10/1/2004		0
2004	11	13.0576	2.65079	245.509	62.44084	1	1.44E+08	144360	29.03878993	11/1/2004	1000.908	0
2004	11	13.0576	2.65079	245.509	62.44084	2	98730455	28442	29.18478311	11/1/2004	3471.291	0
2004	11	13.0576	2.65079	245.509	62.44084	3.1	25621811	923	29.61340669	11/1/2004		0
2004	11	13.0576	2.65079	245.509	62.44084	3.15	71769906	520	29.61340669	11/1/2004		0
2004	11	13.0576	2.65079	245.509	62.44084	4	1051727	444	29.88480883	11/1/2004		0
2004	12	1.898097	0.294532	565.0765	288.0198	1	2.37E+08	144623	32.42669171	12/1/2004	1636.978	0
2004	12	1.898097	0.294532	565.0765	288.0198	2	1.18E+08	28496	32.4958757	12/1/2004	4123.839	0
2004	12	1.898097	0.294532	565.0765	288.0198	3.1	29380533	928	32.68081211	12/1/2004		0
2004	12	1.898097	0.294532	565.0765	288.0198	3.15	81530181	515	32.68081211	12/1/2004		0
2004	12	1.898097	0.294532	565.0765	288.0198	4	1157776	442	31.37339552	12/1/2004		0
2005	1	0	0	772.4272	487.8436	1	3E+08	144900	32.73432321	1/1/2005	2070.073	0
2005	1	0	0	772.4272	487.8436	2	1.3E+08	28555	32.68588331	1/1/2005	4549.947	0
2005	1	0	0	772.4272	487.8436	3.1	27535254	932	31.25193476	1/1/2005		0
2005	1	0	0	772.4272	487.8436	3.15	83336282	518	31.25193476	1/1/2005		0
2005	1	0	0	772.4272	487.8436	4	1145090	445	31.43818485	1/1/2005		0
2005	2	0	0	876.8225	585.5629	1	2.82E+08	144415	29.31826873	2/1/2005	1949.463	0
2005	2	0	0	876.8225	585.5629	2	1.25E+08	28492	29.63610834	2/1/2005	4370.237	0
2005	2	0	0	876.8225	585.5629	3.1	42930055	928	29.51822097	2/1/2005		0
2005	2	0	0	876.8225	585.5629	3.15	81043614	515	29.51822097	2/1/2005		0
2005	2	0	0	876.8225	585.5629	4	966727	441	28.43899336	2/1/2005		0
2005	3	0	0	804.0894	499.7394	1	2.57E+08	145259	29.22834795	3/1/2005	1771.888	0
2005	3	0	0	804.0894	499.7394	2	1.18E+08	28726	29.44491561	3/1/2005	4098.672	0

KPC_Use_Model_Input

YEAR	MONTH	bccd65	bccd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2005	3	0	0	804.0894	499.7394	3.1	10286469	941	30.00930455	3/1/2005	0	0
2005	3	0	0	804.0894	499.7394	3.15	86878562	521	30.00930455	3/1/2005	0	0
2005	3	0	0	804.0894	499.7394	4	955970	445	30.72201351	3/1/2005	0	0
2005	4	5.857919	0	468.8135	232.2714	1	1.9E+08	144955	30.30200473	4/1/2005	1308.931	0
2005	4	5.857919	0	468.8135	232.2714	2	1.09E+08	28742	30.42241297	4/1/2005	3782.338	0
2005	4	5.857919	0	468.8135	232.2714	3.1	25229035	928	30.65980777	4/1/2005	0	0
2005	4	5.857919	0	468.8135	232.2714	3.15	76224559	507	30.65980777	4/1/2005	0	0
2005	4	5.857919	0	468.8135	232.2714	4	793649	451	30.09219331	4/1/2005	0	0
2005	5	21.56631	3.976185	237.5566	67.10427	1	1.47E+08	144302	29.16793586	5/1/2005	1021.338	0
2005	5	21.56631	3.976185	237.5566	67.10427	2	1E+08	28820	29.14480093	5/1/2005	3472.986	0
2005	5	21.56631	3.976185	237.5566	67.10427	3.1	23903501	931	29.22780186	5/1/2005	0	0
2005	5	21.56631	3.976185	237.5566	67.10427	3.15	74730971	498	29.22780186	5/1/2005	0	0
2005	5	21.56631	3.976185	237.5566	67.10427	4	685653	443	30.58775404	5/1/2005	0	0
2005	6	125.8798	62.47356	74.28758	9.146863	1	1.54E+08	144342	30.50766415	6/1/2005	1069.231	0
2005	6	125.8798	62.47356	74.28758	9.146863	2	1.13E+08	28921	31.11115178	6/1/2005	3891.563	0
2005	6	125.8798	62.47356	74.28758	9.146863	3.1	26090791	933	30.17641497	6/1/2005	0	0
2005	6	125.8798	62.47356	74.28758	9.146863	3.15	78286605	518	30.17641497	6/1/2005	0	0
2005	6	125.8798	62.47356	74.28758	9.146863	4	616908	444	30.39251804	6/1/2005	0	0
2005	7	358.4458	215.1395	0.245444	0	1	1.92E+08	144274	30.09963326	7/1/2005	1333.321	0
2005	7	358.4458	215.1395	0.245444	0	2	1.23E+08	28896	30.35524461	7/1/2005	4271.888	0
2005	7	358.4458	215.1395	0.245444	0	3.1	26379085	929	30.78452552	7/1/2005	0	0
2005	7	358.4458	215.1395	0.245444	0	3.15	64597478	511	30.78452552	7/1/2005	0	0
2005	7	358.4458	215.1395	0.245444	0	4	637749	445	30.81334187	7/1/2005	0	0
2005	8	457.3104	305.299	0	0	1	2.11E+08	144231	29.48987458	8/1/2005	1460.081	0
2005	8	457.3104	305.299	0	0	2	1.29E+08	28995	29.36106541	8/1/2005	4432.849	0
2005	8	457.3104	305.299	0	0	3.1	29771791	934	30.06839193	8/1/2005	0	0
2005	8	457.3104	305.299	0	0	3.15	69035981	522	30.06839193	8/1/2005	0	0
2005	8	457.3104	305.299	0	0	4	715222	385	30.79657108	8/1/2005	0	0
2005	9	344.6682	195.2422	0	0	1	1.93E+08	144191	30.14650088	9/1/2005	1336.066	0
2005	9	344.6682	195.2422	0	0	2	1.29E+08	29068	30.56748527	9/1/2005	4453.444	0
2005	9	344.6682	195.2422	0	0	3.1	24832705	936	30.18393293	9/1/2005	0	0
2005	9	344.6682	195.2422	0	0	3.15	72065965	513	30.18393293	9/1/2005	0	0
2005	9	344.6682	195.2422	0	0	4	694084	381	30.09381907	9/1/2005	0	0
2005	10	158.7365	59.97004	46.51973	5.710653	1	1.49E+08	144223	29.16350893	10/1/2005	1033.744	0
2005	10	158.7365	59.97004	46.51973	5.710653	2	1.13E+08	29079	29.41398954	10/1/2005	3881.19	0
2005	10	158.7365	59.97004	46.51973	5.710653	3.1	34484608	937	30.13959301	10/1/2005	0	0

KPC_Use_Model_Input

YEAR	MONTH	bccd65	bccd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2005	10	158.7365	59.97004	46.51973	5.710653	3.15	71250429	516	30.13959301	10/1/2005		0
2005	10	158.7365	59.97004	46.51973	5.710653	4	801159	381	30.76237689	10/1/2005		0
2005	11	9.997734	1.40721	353.8151	143.9445	1	1.62E+08	144419	29.40777441	11/1/2005	1120.136	0
2005	11	9.997734	1.40721	353.8151	143.9445	2	1.06E+08	29040	30.01907326	11/1/2005	3647.65	0
2005	11	9.997734	1.40721	353.8151	143.9445	3.15	26102644	935	30.22455594	11/1/2005		0
2005	11	9.997734	1.40721	353.8151	143.9445	4	1108078	506	30.22455594	11/1/2005		0
2005	11	9.997734	1.40721	353.8151	143.9445	1	2.75E+08	144641	31.82538972	12/1/2005	1900.439	0
2005	12	1.472661	0	765.0312	488.5472	2	1.27E+08	29064	32.14322626	12/1/2005	4383.232	0
2005	12	1.472661	0	765.0312	488.5472	3.1	29839382	940	31.86906579	12/1/2005		0
2005	12	1.472661	0	765.0312	488.5472	3.15	94027180	506	31.86906579	12/1/2005		0
2005	12	1.472661	0	765.0312	488.5472	4	1026580	382	31.1639429	12/1/2005		0
2006	1	0	0	791.3591	487.7781	1	3.2E+08	144830	32.99815288	1/1/2006	2207.723	0
2006	1	0	0	791.3591	487.7781	2	1.35E+08	29121	33.05543149	1/1/2006	4652.746	0
2006	1	0	0	791.3591	487.7781	3.1	29052471	947	31.79117503	1/1/2006		0
2006	1	0	0	791.3591	487.7781	3.15	86184052	505	31.79117503	1/1/2006		0
2006	1	0	0	791.3591	487.7781	4	1024727	380	31.46969106	1/1/2006		0
2006	2	0	0	715.4352	415.045	1	2.61E+08	144530	29.45074323	2/1/2006	1804.836	0
2006	2	0	0	715.4352	415.045	2	1.21E+08	29047	29.84730034	2/1/2006	4162.81	0
2006	2	0	0	715.4352	415.045	3.1	36707291	938	29.56341395	2/1/2006		0
2006	2	0	0	715.4352	415.045	3.15	88996178	504	29.56341395	2/1/2006		0
2006	2	0	0	715.4352	415.045	4	888697	381	28.39495927	2/1/2006		0
2006	3	1.374484	0	758.1588	469.9099	1	2.36E+08	145013	28.6445947	3/1/2006	1626.827	0
2006	3	1.374484	0	758.1588	469.9099	2	1.13E+08	29187	28.66821515	3/1/2006	3887.944	0
2006	3	1.374484	0	758.1588	469.9099	3.1	17546543	952	29.41924684	3/1/2006		0
2006	3	1.374484	0	758.1588	469.9099	3.15	86376988	509	29.41924684	3/1/2006		0
2006	3	1.374484	0	758.1588	469.9099	4	858144	383	30.63370507	3/1/2006		0
2006	4	16.55926	3.321669	469.2881	244.1672	1	1.82E+08	144560	28.66317326	4/1/2006	1262.416	0
2006	4	16.55926	3.321669	469.2881	244.1672	2	1.05E+08	29148	28.87768459	4/1/2006	3589.598	0
2006	4	16.55926	3.321669	469.2881	244.1672	3.1	25570463	945	29.49903845	4/1/2006		0
2006	4	16.55926	3.321669	469.2881	244.1672	3.15	78944505	499	29.49903845	4/1/2006		0
2006	4	16.55926	3.321669	469.2881	244.1672	4	742075	381	29.74893815	4/1/2006		0
2006	5	27.8333	5.154315	142.57	19.9791	1	1.36E+08	144258	29.8210774	5/1/2006	940.1546	0
2006	5	27.8333	5.154315	142.57	19.9791	2	1.04E+08	29245	29.96965741	5/1/2006	3552.679	0
2006	5	27.8333	5.154315	142.57	19.9791	3.1	22014084	942	29.5177419	5/1/2006		0
2006	5	27.8333	5.154315	142.57	19.9791	3.15	72626592	497	29.5177419	5/1/2006		0

KPC_Use_Model_Input

YEAR	MONTH	bcdd65	bcdd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2006	5	27.8333	5.154315	142.57	19.9791	4	659439	379	30.85319535	5/1/2006		0
2006	6	105.3116	39.92548	86.5434	3.861645	1	1.52E+08	144120	30.45924689	6/1/2006	1057.778	0
2006	6	105.3116	39.92548	86.5434	3.861645	2	1.12E+08	29278	30.96539767	6/1/2006	3826.03	0
2006	6	105.3116	39.92548	86.5434	3.861645	3.1	31645761	954	30.68741145	6/1/2006		0
2006	6	105.3116	39.92548	86.5434	3.861645	3.15	73558202	499	30.68741145	6/1/2006		0
2006	6	105.3116	39.92548	86.5434	3.861645	4	609885	380	30.26579056	6/1/2006		0
2006	7	260.1865	129.1197	2.945323	0	1	1.83E+08	144118	30.19506356	7/1/2006	1271.277	0
2006	7	260.1865	129.1197	2.945323	0	2	1.22E+08	29279	30.63196915	7/1/2006	4161.478	0
2006	7	260.1865	129.1197	2.945323	0	3.1	28118323	946	30.76517279	7/1/2006		0
2006	7	260.1865	129.1197	2.945323	0	3.15	67682053	505	30.76517279	7/1/2006		0
2006	7	260.1865	129.1197	2.945323	0	4	635988	381	30.95578444	7/1/2006		0
2006	8	410.1525	260.3829	0	0	1	2.05E+08	144248	28.97764523	8/1/2006	1424.174	0
2006	8	410.1525	260.3829	0	0	2	1.26E+08	29339	28.80993701	8/1/2006	4287.821	0
2006	8	410.1525	260.3829	0	0	3.1	26498756	941	29.97746177	8/1/2006		0
2006	8	410.1525	260.3829	0	0	3.15	70214240	510	29.97746177	8/1/2006		0
2006	8	410.1525	260.3829	0	0	4	711119	381	30.68295524	8/1/2006		0
2006	9	260.7756	142.7336	11.27404	0.916323	1	1.81E+08	144269	30.28493272	9/1/2006	1255.082	0
2006	9	260.7756	142.7336	11.27404	0.916323	2	1.27E+08	29384	30.86706245	9/1/2006	4337.341	0
2006	9	260.7756	142.7336	11.27404	0.916323	3.1	27315712	941	30.70164458	9/1/2006		0
2006	9	260.7756	142.7336	11.27404	0.916323	3.15	75348482	508	30.70164458	9/1/2006		0
2006	9	260.7756	142.7336	11.27404	0.916323	4	784628	379	30.08968432	9/1/2006		0
2006	10	36.76744	3.927097	154.5313	37.9783	1	1.4E+08	144313	29.72338141	10/1/2006	971.2379	0
2006	10	36.76744	3.927097	154.5313	37.9783	2	1.07E+08	29597	29.64891681	10/1/2006	3618.29	0
2006	10	36.76744	3.927097	154.5313	37.9783	3.1	27468247	941	30.08372557	10/1/2006		0
2006	10	36.76744	3.927097	154.5313	37.9783	3.15	74890989	511	30.08372557	10/1/2006		0
2006	10	36.76744	3.927097	154.5313	37.9783	4	909381	379	30.81566233	10/1/2006		0
2006	11	2.53625	0.523613	459.683	209.2161	1	1.78E+08	144545	28.98546665	11/1/2006	1232.087	0
2006	11	2.53625	0.523613	459.683	209.2161	2	1.06E+08	29433	29.5718046	11/1/2006	3597.163	0
2006	11	2.53625	0.523613	459.683	209.2161	3.1	25250942	944	30.50539357	11/1/2006		0
2006	11	2.53625	0.523613	459.683	209.2161	3.15	81432231	507	30.50539357	11/1/2006		0
2006	11	2.53625	0.523613	459.683	209.2161	4	953147	380	29.90275777	11/1/2006		0
2006	12	2.65079	0	611.3508	329.9252	1	2.57E+08	144554	31.71849607	12/1/2006	1774.978	0
2006	12	2.65079	0	611.3508	329.9252	2	1.21E+08	29354	31.74469165	12/1/2006	4132.063	0
2006	12	2.65079	0	611.3508	329.9252	3.1	29196648	944	31.35361108	12/1/2006		0
2006	12	2.65079	0	611.3508	329.9252	3.15	86496578	503	31.35361108	12/1/2006		0
2006	12	2.65079	0	611.3508	329.9252	4	1039977	380	30.99287874	12/1/2006		0

KPC_Use_Model_Input

YEAR	MONTH	bcdd65	bcdd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2007	1	0.294532	0	651.1454	354.0605	1	2.74E+08	144815	32.74613048	1/1/2007	1894.407	0
2007	1	0.294532	0	651.1454	354.0605	2	1.27E+08	29460	32.95469914	1/1/2007	4316.761	0
2007	1	0.294532	0	651.1454	354.0605	3.1	45584929	949	32.07771135	1/1/2007		0
2007	1	0.294532	0	651.1454	354.0605	3.15	82579153	500	32.07771135	1/1/2007		0
2007	1	0.294532	0	651.1454	354.0605	4	1039065	378	31.28988797	1/1/2007		0
2007	2	0	0	1012.144	712.2772	1	3.21E+08	144843	29.15659043	2/1/2007	2214.653	0
2007	2	0	0	1012.144	712.2772	2	1.32E+08	29416	29.34591208	2/1/2007	4492.871	0
2007	2	0	0	1012.144	712.2772	3.1	13446420	943	29.24756586	2/1/2007		0
2007	2	0	0	1012.144	712.2772	3.15	87263813	493	29.24756586	2/1/2007		0
2007	2	0	0	1012.144	712.2772	4	883288	376	28.31837854	2/1/2007		0
2007	3	2.258081	0.081815	890.191	601.1894	1	2.67E+08	144494	28.98987993	3/1/2007	1845.838	0
2007	3	2.258081	0.081815	890.191	601.1894	2	1.22E+08	29460	29.09363403	3/1/2007	4145.127	0
2007	3	2.258081	0.081815	890.191	601.1894	3.1	25673293	938	30.04954513	3/1/2007		0
2007	3	2.258081	0.081815	890.191	601.1894	3.15	81763478	497	30.04954513	3/1/2007		0
2007	3	2.258081	0.081815	890.191	601.1894	4	869098	376	30.71104325	3/1/2007		0
2007	4	29.4205	2.994411	392.9551	207.8252	1	1.83E+08	144179	30.59399027	4/1/2007	1270.903	0
2007	4	29.4205	2.994411	392.9551	207.8252	2	1.13E+08	29427	30.79881755	4/1/2007	3826.304	0
2007	4	29.4205	2.994411	392.9551	207.8252	3.1	28799826	935	30.24432179	4/1/2007		0
2007	4	29.4205	2.994411	392.9551	207.8252	3.15	76607403	488	30.24432179	4/1/2007		0
2007	4	29.4205	2.994411	392.9551	207.8252	4	751038	374	30.13104101	4/1/2007		0
2007	5	51.0359	8.361444	211.4251	78.36194	1	1.5E+08	143841	29.71183456	5/1/2007	1045.1	0
2007	5	51.0359	8.361444	211.4251	78.36194	2	1.09E+08	29570	30.02799106	5/1/2007	3702.272	0
2007	5	51.0359	8.361444	211.4251	78.36194	3.1	23574134	931	30.31274404	5/1/2007		0
2007	5	51.0359	8.361444	211.4251	78.36194	3.15	70193314	484	30.31274404	5/1/2007		0
2007	5	51.0359	8.361444	211.4251	78.36194	4	676558	374	29.21357826	5/1/2007		0
2007	6	180.4337	70.42594	40.92362	3.223492	1	1.65E+08	143743	30.18442343	6/1/2007	1145.912	0
2007	6	180.4337	70.42594	40.92362	3.223492	2	1.18E+08	29678	30.43058715	6/1/2007	3971.275	0
2007	6	180.4337	70.42594	40.92362	3.223492	3.1	31100581	944	30.23150997	6/1/2007		0
2007	6	180.4337	70.42594	40.92362	3.223492	3.15	67167863	481	30.23150997	6/1/2007		0
2007	6	180.4337	70.42594	40.92362	3.223492	4	563168	373	29.44078808	6/1/2007		0
2007	7	293.4687	147.6588	0	0	1	1.83E+08	143666	29.65501117	7/1/2007	1271.358	0
2007	7	293.4687	147.6588	0	0	2	1.22E+08	29736	30.11776512	7/1/2007	4112.195	0
2007	7	293.4687	147.6588	0	0	3.1	23135114	941	30.03076866	7/1/2007		0
2007	7	293.4687	147.6588	0	0	3.15	62392397	491	30.03076866	7/1/2007		0
2007	7	293.4687	147.6588	0	0	4	529233	372	30.45980938	7/1/2007		0
2007	8	344.0464	199.6438	0	0	1	1.94E+08	143970	29.23693605	8/1/2007	1344.389	0

KPC_Use_Model_Input

YEAR	MONTH	bccd65	bccd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2007	8	344.0464	199.6438	0	0	2	1.25E+08	29828	29.35278207	8/1/2007	4194.292	0
2007	8	344.0464	199.6438	0	0	3.1	25468260	941	30.43932171	8/1/2007		0
2007	8	344.0464	199.6438	0	0	3.15	65648050	490	30.43932171	8/1/2007		0
2007	8	344.0464	199.6438	0	0	4	457458	365	30.57461141	8/1/2007		0
2007	9	379.4557	237.2457	5.727016	0	1	2.08E+08	144118	30.11877711	9/1/2007	1445.614	0
2007	9	379.4557	237.2457	5.727016	0	2	1.35E+08	29876	30.39758798	9/1/2007	4524.661	0
2007	9	379.4557	237.2457	5.727016	0	3.1	37284191	942	30.58261115	9/1/2007		0
2007	9	379.4557	237.2457	5.727016	0	3.15	68700744	485	30.58261115	9/1/2007		0
2007	9	379.4557	237.2457	5.727016	0	4	1269346	388	30.49225463	9/1/2007		0
2007	10	176.3103	86.52703	48.31965	6.59425	1	1.54E+08	144087	29.36019699	10/1/2007	1068.75	0
2007	10	176.3103	86.52703	48.31965	6.59425	2	1.17E+08	29925	29.64791229	10/1/2007	3900.932	0
2007	10	176.3103	86.52703	48.31965	6.59425	3.1	64118978	936	29.54948455	10/1/2007		0
2007	10	176.3103	86.52703	48.31965	6.59425	3.15	67941933	480	29.54948455	10/1/2007		0
2007	10	176.3103	86.52703	48.31965	6.59425	4	976250	377	30.07159128	10/1/2007		0
2007	11	29.89502	11.91219	332.0851	128.7597	1	1.64E+08	144181	29.79921161	11/1/2007	1140.306	0
2007	11	29.89502	11.91219	332.0851	128.7597	2	1.09E+08	29935	30.07807471	11/1/2007	3638.874	0
2007	11	29.89502	11.91219	332.0851	128.7597	3.1	-19235	937	31.00186769	11/1/2007		0
2007	11	29.89502	11.91219	332.0851	128.7597	3.15	72709044	476	31.00186769	11/1/2007		0
2007	11	29.89502	11.91219	332.0851	128.7597	4	911564	374	31.26916309	11/1/2007		0
2007	12	0	0	649.7709	366.3981	1	2.44E+08	144542	31.9804611	12/1/2007	1690.171	0
2007	12	0	0	649.7709	366.3981	2	1.23E+08	29922	32.11236679	12/1/2007	4104.967	0
2007	12	0	0	649.7709	366.3981	3.1	31903494	935	31.21972537	12/1/2007		0
2007	12	0	0	649.7709	366.3981	3.15	79162714	471	31.21972537	12/1/2007		0
2007	12	0	0	649.7709	366.3981	4	1089287	373	31.34006539	12/1/2007		0
2008	1	0	0	790.5409	497.9886	1	3.06E+08	144825	32.80213385	1/1/2008	2114.912	0
2008	1	0	0	790.5409	497.9886	2	1.36E+08	29969	33.06407303	1/1/2008	4537.64	0
2008	1	0	0	790.5409	497.9886	3.1	30910789	937	31.6846996	1/1/2008		0
2008	1	0	0	790.5409	497.9886	3.15	84478260	473	31.6846996	1/1/2008		0
2008	1	0	0	790.5409	497.9886	4	1099924	380	31.88563862	1/1/2008		0
2008	2	0	0	901.6778	607.8164	1	2.9E+08	144690	29.24555342	2/1/2008	2006.611	0
2008	2	0	0	901.6778	607.8164	2	1.29E+08	29955	29.36259128	2/1/2008	4298.883	0
2008	2	0	0	901.6778	607.8164	3.1	33433439	940	29.26922797	2/1/2008		0
2008	2	0	0	901.6778	607.8164	3.15	82790927	475	29.26922797	2/1/2008		0
2008	2	0	0	901.6778	607.8164	4	939135	379	29.3140569	2/1/2008		0
2008	3	0	0	816.0671	519.7349	1	2.61E+08	144365	29.09201907	3/1/2008	1805.065	0
2008	3	0	0	816.0671	519.7349	2	1.23E+08	29975	29.48052138	3/1/2008	4092.693	0

KPC_Use_Model_Input

YEAR	MONTH	bcdd65	bcdd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2008	3	0	0	816.0671	519.7349	3.1	29783572	952	29.81768482	3/1/2008	0	0
2008	3	0	0	816.0671	519.7349	3.15	78877911	469	29.81768482	3/1/2008	0	0
2008	3	0	0	816.0671	519.7349	4	897117	376	30.19912861	3/1/2008	0	0
2008	4	1.439935	0.065452	494.8633	234.235	1	1.93E+08	143988	30.45361505	4/1/2008	1341.179	0
2008	4	1.439935	0.065452	494.8633	234.235	2	1.13E+08	30023	30.3364354	4/1/2008	3758.422	0
2008	4	1.439935	0.065452	494.8633	234.235	3.1	26974603	947	30.48542445	4/1/2008	0	0
2008	4	1.439935	0.065452	494.8633	234.235	3.15	77236954	462	30.48542445	4/1/2008	0	0
2008	4	1.439935	0.065452	494.8633	234.235	4	815643	383	30.47598908	4/1/2008	0	0
2008	5	18.76825	2.225355	219.9992	52.01767	1	1.38E+08	143799	29.05732311	5/1/2008	961.2563	0
2008	5	18.76825	2.225355	219.9992	52.01767	2	1.03E+08	30069	29.31006152	5/1/2008	3435.762	0
2008	5	18.76825	2.225355	219.9992	52.01767	3.1	28356766	948	30.33482759	5/1/2008	0	0
2008	5	18.76825	2.225355	219.9992	52.01767	3.15	72809839	461	30.33482759	5/1/2008	0	0
2008	5	18.76825	2.225355	219.9992	52.01767	4	645346	374	30.12411562	5/1/2008	0	0
2008	6	111.5786	54.12848	97.01565	3.567113	1	1.53E+08	143710	30.47883875	6/1/2008	1065.973	0
2008	6	111.5786	54.12848	97.01565	3.567113	2	1.15E+08	30080	30.75832118	6/1/2008	3821.1	0
2008	6	111.5786	54.12848	97.01565	3.567113	3.1	31445688	956	30.406167	6/1/2008	0	0
2008	6	111.5786	54.12848	97.01565	3.567113	3.15	71882602	460	30.406167	6/1/2008	0	0
2008	6	111.5786	54.12848	97.01565	3.567113	4	575093	373	29.89861301	6/1/2008	0	0
2008	7	232.4187	105.9825	0.867234	0	1	1.79E+08	143789	30.12991833	7/1/2008	1245.206	0
2008	7	232.4187	105.9825	0.867234	0	2	1.23E+08	29341	30.34804286	7/1/2008	4186.27	0
2008	7	232.4187	105.9825	0.867234	0	3.1	31326358	957	30.6529286	7/1/2008	0	0
2008	7	232.4187	105.9825	0.867234	0	3.15	64955984	466	30.6529286	7/1/2008	0	0
2008	7	232.4187	105.9825	0.867234	0	4	743510	386	31.00513206	7/1/2008	0	0
2008	8	281.3765	136.5812	0	0	1	1.87E+08	143832	29.61115826	8/1/2008	1302.138	0
2008	8	281.3765	136.5812	0	0	2	1.25E+08	29387	29.82656979	8/1/2008	4248.939	0
2008	8	281.3765	136.5812	0	0	3.1	29028641	951	29.39112959	8/1/2008	0	0
2008	8	281.3765	136.5812	0	0	3.15	70064873	460	29.39112959	8/1/2008	0	0
2008	8	281.3765	136.5812	0	0	4	771268	380	29.66357631	8/1/2008	0	0
2008	9	261.0538	123.0818	0	0	1	1.78E+08	143855	30.11182506	9/1/2008	1237.861	0
2008	9	261.0538	123.0818	0	0	2	1.27E+08	29479	30.36998382	9/1/2008	4312.959	0
2008	9	261.0538	123.0818	0	0	3.1	34979373	966	30.43884742	9/1/2008	0	0
2008	9	261.0538	123.0818	0	0	3.15	71070385	464	30.43884742	9/1/2008	0	0
2008	9	261.0538	123.0818	0	0	4	740769	376	30.40060978	9/1/2008	0	0
2008	10	101.63	32.85671	62.24448	8.639613	1	1.43E+08	143884	29.35763942	10/1/2008	992.8995	0
2008	10	101.63	32.85671	62.24448	8.639613	2	1.11E+08	29482	29.42097951	10/1/2008	3779.305	0
2008	10	101.63	32.85671	62.24448	8.639613	3.1	39087486	972	30.15883009	10/1/2008	0	0

KPC_Use_Model_Input

YEAR	MONTH	bccd65	bccd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2008	10	101.63	32.85671	62.24448	8.639613	3.15	71362114	469	30.15883009	10/1/2008	0	0
2008	10	101.63	32.85671	62.24448	8.639613	4	985844	379	29.82066747	10/1/2008	0	0
2008	11	12.14618	2.263535	366.6354	141.9253	1			29.118389	11/1/2008	0	0
2008	11	12.14618	2.263535	366.6354	141.9253	2			29.53508422	11/1/2008	0	0
2008	11	12.14618	2.263535	366.6354	141.9253	3.1			29.90945365	11/1/2008	0	0
2008	11	12.14618	2.263535	366.6354	141.9253	3.15			29.90945365	11/1/2008	0	0
2008	11	12.14618	2.263535	366.6354	141.9253	4			29.70439403	11/1/2008	0	0
2008	12	1.742104	0.17781	648.5633	366.913	1			31.98439316	12/1/2008	0	0
2008	12	1.742104	0.17781	648.5633	366.913	2			32.14106964	12/1/2008	0	0
2008	12	1.742104	0.17781	648.5633	366.913	3.1			31.92290406	12/1/2008	0	0
2008	12	1.742104	0.17781	648.5633	366.913	3.15			31.92290406	12/1/2008	0	0
2008	12	1.742104	0.17781	648.5633	366.913	4			31.2079869	12/1/2008	0	0
2009	1	0.368711	0	877.7999	581.6619	1			32.83575623	1/1/2009	0	0
2009	1	0.368711	0	877.7999	581.6619	2			32.96778268	1/1/2009	0	0
2009	1	0.368711	0	877.7999	581.6619	3.1			31.7331054	1/1/2009	0	0
2009	1	0.368711	0	877.7999	581.6619	3.15			31.7331054	1/1/2009	0	0
2009	1	0.368711	0	877.7999	581.6619	4			31.5405524	1/1/2009	0	0
2009	2	0.045816	0	934.6349	635.7332	1			29.30555432	2/1/2009	0	0
2009	2	0.045816	0	934.6349	635.7332	2			29.53973602	2/1/2009	0	0
2009	2	0.045816	0	934.6349	635.7332	3.1			29.34345561	2/1/2009	0	0
2009	2	0.045816	0	934.6349	635.7332	3.15			29.34345561	2/1/2009	0	0
2009	2	0.045816	0	934.6349	635.7332	4			28.73270355	2/1/2009	0	0
2009	3	1.252308	0.151084	753.6475	463.579	1			28.98145151	3/1/2009	0	0
2009	3	1.252308	0.151084	753.6475	463.579	2			29.18108366	3/1/2009	0	0
2009	3	1.252308	0.151084	753.6475	463.579	3.1			29.92606081	3/1/2009	0	0
2009	3	1.252308	0.151084	753.6475	463.579	3.15			29.92606081	3/1/2009	0	0
2009	3	1.252308	0.151084	753.6475	463.579	4			30.54667296	3/1/2009	0	0
2009	4	12.6518	2.647518	477.0119	233.1905	1			30.04692994	4/1/2009	0	0
2009	4	12.6518	2.647518	477.0119	233.1905	2			30.19891908	4/1/2009	0	0
2009	4	12.6518	2.647518	477.0119	233.1905	3.1			30.17848256	4/1/2009	0	0
2009	4	12.6518	2.647518	477.0119	233.1905	3.15			30.17848256	4/1/2009	0	0
2009	4	12.6518	2.647518	477.0119	233.1905	4			30.13542414	4/1/2009	0	0
2009	5	42.61718	11.44585	217.5388	59.21298	1			29.41758996	5/1/2009	0	0
2009	5	42.61718	11.44585	217.5388	59.21298	2			29.61339613	5/1/2009	0	0
2009	5	42.61718	11.44585	217.5388	59.21298	3.1			29.84682511	5/1/2009	0	0
2009	5	42.61718	11.44585	217.5388	59.21298	3.15			29.84682511	5/1/2009	0	0

KPC_Use_Model_Input

YEAR	MONTH	bcdd65	bcdd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2009	5	42.61718	11.44585	217.5388	59.21298	4			30.25496053	5/1/2009		0
2009	6	131.279	53.22525	66.08377	6.354261	1			30.49014988	6/1/2009		0
2009	6	131.279	53.22525	66.08377	6.354261	2			30.89122135	6/1/2009		0
2009	6	131.279	53.22525	66.08377	6.354261	3.1			30.42409972	6/1/2009		0
2009	6	131.279	53.22525	66.08377	6.354261	3.15			30.42409972	6/1/2009		0
2009	6	131.279	53.22525	66.08377	6.354261	4			30.05213684	6/1/2009		0
2009	7	279.4773	146.4545	4.60343	0.032726	1			30.12420263	7/1/2009		0
2009	7	279.4773	146.4545	4.60343	0.032726	2			30.47689222	7/1/2009		0
2009	7	279.4773	146.4545	4.60343	0.032726	3.1			30.5881427	7/1/2009		0
2009	7	279.4773	146.4545	4.60343	0.032726	3.15			30.5881427	7/1/2009		0
2009	7	279.4773	146.4545	4.60343	0.032726	4			30.87312413	7/1/2009		0
2009	8	339.383	193.4046	0.543248	0	1			29.19304642	8/1/2009		0
2009	8	339.383	193.4046	0.543248	0	2			29.27851677	8/1/2009		0
2009	8	339.383	193.4046	0.543248	0	3.1			30.0284569	8/1/2009		0
2009	8	339.383	193.4046	0.543248	0	3.15			30.0284569	8/1/2009		0
2009	8	339.383	193.4046	0.543248	0	4			30.44423365	8/1/2009		0
2009	9	265.6916	136.9924	8.327081	0.247625	1			30.1222198	9/1/2009		0
2009	9	265.6916	136.9924	8.327081	0.247625	2			30.41462405	9/1/2009		0
2009	9	265.6916	136.9924	8.327081	0.247625	3.1			30.42656091	9/1/2009		0
2009	9	265.6916	136.9924	8.327081	0.247625	3.15			30.42656091	9/1/2009		0
2009	9	265.6916	136.9924	8.327081	0.247625	4			30.20807494	9/1/2009		0
2009	10	86.34159	32.65545	123.241	23.18896	1			29.44911056	10/1/2009		0
2009	10	86.34159	32.65545	123.241	23.18896	2			29.68323264	10/1/2009		0
2009	10	86.34159	32.65545	123.241	23.18896	3.1			30.03211441	10/1/2009		0
2009	10	86.34159	32.65545	123.241	23.18896	3.15			30.03211441	10/1/2009		0
2009	10	86.34159	32.65545	123.241	23.18896	4			30.49645297	10/1/2009		0
2009	11	12.14618	2.263535	366.6354	141.9253	1			29.23652399	11/1/2009		0
2009	11	12.14618	2.263535	366.6354	141.9253	2			29.63305725	11/1/2009		0
2009	11	12.14618	2.263535	366.6354	141.9253	3.1			30.18068677	11/1/2009		0
2009	11	12.14618	2.263535	366.6354	141.9253	3.15			30.18068677	11/1/2009		0
2009	11	12.14618	2.263535	366.6354	141.9253	4			30.12532517	11/1/2009		0
2009	12	1.742104	0.17781	648.5633	366.913	1			31.98439316	12/1/2009		0
2009	12	1.742104	0.17781	648.5633	366.913	2			32.14106964	12/1/2009		0
2009	12	1.742104	0.17781	648.5633	366.913	3.1			31.92290406	12/1/2009		0
2009	12	1.742104	0.17781	648.5633	366.913	3.15			31.92290406	12/1/2009		0
2009	12	1.742104	0.17781	648.5633	366.913	4			31.2079869	12/1/2009		0

KPC_Use_Model_Input

YEAR	MONTH	bcdd65	bcdd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2010	1	0.368711	0	877.7999	581.6619	1			32.83575623	1/1/2010		0
2010	1	0.368711	0	877.7999	581.6619	2			32.96778268	1/1/2010		0
2010	1	0.368711	0	877.7999	581.6619	3.1			31.7331054	1/1/2010		0
2010	1	0.368711	0	877.7999	581.6619	3.15			31.7331054	1/1/2010		0
2010	1	0.368711	0	877.7999	581.6619	4			31.5405524	1/1/2010		0
2010	2	0.045816	0	934.6349	635.7332	1			29.30555432	2/1/2010		0
2010	2	0.045816	0	934.6349	635.7332	2			29.53973602	2/1/2010		0
2010	2	0.045816	0	934.6349	635.7332	3.1			29.34345561	2/1/2010		0
2010	2	0.045816	0	934.6349	635.7332	3.15			29.34345561	2/1/2010		0
2010	2	0.045816	0	934.6349	635.7332	4			28.73270355	2/1/2010		0
2010	3	1.252308	0.151084	753.6475	463.579	1			28.98145151	3/1/2010		0
2010	3	1.252308	0.151084	753.6475	463.579	2			29.18108366	3/1/2010		0
2010	3	1.252308	0.151084	753.6475	463.579	3.1			29.926606081	3/1/2010		0
2010	3	1.252308	0.151084	753.6475	463.579	3.15			29.926606081	3/1/2010		0
2010	3	1.252308	0.151084	753.6475	463.579	4			30.54667296	3/1/2010		0
2010	4	12.6518	2.647518	477.0119	233.1905	1			30.04692994	4/1/2010		0
2010	4	12.6518	2.647518	477.0119	233.1905	2			30.19891908	4/1/2010		0
2010	4	12.6518	2.647518	477.0119	233.1905	3.1			30.17848256	4/1/2010		0
2010	4	12.6518	2.647518	477.0119	233.1905	3.15			30.17848256	4/1/2010		0
2010	4	12.6518	2.647518	477.0119	233.1905	4			30.13542414	4/1/2010		0
2010	5	42.61718	11.44585	217.5388	59.21298	1			29.41758996	5/1/2010		0
2010	5	42.61718	11.44585	217.5388	59.21298	2			29.61339613	5/1/2010		0
2010	5	42.61718	11.44585	217.5388	59.21298	3.1			29.84682511	5/1/2010		0
2010	5	42.61718	11.44585	217.5388	59.21298	3.15			29.84682511	5/1/2010		0
2010	5	42.61718	11.44585	217.5388	59.21298	4			30.25496053	5/1/2010		0
2010	6	131.279	53.22525	66.08377	6.354261	1			30.49014988	6/1/2010		0
2010	6	131.279	53.22525	66.08377	6.354261	2			30.89122135	6/1/2010		0
2010	6	131.279	53.22525	66.08377	6.354261	3.1			30.42409972	6/1/2010		0
2010	6	131.279	53.22525	66.08377	6.354261	3.15			30.42409972	6/1/2010		0
2010	6	131.279	53.22525	66.08377	6.354261	4			30.05213684	6/1/2010		0
2010	7	279.4773	146.4545	4.60343	0.032726	1			30.12420263	7/1/2010		0
2010	7	279.4773	146.4545	4.60343	0.032726	2			30.47689222	7/1/2010		0
2010	7	279.4773	146.4545	4.60343	0.032726	3.1			30.5881427	7/1/2010		0
2010	7	279.4773	146.4545	4.60343	0.032726	3.15			30.5881427	7/1/2010		0
2010	7	279.4773	146.4545	4.60343	0.032726	4			30.87312413	7/1/2010		0
2010	8	339.383	193.4046	0.543248	0	1			29.19304642	8/1/2010		0

KPC_Use_Model_Input

YEAR	MONTH	bccd65	bccd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2010	8	339.383	193.4046	0.543248	0	2			29.27851677	8/1/2010		0
2010	8	339.383	193.4046	0.543248	0	3.1			30.0284569	8/1/2010		0
2010	8	339.383	193.4046	0.543248	0	3.15			30.0284569	8/1/2010		0
2010	8	339.383	193.4046	0.543248	0	4			30.44423365	8/1/2010		0
2010	9	265.6916	136.9924	8.327081	0.247625	1			30.1222198	9/1/2010		0
2010	9	265.6916	136.9924	8.327081	0.247625	2			30.41462405	9/1/2010		0
2010	9	265.6916	136.9924	8.327081	0.247625	3.1			30.42656091	9/1/2010		0
2010	9	265.6916	136.9924	8.327081	0.247625	3.15			30.42656091	9/1/2010		0
2010	9	265.6916	136.9924	8.327081	0.247625	4			30.20807494	9/1/2010		0
2010	10	86.34159	32.65545	123.241	23.18896	1			29.44911056	10/1/2010		0
2010	10	86.34159	32.65545	123.241	23.18896	2			29.68323264	10/1/2010		0
2010	10	86.34159	32.65545	123.241	23.18896	3.1			30.03211441	10/1/2010		0
2010	10	86.34159	32.65545	123.241	23.18896	3.15			30.03211441	10/1/2010		0
2010	10	86.34159	32.65545	123.241	23.18896	4			30.49645297	10/1/2010		0
2010	11	12.14618	2.263535	366.6354	141.9253	1			29.23652399	11/1/2010		0
2010	11	12.14618	2.263535	366.6354	141.9253	2			29.63305725	11/1/2010		0
2010	11	12.14618	2.263535	366.6354	141.9253	3.1			30.18068677	11/1/2010		0
2010	11	12.14618	2.263535	366.6354	141.9253	3.15			30.18068677	11/1/2010		0
2010	11	12.14618	2.263535	366.6354	141.9253	4			30.12532517	11/1/2010		0
2010	12	1.742104	0.17781	648.5633	366.913	1			31.98439316	12/1/2010		0
2010	12	1.742104	0.17781	648.5633	366.913	2			32.14106964	12/1/2010		0
2010	12	1.742104	0.17781	648.5633	366.913	3.1			31.92290406	12/1/2010		0
2010	12	1.742104	0.17781	648.5633	366.913	3.15			31.92290406	12/1/2010		0
2010	12	1.742104	0.17781	648.5633	366.913	4			31.2079869	12/1/2010		0
2011	1	0.368711	0	877.7999	581.6619	1			32.83575623	1/1/2011		0
2011	1	0.368711	0	877.7999	581.6619	2			32.96778268	1/1/2011		0
2011	1	0.368711	0	877.7999	581.6619	3.1			31.7331054	1/1/2011		0
2011	1	0.368711	0	877.7999	581.6619	3.15			31.7331054	1/1/2011		0
2011	1	0.368711	0	877.7999	581.6619	4			31.5405524	1/1/2011		0
2011	2	0.045816	0	934.6349	635.7332	1			29.30555432	2/1/2011		0
2011	2	0.045816	0	934.6349	635.7332	2			29.53973602	2/1/2011		0
2011	2	0.045816	0	934.6349	635.7332	3.1			29.34345561	2/1/2011		0
2011	2	0.045816	0	934.6349	635.7332	3.15			29.34345561	2/1/2011		0
2011	2	0.045816	0	934.6349	635.7332	4			28.73270355	2/1/2011		0
2011	3	1.252308	0.151084	753.6475	463.579	1			28.98145151	3/1/2011		0
2011	3	1.252308	0.151084	753.6475	463.579	2			29.18108366	3/1/2011		0

KPC_Use_Model_Input

YEAR	MONTH	bcdd65	bcdd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2011	3	1.252308	0.151084	753.6475	463.579	3.1			29.92606081	3/1/2011		0
2011	3	1.252308	0.151084	753.6475	463.579	3.15			29.92606081	3/1/2011		0
2011	3	1.252308	0.151084	753.6475	463.579	4			30.54667296	3/1/2011		0
2011	4	12.6518	2.647518	477.0119	233.1905	1			30.04692994	4/1/2011		0
2011	4	12.6518	2.647518	477.0119	233.1905	2			30.19891908	4/1/2011		0
2011	4	12.6518	2.647518	477.0119	233.1905	3.1			30.17848256	4/1/2011		0
2011	4	12.6518	2.647518	477.0119	233.1905	3.15			30.17848256	4/1/2011		0
2011	4	12.6518	2.647518	477.0119	233.1905	4			30.13542414	4/1/2011		0
2011	5	42.61718	11.44585	217.5388	59.21298	1			29.41758996	5/1/2011		0
2011	5	42.61718	11.44585	217.5388	59.21298	2			29.61339613	5/1/2011		0
2011	5	42.61718	11.44585	217.5388	59.21298	3.1			29.84682511	5/1/2011		0
2011	5	42.61718	11.44585	217.5388	59.21298	3.15			29.84682511	5/1/2011		0
2011	5	42.61718	11.44585	217.5388	59.21298	4			30.25496053	5/1/2011		0
2011	6	131.279	53.22525	66.08377	6.354261	1			30.49014988	6/1/2011		0
2011	6	131.279	53.22525	66.08377	6.354261	2			30.89122135	6/1/2011		0
2011	6	131.279	53.22525	66.08377	6.354261	3.1			30.42409972	6/1/2011		0
2011	6	131.279	53.22525	66.08377	6.354261	3.15			30.42409972	6/1/2011		0
2011	6	131.279	53.22525	66.08377	6.354261	4			30.05213684	6/1/2011		0
2011	7	279.4773	146.4545	4.60343	0.032726	1			30.12420263	7/1/2011		0
2011	7	279.4773	146.4545	4.60343	0.032726	2			30.47689222	7/1/2011		0
2011	7	279.4773	146.4545	4.60343	0.032726	3.1			30.5881427	7/1/2011		0
2011	7	279.4773	146.4545	4.60343	0.032726	3.15			30.5881427	7/1/2011		0
2011	7	279.4773	146.4545	4.60343	0.032726	4			30.87312413	7/1/2011		0
2011	8	339.383	193.4046	0.543248	0	1			29.19304642	8/1/2011		0
2011	8	339.383	193.4046	0.543248	0	2			29.27851677	8/1/2011		0
2011	8	339.383	193.4046	0.543248	0	3.1			30.0284569	8/1/2011		0
2011	8	339.383	193.4046	0.543248	0	3.15			30.0284569	8/1/2011		0
2011	8	339.383	193.4046	0.543248	0	4			30.44423365	8/1/2011		0
2011	9	265.6916	136.9924	8.327081	0.247625	1			30.1222198	9/1/2011		0
2011	9	265.6916	136.9924	8.327081	0.247625	2			30.41462405	9/1/2011		0
2011	9	265.6916	136.9924	8.327081	0.247625	3.1			30.42656091	9/1/2011		0
2011	9	265.6916	136.9924	8.327081	0.247625	3.15			30.42656091	9/1/2011		0
2011	9	265.6916	136.9924	8.327081	0.247625	4			30.20807494	9/1/2011		0
2011	10	86.34159	32.65545	123.241	23.18896	1			29.44911056	10/1/2011		0
2011	10	86.34159	32.65545	123.241	23.18896	2			29.68323264	10/1/2011		0
2011	10	86.34159	32.65545	123.241	23.18896	3.1			30.03211441	10/1/2011		0

KPC_Use_Model_Input

YEAR	MONTH	bcdd65	bcdd70	bhdd65	bhdd55	REVCLS	KWH	CUST	MET_DAYS	time	USAGE	ind1
2011	10	86.34159	32.65545	123.241	23.18896	3.15			30.03211441	10/1/2011		0
2011	10	86.34159	32.65545	123.241	23.18896	4			30.49645297	10/1/2011		0
2011	11	12.14618	2.263535	366.6354	141.9253	1			29.23652399	11/1/2011		0
2011	11	12.14618	2.263535	366.6354	141.9253	2			29.63305725	11/1/2011		0
2011	11	12.14618	2.263535	366.6354	141.9253	3.1			30.18068677	11/1/2011		0
2011	11	12.14618	2.263535	366.6354	141.9253	3.15			30.18068677	11/1/2011		0
2011	11	12.14618	2.263535	366.6354	141.9253	4			30.12532517	11/1/2011		0
2011	12	1.742104	0.17781	648.5633	366.913	1			31.98439316	12/1/2011		0
2011	12	1.742104	0.17781	648.5633	366.913	2			32.14106964	12/1/2011		0
2011	12	1.742104	0.17781	648.5633	366.913	3.1			31.92290406	12/1/2011		0
2011	12	1.742104	0.17781	648.5633	366.913	3.15			31.92290406	12/1/2011		0
2011	12	1.742104	0.17781	648.5633	366.913	4			31.2079869	12/1/2011		0

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
1998	1	1	0	0	0	0	0	0	0	0	0	0
1998	1	1	0	0	0	0	0	0	0	0	0	0
1998	1	1	0	0	0	0	0	0	0	0	0	0
1998	1	1	0	0	0	0	0	0	0	0	0	0
1998	1	1	0	0	0	0	0	0	0	0	0	0
1998	2	2	0	0	0	0	0	0	0	0	0	0
1998	2	2	0	0	0	0	0	0	0	0	0	0
1998	2	2	0	0	0	0	0	0	0	0	0	0
1998	2	2	0	0	0	0	0	0	0	0	0	0
1998	2	2	0	0	0	0	0	0	0	0	0	0
1998	3	3	0	0	0	0	0	0	0	0	0	0
1998	3	3	0	0	0	0	0	0	0	0	0	0
1998	3	3	0	0	0	0	0	0	0	0	0	0
1998	3	3	0	0	0	0	0	0	0	0	0	0
1998	3	3	0	0	0	0	0	0	0	0	0	0
1998	4	4	0	0	0	0	0	0	0	0	0	0
1998	4	4	0	0	0	0	0	0	0	0	0	0
1998	4	4	0	0	0	0	0	0	0	0	0	0
1998	4	4	0	0	0	0	0	0	0	0	0	0
1998	4	4	0	0	0	0	0	0	0	0	0	0
1998	4	4	0	0	0	0	0	0	0	0	0	0
1998	5	5	0	0	0	0	0	0	0	0	0	0
1998	5	5	0	0	0	0	0	0	0	0	0	0
1998	5	5	0	0	0	0	0	0	0	0	0	0
1998	5	5	0	0	0	0	0	0	0	0	0	0
1998	5	5	0	0	0	0	0	0	0	0	0	0
1998	6	6	0	0	0	0	0	0	0	0	0	0
1998	6	6	0	0	0	0	0	0	0	0	0	0
1998	6	6	0	0	0	0	0	0	0	0	0	0
1998	6	6	0	0	0	0	0	0	0	0	0	0
1998	6	6	0	0	0	0	0	0	0	0	0	0
1998	7	7	0	0	0	0	0	0	0	0	0	0
1998	7	7	0	0	0	0	0	0	0	0	0	0
1998	7	7	0	0	0	0	0	0	0	0	0	0
1998	7	7	0	0	0	0	0	0	0	0	0	0
1998	7	7	0	0	0	0	0	0	0	0	0	0
1998	7	7	0	0	0	0	0	0	0	0	0	0
1998	8	8	0	0	0	0	0	0	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
1998	8											
1998	8											
1998	8											
1998	8											
1998	9											
1998	9											
1998	9											
1998	9											
1998	9											
1998	10											
1998	10											
1998	10											
1998	10											
1998	10											
1998	11											
1998	11											
1998	11											
1998	11											
1998	11											
1998	12											
1998	12											
1998	12											
1998	12											
1998	12											
1998	12											
1999	1											
1999	1											
1999	1											
1999	1											
1999	1											
1999	2											
1999	2											
1999	2											
1999	2											
1999	2											
1999	3											
1999	3											

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
1999	3	3	0	0	0	0	0	0	0	0	0	0
1999	3	3	0	0	0	0	0	0	0	0	0	0
1999	3	3	0	0	0	0	0	0	0	0	0	0
1999	4	4	0	0	0	0	0	0	0	0	0	0
1999	4	4	0	0	0	0	0	0	0	0	0	0
1999	4	4	0	0	0	0	0	0	0	0	0	0
1999	4	4	0	0	0	0	0	0	0	0	0	0
1999	4	4	0	0	0	0	0	0	0	0	0	0
1999	5	5	0	0	0	0	0	0	0	0	0	0
1999	5	5	0	0	0	0	0	0	0	0	0	0
1999	5	5	0	0	0	0	0	0	0	0	0	0
1999	5	5	0	0	0	0	0	0	0	0	0	0
1999	5	5	0	0	0	0	0	0	0	0	0	0
1999	6	6	0	0	0	0	0	0	0	0	0	0
1999	6	6	0	0	0	0	0	0	0	0	0	0
1999	6	6	0	0	0	0	0	0	0	0	0	0
1999	6	6	0	0	0	0	0	0	0	0	0	0
1999	6	6	0	0	0	0	0	0	0	0	0	0
1999	7	7	0	0	0	0	0	0	0	0	0	0
1999	7	7	0	0	0	0	0	0	0	0	0	0
1999	7	7	0	0	0	0	0	0	0	0	0	0
1999	7	7	0	0	0	0	0	0	0	0	0	0
1999	7	7	0	0	0	0	0	0	0	0	0	0
1999	7	7	0	0	0	0	0	0	0	0	0	0
1999	8	8	0	1	0	0	0	0	0	0	0	0
1999	8	8	0	1	0	0	0	0	0	0	0	0
1999	8	8	0	1	0	0	0	0	0	0	0	0
1999	8	8	0	1	0	0	0	0	0	0	0	0
1999	8	8	0	1	0	0	0	0	0	0	0	0
1999	9	9	0	0	0	0	0	0	0	0	0	0
1999	9	9	0	0	0	0	0	0	0	0	0	0
1999	9	9	0	0	0	0	0	0	0	0	0	0
1999	9	9	0	0	0	0	0	0	0	0	0	0
1999	9	9	0	0	0	0	0	0	0	0	0	0
1999	10	10	0	0	0	0	0	0	0	0	0	0
1999	10	10	0	0	0	0	0	0	0	0	0	0
1999	10	10	0	0	0	0	0	0	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
1999	10	0	0	0	0	0	0	0	0	0	0	0
1999	10	0	0	0	0	0	0	0	0	0	0	0
1999	11	0	0	0	0	0	0	0	0	0	0	0
1999	11	0	0	0	0	0	0	0	0	0	0	0
1999	11	0	0	0	0	0	0	0	0	0	0	0
1999	11	0	0	0	0	0	0	0	0	0	0	0
1999	11	0	0	0	0	0	0	0	0	0	0	0
1999	11	0	0	0	0	0	0	0	0	0	0	0
1999	12	0	0	0	0	0	0	0	0	0	0	0
1999	12	0	0	0	0	0	0	0	0	0	0	0
1999	12	0	0	0	0	0	0	0	0	0	0	0
1999	12	0	0	0	0	0	0	0	0	0	0	0
1999	12	0	0	0	0	0	0	0	0	0	0	0
2000	1	0	0	0	0	0	0	0	0	0	0	0
2000	1	0	0	0	0	0	0	0	0	0	0	0
2000	1	0	0	0	0	0	0	0	0	0	0	0
2000	1	0	0	0	0	0	0	0	0	0	0	0
2000	1	0	0	0	0	0	0	0	0	0	0	0
2000	2	0	0	0	0	0	0	0	0	0	0	0
2000	2	0	0	0	0	0	0	0	0	0	0	0
2000	2	0	0	0	0	0	0	0	0	0	0	0
2000	2	0	0	0	0	0	0	0	0	0	0	0
2000	2	0	0	0	0	0	0	0	0	0	0	0
2000	3	0	0	0	0	0	0	0	0	0	0	0
2000	3	0	0	0	0	0	0	0	0	0	0	0
2000	3	0	0	0	0	0	0	0	0	0	0	0
2000	3	0	0	0	0	0	0	0	0	0	0	0
2000	3	0	0	0	0	0	0	0	0	0	0	0
2000	4	0	0	0	0	0	0	0	0	0	0	0
2000	4	0	0	0	0	0	0	0	0	0	0	0
2000	4	0	0	0	0	0	0	0	0	0	0	0
2000	4	0	0	0	0	0	0	0	0	0	0	0
2000	4	0	0	0	0	0	0	0	0	0	0	0
2000	4	0	0	0	0	0	0	0	0	0	0	0
2000	5	0	0	0	0	0	0	0	0	0	0	0
2000	5	0	0	0	0	0	0	0	0	0	0	0
2000	5	0	0	0	0	0	0	0	0	0	0	0
2000	5	0	0	0	0	0	0	0	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2000	5	0	0	0	0	0	0	0	0	0	0	0
2000	6	0	0	0	0	0	0	0	0	0	0	0
2000	6	0	0	0	0	0	0	0	0	0	0	0
2000	6	0	0	0	0	0	0	0	0	0	0	0
2000	6	0	0	0	0	0	0	0	0	0	0	0
2000	6	0	0	0	0	0	0	0	0	0	0	0
2000	7	0	0	0	0	0	0	0	0	0	0	0
2000	7	0	0	0	0	0	0	0	0	0	0	0
2000	7	0	0	0	0	0	0	0	0	0	0	0
2000	7	0	0	0	0	0	0	0	0	0	0	0
2000	7	0	0	0	0	0	0	0	0	0	0	0
2000	8	0	0	0	0	0	0	0	0	0	0	0
2000	8	0	0	0	0	0	0	0	0	0	0	0
2000	8	0	0	0	0	0	0	0	0	0	0	0
2000	8	0	0	0	0	0	0	0	0	0	0	0
2000	8	0	0	0	0	0	0	0	0	0	0	0
2000	8	0	0	0	0	0	0	0	0	0	0	0
2000	9	0	0	0	0	0	0	0	0	0	0	0
2000	9	0	0	0	0	0	0	0	0	0	0	0
2000	9	0	0	0	0	0	0	0	0	0	0	0
2000	9	0	0	0	0	0	0	0	0	0	0	0
2000	9	0	0	0	0	0	0	0	0	0	0	0
2000	9	0	0	0	0	0	0	0	0	0	0	0
2000	10	0	0	0	0	0	0	0	0	0	0	0
2000	10	0	0	0	0	0	0	0	0	0	0	0
2000	10	0	0	0	0	0	0	0	0	0	0	0
2000	10	0	0	0	0	0	0	0	0	0	0	0
2000	10	0	0	0	0	0	0	0	0	0	0	0
2000	10	0	0	0	0	0	0	0	0	0	0	0
2000	11	0	0	0	0	0	0	0	0	0	0	0
2000	11	0	0	0	0	0	0	0	0	0	0	0
2000	11	0	0	0	0	0	0	0	0	0	0	0
2000	11	0	0	0	0	0	0	0	0	0	0	0
2000	11	0	0	0	0	0	0	0	0	0	0	0
2000	11	0	0	0	0	0	0	0	0	0	0	0
2000	12	0	0	0	0	0	0	0	0	0	0	0
2000	12	0	0	0	0	0	0	0	0	0	0	0
2000	12	0	0	0	0	0	0	0	0	0	0	0
2000	12	0	0	0	0	0	0	0	0	0	0	0
2000	12	0	0	0	0	0	0	0	0	0	0	0
2000	12	0	0	0	0	0	0	0	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2001	1	1	1	0	0	0	0	0	0	0	0	0
2001	1	1	1	0	0	0	0	0	0	0	0	0
2001	1	1	1	0	0	0	0	0	0	0	0	0
2001	1	1	1	0	0	0	0	0	0	0	0	0
2001	1	1	1	0	0	0	0	0	0	0	0	0
2001	2	0	0	0	0	0	0	0	0	0	0	0
2001	2	0	0	0	0	0	0	0	0	0	0	0
2001	2	0	0	0	0	0	0	0	0	0	0	0
2001	2	0	0	0	0	0	0	0	0	0	0	0
2001	2	0	0	0	0	0	0	0	0	0	0	0
2001	3	0	0	0	0	0	0	0	0	0	0	0
2001	3	0	0	0	0	0	0	0	0	0	0	0
2001	3	0	0	0	0	0	0	0	0	0	0	0
2001	3	0	0	0	0	0	0	0	0	0	0	0
2001	3	0	0	0	0	0	0	0	0	0	0	0
2001	4	0	0	0	0	0	0	0	0	0	0	0
2001	4	0	0	0	0	0	0	0	0	0	0	0
2001	4	0	0	0	0	0	0	0	0	0	0	0
2001	4	0	0	0	0	0	0	0	0	0	0	0
2001	4	0	0	0	0	0	0	0	0	0	0	0
2001	4	0	0	0	0	0	0	0	0	0	0	0
2001	5	0	0	0	0	0	0	0	0	0	0	0
2001	5	0	0	0	0	0	0	0	0	0	0	0
2001	5	0	0	0	0	0	0	0	0	0	0	0
2001	5	0	0	0	0	0	0	0	0	0	0	0
2001	5	0	0	0	0	0	0	0	0	0	0	0
2001	6	0	0	0	0	0	0	0	0	0	0	0
2001	6	0	0	0	0	0	0	0	0	0	0	0
2001	6	0	0	0	0	0	0	0	0	0	0	0
2001	6	0	0	0	0	0	0	0	0	0	0	0
2001	6	0	0	0	0	0	0	0	0	0	0	0
2001	7	0	0	0	0	0	0	0	0	0	0	0
2001	7	0	0	0	0	0	0	0	0	0	0	0
2001	7	0	0	0	0	0	0	0	0	0	0	0
2001	7	0	0	0	0	0	0	0	0	0	0	0
2001	7	0	0	0	0	0	0	0	0	0	0	0
2001	7	0	0	0	0	0	0	0	0	0	0	0
2001	8	0	0	0	0	0	0	0	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2001	8	8	0	0	0	0	0	0	0	0	0	0
2001	8	8	0	0	0	0	0	0	0	0	0	0
2001	8	8	0	0	0	0	0	0	0	0	0	0
2001	8	8	0	0	0	0	0	0	0	0	0	0
2001	9	9	0	0	0	0	0	0	0	0	0	0
2001	9	9	0	0	0	0	0	0	0	0	0	0
2001	9	9	0	0	0	0	0	0	0	0	0	0
2001	9	9	0	0	0	0	0	0	0	0	0	0
2001	9	9	0	0	0	0	0	0	0	0	0	0
2001	10	10	0	0	0	0	0	0	0	0	0	0
2001	10	10	0	0	0	0	0	0	0	0	0	0
2001	10	10	0	0	0	0	0	0	0	0	0	0
2001	10	10	0	0	0	0	0	0	0	0	0	0
2001	10	10	0	0	0	0	0	0	0	0	0	0
2001	11	11	0	0	0	0	0	0	0	0	0	0
2001	11	11	0	0	0	0	0	0	0	0	0	0
2001	11	11	0	0	0	0	0	0	0	0	0	0
2001	11	11	0	0	0	0	0	0	0	0	0	0
2001	11	11	0	0	0	0	0	0	0	0	0	0
2001	11	11	0	0	0	0	0	0	0	0	0	0
2001	12	12	0	0	0	0	0	0	0	0	0	0
2001	12	12	0	0	0	0	0	0	0	0	0	0
2001	12	12	0	0	0	0	0	0	0	0	0	0
2001	12	12	0	0	0	0	0	0	0	0	0	0
2001	12	12	0	0	0	0	0	0	0	0	0	0
2001	12	12	0	0	0	0	0	0	0	0	0	0
2002	1	1	0	0	0	0	0	0	1	1	0	0
2002	1	1	0	0	0	0	0	0	1	1	0	0
2002	1	1	0	0	0	0	0	0	1	1	0	0
2002	1	1	0	0	0	0	0	0	1	1	0	0
2002	1	1	0	0	0	0	0	0	1	1	0	0
2002	2	2	0	0	0	0	0	0	0	0	0	0
2002	2	2	0	0	0	0	0	0	0	0	0	0
2002	2	2	0	0	0	0	0	0	0	0	0	0
2002	2	2	0	0	0	0	0	0	0	0	0	0
2002	2	2	0	0	0	0	0	0	0	0	0	0
2002	3	3	0	0	0	0	0	0	0	0	0	0
2002	3	3	0	0	0	0	0	0	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2002	3	0	0	0	0	0	0	0	0	0	0	0
2002	3	0	0	0	0	0	0	0	0	0	0	0
2002	3	0	0	0	0	0	0	0	0	0	0	0
2002	4	0	0	0	0	0	0	0	0	0	0	0
2002	4	0	0	0	0	0	0	0	0	0	0	0
2002	4	0	0	0	0	0	0	0	0	0	0	0
2002	4	0	0	0	0	0	0	0	0	0	0	0
2002	4	0	0	0	0	0	0	0	0	0	0	0
2002	4	0	0	0	0	0	0	0	0	0	0	0
2002	5	0	0	0	0	0	0	0	0	0	0	0
2002	5	0	0	0	0	0	0	0	0	0	0	0
2002	5	0	0	0	0	0	0	0	0	0	0	0
2002	5	0	0	0	0	0	0	0	0	0	0	0
2002	5	0	0	0	0	0	0	0	0	0	0	0
2002	6	0	0	0	0	0	0	0	0	0	1	0
2002	6	0	0	0	0	0	0	0	0	0	1	0
2002	6	0	0	0	0	0	0	0	0	0	1	0
2002	6	0	0	0	0	0	0	0	0	0	1	0
2002	6	0	0	0	0	0	0	0	0	0	1	0
2002	7	0	0	0	0	0	0	0	0	0	0	0
2002	7	0	0	0	0	0	0	0	0	0	0	0
2002	7	0	0	0	0	0	0	0	0	0	0	0
2002	7	0	0	0	0	0	0	0	0	0	0	0
2002	7	0	0	0	0	0	0	0	0	0	0	0
2002	7	0	0	0	0	0	0	0	0	0	0	0
2002	7	0	0	0	0	0	0	0	0	0	0	0
2002	8	0	0	0	0	0	0	0	0	0	0	0
2002	8	0	0	0	0	0	0	0	0	0	0	0
2002	8	0	0	0	0	0	0	0	0	0	0	0
2002	8	0	0	0	0	0	0	0	0	0	0	0
2002	8	0	0	0	0	0	0	0	0	0	0	0
2002	8	0	0	0	0	0	0	0	0	0	0	0
2002	9	0	0	0	0	0	0	0	0	0	0	0
2002	9	0	0	0	0	0	0	0	0	0	0	0
2002	9	0	0	0	0	0	0	0	0	0	0	0
2002	9	0	0	0	0	0	0	0	0	0	0	0
2002	9	0	0	0	0	0	0	0	0	0	0	0
2002	9	0	0	0	0	0	0	0	0	0	0	0
2002	10	0	0	0	0	0	0	0	0	0	0	0
2002	10	0	0	0	0	0	0	0	0	0	0	0
2002	10	0	0	0	0	0	0	0	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2002	10	0	0	0	0	0	0	0	0	0	0	0
2002	10	0	0	0	0	0	0	0	0	0	0	0
2002	11	0	0	0	0	0	0	0	0	0	0	0
2002	11	0	0	0	0	0	0	0	0	0	0	0
2002	11	0	0	0	0	0	0	0	0	0	0	0
2002	11	0	0	0	0	0	0	0	0	0	0	0
2002	11	0	0	0	0	0	0	0	0	0	0	0
2002	12	0	0	0	0	0	0	0	0	0	0	0
2002	12	0	0	0	0	0	0	0	0	0	0	0
2002	12	0	0	0	0	0	0	0	0	0	0	0
2002	12	0	0	0	0	0	0	0	0	0	0	0
2002	12	0	0	0	0	0	0	0	0	0	0	0
2002	12	0	0	0	0	0	0	0	0	0	0	0
2003	1	0	0	0	1	0	0	0	0	0	0	0
2003	1	0	0	0	1	0	0	0	0	0	0	0
2003	1	0	0	0	1	0	0	0	0	0	0	0
2003	1	0	0	0	1	0	0	0	0	0	0	0
2003	1	0	0	0	1	0	0	0	0	0	0	0
2003	2	0	0	0	1	0	0	0	0	0	0	0
2003	2	0	0	0	1	0	0	0	0	0	0	0
2003	2	0	0	0	1	0	0	0	0	0	0	0
2003	2	0	0	0	1	0	0	0	0	0	0	0
2003	2	0	0	0	1	0	0	0	0	0	0	0
2003	3	0	0	0	1	0	0	0	0	0	0	0
2003	3	0	0	0	1	0	0	0	0	0	0	0
2003	3	0	0	0	1	0	0	0	0	0	0	0
2003	3	0	0	0	1	0	0	0	0	0	0	0
2003	3	0	0	0	1	0	0	0	0	0	0	0
2003	4	0	0	0	1	0	0	0	0	0	0	0
2003	4	0	0	0	1	0	0	0	0	0	0	0
2003	4	0	0	0	1	0	0	0	0	0	0	0
2003	4	0	0	0	1	0	0	0	0	0	0	0
2003	4	0	0	0	1	0	0	0	0	0	0	0
2003	4	0	0	0	1	0	0	0	0	0	0	0
2003	5	0	0	0	1	0	0	0	0	0	0	0
2003	5	0	0	0	1	0	0	0	0	0	0	0
2003	5	0	0	0	1	0	0	0	0	0	0	0
2003	5	0	0	0	1	0	0	0	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2003	5	5	0	0	1	0	0	0	0	0	0	0
2003	6	6	0	0	1	0	0	0	0	0	0	0
2003	6	6	0	0	1	0	0	0	0	0	0	0
2003	6	6	0	0	1	0	0	0	0	0	0	0
2003	6	6	0	0	1	0	0	0	0	0	0	0
2003	6	6	0	0	1	0	0	0	0	0	0	0
2003	7	7	0	0	1	0	0	0	0	0	0	0
2003	7	7	0	0	1	0	0	0	0	0	0	0
2003	7	7	0	0	1	0	0	0	0	0	0	0
2003	7	7	0	0	1	0	0	0	0	0	0	0
2003	7	7	0	0	1	0	0	0	0	0	0	0
2003	8	8	0	0	1	0	0	0	0	0	0	0
2003	8	8	0	0	1	0	0	0	0	0	0	0
2003	8	8	0	0	1	0	0	0	0	0	0	0
2003	8	8	0	0	1	0	0	0	0	0	0	0
2003	8	8	0	0	1	0	0	0	0	0	0	0
2003	8	8	0	0	1	0	0	0	0	0	0	0
2003	8	8	0	0	1	0	0	0	0	0	0	0
2003	9	9	0	0	1	0	0	0	0	0	0	0
2003	9	9	0	0	1	0	0	0	0	0	0	0
2003	9	9	0	0	1	0	0	0	0	0	0	0
2003	9	9	0	0	1	0	0	0	0	0	0	0
2003	9	9	0	0	1	0	0	0	0	0	0	0
2003	10	10	0	0	1	0	0	0	0	0	0	0
2003	10	10	0	0	1	0	0	0	0	0	0	0
2003	10	10	0	0	1	0	0	0	0	0	0	0
2003	10	10	0	0	1	0	0	0	0	0	0	0
2003	10	10	0	0	1	0	0	0	0	0	0	0
2003	11	11	0	0	1	0	0	0	0	0	0	0
2003	11	11	0	0	1	0	0	0	0	0	0	0
2003	11	11	0	0	1	0	0	0	0	0	0	0
2003	11	11	0	0	1	0	0	0	0	0	0	0
2003	11	11	0	0	1	0	0	0	0	0	0	0
2003	11	11	0	0	1	0	0	0	0	0	0	0
2003	12	12	0	0	1	0	0	0	0	0	0	0
2003	12	12	0	0	1	0	0	0	0	0	0	0
2003	12	12	0	0	1	0	0	0	0	0	0	0
2003	12	12	0	0	1	0	0	0	0	0	0	0
2003	12	12	0	0	1	0	0	0	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2004	1	1	0	0	1	0	0	0	0	0	0	0
2004	1	1	0	0	1	0	0	0	0	0	0	0
2004	1	1	0	0	1	0	0	0	0	0	0	0
2004	1	1	0	0	1	0	0	0	0	0	0	0
2004	1	1	0	0	1	0	0	0	0	0	0	0
2004	2	2	0	0	1	0	0	0	0	0	0	0
2004	2	2	0	0	1	0	0	0	0	0	0	0
2004	2	2	0	0	1	0	0	0	0	0	0	0
2004	2	2	0	0	1	0	0	0	0	0	0	0
2004	2	2	0	0	1	0	0	0	0	0	0	0
2004	3	3	0	0	1	0	0	0	0	0	0	0
2004	3	3	0	0	1	0	0	0	0	0	0	0
2004	3	3	0	0	1	0	0	0	0	0	0	0
2004	3	3	0	0	1	0	0	0	0	0	0	0
2004	3	3	0	0	1	0	0	0	0	0	0	0
2004	4	4	0	0	1	-1	0	0	0	0	0	0
2004	4	4	0	0	1	-1	0	0	0	0	0	0
2004	4	4	0	0	1	-1	0	0	0	0	0	0
2004	4	4	0	0	1	-1	0	0	0	0	0	0
2004	4	4	0	0	1	-1	0	0	0	0	0	0
2004	4	4	0	0	1	-1	0	0	0	0	0	0
2004	5	5	0	0	1	1	0	0	0	0	0	0
2004	5	5	0	0	1	1	0	0	0	0	0	0
2004	5	5	0	0	1	1	0	0	0	0	0	0
2004	5	5	0	0	1	1	0	0	0	0	0	0
2004	5	5	0	0	1	1	0	0	0	0	0	0
2004	6	6	0	0	1	0	0	0	0	0	0	0
2004	6	6	0	0	1	0	0	0	0	0	0	0
2004	6	6	0	0	1	0	0	0	0	0	0	0
2004	6	6	0	0	1	0	0	0	0	0	0	0
2004	6	6	0	0	1	0	0	0	0	0	0	0
2004	7	7	0	0	1	0	0	0	0	0	0	0
2004	7	7	0	0	1	0	0	0	0	0	0	0
2004	7	7	0	0	1	0	0	0	0	0	0	0
2004	7	7	0	0	1	0	0	0	0	0	0	0
2004	7	7	0	0	1	0	0	0	0	0	0	0
2004	8	8	0	0	1	0	0	0	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2004	8	8	0	0	1	0	0	0	0	0	0	0
2004	8	8	0	0	1	0	0	0	0	0	0	0
2004	8	8	0	0	1	0	0	0	0	0	0	0
2004	8	8	0	0	1	0	0	0	0	0	0	0
2004	9	9	0	0	1	0	0	0	0	0	0	0
2004	9	9	0	0	1	0	0	0	0	0	0	0
2004	9	9	0	0	1	0	0	0	0	0	0	0
2004	9	9	0	0	1	0	0	0	0	0	0	0
2004	9	9	0	0	1	0	0	0	0	0	0	0
2004	10	10	0	0	1	0	0	0	0	0	0	0
2004	10	10	0	0	1	0	0	0	0	0	0	0
2004	10	10	0	0	1	0	0	0	0	0	0	0
2004	10	10	0	0	1	0	0	0	0	0	0	0
2004	10	10	0	0	1	0	0	0	0	0	0	0
2004	11	11	0	0	1	0	0	0	0	0	0	0
2004	11	11	0	0	1	0	0	0	0	0	0	0
2004	11	11	0	0	1	0	0	0	0	0	0	0
2004	11	11	0	0	1	0	0	0	0	0	0	0
2004	11	11	0	0	1	0	0	0	0	0	0	0
2004	11	11	0	0	1	0	0	0	0	0	0	0
2004	12	12	0	0	1	0	0	0	0	0	0	0
2004	12	12	0	0	1	0	0	0	0	0	0	0
2004	12	12	0	0	1	0	0	0	0	0	0	0
2004	12	12	0	0	1	0	0	0	0	0	0	0
2004	12	12	0	0	1	0	0	0	0	0	0	0
2004	12	12	0	0	1	0	0	0	0	0	0	0
2005	1	1	0	0	1	0	0	0	0	0	0	0
2005	1	1	0	0	1	0	0	0	0	0	0	0
2005	1	1	0	0	1	0	0	0	0	0	0	0
2005	1	1	0	0	1	0	0	0	0	0	0	0
2005	1	1	0	0	1	0	0	0	0	0	0	0
2005	2	2	0	0	1	0	1	0	0	0	0	0
2005	2	2	0	0	1	0	1	0	0	0	0	0
2005	2	2	0	0	1	0	1	0	0	0	0	0
2005	2	2	0	0	1	0	1	0	0	0	0	0
2005	2	2	0	0	1	0	1	0	0	0	0	0
2005	3	3	0	0	1	0	1	0	0	0	0	0
2005	3	3	0	0	1	0	-1	0	0	0	0	0
2005	3	3	0	0	1	0	-1	0	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2005	3	3	0	0	1	0	-1	0	0	0	0	0
2005	3	3	0	0	1	0	-1	0	0	0	0	0
2005	3	3	0	0	1	0	-1	0	0	0	0	0
2005	4	4	0	0	1	0	0	0	0	0	0	0
2005	4	4	0	0	1	0	0	0	0	0	0	0
2005	4	4	0	0	1	0	0	0	0	0	0	0
2005	4	4	0	0	1	0	0	0	0	0	0	0
2005	4	4	0	0	1	0	0	0	0	0	0	0
2005	5	5	0	0	1	0	0	0	0	0	0	0
2005	5	5	0	0	1	0	0	0	0	0	0	0
2005	5	5	0	0	1	0	0	0	0	0	0	0
2005	5	5	0	0	1	0	0	0	0	0	0	0
2005	5	5	0	0	1	0	0	0	0	0	0	0
2005	6	6	0	0	1	0	0	0	0	0	0	0
2005	6	6	0	0	1	0	0	0	0	0	0	0
2005	6	6	0	0	1	0	0	0	0	0	0	0
2005	6	6	0	0	1	0	0	0	0	0	0	0
2005	6	6	0	0	1	0	0	0	0	0	0	0
2005	7	7	0	0	1	0	0	0	0	0	0	0
2005	7	7	0	0	1	0	0	0	0	0	0	0
2005	7	7	0	0	1	0	0	0	0	0	0	0
2005	7	7	0	0	1	0	0	0	0	0	0	0
2005	7	7	0	0	1	0	0	0	0	0	0	0
2005	7	7	0	0	1	0	0	0	0	0	0	0
2005	7	7	0	0	1	0	0	0	0	0	0	0
2005	7	7	0	0	1	0	0	0	0	0	0	0
2005	7	7	0	0	1	0	0	0	0	0	0	0
2005	7	7	0	0	1	0	0	0	0	0	0	0
2005	8	8	0	0	1	0	0	0	0	0	0	0
2005	8	8	0	0	1	0	0	0	0	0	0	0
2005	8	8	0	0	1	0	0	0	0	0	0	0
2005	8	8	0	0	1	0	0	0	0	0	0	0
2005	8	8	0	0	1	0	0	0	0	0	0	0
2005	8	8	0	0	1	0	0	0	0	0	0	0
2005	9	9	0	0	1	0	0	0	0	0	0	0
2005	9	9	0	0	1	0	0	0	0	0	0	0
2005	9	9	0	0	1	0	0	0	0	0	0	0
2005	9	9	0	0	1	0	0	0	0	0	0	0
2005	9	9	0	0	1	0	0	0	0	0	0	0
2005	9	9	0	0	1	0	0	0	0	0	0	0
2005	10	10	0	0	1	0	0	0	0	0	0	0
2005	10	10	0	0	1	0	0	0	0	0	0	0
2005	10	10	0	0	1	0	0	0	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2005	10	10	0	0	1	0	0	0	0	0	0	1
2005	10	10	0	0	1	0	0	0	0	0	0	1
2005	11	11	0	0	1	0	0	0	0	0	0	1
2005	11	11	0	0	1	0	0	0	0	0	0	1
2005	11	11	0	0	1	0	0	0	0	0	0	1
2005	11	11	0	0	1	0	0	0	0	0	0	1
2005	11	11	0	0	1	0	0	0	0	0	0	1
2005	12	12	0	0	1	0	0	0	0	0	0	1
2005	12	12	0	0	1	0	0	0	0	0	0	1
2005	12	12	0	0	1	0	0	0	0	0	0	1
2005	12	12	0	0	1	0	0	0	0	0	0	1
2005	12	12	0	0	1	0	0	0	0	0	0	1
2006	1	1	0	0	1	0	0	0	0	0	0	1
2006	1	1	0	0	1	0	0	0	0	0	0	1
2006	1	1	0	0	1	0	0	0	0	0	0	1
2006	1	1	0	0	1	0	0	0	0	0	0	1
2006	1	1	0	0	1	0	0	0	0	0	0	1
2006	1	1	0	0	1	0	0	0	0	0	0	1
2006	2	2	0	0	1	0	0	0	0	0	0	1
2006	2	2	0	0	1	0	0	0	0	0	0	1
2006	2	2	0	0	1	0	0	0	0	0	0	1
2006	2	2	0	0	1	0	0	0	0	0	0	1
2006	2	2	0	0	1	0	0	0	0	0	0	1
2006	3	3	0	0	1	0	0	0	0	0	0	1
2006	3	3	0	0	1	0	0	0	0	0	0	1
2006	3	3	0	0	1	0	0	0	0	0	0	1
2006	3	3	0	0	1	0	0	0	0	0	0	1
2006	3	3	0	0	1	0	0	0	0	0	0	1
2006	4	4	0	0	1	0	0	0	0	0	0	1
2006	4	4	0	0	1	0	0	0	0	0	0	1
2006	4	4	0	0	1	0	0	0	0	0	0	1
2006	4	4	0	0	1	0	0	0	0	0	0	1
2006	4	4	0	0	1	0	0	0	0	0	0	1
2006	4	4	0	0	1	0	0	0	0	0	0	1
2006	5	5	0	0	1	0	0	0	0	0	0	1
2006	5	5	0	0	1	0	0	0	0	0	0	1
2006	5	5	0	0	1	0	0	0	0	0	0	1
2006	5	5	0	0	1	0	0	0	0	0	0	1

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2006	5	0	0	0	1	0	0	0	0	0	0	1
2006	6	0	0	0	1	0	0	0	0	0	0	1
2006	6	0	0	0	1	0	0	0	0	0	0	1
2006	6	0	0	0	1	0	0	0	0	0	0	1
2006	6	0	0	0	1	0	0	0	0	0	0	1
2006	6	0	0	0	1	0	0	0	0	0	0	1
2006	7	0	0	0	1	0	0	0	0	0	0	1
2006	7	0	0	0	1	0	0	0	0	0	0	1
2006	7	0	0	0	1	0	0	0	0	0	0	1
2006	7	0	0	0	1	0	0	0	0	0	0	1
2006	7	0	0	0	1	0	0	0	0	0	0	1
2006	8	0	0	0	1	0	0	0	0	0	0	1
2006	8	0	0	0	1	0	0	0	0	0	0	1
2006	8	0	0	0	1	0	0	0	0	0	0	1
2006	8	0	0	0	1	0	0	0	0	0	0	1
2006	8	0	0	0	1	0	0	0	0	0	0	1
2006	8	0	0	0	1	0	0	0	0	0	0	1
2006	8	0	0	0	1	0	0	0	0	0	0	1
2006	8	0	0	0	1	0	0	0	0	0	0	1
2006	9	0	0	0	1	0	0	0	0	0	0	1
2006	9	0	0	0	1	0	0	0	0	0	0	1
2006	9	0	0	0	1	0	0	0	0	0	0	1
2006	9	0	0	0	1	0	0	0	0	0	0	1
2006	9	0	0	0	1	0	0	0	0	0	0	1
2006	9	0	0	0	1	0	0	0	0	0	0	1
2006	10	0	0	0	1	0	0	0	0	0	0	1
2006	10	0	0	0	1	0	0	0	0	0	0	1
2006	10	0	0	0	1	0	0	0	0	0	0	1
2006	10	0	0	0	1	0	0	0	0	0	0	1
2006	10	0	0	0	1	0	0	0	0	0	0	1
2006	10	0	0	0	1	0	0	0	0	0	0	1
2006	11	0	0	0	1	0	0	0	0	0	0	1
2006	11	0	0	0	1	0	0	0	0	0	0	1
2006	11	0	0	0	1	0	0	0	0	0	0	1
2006	11	0	0	0	1	0	0	0	0	0	0	1
2006	11	0	0	0	1	0	0	0	0	0	0	1
2006	11	0	0	0	1	0	0	0	0	0	0	1
2006	12	0	0	0	1	0	0	0	0	0	0	1
2006	12	0	0	0	1	0	0	0	0	0	0	1
2006	12	0	0	0	1	0	0	0	0	0	0	1
2006	12	0	0	0	1	0	0	0	0	0	0	1
2006	12	0	0	0	1	0	0	0	0	0	0	1
2006	12	0	0	0	1	0	0	0	0	0	0	1

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2007	1	1	0	0	1	0	0	1	0	0	0	1
2007	1	1	0	0	1	0	0	1	0	0	0	1
2007	1	1	0	0	1	0	0	1	0	0	0	1
2007	1	1	0	0	1	0	0	1	0	0	0	1
2007	1	1	0	0	1	0	0	1	0	0	0	1
2007	2	2	0	0	1	0	0	-1	0	0	0	1
2007	2	2	0	0	1	0	0	-1	0	0	0	1
2007	2	2	0	0	1	0	0	-1	0	0	0	1
2007	2	2	0	0	1	0	0	-1	0	0	0	1
2007	2	2	0	0	1	0	0	-1	0	0	0	1
2007	3	3	0	0	1	0	0	0	0	0	0	1
2007	3	3	0	0	1	0	0	0	0	0	0	1
2007	3	3	0	0	1	0	0	0	0	0	0	1
2007	3	3	0	0	1	0	0	0	0	0	0	1
2007	3	3	0	0	1	0	0	0	0	0	0	1
2007	4	4	0	0	1	0	0	0	0	0	0	1
2007	4	4	0	0	1	0	0	0	0	0	0	1
2007	4	4	0	0	1	0	0	0	0	0	0	1
2007	4	4	0	0	1	0	0	0	0	0	0	1
2007	4	4	0	0	1	0	0	0	0	0	0	1
2007	5	5	0	0	1	0	0	0	0	0	0	1
2007	5	5	0	0	1	0	0	0	0	0	0	1
2007	5	5	0	0	1	0	0	0	0	0	0	1
2007	5	5	0	0	1	0	0	0	0	0	0	1
2007	5	5	0	0	1	0	0	0	0	0	0	1
2007	6	6	0	0	1	0	0	0	0	0	0	1
2007	6	6	0	0	1	0	0	0	0	0	0	1
2007	6	6	0	0	1	0	0	0	0	0	0	1
2007	6	6	0	0	1	0	0	0	0	0	0	1
2007	6	6	0	0	1	0	0	0	0	0	0	1
2007	7	7	0	0	1	0	0	0	0	0	0	1
2007	7	7	0	0	1	0	0	0	0	0	0	1
2007	7	7	0	0	1	0	0	0	0	0	0	1
2007	7	7	0	0	1	0	0	0	0	0	0	1
2007	7	7	0	0	1	0	0	0	0	0	0	1
2007	7	7	0	0	1	0	0	0	0	0	0	1
2007	8	8	0	0	1	0	0	0	0	0	0	1

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2007	8	0	0	1	0	0	0	0	0	0	0	1
2007	8	0	0	1	0	0	0	0	0	0	0	1
2007	8	0	0	1	0	0	0	0	0	0	0	1
2007	8	0	0	1	0	0	0	0	0	0	0	1
2007	9	0	0	1	0	0	0	0	0	0	0	1
2007	9	0	0	1	0	0	0	0	0	0	0	1
2007	9	0	0	1	0	0	0	0	0	0	0	1
2007	9	0	0	1	0	0	0	0	0	0	0	1
2007	9	0	0	1	0	0	0	0	0	0	0	1
2007	10	0	0	1	0	0	0	0	1	0	0	1
2007	10	0	0	1	0	0	0	0	1	0	0	1
2007	10	0	0	1	0	0	0	0	1	0	0	1
2007	10	0	0	1	0	0	0	0	1	0	0	1
2007	10	0	0	1	0	0	0	0	1	0	0	1
2007	11	0	0	1	0	0	0	0	-1	0	0	1
2007	11	0	0	1	0	0	0	0	-1	0	0	1
2007	11	0	0	1	0	0	0	0	-1	0	0	1
2007	11	0	0	1	0	0	0	0	-1	0	0	1
2007	11	0	0	1	0	0	0	0	-1	0	0	1
2007	12	0	0	1	0	0	0	0	0	0	0	1
2007	12	0	0	1	0	0	0	0	0	0	0	1
2007	12	0	0	1	0	0	0	0	0	0	0	1
2007	12	0	0	1	0	0	0	0	0	0	0	1
2007	12	0	0	1	0	0	0	0	0	0	0	1
2007	12	0	0	1	0	0	0	0	0	0	0	1
2008	1	0	0	1	0	0	0	0	0	0	0	1
2008	1	0	0	1	0	0	0	0	0	0	0	1
2008	1	0	0	1	0	0	0	0	0	0	0	1
2008	1	0	0	1	0	0	0	0	0	0	0	1
2008	1	0	0	1	0	0	0	0	0	0	0	1
2008	2	0	0	1	0	0	0	0	0	0	0	1
2008	2	0	0	1	0	0	0	0	0	0	0	1
2008	2	0	0	1	0	0	0	0	0	0	0	1
2008	2	0	0	1	0	0	0	0	0	0	0	1
2008	2	0	0	1	0	0	0	0	0	0	0	1
2008	3	0	0	1	0	0	0	0	0	0	0	1
2008	3	0	0	1	0	0	0	0	0	0	0	1

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2008	3	3	0	0	1	0	0	0	0	0	0	1
2008	3	3	0	0	1	0	0	0	0	0	0	1
2008	3	3	0	0	1	0	0	0	0	0	0	1
2008	4	4	0	0	1	0	0	0	0	0	0	1
2008	4	4	0	0	1	0	0	0	0	0	0	1
2008	4	4	0	0	1	0	0	0	0	0	0	1
2008	4	4	0	0	1	0	0	0	0	0	0	1
2008	4	4	0	0	1	0	0	0	0	0	0	1
2008	5	5	0	0	1	0	0	0	0	0	0	1
2008	5	5	0	0	1	0	0	0	0	0	0	1
2008	5	5	0	0	1	0	0	0	0	0	0	1
2008	5	5	0	0	1	0	0	0	0	0	0	1
2008	5	5	0	0	1	0	0	0	0	0	0	1
2008	6	6	0	0	1	0	0	0	0	0	0	1
2008	6	6	0	0	1	0	0	0	0	0	0	1
2008	6	6	0	0	1	0	0	0	0	0	0	1
2008	6	6	0	0	1	0	0	0	0	0	0	1
2008	6	6	0	0	1	0	0	0	0	0	0	1
2008	7	7	0	0	1	0	0	0	0	0	0	1
2008	7	7	0	0	1	0	0	0	0	0	0	1
2008	7	7	0	0	1	0	0	0	0	0	0	1
2008	7	7	0	0	1	0	0	0	0	0	0	1
2008	7	7	0	0	1	0	0	0	0	0	0	1
2008	7	7	0	0	1	0	0	0	0	0	0	1
2008	8	8	0	0	1	0	0	0	0	0	0	1
2008	8	8	0	0	1	0	0	0	0	0	0	1
2008	8	8	0	0	1	0	0	0	0	0	0	1
2008	8	8	0	0	1	0	0	0	0	0	0	1
2008	8	8	0	0	1	0	0	0	0	0	0	1
2008	8	8	0	0	1	0	0	0	0	0	0	1
2008	9	9	0	0	1	0	0	0	0	0	0	1
2008	9	9	0	0	1	0	0	0	0	0	0	1
2008	9	9	0	0	1	0	0	0	0	0	0	1
2008	9	9	0	0	1	0	0	0	0	0	0	1
2008	9	9	0	0	1	0	0	0	0	0	0	1
2008	10	10	0	0	1	0	0	0	0	0	0	1
2008	10	10	0	0	1	0	0	0	0	0	0	1
2008	10	10	0	0	1	0	0	0	0	0	0	1

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2008	10	10	0	0	1	0	0	0	0	0	0	1
2008	10	10	0	0	1	0	0	0	0	0	0	1
2008	11	11	0	0	1	0	0	0	0	0	0	1
2008	11	11	0	0	1	0	0	0	0	0	0	1
2008	11	11	0	0	1	0	0	0	0	0	0	1
2008	11	11	0	0	1	0	0	0	0	0	0	1
2008	11	11	0	0	1	0	0	0	0	0	0	1
2008	12	12	0	0	1	0	0	0	0	0	0	1
2008	12	12	0	0	1	0	0	0	0	0	0	1
2008	12	12	0	0	1	0	0	0	0	0	0	1
2008	12	12	0	0	1	0	0	0	0	0	0	1
2008	12	12	0	0	1	0	0	0	0	0	0	1
2009	1	1	0	0	1	0	0	0	0	0	0	1
2009	1	1	0	0	1	0	0	0	0	0	0	1
2009	1	1	0	0	1	0	0	0	0	0	0	1
2009	1	1	0	0	1	0	0	0	0	0	0	1
2009	1	1	0	0	1	0	0	0	0	0	0	1
2009	1	1	0	0	1	0	0	0	0	0	0	1
2009	2	2	0	0	1	0	0	0	0	0	0	1
2009	2	2	0	0	1	0	0	0	0	0	0	1
2009	2	2	0	0	1	0	0	0	0	0	0	1
2009	2	2	0	0	1	0	0	0	0	0	0	1
2009	2	2	0	0	1	0	0	0	0	0	0	1
2009	3	3	0	0	1	0	0	0	0	0	0	1
2009	3	3	0	0	1	0	0	0	0	0	0	1
2009	3	3	0	0	1	0	0	0	0	0	0	1
2009	3	3	0	0	1	0	0	0	0	0	0	1
2009	3	3	0	0	1	0	0	0	0	0	0	1
2009	4	4	0	0	1	0	0	0	0	0	0	1
2009	4	4	0	0	1	0	0	0	0	0	0	1
2009	4	4	0	0	1	0	0	0	0	0	0	1
2009	4	4	0	0	1	0	0	0	0	0	0	1
2009	4	4	0	0	1	0	0	0	0	0	0	1
2009	4	4	0	0	1	0	0	0	0	0	0	1
2009	5	5	0	0	1	0	0	0	0	0	0	1
2009	5	5	0	0	1	0	0	0	0	0	0	1
2009	5	5	0	0	1	0	0	0	0	0	0	1
2009	5	5	0	0	1	0	0	0	0	0	0	1

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2009	5	0	0	1	0	0	0	0	0	0	0	1
2009	6	0	0	1	0	0	0	0	0	0	0	1
2009	6	0	0	1	0	0	0	0	0	0	0	1
2009	6	0	0	1	0	0	0	0	0	0	0	1
2009	6	0	0	1	0	0	0	0	0	0	0	1
2009	6	0	0	1	0	0	0	0	0	0	0	1
2009	7	0	0	1	0	0	0	0	0	0	0	1
2009	7	0	0	1	0	0	0	0	0	0	0	1
2009	7	0	0	1	0	0	0	0	0	0	0	1
2009	7	0	0	1	0	0	0	0	0	0	0	1
2009	7	0	0	1	0	0	0	0	0	0	0	1
2009	8	0	0	1	0	0	0	0	0	0	0	1
2009	8	0	0	1	0	0	0	0	0	0	0	1
2009	8	0	0	1	0	0	0	0	0	0	0	1
2009	8	0	0	1	0	0	0	0	0	0	0	1
2009	8	0	0	1	0	0	0	0	0	0	0	1
2009	8	0	0	1	0	0	0	0	0	0	0	1
2009	8	0	0	1	0	0	0	0	0	0	0	1
2009	9	0	0	1	0	0	0	0	0	0	0	1
2009	9	0	0	1	0	0	0	0	0	0	0	1
2009	9	0	0	1	0	0	0	0	0	0	0	1
2009	9	0	0	1	0	0	0	0	0	0	0	1
2009	9	0	0	1	0	0	0	0	0	0	0	1
2009	9	0	0	1	0	0	0	0	0	0	0	1
2009	10	0	0	1	0	0	0	0	0	0	0	1
2009	10	0	0	1	0	0	0	0	0	0	0	1
2009	10	0	0	1	0	0	0	0	0	0	0	1
2009	10	0	0	1	0	0	0	0	0	0	0	1
2009	10	0	0	1	0	0	0	0	0	0	0	1
2009	11	0	0	1	0	0	0	0	0	0	0	1
2009	11	0	0	1	0	0	0	0	0	0	0	1
2009	11	0	0	1	0	0	0	0	0	0	0	1
2009	11	0	0	1	0	0	0	0	0	0	0	1
2009	11	0	0	1	0	0	0	0	0	0	0	1
2009	11	0	0	1	0	0	0	0	0	0	0	1
2009	12	0	0	1	0	0	0	0	0	0	0	1
2009	12	0	0	1	0	0	0	0	0	0	0	1
2009	12	0	0	1	0	0	0	0	0	0	0	1
2009	12	0	0	1	0	0	0	0	0	0	0	1
2009	12	0	0	1	0	0	0	0	0	0	0	1

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2010	1	1	0	0	1	0	0	0	0	0	0	1
2010	1	1	0	0	1	0	0	0	0	0	0	1
2010	1	1	0	0	1	0	0	0	0	0	0	1
2010	1	1	0	0	1	0	0	0	0	0	0	1
2010	1	1	0	0	1	0	0	0	0	0	0	1
2010	2	2	0	0	1	0	0	0	0	0	0	1
2010	2	2	0	0	1	0	0	0	0	0	0	1
2010	2	2	0	0	1	0	0	0	0	0	0	1
2010	2	2	0	0	1	0	0	0	0	0	0	1
2010	3	3	0	0	1	0	0	0	0	0	0	1
2010	3	3	0	0	1	0	0	0	0	0	0	1
2010	3	3	0	0	1	0	0	0	0	0	0	1
2010	3	3	0	0	1	0	0	0	0	0	0	1
2010	3	3	0	0	1	0	0	0	0	0	0	1
2010	4	4	0	0	1	0	0	0	0	0	0	1
2010	4	4	0	0	1	0	0	0	0	0	0	1
2010	4	4	0	0	1	0	0	0	0	0	0	1
2010	4	4	0	0	1	0	0	0	0	0	0	1
2010	4	4	0	0	1	0	0	0	0	0	0	1
2010	5	5	0	0	1	0	0	0	0	0	0	1
2010	5	5	0	0	1	0	0	0	0	0	0	1
2010	5	5	0	0	1	0	0	0	0	0	0	1
2010	5	5	0	0	1	0	0	0	0	0	0	1
2010	5	5	0	0	1	0	0	0	0	0	0	1
2010	6	6	0	0	1	0	0	0	0	0	0	1
2010	6	6	0	0	1	0	0	0	0	0	0	1
2010	6	6	0	0	1	0	0	0	0	0	0	1
2010	6	6	0	0	1	0	0	0	0	0	0	1
2010	6	6	0	0	1	0	0	0	0	0	0	1
2010	7	7	0	0	1	0	0	0	0	0	0	1
2010	7	7	0	0	1	0	0	0	0	0	0	1
2010	7	7	0	0	1	0	0	0	0	0	0	1
2010	7	7	0	0	1	0	0	0	0	0	0	1
2010	7	7	0	0	1	0	0	0	0	0	0	1
2010	7	7	0	0	1	0	0	0	0	0	0	1
2010	8	8	0	0	1	0	0	0	0	0	0	1

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2010	8	8	0	0	1	0	0	0	0	0	0	1
2010	8	8	0	0	1	0	0	0	0	0	0	1
2010	8	8	0	0	1	0	0	0	0	0	0	1
2010	8	8	0	0	1	0	0	0	0	0	0	1
2010	9	9	0	0	1	0	0	0	0	0	0	1
2010	9	9	0	0	1	0	0	0	0	0	0	1
2010	9	9	0	0	1	0	0	0	0	0	0	1
2010	9	9	0	0	1	0	0	0	0	0	0	1
2010	9	9	0	0	1	0	0	0	0	0	0	1
2010	10	10	0	0	1	0	0	0	0	0	0	1
2010	10	10	0	0	1	0	0	0	0	0	0	1
2010	10	10	0	0	1	0	0	0	0	0	0	1
2010	10	10	0	0	1	0	0	0	0	0	0	1
2010	10	10	0	0	1	0	0	0	0	0	0	1
2010	10	10	0	0	1	0	0	0	0	0	0	1
2010	11	11	0	0	1	0	0	0	0	0	0	1
2010	11	11	0	0	1	0	0	0	0	0	0	1
2010	11	11	0	0	1	0	0	0	0	0	0	1
2010	11	11	0	0	1	0	0	0	0	0	0	1
2010	11	11	0	0	1	0	0	0	0	0	0	1
2010	12	12	0	0	1	0	0	0	0	0	0	1
2010	12	12	0	0	1	0	0	0	0	0	0	1
2010	12	12	0	0	1	0	0	0	0	0	0	1
2010	12	12	0	0	1	0	0	0	0	0	0	1
2010	12	12	0	0	1	0	0	0	0	0	0	1
2011	1	1	0	0	1	0	0	0	0	0	0	1
2011	1	1	0	0	1	0	0	0	0	0	0	1
2011	1	1	0	0	1	0	0	0	0	0	0	1
2011	1	1	0	0	1	0	0	0	0	0	0	1
2011	1	1	0	0	1	0	0	0	0	0	0	1
2011	2	2	0	0	1	0	0	0	0	0	0	1
2011	2	2	0	0	1	0	0	0	0	0	0	1
2011	2	2	0	0	1	0	0	0	0	0	0	1
2011	2	2	0	0	1	0	0	0	0	0	0	1
2011	2	2	0	0	1	0	0	0	0	0	0	1
2011	3	3	0	0	1	0	0	0	0	0	0	1
2011	3	3	0	0	1	0	0	0	0	0	0	1

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2011	3	3	0	0	1	0	0	0	0	0	0	1
2011	3	3	0	0	1	0	0	0	0	0	0	1
2011	3	3	0	0	1	0	0	0	0	0	0	1
2011	4	4	0	0	1	0	0	0	0	0	0	1
2011	4	4	0	0	1	0	0	0	0	0	0	1
2011	4	4	0	0	1	0	0	0	0	0	0	1
2011	4	4	0	0	1	0	0	0	0	0	0	1
2011	4	4	0	0	1	0	0	0	0	0	0	1
2011	5	5	0	0	1	0	0	0	0	0	0	1
2011	5	5	0	0	1	0	0	0	0	0	0	1
2011	5	5	0	0	1	0	0	0	0	0	0	1
2011	5	5	0	0	1	0	0	0	0	0	0	1
2011	5	5	0	0	1	0	0	0	0	0	0	1
2011	6	6	0	0	1	0	0	0	0	0	0	1
2011	6	6	0	0	1	0	0	0	0	0	0	1
2011	6	6	0	0	1	0	0	0	0	0	0	1
2011	6	6	0	0	1	0	0	0	0	0	0	1
2011	6	6	0	0	1	0	0	0	0	0	0	1
2011	7	7	0	0	1	0	0	0	0	0	0	1
2011	7	7	0	0	1	0	0	0	0	0	0	1
2011	7	7	0	0	1	0	0	0	0	0	0	1
2011	7	7	0	0	1	0	0	0	0	0	0	1
2011	7	7	0	0	1	0	0	0	0	0	0	1
2011	7	7	0	0	1	0	0	0	0	0	0	1
2011	8	8	0	0	1	0	0	0	0	0	0	1
2011	8	8	0	0	1	0	0	0	0	0	0	1
2011	8	8	0	0	1	0	0	0	0	0	0	1
2011	8	8	0	0	1	0	0	0	0	0	0	1
2011	8	8	0	0	1	0	0	0	0	0	0	1
2011	9	9	0	0	1	0	0	0	0	0	0	1
2011	9	9	0	0	1	0	0	0	0	0	0	1
2011	9	9	0	0	1	0	0	0	0	0	0	1
2011	9	9	0	0	1	0	0	0	0	0	0	1
2011	9	9	0	0	1	0	0	0	0	0	0	1
2011	10	10	0	0	1	0	0	0	0	0	0	1
2011	10	10	0	0	1	0	0	0	0	0	0	1
2011	10	10	0	0	1	0	0	0	0	0	0	1

KPC_Use_Model_Input

YEAR	MONTH	ind2	ind3	ind4	ind5	ind6	ind7	ind8	min1	min2	or1	or2
2011	10	10	0	0	1	0	0	0	0	0	0	1
2011	10	10	0	0	1	0	0	0	0	0	0	1
2011	11	11	0	0	1	0	0	0	0	0	0	1
2011	11	11	0	0	1	0	0	0	0	0	0	1
2011	11	11	0	0	1	0	0	0	0	0	0	1
2011	11	11	0	0	1	0	0	0	0	0	0	1
2011	11	11	0	0	1	0	0	0	0	0	0	1
2011	12	12	0	0	1	0	0	0	0	0	0	1
2011	12	12	0	0	1	0	0	0	0	0	0	1
2011	12	12	0	0	1	0	0	0	0	0	0	1
2011	12	12	0	0	1	0	0	0	0	0	0	1
2011	12	12	0	0	1	0	0	0	0	0	0	1

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
1998	1	1	0	0	0
1998	1	1	0	0	0
1998	1	1	0	0	0
1998	1	1	0	0	0
1998	1	1	0	0	0
1998	2	2	0	0	0
1998	2	2	0	0	0
1998	2	2	0	0	0
1998	2	2	0	0	0
1998	2	2	0	0	0
1998	3	3	0	0	0
1998	3	3	0	0	0
1998	3	3	0	0	0
1998	3	3	0	0	0
1998	3	3	0	0	0
1998	4	4	0	0	0
1998	4	4	0	0	0
1998	4	4	0	0	0
1998	4	4	0	0	0
1998	4	4	0	0	0
1998	5	5	0	0	0
1998	5	5	0	0	0
1998	5	5	0	0	0
1998	5	5	0	0	0
1998	5	5	0	0	0
1998	6	6	0	0	0
1998	6	6	0	0	0
1998	6	6	0	0	0
1998	6	6	0	0	0
1998	6	6	0	0	0
1998	7	7	0	0	0
1998	7	7	0	0	0
1998	7	7	0	0	0
1998	7	7	0	0	0
1998	7	7	0	0	0
1998	8	8	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
1998	8	8	0	0	0
1998	8	8	0	0	0
1998	8	8	0	0	0
1998	8	8	0	0	0
1998	9	9	0	0	0
1998	9	9	0	0	0
1998	9	9	0	0	0
1998	9	9	0	0	0
1998	9	9	0	0	0
1998	10	10	0	0	0
1998	10	10	0	0	0
1998	10	10	0	0	0
1998	10	10	0	0	0
1998	10	10	0	0	0
1998	11	11	0	0	0
1998	11	11	0	0	0
1998	11	11	0	0	0
1998	11	11	0	0	0
1998	11	11	0	0	0
1998	12	12	0	0	0
1998	12	12	0	0	0
1998	12	12	0	0	0
1998	12	12	0	0	0
1998	12	12	0	0	0
1999	1	1	0	0	0
1999	1	1	0	0	0
1999	1	1	0	0	0
1999	1	1	0	0	0
1999	1	1	0	0	0
1999	2	2	0	0	0
1999	2	2	0	0	0
1999	2	2	0	0	0
1999	2	2	0	0	0
1999	2	2	0	0	0
1999	3	3	0	0	0
1999	3	3	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
1999	3	0	0	0	0
1999	3	0	0	0	0
1999	3	0	0	0	0
1999	4	0	0	0	0
1999	4	0	0	0	0
1999	4	0	0	0	0
1999	4	0	0	0	0
1999	4	0	0	0	0
1999	5	0	0	0	0
1999	5	0	0	0	0
1999	5	0	0	0	0
1999	5	0	0	0	0
1999	5	0	0	0	0
1999	6	0	0	0	0
1999	6	0	0	0	0
1999	6	0	0	0	0
1999	6	0	0	0	0
1999	6	0	0	0	0
1999	7	0	0	0	0
1999	7	0	0	0	0
1999	7	0	0	0	0
1999	7	0	0	0	0
1999	7	0	0	0	0
1999	8	0	0	0	0
1999	8	0	0	0	0
1999	8	0	0	0	0
1999	8	0	0	0	0
1999	8	0	0	0	0
1999	9	0	0	0	0
1999	9	0	0	0	0
1999	9	0	0	0	0
1999	9	0	0	0	0
1999	9	0	0	0	0
1999	10	0	0	0	0
1999	10	0	0	0	0
1999	10	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
1999	10	10	0	0	0
1999	10	10	0	0	0
1999	11	11	0	0	0
1999	11	11	0	0	0
1999	11	11	0	0	0
1999	11	11	0	0	0
1999	11	11	0	0	0
1999	11	11	0	0	0
1999	12	12	0	0	0
1999	12	12	0	0	0
1999	12	12	0	0	0
1999	12	12	0	0	0
1999	12	12	0	0	0
2000	1	1	0	0	0
2000	1	1	0	0	0
2000	1	1	0	0	0
2000	1	1	0	0	0
2000	1	1	0	0	0
2000	2	2	0	0	0
2000	2	2	0	0	0
2000	2	2	0	0	0
2000	2	2	0	0	0
2000	2	2	0	0	0
2000	2	2	0	0	0
2000	3	3	0	0	0
2000	3	3	0	0	0
2000	3	3	0	0	0
2000	3	3	0	0	0
2000	3	3	0	0	0
2000	4	4	0	0	0
2000	4	4	0	0	0
2000	4	4	0	0	0
2000	4	4	0	0	0
2000	4	4	0	0	0
2000	4	4	0	0	0
2000	5	5	0	0	0
2000	5	5	0	0	0
2000	5	5	0	0	0
2000	5	5	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2000	5	0	0	0	0
2000	6	0	0	0	0
2000	6	0	0	0	0
2000	6	0	0	0	0
2000	6	0	0	0	0
2000	6	0	0	0	0
2000	7	0	0	0	0
2000	7	0	0	0	0
2000	7	0	0	0	0
2000	7	0	0	0	0
2000	7	0	0	0	0
2000	8	0	0	0	0
2000	8	0	0	0	0
2000	8	0	0	0	0
2000	8	0	0	0	0
2000	8	0	0	0	0
2000	9	0	0	0	0
2000	9	0	0	0	0
2000	9	0	0	0	0
2000	9	0	0	0	0
2000	9	0	0	0	0
2000	10	0	0	0	0
2000	10	0	0	0	0
2000	10	0	0	0	0
2000	10	0	0	0	0
2000	10	0	0	0	0
2000	11	0	0	0	0
2000	11	0	0	0	0
2000	11	0	0	0	0
2000	11	0	0	0	0
2000	11	0	0	0	0
2000	12	0	0	0	0
2000	12	0	0	0	0
2000	12	0	0	0	0
2000	12	0	0	0	0
2000	12	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2001	1	1	0	0	0
2001	1	1	0	0	0
2001	1	1	0	0	0
2001	1	1	0	0	0
2001	1	1	0	0	0
2001	2	2	0	0	0
2001	2	2	0	0	0
2001	2	2	0	0	0
2001	2	2	0	0	0
2001	2	2	0	0	0
2001	3	3	0	0	0
2001	3	3	0	0	0
2001	3	3	0	0	0
2001	3	3	0	0	0
2001	3	3	0	0	0
2001	4	4	0	0	0
2001	4	4	0	0	0
2001	4	4	0	0	0
2001	4	4	0	0	0
2001	4	4	0	0	0
2001	5	5	0	0	0
2001	5	5	0	0	0
2001	5	5	0	0	0
2001	5	5	0	0	0
2001	5	5	0	0	0
2001	6	6	0	0	0
2001	6	6	0	0	0
2001	6	6	0	0	0
2001	6	6	0	0	0
2001	6	6	0	0	0
2001	7	7	0	0	0
2001	7	7	0	0	0
2001	7	7	0	0	0
2001	7	7	0	0	0
2001	7	7	0	0	0
2001	8	8	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2001	8	8	0	0	0
2001	8	8	0	0	0
2001	8	8	0	0	0
2001	8	8	0	0	0
2001	9	9	0	0	0
2001	9	9	0	0	0
2001	9	9	0	0	0
2001	9	9	0	0	0
2001	9	9	0	0	0
2001	10	10	0	0	0
2001	10	10	0	0	0
2001	10	10	0	0	0
2001	10	10	0	0	0
2001	10	10	0	0	0
2001	11	11	0	0	0
2001	11	11	0	0	0
2001	11	11	0	0	0
2001	11	11	0	0	0
2001	11	11	0	0	0
2001	12	12	0	0	0
2001	12	12	0	0	0
2001	12	12	0	0	0
2001	12	12	0	0	0
2001	12	12	0	0	0
2002	1	1	0	0	0
2002	1	1	0	0	0
2002	1	1	0	0	0
2002	1	1	0	0	0
2002	1	1	0	0	0
2002	2	2	0	0	0
2002	2	2	0	0	0
2002	2	2	0	0	0
2002	2	2	0	0	0
2002	2	2	0	0	0
2002	3	3	0	0	0
2002	3	3	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2002	3	0	0	0	0
2002	3	0	0	0	0
2002	3	0	0	0	0
2002	4	0	0	0	0
2002	4	0	0	0	0
2002	4	0	0	0	0
2002	4	0	0	0	0
2002	4	0	0	0	0
2002	5	0	0	0	0
2002	5	0	0	0	0
2002	5	0	0	0	0
2002	5	0	0	0	0
2002	5	0	0	0	0
2002	6	0	0	0	0
2002	6	0	0	0	0
2002	6	0	0	0	0
2002	6	0	0	0	0
2002	6	0	0	0	0
2002	7	0	0	0	0
2002	7	0	0	0	0
2002	7	0	0	0	0
2002	7	0	0	0	0
2002	7	0	0	0	0
2002	8	0	0	0	0
2002	8	0	0	0	0
2002	8	0	0	0	0
2002	8	0	0	0	0
2002	8	0	0	0	0
2002	9	0	0	0	0
2002	9	0	0	0	0
2002	9	0	0	0	0
2002	9	0	0	0	0
2002	9	0	0	0	0
2002	10	0	0	0	0
2002	10	0	0	0	0
2002	10	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2002	10	10	0	0	0
2002	10	10	0	0	0
2002	11	11	0	0	0
2002	11	11	0	0	0
2002	11	11	0	0	0
2002	11	11	0	0	0
2002	11	11	0	0	0
2002	12	12	0	0	0
2002	12	12	0	0	0
2002	12	12	0	0	0
2002	12	12	0	0	0
2002	12	12	0	0	0
2003	1	1	0	0	0
2003	1	1	0	0	0
2003	1	1	0	0	0
2003	1	1	0	0	0
2003	2	2	0	0	0
2003	2	2	0	0	0
2003	2	2	0	0	0
2003	2	2	0	0	0
2003	2	2	0	0	0
2003	3	3	0	0	0
2003	3	3	0	0	0
2003	3	3	0	0	0
2003	3	3	0	0	0
2003	3	3	0	0	0
2003	4	4	0	0	0
2003	4	4	0	0	0
2003	4	4	0	0	0
2003	4	4	0	0	0
2003	4	4	0	0	0
2003	5	5	0	0	0
2003	5	5	0	0	0
2003	5	5	0	0	0
2003	5	5	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2003	5	0	0	0	0
2003	6	0	0	0	0
2003	6	0	0	0	0
2003	6	0	0	0	0
2003	6	0	0	0	0
2003	6	0	0	0	0
2003	7	0	0	0	0
2003	7	0	0	0	0
2003	7	0	0	0	0
2003	7	0	0	0	0
2003	7	0	0	0	0
2003	8	0	0	0	0
2003	8	0	0	0	0
2003	8	0	0	0	0
2003	8	0	0	0	0
2003	8	0	0	0	0
2003	9	0	0	0	0
2003	9	0	0	0	0
2003	9	0	0	0	0
2003	9	0	0	0	0
2003	9	0	0	0	0
2003	10	0	0	0	0
2003	10	0	0	0	0
2003	10	0	0	0	0
2003	10	0	0	0	0
2003	10	0	0	0	0
2003	11	0	0	0	0
2003	11	0	0	0	0
2003	11	0	0	0	0
2003	11	0	0	0	0
2003	11	0	0	0	0
2003	12	0	0	0	0
2003	12	0	0	0	0
2003	12	0	0	0	0
2003	12	0	0	0	0
2003	12	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2004	1	1	0	0	0
2004	1	1	0	0	0
2004	1	1	0	0	0
2004	1	1	0	0	0
2004	1	1	0	0	0
2004	2	2	0	0	0
2004	2	2	0	0	0
2004	2	2	0	0	0
2004	2	2	0	0	0
2004	2	2	0	0	0
2004	3	3	0	0	0
2004	3	3	0	0	0
2004	3	3	0	0	0
2004	3	3	0	0	0
2004	3	3	0	0	0
2004	4	4	0	0	0
2004	4	4	0	0	0
2004	4	4	0	0	0
2004	4	4	0	0	0
2004	4	4	0	0	0
2004	5	5	0	0	0
2004	5	5	0	0	0
2004	5	5	0	0	0
2004	5	5	0	0	0
2004	5	5	0	0	0
2004	6	6	0	0	0
2004	6	6	0	0	0
2004	6	6	0	0	0
2004	6	6	0	0	0
2004	6	6	0	0	0
2004	7	7	0	0	0
2004	7	7	0	0	0
2004	7	7	0	0	0
2004	7	7	0	0	0
2004	7	7	0	0	0
2004	8	8	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2004	8	8	0	0	0
2004	8	8	0	0	0
2004	8	8	0	0	0
2004	8	8	0	0	0
2004	9	9	0	0	0
2004	9	9	0	0	0
2004	9	9	0	0	0
2004	9	9	0	0	0
2004	9	9	0	0	0
2004	10	10	0	0	0
2004	10	10	0	0	0
2004	10	10	0	0	0
2004	10	10	0	0	0
2004	10	10	0	0	0
2004	11	11	0	0	0
2004	11	11	0	0	0
2004	11	11	0	0	0
2004	11	11	0	0	0
2004	11	11	0	0	0
2004	12	12	0	0	0
2004	12	12	0	0	0
2004	12	12	0	0	0
2004	12	12	0	0	0
2004	12	12	0	0	0
2005	1	1	0	0	0
2005	1	1	0	0	0
2005	1	1	0	0	0
2005	1	1	0	0	0
2005	1	1	0	0	0
2005	2	2	0	0	0
2005	2	2	0	0	0
2005	2	2	0	0	0
2005	2	2	0	0	0
2005	2	2	0	0	0
2005	3	3	0	0	0
2005	3	3	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2005	3	0	0	0	0
2005	3	0	0	0	0
2005	3	0	0	0	0
2005	4	0	0	0	0
2005	4	0	0	0	0
2005	4	0	0	0	0
2005	4	0	0	0	0
2005	4	0	0	0	0
2005	5	0	0	0	0
2005	5	0	0	0	0
2005	5	0	0	0	0
2005	5	0	0	0	0
2005	5	0	0	0	0
2005	6	0	0	0	0
2005	6	0	0	0	0
2005	6	0	0	0	0
2005	6	0	0	0	0
2005	6	0	0	0	0
2005	7	0	0	0	0
2005	7	0	0	0	0
2005	7	0	0	0	0
2005	7	0	0	0	0
2005	7	0	0	0	0
2005	8	0	0	0	0
2005	8	0	0	0	0
2005	8	0	0	0	0
2005	8	0	0	0	0
2005	8	0	0	0	0
2005	9	0	0	0	0
2005	9	0	0	0	0
2005	9	0	0	0	0
2005	9	0	0	0	0
2005	9	0	0	0	0
2005	10	0	0	0	0
2005	10	0	0	0	0
2005	10	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2005	10	10	0	0	0
2005	10	10	0	0	0
2005	11	11	0	0	0
2005	11	11	0	0	0
2005	11	11	0	0	0
2005	11	11	0	0	0
2005	11	11	0	0	0
2005	11	11	0	0	0
2005	12	12	0	0	1
2005	12	12	0	0	1
2005	12	12	0	0	1
2005	12	12	0	0	1
2005	12	12	0	0	1
2006	1	1	0	0	0
2006	1	1	0	0	0
2006	1	1	0	0	0
2006	1	1	0	0	0
2006	1	1	0	0	0
2006	2	2	0	0	0
2006	2	2	0	0	0
2006	2	2	0	0	0
2006	2	2	0	0	0
2006	2	2	0	0	0
2006	2	2	0	0	0
2006	3	3	0	0	0
2006	3	3	0	0	0
2006	3	3	0	0	0
2006	3	3	0	0	0
2006	3	3	0	0	0
2006	4	4	0	0	0
2006	4	4	0	0	0
2006	4	4	0	0	0
2006	4	4	0	0	0
2006	4	4	0	0	0
2006	4	4	0	0	0
2006	5	5	0	0	0
2006	5	5	0	0	0
2006	5	5	0	0	0
2006	5	5	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2006	5	0	0	0	0
2006	6	0	0	0	0
2006	6	0	0	0	0
2006	6	0	0	0	0
2006	6	0	0	0	0
2006	6	0	0	0	0
2006	7	0	0	0	0
2006	7	0	0	0	0
2006	7	0	0	0	0
2006	7	0	0	0	0
2006	7	0	0	0	0
2006	7	0	0	0	0
2006	8	0	0	0	0
2006	8	0	0	0	0
2006	8	0	0	0	0
2006	8	0	0	0	0
2006	8	0	0	0	0
2006	9	0	0	0	0
2006	9	0	0	0	0
2006	9	0	0	0	0
2006	9	0	0	0	0
2006	9	0	0	0	0
2006	10	0	0	0	0
2006	10	0	0	0	0
2006	10	0	0	0	0
2006	10	0	0	0	0
2006	10	0	0	0	0
2006	11	0	0	0	0
2006	11	0	0	0	0
2006	11	0	0	0	0
2006	11	0	0	0	0
2006	11	0	0	0	0
2006	12	0	0	0	0
2006	12	0	0	0	0
2006	12	0	0	0	0
2006	12	0	0	0	0
2006	12	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2007	1	1	0	0	0
2007	1	1	0	0	0
2007	1	1	0	0	0
2007	1	1	0	0	0
2007	1	1	0	0	0
2007	2	2	0	0	0
2007	2	2	0	0	0
2007	2	2	0	0	0
2007	2	2	0	0	0
2007	2	2	0	0	0
2007	3	3	0	0	0
2007	3	3	0	0	0
2007	3	3	0	0	0
2007	3	3	0	0	0
2007	3	3	0	0	0
2007	4	4	0	0	0
2007	4	4	0	0	0
2007	4	4	0	0	0
2007	4	4	0	0	0
2007	4	4	0	0	0
2007	5	5	0	0	0
2007	5	5	0	0	0
2007	5	5	0	0	0
2007	5	5	0	0	0
2007	5	5	0	0	0
2007	6	6	0	0	0
2007	6	6	0	0	0
2007	6	6	0	0	0
2007	6	6	0	0	0
2007	6	6	0	0	0
2007	7	7	0	0	0
2007	7	7	0	0	0
2007	7	7	0	0	0
2007	7	7	0	0	0
2007	7	7	0	0	0
2007	8	8	-1	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2007	8	-1	0	0	0
2007	8	-1	0	0	0
2007	8	-1	0	0	0
2007	8	-1	0	0	0
2007	9	1	0	0	0
2007	9	1	0	0	0
2007	9	1	0	0	0
2007	9	1	0	0	0
2007	9	1	0	0	0
2007	10	0	0	0	0
2007	10	0	0	0	0
2007	10	0	0	0	0
2007	10	0	0	0	0
2007	10	0	0	0	0
2007	11	0	-1	0	0
2007	11	0	-1	0	0
2007	11	0	-1	0	0
2007	11	0	-1	0	0
2007	11	0	-1	0	0
2007	12	0	1	0	0
2007	12	0	1	0	0
2007	12	0	1	0	0
2007	12	0	1	0	0
2007	12	0	1	0	0
2008	1	0	0	0	0
2008	1	0	0	0	0
2008	1	0	0	0	0
2008	1	0	0	0	0
2008	1	0	0	0	0
2008	2	0	0	0	0
2008	2	0	0	0	0
2008	2	0	0	0	0
2008	2	0	0	0	0
2008	2	0	0	0	0
2008	3	0	0	0	0
2008	3	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1	
2008	3	3	0	0	0	0
2008	3	3	0	0	0	0
2008	3	3	0	0	0	0
2008	4	4	0	0	0	0
2008	4	4	0	0	0	0
2008	4	4	0	0	0	0
2008	4	4	0	0	0	0
2008	4	4	0	0	0	0
2008	5	5	0	0	0	0
2008	5	5	0	0	0	0
2008	5	5	0	0	0	0
2008	5	5	0	0	0	0
2008	5	5	0	0	0	0
2008	6	6	0	0	0	0
2008	6	6	0	0	0	0
2008	6	6	0	0	0	0
2008	6	6	0	0	0	0
2008	6	6	0	0	0	0
2008	7	7	0	0	0	0
2008	7	7	0	0	0	0
2008	7	7	0	0	0	0
2008	7	7	0	0	0	0
2008	7	7	0	0	0	0
2008	8	8	0	0	0	0
2008	8	8	0	0	0	0
2008	8	8	0	0	0	0
2008	8	8	0	0	0	0
2008	8	8	0	0	0	0
2008	9	9	0	0	-1	0
2008	9	9	0	0	-1	0
2008	9	9	0	0	-1	0
2008	9	9	0	0	-1	0
2008	9	9	0	0	-1	0
2008	10	10	0	0	1	0
2008	10	10	0	0	1	0
2008	10	10	0	0	1	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2008	10	10	0	0	1
2008	10	10	0	0	1
2008	11	11	0	0	0
2008	11	11	0	0	0
2008	11	11	0	0	0
2008	11	11	0	0	0
2008	11	11	0	0	0
2008	11	11	0	0	0
2008	12	12	0	0	0
2008	12	12	0	0	0
2008	12	12	0	0	0
2008	12	12	0	0	0
2008	12	12	0	0	0
2009	1	1	0	0	0
2009	1	1	0	0	0
2009	1	1	0	0	0
2009	1	1	0	0	0
2009	1	1	0	0	0
2009	2	2	0	0	0
2009	2	2	0	0	0
2009	2	2	0	0	0
2009	2	2	0	0	0
2009	2	2	0	0	0
2009	2	2	0	0	0
2009	3	3	0	0	0
2009	3	3	0	0	0
2009	3	3	0	0	0
2009	3	3	0	0	0
2009	3	3	0	0	0
2009	4	4	0	0	0
2009	4	4	0	0	0
2009	4	4	0	0	0
2009	4	4	0	0	0
2009	4	4	0	0	0
2009	4	4	0	0	0
2009	5	5	0	0	0
2009	5	5	0	0	0
2009	5	5	0	0	0
2009	5	5	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2009	5	0	0	0	0
2009	6	0	0	0	0
2009	6	0	0	0	0
2009	6	0	0	0	0
2009	6	0	0	0	0
2009	6	0	0	0	0
2009	7	0	0	0	0
2009	7	0	0	0	0
2009	7	0	0	0	0
2009	7	0	0	0	0
2009	7	0	0	0	0
2009	8	0	0	0	0
2009	8	0	0	0	0
2009	8	0	0	0	0
2009	8	0	0	0	0
2009	8	0	0	0	0
2009	9	0	0	0	0
2009	9	0	0	0	0
2009	9	0	0	0	0
2009	9	0	0	0	0
2009	9	0	0	0	0
2009	10	0	0	0	0
2009	10	0	0	0	0
2009	10	0	0	0	0
2009	10	0	0	0	0
2009	10	0	0	0	0
2009	11	0	0	0	0
2009	11	0	0	0	0
2009	11	0	0	0	0
2009	11	0	0	0	0
2009	11	0	0	0	0
2009	12	0	0	0	0
2009	12	0	0	0	0
2009	12	0	0	0	0
2009	12	0	0	0	0
2009	12	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2010	1	1	0	0	0
2010	1	1	0	0	0
2010	1	1	0	0	0
2010	1	1	0	0	0
2010	1	1	0	0	0
2010	2	2	0	0	0
2010	2	2	0	0	0
2010	2	2	0	0	0
2010	2	2	0	0	0
2010	2	2	0	0	0
2010	3	3	0	0	0
2010	3	3	0	0	0
2010	3	3	0	0	0
2010	3	3	0	0	0
2010	3	3	0	0	0
2010	4	4	0	0	0
2010	4	4	0	0	0
2010	4	4	0	0	0
2010	4	4	0	0	0
2010	4	4	0	0	0
2010	5	5	0	0	0
2010	5	5	0	0	0
2010	5	5	0	0	0
2010	5	5	0	0	0
2010	5	5	0	0	0
2010	6	6	0	0	0
2010	6	6	0	0	0
2010	6	6	0	0	0
2010	6	6	0	0	0
2010	6	6	0	0	0
2010	7	7	0	0	0
2010	7	7	0	0	0
2010	7	7	0	0	0
2010	7	7	0	0	0
2010	7	7	0	0	0
2010	8	8	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2010	8	8	0	0	0
2010	8	8	0	0	0
2010	8	8	0	0	0
2010	8	8	0	0	0
2010	9	9	0	0	0
2010	9	9	0	0	0
2010	9	9	0	0	0
2010	9	9	0	0	0
2010	9	9	0	0	0
2010	10	10	0	0	0
2010	10	10	0	0	0
2010	10	10	0	0	0
2010	10	10	0	0	0
2010	10	10	0	0	0
2010	11	11	0	0	0
2010	11	11	0	0	0
2010	11	11	0	0	0
2010	11	11	0	0	0
2010	11	11	0	0	0
2010	12	12	0	0	0
2010	12	12	0	0	0
2010	12	12	0	0	0
2010	12	12	0	0	0
2010	12	12	0	0	0
2011	1	1	0	0	0
2011	1	1	0	0	0
2011	1	1	0	0	0
2011	1	1	0	0	0
2011	1	1	0	0	0
2011	2	2	0	0	0
2011	2	2	0	0	0
2011	2	2	0	0	0
2011	2	2	0	0	0
2011	2	2	0	0	0
2011	3	3	0	0	0
2011	3	3	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1
2011	3	0	0	0	0
2011	3	0	0	0	0
2011	3	0	0	0	0
2011	4	0	0	0	0
2011	4	0	0	0	0
2011	4	0	0	0	0
2011	4	0	0	0	0
2011	4	0	0	0	0
2011	5	0	0	0	0
2011	5	0	0	0	0
2011	5	0	0	0	0
2011	5	0	0	0	0
2011	5	0	0	0	0
2011	6	0	0	0	0
2011	6	0	0	0	0
2011	6	0	0	0	0
2011	6	0	0	0	0
2011	6	0	0	0	0
2011	7	0	0	0	0
2011	7	0	0	0	0
2011	7	0	0	0	0
2011	7	0	0	0	0
2011	7	0	0	0	0
2011	8	0	0	0	0
2011	8	0	0	0	0
2011	8	0	0	0	0
2011	8	0	0	0	0
2011	8	0	0	0	0
2011	9	0	0	0	0
2011	9	0	0	0	0
2011	9	0	0	0	0
2011	9	0	0	0	0
2011	9	0	0	0	0
2011	10	0	0	0	0
2011	10	0	0	0	0
2011	10	0	0	0	0

KPC_Use_Model_Input

YEAR	MONTH	or3	or4	or5	im1	
2011	10	0	0	0	0	0
2011	10	0	0	0	0	0
2011	11	0	0	0	0	0
2011	11	0	0	0	0	0
2011	11	0	0	0	0	0
2011	11	0	0	0	0	0
2011	11	0	0	0	0	0
2011	11	0	0	0	0	0
2011	12	0	0	0	0	0
2011	12	0	0	0	0	0
2011	12	0	0	0	0	0
2011	12	0	0	0	0	0
2011	12	0	0	0	0	0

Residential

The ARIMA Procedure

Conditional Least Squares Estimation

Parameter	Estimate	Standard Error	t Value	Approx Pr > t	Lag	Variable	Shift
MU	13.58528	3.40242	3.99	0.0001	0	USAGE	0
MA1,1	-0.32848	0.09103	-3.61	0.0005	1	USAGE	0
AR1,1	-0.59668	0.08860	-6.73	<.0001	12	USAGE	0
NUM1	1.09073	0.08983	12.14	<.0001	0	bcdd65	0
NUM2	1.32983	0.04768	27.89	<.0001	0	bhdd55	0
NUM3	35.08012	13.30300	2.64	0.0096	0	MET_DAYS	0

Constant Estimate 21.69132
 Variance Estimate 1851.695
 Std Error Estimate 43.03133
 AIC 1228.527
 SBC 1245.151
 Number of Residuals 118

* AIC and SBC do not include log determinant.

Correlations of Parameter Estimates

Variable Parameter	USAGE MU	USAGE MA1,1	USAGE AR1,1	bcdd65 NUM1	bhdd55 NUM2	MET_DAYS NUM3
USAGE MU	1.000	0.004	-0.017	0.010	-0.054	-0.014
USAGE MA1,1	0.004	1.000	0.014	-0.035	-0.129	0.131
USAGE AR1,1	-0.017	0.014	1.000	0.055	0.066	0.060
bcdd65 NUM1	0.010	-0.035	0.055	1.000	0.026	0.002
bhdd55 NUM2	-0.054	-0.129	0.066	0.026	1.000	0.066
MET_DAYS NUM3	-0.014	0.131	0.060	0.002	0.066	1.000

Residential

The ARIMA Procedure

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	-----Autocorrelations-----					
6	2.13	4	0.7114	0.003	-0.024	-0.062	0.108	-0.013	-0.033
12	7.11	10	0.7153	-0.033	0.005	0.089	0.141	0.067	-0.068
18	13.64	16	0.6255	0.144	0.013	0.050	-0.113	0.026	0.104
24	18.68	22	0.6650	-0.025	-0.121	0.131	0.030	0.030	0.018

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error
0	1851.695	1.00000													*****									0
1	4.679034	0.00253										.		.										0.092057
2	-45.271429	-0.02445										.		.										0.092058
3	-114.134	-0.06164										.	*	.										0.092113
4	199.067	0.10751										.	**	.										0.092462
5	-23.600871	-0.01275										.		.										0.093515
6	-60.537870	-0.03269										.	*	.										0.093530
7	-60.507059	-0.03268										.	*	.										0.093627
8	9.513782	0.00514										.		.										0.093723
9	164.283	0.08872										.	**	.										0.093726
10	260.564	0.14072										.	***	.										0.094435
11	124.019	0.06698										.	*	.										0.096195
12	-126.450	-0.06829										.	*	.										0.096590
13	266.528	0.14394										.	***	.										0.096998
14	23.417286	0.01265										.		.										0.098791
15	91.804206	0.04958										.	*	.										0.098805
16	-208.695	-0.11270										.	**	.										0.099016
17	48.887705	0.02640										.	*	.										0.100097
18	191.692	0.10352										.	**	.										0.100156
19	-47.021537	-0.02539										.	*	.										0.101059
20	-224.346	-0.12116										.	**	.										0.101113
21	242.829	0.13114										.	***	.										0.102336

Residential

The ARIMA Procedure

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error
22	56.004557	0.03025										.		*	.									0.103750
23	55.041825	0.02973										.		*	.									0.103825
24	33.687206	0.01819										.		.	.									0.103897

"," marks two standard errors

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	-0.04596										.		*	.									
2	-0.01616										.		.	.									
3	0.12109										.		**	.									
4	-0.09110										.		**	.									
5	0.02324										.		.	.									
6	0.03796										.		*	.									
7	-0.03849										.		*	.									
8	0.05311										.		*	.									
9	-0.07098										.		*	.									
10	-0.17870										.		****	.									
11	-0.02059										.		.	.									
12	0.04212										.		*	.									
13	-0.12972										.		***	.									
14	0.05180										.		*	.									
15	-0.06283										.		*	.									
16	0.03518										.		*	.									
17	0.03980										.		*	.									
18	-0.11778										.		**	.									
19	0.05375										.		*	.									
20	0.12444										.		**	.									
21	-0.13003										.		***	.									
22	0.01610										.		.	.									

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The ARIMA Procedure

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
23	0.00821										.		.									
24	-0.03442										.		*		.							

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
1	0.00253										.		.									
2	-0.02446										.		.									
3	-0.06155										.		*		.							
4	0.10761										.		**		.							
5	-0.01696										.		.		.							
6	-0.03179										.		*		.							
7	-0.01982										.		.		.							
8	-0.00932										.		.		.							
9	0.08840										.		**		.							
10	0.14623										.		***		.							
11	0.07756										.		**		.							
12	-0.05550										.		*		.							
13	0.14955										.		***		.							
14	-0.00918										.		.		.							
15	0.04829										.		*		.							
16	-0.06923										.		*		.							
17	0.00882										.		.		.							
18	0.10927										.		**		.							
19	-0.06838										.		*		.							
20	-0.13061										.		***		.							
21	0.14163										.		***		.							
22	-0.01921										.		.		.							
23	-0.00770										.		.		.							
24	0.03952										.		*		.							

Residential

The ARIMA Procedure

Model for variable USAGE

Estimated Intercept 13.58528
Period(s) of Differencing 12

Autoregressive Factors

Factor 1: $1 + 0.59668 B^{**}(12)$

Moving Average Factors

Factor 1: $1 + 0.32848 B^{**}(1)$

Input Number 1

Input Variable bddd65
Period(s) of Differencing 12
Overall Regression Factor 1.090732

Input Number 2

Input Variable bhdd55
Period(s) of Differencing 12
Overall Regression Factor 1.329827

Input Number 3

Input Variable MET_DAYS
Period(s) of Differencing 12
Overall Regression Factor 35.08012

Residential

The ARIMA Procedure

Forecasts for variable USAGE

Obs	Forecast	Std Error	95% Confidence Limits	
131	1161.5851	43.0313	1077.2452	1245.9250
132	1797.8858	45.2934	1709.1124	1886.6593
133	2233.0699	45.2934	2144.2965	2321.8434
134	2110.6906	45.2934	2021.9172	2199.4641
135	1709.9305	45.2934	1621.1571	1798.7040
136	1317.3189	45.2934	1228.5454	1406.0923
137	1025.5911	45.2934	936.8176	1114.3645
138	1122.5764	45.2934	1033.8029	1211.3498
139	1303.8809	45.2934	1215.1075	1392.6544
140	1364.6879	45.2934	1275.9144	1453.4613
141	1312.0632	45.2934	1223.2898	1400.8366
142	1018.6969	45.2934	929.9234	1107.4703
143	1159.3684	48.5047	1064.3010	1254.4359
144	1756.9305	48.8386	1661.2086	1852.6523
145	2251.5959	48.8386	2155.8741	2347.3177
146	2093.7172	48.8386	1997.9954	2189.4391
147	1742.3288	48.8386	1646.6069	1838.0506
148	1351.2026	48.8386	1255.4808	1446.9245
149	1037.6668	48.8386	941.9450	1133.3886
150	1125.7633	48.8386	1030.0415	1221.4851
151	1321.0950	48.8386	1225.3731	1416.8168
152	1378.0567	48.8386	1282.3348	1473.7785
153	1292.9122	48.8386	1197.1904	1388.6341
154	1028.5047	48.8386	932.7829	1124.2266
155	1184.8551	58.7614	1069.6848	1300.0254
156	1803.0590	59.7337	1685.9831	1920.1348
157	2262.2332	59.7337	2145.1573	2379.3090
158	2125.5362	59.7337	2008.4604	2242.6120
159	1744.6888	59.7337	1627.6129	1861.7646
160	1352.6763	59.7337	1235.6004	1469.7521

Commercial

The ARIMA Procedure

Conditional Least Squares Estimation

Parameter	Estimate	Standard Error	t Value	Approx Pr > t	Lag	Variable	Shift
MU	-8.60810	3.03095	-2.84	0.0054	0	USAGE	0
MA1,1	0.50313	0.08612	5.84	<.0001	12	USAGE	0
AR1,1	-0.24127	0.09794	-2.46	0.0153	6	USAGE	0
AR2,1	-0.23967	0.09737	-2.46	0.0154	16	USAGE	0
NUM1	1.88451	0.16370	11.51	<.0001	0	bddd65	0
NUM2	1.50540	0.09683	15.55	<.0001	0	bhdd55	0
NUM3	134.16556	28.01562	4.79	<.0001	0	MET_DAYS	0

Constant Estimate -13.2458
 Variance Estimate 8036.037
 Std Error Estimate 89.64395
 AIC 1402.673
 SBC 1422.068
 Number of Residuals 118

* AIC and SBC do not include log determinant.

Correlations of Parameter Estimates

Variable Parameter	USAGE MU	USAGE MA1,1	USAGE AR1,1	USAGE AR2,1	bddd65 NUM1	bhdd55 NUM2	MET_DAYS NUM3
USAGE MU	1.000	-0.033	0.042	0.013	-0.002	-0.095	0.010
USAGE MA1,1	-0.033	1.000	-0.188	-0.027	-0.032	-0.057	-0.054
USAGE AR1,1	0.042	-0.188	1.000	0.081	-0.017	-0.020	0.156
USAGE AR2,1	0.013	-0.027	0.081	1.000	0.096	0.063	0.151
bddd65 NUM1	-0.002	-0.032	-0.017	0.096	1.000	0.043	0.083
bhdd55 NUM2	-0.095	-0.057	-0.020	0.063	0.043	1.000	-0.000
MET_DAYS NUM3	0.010	-0.054	0.156	0.151	0.083	-0.000	1.000

Commercial

The ARIMA Procedure

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	-----Autocorrelations-----					
6	1.34	3	0.7190	0.029	0.052	0.069	0.025	0.044	0.001
12	6.31	9	0.7086	-0.030	-0.121	-0.134	-0.043	0.046	0.026
18	10.26	15	0.8029	-0.101	0.016	0.098	0.009	0.064	0.068
24	13.43	21	0.8926	0.008	0.064	-0.104	0.027	-0.033	-0.069

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error
0	8036.037	1.00000																						0
1	236.796	0.02947													*									0.092057
2	416.358	0.05181													*									0.092137
3	553.580	0.06889													*									0.092384
4	201.642	0.02509													*									0.092818
5	357.003	0.04443													*									0.092876
6	11.767406	0.00146													.									0.093056
7	-241.651	-.03007													*									0.093056
8	-974.761	-.12130													**									0.093138
9	-1079.009	-.13427													***									0.094467
10	-346.656	-.04314													*									0.096071
11	369.394	0.04597													*									0.096235
12	210.647	0.02621													*									0.096421
13	-812.184	-.10107													**									0.096481
14	130.919	0.01629													.									0.097374
15	783.597	0.09751													.									0.097398
16	72.499624	0.00902													.									0.098221
17	511.961	0.06371													.									0.098228
18	545.166	0.06784													.									0.098578
19	65.708028	0.00818													.									0.098973
20	514.183	0.06398													.									0.098979
21	-837.584	-.10423													.									0.099328

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The ARIMA Procedure

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error
22	217.320	0.02704										.		*	.									0.100251
23	-267.667	-.03331										.		*	.									0.100313
24	-552.543	-.06876										.		*	.									0.100407

"," marks two standard errors

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	0.01113										.		.										
2	-0.07397										.		*	.									
3	-0.08081										.		**	.									
4	-0.02089										.		.	.									
5	-0.03696										.		*	.									
6	-0.05696										.		*	.									
7	-0.00914										.		.	.									
8	0.13891										.		**	*	.								
9	0.11368										.		**	.									
10	-0.01026										.		.	.									
11	-0.09075										.		**	.									
12	-0.02692										.		*	.									
13	0.11931										.		**	.									
14	-0.00011										.		.	.									
15	-0.07239										.		*	.									
16	0.01409										.		.	.									
17	-0.01006										.		.	.									
18	-0.04866										.		*	.									
19	-0.02394										.		.	.									
20	-0.06626										.		*	.									
21	0.11714										.		**	.									
22	0.00244										.		.	.									

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The ARIMA Procedure

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
23	0.01735										.		.									
24	0.01858										.		.									

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
1	0.02947										.		*	.								
2	0.05099										.		*	.								
3	0.06617										.		*	.								
4	0.01905										.		.	.								
5	0.03686										.		*	.								
6	-0.00719										.		.	.								
7	-0.03710										.		*	.								
8	-0.12674										.		***	.								
9	-0.13101										.		***	.								
10	-0.02719										.		*	.								
11	0.08012										.		**	.								
12	0.06016										.		*	.								
13	-0.08686										.		**	.								
14	0.01852										.		.	.								
15	0.09990										.		**	.								
16	-0.01062										.		.	.								
17	0.01602										.		.	.								
18	0.03998										.		*	.								
19	0.00738										.		.	.								
20	0.06752										.		*	.								
21	-0.13463										.		***	.								
22	-0.00547										.		.	.								
23	-0.01944										.		.	.								
24	-0.02048										.		.	.								

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The ARIMA Procedure

Model for variable USAGE

Estimated Intercept -8.6081
Period(s) of Differencing 12

Autoregressive Factors

Factor 1: 1 + 0.24127 B**(6)
Factor 2: 1 + 0.23967 B**(16)

Moving Average Factors

Factor 1: 1 - 0.50313 B**(12)

Input Number 1

Input Variable bdd65
Period(s) of Differencing 12
Overall Regression Factor 1.88451

Input Number 2

Input Variable bhdd55
Period(s) of Differencing 12
Overall Regression Factor 1.505395

Input Number 3

Input Variable MET_DAYS
Period(s) of Differencing 12
Overall Regression Factor 134.1656

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The ARIMA Procedure

Forecasts for variable USAGE

Obs	Forecast	Std Error	95% Confidence Limits	
131	3558.1010	89.6439	3382.4021	3733.7999
132	4160.7434	89.6439	3985.0445	4336.4423
133	4616.8918	89.6439	4441.1929	4792.5907
134	4333.8381	89.6439	4158.1392	4509.5371
135	3930.8272	89.6439	3755.1283	4106.5261
136	3736.9673	89.6439	3561.2684	3912.6662
137	3553.5668	92.2161	3372.8266	3734.3070
138	3888.6719	92.2161	3707.9317	4069.4121
139	4211.0604	92.2161	4030.3202	4391.8006
140	4224.1041	92.2161	4043.3639	4404.8443
141	4312.1901	92.2161	4131.4499	4492.9303
142	3770.2522	92.2161	3589.5120	3950.9924
143	3515.5030	104.7844	3310.1294	3720.8766
144	4121.5515	104.7844	3916.1778	4326.9251
145	4618.3138	104.7844	4412.9401	4823.6874
146	4323.6664	104.7844	4118.2928	4529.0401
147	3924.0745	106.9644	3714.4282	4133.7209
148	3725.0083	106.9644	3515.3619	3934.6547
149	3552.8856	107.6360	3341.9229	3763.8482
150	3885.9799	107.6360	3675.0173	4096.9426
151	4206.0672	107.6360	3995.1045	4417.0299
152	4216.0322	107.6360	4005.0695	4426.9949
153	4295.1308	107.7607	4083.9236	4506.3380
154	3755.1057	107.7607	3543.8986	3966.3129
155	3523.8840	117.7399	3293.1180	3754.6500
156	4125.2719	117.7399	3894.5059	4356.0379
157	4612.3615	117.7399	4381.5955	4843.1275
158	4322.6195	117.7399	4091.8535	4553.3854
159	3927.0710	118.3424	3695.1243	4159.0177
160	3724.3232	118.3424	3492.3764	3956.2699

Industrial

The ARIMA Procedure

Conditional Least Squares Estimation

Parameter	Estimate	Standard Error	t Value	Approx Pr > t	Lag	Variable	Shift
MU	26309794	13324193	1.97	0.0509	0	KWH	0
AR1,1	0.28073	0.10267	2.73	0.0073	2	KWH	0
NUM1	-76815218	2586175.4	-29.70	<.0001	0	ind1	0
NUM2	166724967	3644242.5	45.75	<.0001	0	ind2	0
NUM3	88305605	3566070.1	24.76	<.0001	0	ind3	0
NUM4	-18833222	944990.0	-19.93	<.0001	0	ind4	0
NUM5	16167406	2509987.9	6.44	<.0001	0	ind5	0
NUM6	16326474	2521237.0	6.48	<.0001	0	ind6	0
NUM7	15941828	2600622.8	6.13	<.0001	0	ind7	0
NUM8	33914573	2575498.6	13.17	<.0001	0	ind8	0
NUM9	675338.8	438005.7	1.54	0.1261	0	MET_DAYS	0

Constant Estimate 18923760
 Variance Estimate 1.355E13
 Std Error Estimate 3681344
 AIC 3913.357
 SBC 3943.834
 Number of Residuals 118

* AIC and SBC do not include log determinant.

Industrial

The ARIMA Procedure

Correlations of Parameter Estimates

Variable Parameter		KWH MU	KWH AR1,1	ind1 NUM1	ind2 NUM2	ind3 NUM3	ind4 NUM4
KWH	MU	1.000	0.001	0.246	0.178	-0.039	-0.047
KWH	AR1,1	0.001	1.000	0.010	0.105	-0.036	0.118
ind1	NUM1	0.246	0.010	1.000	0.046	-0.009	-0.000
ind2	NUM2	0.178	0.105	0.046	1.000	-0.000	0.084
ind3	NUM3	-0.039	-0.036	-0.009	-0.000	1.000	0.071
ind4	NUM4	-0.047	0.118	-0.000	0.084	0.071	1.000
ind5	NUM5	-0.037	0.038	-0.009	-0.003	-0.000	0.005
ind6	NUM6	-0.107	-0.015	-0.027	-0.021	0.004	-0.001
ind7	NUM7	0.261	0.054	0.065	0.054	-0.011	0.005
ind8	NUM8	-0.110	0.202	-0.025	0.001	-0.004	0.025
MET_DAYS	NUM9	-0.998	-0.004	-0.246	-0.184	0.033	0.005

Correlations of Parameter Estimates

Variable Parameter		ind5 NUM5	ind6 NUM6	ind7 NUM7	ind8 NUM8	MET_DAYS NUM9
KWH	MU	-0.037	-0.107	0.261	-0.110	-0.998
KWH	AR1,1	0.038	-0.015	0.054	0.202	-0.004
ind1	NUM1	-0.009	-0.027	0.065	-0.025	-0.246
ind2	NUM2	-0.003	-0.021	0.054	0.001	-0.184
ind3	NUM3	-0.000	0.004	-0.011	-0.004	0.033
ind4	NUM4	0.005	-0.001	0.005	0.025	0.005
ind5	NUM5	1.000	0.003	-0.008	0.012	0.037
ind6	NUM6	0.003	1.000	-0.029	0.009	0.107
ind7	NUM7	-0.008	-0.029	1.000	-0.018	-0.261
ind8	NUM8	0.012	0.009	-0.018	1.000	0.109
MET_DAYS	NUM9	0.037	0.107	-0.261	0.109	1.000

Industrial

The ARIMA Procedure

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	-----Autocorrelations-----					
6	6.39	5	0.2704	0.126	-0.046	0.099	0.141	0.054	0.036
12	15.25	11	0.1714	-0.040	0.173	0.145	-0.036	0.000	0.119
18	18.91	17	0.3337	-0.029	0.047	-0.006	-0.063	-0.101	-0.094
24	23.02	23	0.4597	-0.080	0.078	-0.038	-0.084	0.013	0.083

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error	
0	1.35523E13	1.00000																						0	
1	1.703E12	0.12566																							0.092057
2	-6.2698E11	-0.04626									*														0.093500
3	1.34578E12	0.09930																							0.093694
4	1.91363E12	0.14120																							0.094581
5	7.30879E11	0.05393																							0.096351
6	4.8121E11	0.03551																							0.096607
7	-5.371E11	-0.03963										*													0.096717
8	2.34752E12	0.17322																							0.096855
9	1.9608E12	0.14468																							0.099446
10	-4.909E11	-0.03622										*													0.101214
11	21529392	0.00000																							0.101324
12	1.61949E12	0.11950																							0.101324
13	-3.9708E11	-0.02930										*													0.102511
14	6.37325E11	0.04703																							0.102582
15	-7.4997E10	-0.00553																							0.102764
16	-8.5386E11	-0.06300										*													0.102767
17	-1.3704E12	-0.10112																							0.103094
18	-1.276E12	-0.09415																							0.103931
19	-1.0863E12	-0.08015																							0.104651
20	1.05834E12	0.07809																							0.105170
21	-5.1047E11	-0.03767										*													0.105661

Industrial

The ARIMA Procedure

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error
22	-1.1348E12	-.08373										. **		.										0.105774
23	1.77726E11	0.01311										.		.										0.106334
24	1.12703E12	0.08316										.		**	.									0.106348

"," marks two standard errors

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	-0.07990										. **		.										
2	0.06733										.		*	.									
3	-0.06904										.		*	.									
4	-0.06557										.		*	.									
5	0.00241										.		.	.									
6	-0.02118										.		.	.									
7	0.01283										.		.	.									
8	-0.15498										.		***	.									
9	-0.12998										.		***	.									
10	0.00897										.		.	.									
11	0.01984										.		.	.									
12	-0.06616										.		*	.									
13	0.02651										.		*	.									
14	-0.09297										.		**	.									
15	0.02864										.		*	.									
16	0.08065										.		**	.									
17	0.11084										.		**	.									
18	0.06375										.		*	.									
19	0.05259										.		*	.									
20	-0.05778										.		*	.									
21	0.02294										.		.	.									
22	0.01739										.		.	.									

Industrial

The ARIMA Procedure

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
23	0.00299										.		.									
24	-0.07812										.	**		.								

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
1	0.12566										.		***.									
2	-0.06305										.	*		.								
3	0.11569										.	**		.								
4	0.11275										.	**		.								
5	0.03482										.	*		.								
6	0.03107										.	*		.								
7	-0.07064										.	*		.								
8	0.17576										.	****		.								
9	0.08296										.	**		.								
10	-0.04523										.	*		.								
11	0.00491										.			.								
12	0.06027										.	*		.								
13	-0.08115										.	**		.								
14	0.06502										.	*		.								
15	-0.03131										.	*		.								
16	-0.08034										.	**		.								
17	-0.14130										.	***		.								
18	-0.09824										.	**		.								
19	-0.04017										.	*		.								
20	0.08498										.	**		.								
21	-0.01772										.			.								
22	-0.02965										.	*		.								
23	0.01647										.			.								
24	0.08946										.	**		.								

Industrial

The ARIMA Procedure

Model for variable KWH

Estimated Intercept 26309794

Autoregressive Factors

Factor 1: 1 - 0.28073 B**(2)

Input Number 1

Input Variable	ind1
Overall Regression Factor	-7.682E7

Input Number 2

Input Variable	ind2
Overall Regression Factor	1.6672E8

Input Number 3

Input Variable	ind3
Overall Regression Factor	88305605

Input Number 4

Input Variable	ind4
Overall Regression Factor	-1.883E7

Industrial

The ARIMA Procedure

Input Number 5

Input Variable	ind5
Overall Regression Factor	16167406

Input Number 6

Input Variable	ind6
Overall Regression Factor	16326474

Input Number 7

Input Variable	ind7
Overall Regression Factor	15941828

Input Number 8

Input Variable	ind8
Overall Regression Factor	33914573

Input Number 9

Input Variable	MET_DAYS
Overall Regression Factor	675338.8

Industrial

The ARIMA Procedure

Forecasts for variable KWH

Obs	Forecast	Std Error	95% Confidence Limits	
119	29625635.1	3681344	22410333.4	36840936.8
120	32191768.8	3681344	24976467.1	39407070.5
121	29454613.5	3823659	21960380.1	36948846.8
122	28179459.1	3823659	20685225.7	35673692.4
123	27840488.4	3834650	20324712.2	35356264.6
124	28106034.2	3834650	20590258.0	35621810.4
125	27676436.6	3835515	20158965.2	35193908.0
126	28092983.4	3835515	20575512.0	35610454.8
127	28146044.6	3835583	20628439.6	35663649.6
128	27775560.1	3835583	20257955.1	35293165.1
129	28028210.3	3835589	20510594.8	35545825.8
130	27763928.8	3835589	20246313.3	35281544.3
131	27859716.3	3835589	20342099.9	35377332.6
132	29036893.8	3835589	21519277.4	36554510.1
133	28907438.2	3835589	21389821.8	36425054.6
134	27293780.7	3835589	19776164.3	34811397.2
135	27686878.1	3835589	20169261.7	35204494.5
136	27857394.9	3835589	20339778.5	35375011.3
137	27633313.1	3835589	20115696.6	35150929.5
138	28023182.1	3835589	20505565.7	35540798.5
139	28133938.4	3835589	20616322.0	35651554.8
140	27755964.5	3835589	20238348.1	35273581.0
141	28024811.7	3835589	20507195.3	35542428.1
142	27758427.7	3835589	20240811.3	35276044.1
143	27858762.2	3835589	20341145.7	35376378.6
144	29035349.4	3835589	21517733.0	36552965.8
145	28907170.4	3835589	21389554.0	36424786.8
146	27293347.2	3835589	19775730.8	34810963.6
147	27686802.9	3835589	20169186.5	35204419.3
148	27857273.2	3835589	20339656.7	35374889.6

Industrial Mine Power

The ARIMA Procedure

Conditional Least Squares Estimation

Parameter	Estimate	Standard Error	t Value	Approx Pr > t	Lag	Variable	Shift
MU	-319500.3	559822.2	-0.57	0.5697	0	KWH	0
MA1,1	-0.41194	0.10383	-3.97	0.0002	3	KWH	0
MA2,1	0.49670	0.09798	5.07	<.0001	12	KWH	0
AR1,1	0.22174	0.10723	2.07	0.0417	1	KWH	0
AR1,2	0.28670	0.10714	2.68	0.0089	2	KWH	0
NUM1	6041805.3	2615988.9	2.31	0.0233	0	min1	0
NUM2	-11587565	2649491.3	-4.37	<.0001	0	min2	0
NUM3	9356672.2	2641910.8	3.54	0.0006	0	im1	0
NUM4	-321518.9	909061.3	-0.35	0.7245	0	MET_DAYS	0

Constant Estimate -157055
 Variance Estimate 1.182E13
 Std Error Estimate 3437996
 AIC 3104.775
 SBC 3127.665
 Number of Residuals 94

* AIC and SBC do not include log determinant.

Industrial Mine Power

The ARIMA Procedure

Correlations of Parameter Estimates

Variable		KWH	KWH	KWH	KWH	KWH	min1	min2	im1	MET_DAYS
Parameter	MU	MA1,1	MA2,1	AR1,1	AR1,2	NUM1	NUM2	NUM3	NUM4	
KWH	MU	1.000	-0.025	-0.002	0.039	0.079	-0.030	0.009	0.003	0.009
KWH	MA1,1	-0.025	1.000	-0.088	0.154	0.058	-0.044	-0.011	-0.166	-0.113
KWH	MA2,1	-0.002	-0.088	1.000	0.007	-0.080	0.127	0.137	0.042	0.056
KWH	AR1,1	0.039	0.154	0.007	1.000	-0.316	0.050	0.154	-0.065	0.053
KWH	AR1,2	0.079	0.058	-0.080	-0.316	1.000	-0.122	-0.161	0.060	-0.009
min1	NUM1	-0.030	-0.044	0.127	0.050	-0.122	1.000	-0.043	0.001	0.012
min2	NUM2	0.009	-0.011	0.137	0.154	-0.161	-0.043	1.000	0.008	0.031
im1	NUM3	0.003	-0.166	0.042	-0.065	0.060	0.001	0.008	1.000	-0.049
MET_DAYS	NUM4	0.009	-0.113	0.056	0.053	-0.009	0.012	0.031	-0.049	1.000

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	-----Autocorrelations-----						
6	3.64	2	0.1620	-0.005	-0.042	-0.048	0.120	0.115	-0.065	
12	6.62	8	0.5783	0.003	0.024	0.157	-0.040	-0.035	0.010	
18	11.40	14	0.6544	0.086	-0.021	-0.174	0.004	-0.061	0.005	
24	13.50	20	0.8551	0.010	-0.014	0.010	-0.113	-0.046	-0.036	

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1																			Std Error
0	1.18198E13	1.00000	*****																			0
1	-5.7371E10	-.00485	. .																			0.103142
2	-5.015E11	-.04243	. * .																			0.103145
3	-5.6235E11	-.04758	. * .																			0.103330
4	1.4217E12	0.12028	. ** .																			0.103563
5	1.36324E12	0.11534	. ** .																			0.105038

Industrial Mine Power

The ARIMA Procedure

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error
6	-7.726E11	-.06537										.	*		.									0.106377
7	4.04095E10	0.00342										.		.										0.106804
8	2.82124E11	0.02387										.		.										0.106805
9	1.85104E12	0.15660										.		***	.									0.106862
10	-4.7102E11	-.03985										.	*		.									0.109276
11	-4.1119E11	-.03479										.	*		.									0.109430
12	1.17603E11	0.00995										.		.										0.109548
13	1.02079E12	0.08636										.		**	.									0.109557
14	-2.5205E11	-.02132										.		.										0.110279
15	-2.0576E12	-.17408										.		***	.									0.110323
16	5.14585E10	0.00435										.		.										0.113208
17	-7.1756E11	-.06071										.	*		.									0.113209
18	6.0192E10	0.00509										.		.										0.113555
19	1.19083E11	0.01007										.		.										0.113558
20	-1.6537E11	-.01399										.		.										0.113567
21	1.18143E11	0.01000										.		.										0.113586
22	-1.3378E12	-.11318										.	*		.									0.113595
23	-5.4515E11	-.04612										.	*		.									0.114788
24	-4.3069E11	-.03644										.	*		.									0.114985

".*" marks two standard errors

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	0.02796										.		*	.									
2	0.01095										.		.										
3	0.03027										.		*	.									
4	-0.08441										.		**	.									
5	-0.07753										.		**	.									
6	0.01111										.		.	.									

Industrial Mine Power

The ARIMA Procedure

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1		
7	0.00327									.			.											
8	-0.00392									.			.											
9	-0.12161									.	**		.											
10	-0.00571									.			.											
11	-0.00447									.			.											
12	-0.00493									.			.											
13	-0.08737									.	**		.											
14	0.04374									.			*											
15	0.14976									.			***											
16	0.00639									.			.											
17	0.06986									.			*											
18	0.00318									.			.											
19	-0.05898									.	*		.											
20	-0.00378									.			.											
21	-0.00150									.			.											
22	0.10209									.			**											
23	0.03924									.			*											
24	0.00384									.			.											

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1		
1	-0.00485									.			.											
2	-0.04245									.	*		.											
3	-0.04809									.	*		.											
4	0.11839									.			**											
5	0.11435									.			**											
6	-0.05802									.	*		.											
7	0.02211									.			.											
8	0.01713									.			.											
9	0.12927									.			***											

Industrial Mine Power

The ARIMA Procedure

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
10	-0.03549										.	*		.								
11	-0.01515										.		.									
12	0.00954										.		.									
13	0.05068										.		*	.								
14	-0.04530										.		*	.								
15	-0.15018										.		***	.								
16	0.00061										.		.	.								
17	-0.10031										.		**	.								
18	-0.03743										.		*	.								
19	0.06487										.		*	.								
20	0.01248										.		.	.								
21	0.00742										.		.	.								
22	-0.11086										.		**	.								
23	-0.04303										.		*	.								
24	-0.00423										.		.	.								

Model for variable KWH

Estimated Intercept -319500
 Period(s) of Differencing 12

Autoregressive Factors

Factor 1: 1 - 0.22174 B**(1) - 0.2867 B**(2)

Moving Average Factors

Factor 1: 1 + 0.41194 B**(3)
 Factor 2: 1 - 0.4967 B**(12)

Industrial Mine Power

The ARIMA Procedure

Input Number 1

Input Variable	min1
Period(s) of Differencing	12
Overall Regression Factor	6041805

Input Number 2

Input Variable	min2
Period(s) of Differencing	12
Overall Regression Factor	-1.159E7

Input Number 3

Input Variable	im1
Period(s) of Differencing	12
Overall Regression Factor	9356672

Input Number 4

Input Variable	MET_DAYS
Period(s) of Differencing	12
Overall Regression Factor	-321519

Industrial Mine Power

The ARIMA Procedure

Forecasts for variable KWH

Obs	Forecast	Std Error	95% Confidence Limits	
107	76309377.9	3437996	69571029.3	83047726.6
108	81434604.9	3521502	74532588.1	88336621.8
109	84169797.4	3705984	76906202.1	91433392.8
110	84251973.8	4160485	76097573.2	92406374.3
111	80817714.0	4227603	72531765.2	89103662.7
112	76819129.3	4286556	68417633.3	85220625.4
113	71822538.8	4302686	63389428.9	80255648.7
114	70712339.8	4312158	62260665.6	79164014.0
115	64024723.7	4315510	55566480.1	72482967.3
116	68188197.8	4317167	59726706.4	76649689.2
117	70484807.8	4317823	62022030.3	78947585.3
118	70376155.9	4318124	61912788.6	78839523.3
119	75534796.3	4664243	66393048.4	84676544.1
120	81112915.5	4681844	71936669.4	90289161.6
121	83653112.6	4719558	74402949.8	92903275.5
122	83888122.4	4816426	74448100.6	93328144.1
123	80431847.0	4831696	70961897.0	89901797.1
124	76472197.6	4845138	66975902.1	85968493.2
125	71477928.8	4848862	61974333.3	80981524.3
126	70379407.2	4851046	60871532.0	79887282.3
127	63695046.0	4851821	54185650.8	73204441.2
128	67862589.8	4852204	58352444.1	77372735.5
129	70161035.3	4852356	60650592.0	79671478.7
130	70053957.3	4852426	60543377.5	79564537.0
131	75213472.8	5157366	65105221.0	85321724.6
132	80792237.3	5172459	70654403.7	90930071.0
133	83332828.5	5205824	73129601.1	93536055.8
134	83568110.6	5292963	73194093.6	93942127.5
135	80112008.6	5306643	69711178.9	90512838.3
136	76152475.7	5318750	65727917.9	86577033.5

Other Retail

The ARIMA Procedure

Conditional Least Squares Estimation

Parameter	Estimate	Standard Error	t Value	Approx Pr > t	Lag	Variable	Shift
MU	8384.5	4241.2	1.98	0.0506	0	KWH	0
MA1,1	0.79110	0.07172	11.03	<.0001	12	KWH	0
AR1,1	0.27329	0.10591	2.58	0.0112	1	KWH	0
AR2,1	0.39677	0.09820	4.04	0.0001	5	KWH	0
AR2,2	0.37396	0.09730	3.84	0.0002	11	KWH	0
NUM1	-98810.1	17533.4	-5.64	<.0001	0	or1	0
NUM2	115433.2	18359.5	6.29	<.0001	0	or2	0
NUM3	350792.0	17803.4	19.70	<.0001	0	or3	0
NUM4	80388.0	18771.7	4.28	<.0001	0	or4	0
NUM5	119356.5	21168.3	5.64	<.0001	0	or5	0
NUM6	16108.9	11376.8	1.42	0.1597	0	MET_DAYS	0

Constant Estimate 1396.935
 Variance Estimate 8.9191E8
 Std Error Estimate 29864.92
 AIC 2777.17
 SBC 2807.648
 Number of Residuals 118

* AIC and SBC do not include log determinant.

Other Retail

The ARIMA Procedure

Correlations of Parameter Estimates

Variable Parameter		KWH MU	KWH MA1,1	KWH AR1,1	KWH AR2,1	KWH AR2,2	or1 NUM1
KWH	MU	1.000	0.074	-0.065	-0.062	-0.019	-0.363
KWH	MA1,1	0.074	1.000	0.018	0.075	0.082	-0.083
KWH	AR1,1	-0.065	0.018	1.000	0.104	0.060	0.244
KWH	AR2,1	-0.062	0.075	0.104	1.000	-0.171	0.305
KWH	AR2,2	-0.019	0.082	0.060	-0.171	1.000	0.203
or1	NUM1	-0.363	-0.083	0.244	0.305	0.203	1.000
or2	NUM2	-0.053	0.088	0.254	-0.018	0.032	0.138
or3	NUM3	0.030	-0.007	-0.357	-0.034	-0.132	-0.125
or4	NUM4	-0.033	-0.124	0.117	0.238	-0.122	0.094
or5	NUM5	-0.038	-0.091	0.080	0.206	0.103	0.132
MET_DAYS	NUM6	0.010	-0.005	-0.028	0.224	-0.130	0.035

Correlations of Parameter Estimates

Variable Parameter		or2 NUM2	or3 NUM3	or4 NUM4	or5 NUM5	MET_DAYS NUM6
KWH	MU	-0.053	0.030	-0.033	-0.038	0.010
KWH	MA1,1	0.088	-0.007	-0.124	-0.091	-0.005
KWH	AR1,1	0.254	-0.357	0.117	0.080	-0.028
KWH	AR2,1	-0.018	-0.034	0.238	0.206	0.224
KWH	AR2,2	0.032	-0.132	-0.122	0.103	-0.130
or1	NUM1	0.138	-0.125	0.094	0.132	0.035
or2	NUM2	1.000	-0.193	-0.084	0.060	-0.020
or3	NUM3	-0.193	1.000	-0.012	-0.146	-0.048
or4	NUM4	-0.084	-0.012	1.000	0.037	0.366
or5	NUM5	0.060	-0.146	0.037	1.000	0.384
MET_DAYS	NUM6	-0.020	-0.048	0.366	0.384	1.000

Other Retail

The ARIMA Procedure

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	-----Autocorrelations-----					
6	1.67	2	0.4348	0.012	-0.049	0.023	-0.052	0.048	0.072
12	7.49	8	0.4847	0.071	0.160	0.004	-0.004	0.119	0.003
18	17.24	14	0.2435	-0.069	0.110	0.035	-0.142	0.150	0.096
24	17.69	20	0.6078	0.013	0.015	-0.021	-0.022	-0.005	-0.041

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error	
0	891913542	1.00000																						0	
1	11137206	0.01249																							0.092057
2	-44025236	-0.04936																							0.092072
3	20591748	0.02309																							0.092296
4	-46699938	-0.05236																							0.092345
5	42646238	0.04781																							0.092596
6	64277199	0.07207																							0.092805
7	63270371	0.07094																							0.093278
8	142846766	0.16016																							0.093734
9	3269049	0.00367																							0.096025
10	-3138268	-0.00352																							0.096026
11	106227844	0.11910																							0.096027
12	2237368	0.00251																							0.097271
13	-61635380	-0.06910																							0.097272
14	98434334	0.11036																							0.097687
15	31191869	0.03497																							0.098738
16	-127065968	-0.14246																							0.098843
17	134126253	0.15038																							0.100568
18	85252081	0.09558																							0.102456
19	12040000	0.01350																							0.103209
20	13373229	0.01499																							0.103224
21	-18749544	-0.02102																							0.103242

Other Retail

The ARIMA Procedure

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error
22	-19650248	-.02203										.		.										0.103279
23	-4735622	-.00531										.		.										0.103318
24	-36244978	-.04064										.		*		.								0.103321

"," marks two standard errors

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	-0.02536										.		*		.								
2	-0.01021										.		.		.								
3	0.11000										.		.		**		.						
4	0.03562										.		.		*		.						
5	-0.14541										.		.		***		.						
6	0.01157										.		.		.								
7	-0.03532										.		.		*		.						
8	-0.21537										.		.		****		.						
9	0.03225										.		.		*		.						
10	0.02411										.		.		.								
11	-0.12294										.		.		**		.						
12	0.02180										.		.		.								
13	0.08799										.		.		**		.						
14	-0.09667										.		.		**		.						
15	-0.03828										.		.		*		.						
16	0.15382										.		.		***		.						
17	-0.13058										.		.		****		.						
18	-0.07222										.		.		*		.						
19	0.02300										.		.		.								
20	0.00132										.		.		.								
21	-0.02496										.		.		.								
22	0.05973										.		.		*		.						

Other Retail

The ARIMA Procedure

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
23	0.01836										.		.										
24	-0.00071										.		.										

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	0.01249										.		.										
2	-0.04952										.	*	.										
3	0.02442										.		.										
4	-0.05563										.	*	.										
5	0.05212										.		*	.									
6	0.06486										.		.	*	.								
7	0.07756										.		.	**	.								
8	0.16304										.		.	***	.								
9	0.01252										.		.										
10	0.01718										.		.										
11	0.11863										.		.	**	.								
12	0.00842										.		.										
13	-0.08390										.	**	.										
14	0.08417										.		.	**	.								
15	0.01303										.		.										
16	-0.18243										.	****	.										
17	0.13848										.		.	***	.								
18	0.08330										.		.	**	.								
19	-0.01982										.		.										
20	0.00499										.		.										
21	0.02753										.		.	*	.								
22	-0.06970										.		.	*	.								
23	-0.02116										.		.										
24	0.00081										.		.										

Other Retail

The ARIMA Procedure

Model for variable KWH

Estimated Intercept 8384.464
Period(s) of Differencing 12

Autoregressive Factors

Factor 1: 1 - 0.27329 B**(1)
Factor 2: 1 - 0.39677 B**(5) - 0.37396 B**(11)

Moving Average Factors

Factor 1: 1 - 0.7911 B**(12)

Input Number 1

Input Variable or1
Period(s) of Differencing 12
Overall Regression Factor -98810.1

Input Number 2

Input Variable or2
Period(s) of Differencing 12
Overall Regression Factor 115433.2

Input Number 3

Input Variable or3
Period(s) of Differencing 12
Overall Regression Factor 350792

Other Retail

The ARIMA Procedure

Input Number 4

Input Variable or4
 Period(s) of Differencing 12
 Overall Regression Factor 80388.05

Input Number 5

Input Variable or5
 Period(s) of Differencing 12
 Overall Regression Factor 119356.5

Input Number 6

Input Variable MET_DAYS
 Period(s) of Differencing 12
 Overall Regression Factor 16108.9

Forecasts for variable KWH

Obs	Forecast	Std Error	95% Confidence Limits	
131	931284.1	29864.92	872749.9	989818.3
132	1106700.5	30960.07	1046019.9	1167381.1
133	1099453.4	31040.31	1038615.5	1160291.2
134	927459.5	31046.29	866609.9	988309.1
135	892441.1	31046.74	831590.6	953291.6
136	750917.2	33247.45	685753.3	816081.0
137	684943.5	33406.00	619469.0	750418.1
138	674058.7	33417.81	608561.0	739556.4
139	692245.7	33418.69	626746.3	757745.1
140	775500.4	33418.75	710000.9	841000.0
141	822909.4	33750.39	756759.9	889059.0
142	906250.5	35976.32	835738.2	976762.8

Other Retail

The ARIMA Procedure

Forecasts for variable KWH

Obs	Forecast	Std Error	95% Confidence Limits	
143	1022567.8	37246.39	949566.3	1095569.4
144	1092921.7	37339.51	1019737.6	1166105.8
145	1097718.5	37346.46	1024520.8	1170916.2
146	912145.1	37403.35	838835.9	985454.3
147	883706.0	38572.84	808104.7	959307.4
148	800398.2	38902.20	724151.3	876645.1
149	717486.4	38926.69	641191.5	793781.3
150	656917.7	38928.52	580619.2	733216.2
151	684971.8	38937.65	608655.4	761288.2
152	761199.3	39324.88	684124.0	838274.7
153	855263.3	39885.40	777089.4	933437.2
154	952685.9	40101.14	874089.2	1031282.7
155	1012536.2	40773.51	932621.6	1092450.8
156	1091309.1	40838.83	1011266.4	1171351.7
157	1088239.4	40981.90	1007916.4	1168562.5
158	923637.9	41462.73	842372.4	1004903.3
159	922556.7	41616.32	840990.2	1004123.1
160	810510.0	41759.21	728663.5	892356.6

SHORT-TERM LARGE INDUSTRIAL

CONFIDENTIAL

SEE CONFIDENTIAL APPENDIX

SHORT-TERM MUNICIPALS

Kentucky Power Company
Wholesale Models

bcdd65-Cooling degree days base 65
bhdd55-Heating degree days base 55

olv1, olv2, vnc1, vnc2
Binary Variables

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	bcdd65	bhdd55	time	_FREQ_	KWH	OLV1	OLV2
KPC	5.2	CITY OF OLIVE HILL	1999	1	1.178129	619.0414	1/1/1999	1			0
KPC	5.2	CITY OF OLIVE HILL	1999	2	0	431.6534	2/1/1999	1			0
KPC	5.2	CITY OF OLIVE HILL	1999	3	0	516.2496	3/1/1999	1			0
KPC	5.2	CITY OF OLIVE HILL	1999	4	9.457758	267.5335	4/1/1999	1			0
KPC	5.2	CITY OF OLIVE HILL	1999	5	32.07129	32.30037	5/1/1999	1			0
KPC	5.2	CITY OF OLIVE HILL	1999	6	149.197	0	6/1/1999	1			0
KPC	5.2	CITY OF OLIVE HILL	1999	7	346.6645	0	7/1/1999	1			0
KPC	5.2	CITY OF OLIVE HILL	1999	8	430.0498	0	8/1/1999	1			0
KPC	5.2	CITY OF OLIVE HILL	1999	9	219.0665	0.130903	9/1/1999	1			0
KPC	5.2	CITY OF OLIVE HILL	1999	10	45.61977	14.59571	10/1/1999	1	2034000		0
KPC	5.2	CITY OF OLIVE HILL	1999	11	2.552613	121.74	11/1/1999	1	1624800		0
KPC	5.2	CITY OF OLIVE HILL	1999	12	0	297.5758	12/1/1999	1	1805400		0
KPC	5.2	CITY OF OLIVE HILL	2000	1	0	539.714	1/1/2000	1	2770800		0
KPC	5.2	CITY OF OLIVE HILL	2000	2	0	715.2552	2/1/2000	1	2322600		0
KPC	5.2	CITY OF OLIVE HILL	2000	3	2.029	278.1694	3/1/2000	1	2514000		0
KPC	5.2	CITY OF OLIVE HILL	2000	4	4.712516	153.6149	4/1/2000	1	1922400		0
KPC	5.2	CITY OF OLIVE HILL	2000	5	51.44497	57.33561	5/1/2000	1	1805400		0
KPC	5.2	CITY OF OLIVE HILL	2000	6	143.7317	0.130903	6/1/2000	1	1762800		0
KPC	5.2	CITY OF OLIVE HILL	2000	7	261.9701	0	7/1/2000	1	2264400		0
KPC	5.2	CITY OF OLIVE HILL	2000	8	229.8006	0	8/1/2000	1	2232600		0
KPC	5.2	CITY OF OLIVE HILL	2000	9	199.6274	0.654516	9/1/2000	1	2171400		0
KPC	5.2	CITY OF OLIVE HILL	2000	10	69.05145	36.16202	10/1/2000	1	2149800		0
KPC	5.2	CITY OF OLIVE HILL	2000	11	9.588661	124.0635	11/1/2000	1	1719600		0
KPC	5.2	CITY OF OLIVE HILL	2000	12	0	548.3209	12/1/2000	1	2310600		0
KPC	5.2	CITY OF OLIVE HILL	2001	1	0	817.2616	1/1/2001	1	2946600		0
KPC	5.2	CITY OF OLIVE HILL	2001	2	0	632.8189	2/1/2001	1	3016800		0
KPC	5.2	CITY OF OLIVE HILL	2001	3	0	442.9765	3/1/2001	1	2213400		0
KPC	5.2	CITY OF OLIVE HILL	2001	4	38.15829	304.0227	4/1/2001	1	1875000		0
KPC	5.2	CITY OF OLIVE HILL	2001	5	85.0871	46.60155	5/1/2001	1	1926600		0
KPC	5.2	CITY OF OLIVE HILL	2001	6	91.37045	2.748968	6/1/2001	1	1950600		0
KPC	5.2	CITY OF OLIVE HILL	2001	7	227.4444	0	7/1/2001	1	2127600		0
KPC	5.2	CITY OF OLIVE HILL	2001	8	331.3161	0	8/1/2001	1	2043600		0
KPC	5.2	CITY OF OLIVE HILL	2001	9	257.6503	0.130903	9/1/2001	1	1536600		0
KPC	5.2	CITY OF OLIVE HILL	2001	10	63.06263	27.19515	10/1/2001	1	1618800		0
KPC	5.2	CITY OF OLIVE HILL	2001	11	18.65371	131.2959	11/1/2001	1	2665800		0
KPC	5.2	CITY OF OLIVE HILL	2001	12	0.589065	170.5669	12/1/2001	1	2473200		0

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	bcdd65	bhdd55	time	_FREQ_	KWH	OLV1	OLV2
KPC	5.2	CITY OF OLIVE HILL	2002	1	0	573.4216	1/1/2002	1	2822400	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	2	0	472.8879	2/1/2002	1	2305800	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	3	1.178129	420.6902	3/1/2002	1	1447200	-1	0
KPC	5.2	CITY OF OLIVE HILL	2002	4	17.96647	225.3172	4/1/2002	1	3568800	1	0
KPC	5.2	CITY OF OLIVE HILL	2002	5	51.18316	59.92095	5/1/2002	1	1759200	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	6	134.4049	34.493	6/1/2002	1	2199600	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	7	308.1135	0	7/1/2002	1	2733000	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	8	391.1388	0	8/1/2002	1	2510400	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	9	345.4863	0	9/1/2002	1	2182800	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	10	140.001	12.95942	10/1/2002	1	1769400	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	11	13.90847	159.342	11/1/2002	1	2152200	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	12	1.832645	476.1278	12/1/2002	1	3134400	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	1	0	567.1055	1/1/2003	1	2929200	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	2	0	792.3245	2/1/2003	1	2545200	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	3	0	534.6742	3/1/2003	1	2048400	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	4	15.44658	141.3428	4/1/2003	1	1948800	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	5	38.48555	30.5659	5/1/2003	1	1759200	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	6	52.32856	0	6/1/2003	1	1802400	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	7	220.2774	0	7/1/2003	1	2522400	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	8	262.7882	0	8/1/2003	1	2311800	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	9	251.0724	0	9/1/2003	1	1956000	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	10	36.62018	35.6384	10/1/2003	1	1899600	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	11	8.639613	98.63558	11/1/2003	1	1945200	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	12	0.981774	345.9772	12/1/2003	1	2980200	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	1	0.785419	558.7277	1/1/2004	1	5491800	0	1
KPC	5.2	CITY OF OLIVE HILL	2004	2	0.261806	719.7714	2/1/2004	1	2680200	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	3	2.356258	418.0067	3/1/2004	1	2263200	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	4	13.0576	231.0442	4/1/2004	1	1889400	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	5	72.52039	57.13926	5/1/2004	1	1944600	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	6	198.9729	3.959823	6/1/2004	1	2245800	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	7	254.3122	0	7/1/2004	1	2372400	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	8	251.0069	0	8/1/2004	1	2116800	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	9	220.081	0	9/1/2004	1	2262000	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	10	65.41889	9.686839	10/1/2004	1	1676400	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	11	13.0576	62.44084	11/1/2004	1	1890000	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	12	1.898097	288.0198	12/1/2004	1	3109200	0	0

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	bcdd65	bhdd55	time	_FREQ_	KWH	OLV1	OLV2
KPC	5.2	CITY OF OLIVE HILL	2005	1	0	487.8436	1/1/2005	1	2632200	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	2	0	585.5629	2/1/2005	1	2297241	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	3	0	499.7394	3/1/2005	1	2515200	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	4	5.857919	232.2714	4/1/2005	1	1809000	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	5	21.56631	67.10427	5/1/2005	1	1762200	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	6	125.8798	9.146863	6/1/2005	1	2341800	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	7	358.4458	0	7/1/2005	1	2608800	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	8	457.3104	0	8/1/2005	1	2551800	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	9	344.6682	0	9/1/2005	1	2316600	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	10	158.7365	5.710653	10/1/2005	1	1744800	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	11	9.997734	143.9445	11/1/2005	1	2559000	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	12	1.472661	488.5472	12/1/2005	1	2883000	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	1	0	487.7781	1/1/2006	1	2774912	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	2	0	415.045	2/1/2006	1	2529599	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	3	1.374484	469.9099	3/1/2006	1	2388699	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	4	16.55926	244.1672	4/1/2006	1	1791134	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	5	27.8333	19.9791	5/1/2006	1	1887203	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	6	105.3116	3.861645	6/1/2006	1	2051454	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	7	260.1865	0	7/1/2006	1	2596750	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	8	410.1525	0	8/1/2006	1	2592996	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	9	260.7756	0.916323	9/1/2006	1	1800516	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	10	36.76744	37.9783	10/1/2006	1	2019286	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	11	2.53625	209.2161	11/1/2006	1	2254740	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	12	2.65079	329.9252	12/1/2006	1	2662655	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	1	0.294532	354.0605	1/1/2007	1	2745173	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	2	0	712.2772	2/1/2007	1	2995023	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	3	2.258081	601.1894	3/1/2007	1	2239520	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	4	29.4205	207.8252	4/1/2007	1	1977408	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	5	51.0359	78.36194	5/1/2007	1	2037488	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	6	180.4337	3.223492	6/1/2007	1	2198936	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	7	293.4687	0	7/1/2007	1	2349522	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	8	344.0464	0	8/1/2007	1	2772236	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	9	379.4557	0	9/1/2007	1	2106517	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	10	176.3103	6.59425	10/1/2007	1	1932195	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	11	29.89502	128.7597	11/1/2007	1	2276993	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	12	0	366.3981	12/1/2007	1	2791299	0	0

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	bcdd65	bhdd55	time	_FREQ_	KWH	OLV1	OLV2
KPC	5.2	CITY OF OLIVE HILL	2008	1	0	497.9886	1/1/2008	1	3154233	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	2	0	607.8164	2/1/2008	1	2755285	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	3	0	519.7349	3/1/2008	1	2454729	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	4	1.439935	234.235	4/1/2008	1	1874737	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	5	18.76825	52.01767	5/1/2008	1	1807207	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	6	111.5786	3.567113	6/1/2008	1	2220862	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	7	232.4187	0	7/1/2008	1	2398257	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	8	281.3765	0	8/1/2008	1	2280182	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	9	261.0538	0	9/1/2008	1	2010659	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	10	101.63	8.639613	10/1/2008	1	1916447	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	11	12.14618	141.9253	11/1/2008	1	2417100	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	12	1.742104	366.913	12/1/2008	1	2985408	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	1	0.368711	581.6619	1/1/2009	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	2	0.045816	635.7332	2/1/2009	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	3	1.252308	463.579	3/1/2009	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	4	12.6518	233.1905	4/1/2009	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	5	42.61718	59.21298	5/1/2009	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	6	131.279	6.354261	6/1/2009	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	7	279.4773	0.032726	7/1/2009	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	8	339.383	0	8/1/2009	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	9	265.6916	0.247625	9/1/2009	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	10	86.34159	23.18896	10/1/2009	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	11	12.14618	141.9253	11/1/2009	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	12	1.742104	366.913	12/1/2009	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	1	0.368711	581.6619	1/1/2010	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	2	0.045816	635.7332	2/1/2010	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	3	1.252308	463.579	3/1/2010	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	4	12.6518	233.1905	4/1/2010	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	5	42.61718	59.21298	5/1/2010	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	6	131.279	6.354261	6/1/2010	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	7	279.4773	0.032726	7/1/2010	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	8	339.383	0	8/1/2010	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	9	265.6916	0.247625	9/1/2010	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	10	86.34159	23.18896	10/1/2010	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	11	12.14618	141.9253	11/1/2010	1	0	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	12	1.742104	366.913	12/1/2010	1	0	0	0

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	bcdd65	bhdd55	time	_FREQ_	KWH	OLV1	OLV2
KPC		5.2 CITY OF OLIVE HILL	2011	1	0.368711	581.6619	1/1/2011	1			0
KPC		5.2 CITY OF OLIVE HILL	2011	2	0.045816	635.7332	2/1/2011	1			0
KPC		5.2 CITY OF OLIVE HILL	2011	3	1.252308	463.579	3/1/2011	1			0
KPC		5.2 CITY OF OLIVE HILL	2011	4	12.6518	233.1905	4/1/2011	1			0
KPC		5.2 CITY OF OLIVE HILL	2011	5	42.61718	59.21298	5/1/2011	1			0
KPC		5.2 CITY OF OLIVE HILL	2011	6	131.279	6.354261	6/1/2011	1			0
KPC		5.2 CITY OF OLIVE HILL	2011	7	279.4773	0.032726	7/1/2011	1			0
KPC		5.2 CITY OF OLIVE HILL	2011	8	339.383	0	8/1/2011	1			0
KPC		5.2 CITY OF OLIVE HILL	2011	9	265.6916	0.247625	9/1/2011	1			0
KPC		5.2 CITY OF OLIVE HILL	2011	10	86.34159	23.18896	10/1/2011	1			0
KPC		5.2 CITY OF OLIVE HILL	2011	11	12.14618	141.9253	11/1/2011	1			0
KPC		5.2 CITY OF OLIVE HILL	2011	12	1.742104	366.913	12/1/2011	1			0
KPC		5.2 CITY OF VANCEBURG	1999	1	1.178129	619.0414	1/1/1999	1			0
KPC		5.2 CITY OF VANCEBURG	1999	2	0	431.6534	2/1/1999	1			0
KPC		5.2 CITY OF VANCEBURG	1999	3	0	516.2496	3/1/1999	1			0
KPC		5.2 CITY OF VANCEBURG	1999	4	9.457758	267.5335	4/1/1999	1			0
KPC		5.2 CITY OF VANCEBURG	1999	5	32.07129	32.30037	5/1/1999	1			0
KPC		5.2 CITY OF VANCEBURG	1999	6	149.197	0	6/1/1999	1			0
KPC		5.2 CITY OF VANCEBURG	1999	7	346.6645	0	7/1/1999	1			0
KPC		5.2 CITY OF VANCEBURG	1999	8	430.0498	0	8/1/1999	1			0
KPC		5.2 CITY OF VANCEBURG	1999	9	219.0665	0.130903	9/1/1999	1			0
KPC		5.2 CITY OF VANCEBURG	1999	10	45.61977	14.59571	10/1/1999	1	12234300		0
KPC		5.2 CITY OF VANCEBURG	1999	11	2.552613	121.74	11/1/1999	1	4042900		0
KPC		5.2 CITY OF VANCEBURG	1999	12	0	297.5758	12/1/1999	1			0
KPC		5.2 CITY OF VANCEBURG	2000	1	0	539.714	1/1/2000	1	11198700		0
KPC		5.2 CITY OF VANCEBURG	2000	2	0	715.2552	2/1/2000	1	4776100		0
KPC		5.2 CITY OF VANCEBURG	2000	3	2.029	278.1694	3/1/2000	1			0
KPC		5.2 CITY OF VANCEBURG	2000	4	4.712516	153.6149	4/1/2000	1	7805000		0
KPC		5.2 CITY OF VANCEBURG	2000	5	51.44497	57.33561	5/1/2000	1	3630100		0
KPC		5.2 CITY OF VANCEBURG	2000	6	143.7317	0.130903	6/1/2000	1			0
KPC		5.2 CITY OF VANCEBURG	2000	7	261.9701	0	7/1/2000	1	8795500		0
KPC		5.2 CITY OF VANCEBURG	2000	8	229.8006	0	8/1/2000	1			0
KPC		5.2 CITY OF VANCEBURG	2000	9	199.6274	0.654516	9/1/2000	1	8408200		0
KPC		5.2 CITY OF VANCEBURG	2000	10	69.05145	36.16202	10/1/2000	1	3749100		0
KPC		5.2 CITY OF VANCEBURG	2000	11	9.588661	124.0635	11/1/2000	1	4730900		0
KPC		5.2 CITY OF VANCEBURG	2000	12	0	548.3209	12/1/2000	1	6660700		0

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	bcdd65	bhodd55	time	_FREQ_	KWH	OLV1	OLV2
KPC	5.2	CITY OF VANCEBURG	2001	1	0	817.2616	1/1/2001	1	6180900	0	0
KPC	5.2	CITY OF VANCEBURG	2001	2	0	632.8189	2/1/2001	1	4843900	0	0
KPC	5.2	CITY OF VANCEBURG	2001	3	0	442.9765	3/1/2001	1	5280800	0	0
KPC	5.2	CITY OF VANCEBURG	2001	4	38.15829	304.0227	4/1/2001	1	3948600	0	0
KPC	5.2	CITY OF VANCEBURG	2001	5	85.0871	46.60155	5/1/2001	1	3796800	0	0
KPC	5.2	CITY OF VANCEBURG	2001	6	91.37045	2.748968	6/1/2001	1	4291100	0	0
KPC	5.2	CITY OF VANCEBURG	2001	7	227.4444	0	7/1/2001	1	5052300	0	0
KPC	5.2	CITY OF VANCEBURG	2001	8	331.3161	0	8/1/2001	1	5356400	0	0
KPC	5.2	CITY OF VANCEBURG	2001	9	257.6503	0.130903	9/1/2001	1	4096800	0	0
KPC	5.2	CITY OF VANCEBURG	2001	10	63.06263	27.19515	10/1/2001	1	4088300	0	0
KPC	5.2	CITY OF VANCEBURG	2001	11	18.65371	131.2959	11/1/2001	1	4300600	0	0
KPC	5.2	CITY OF VANCEBURG	2001	12	0.589065	170.5669	12/1/2001	1	2299200	0	0
KPC	5.2	CITY OF VANCEBURG	2002	1	0	573.4216	1/1/2002	1	8943700	0	0
KPC	5.2	CITY OF VANCEBURG	2002	2	0	472.8879	2/1/2002	1	5190600	0	0
KPC	5.2	CITY OF VANCEBURG	2002	3	1.178129	420.6902	3/1/2002	1	5282300	-1	0
KPC	5.2	CITY OF VANCEBURG	2002	4	17.96647	225.3172	4/1/2002	1	4297500	1	0
KPC	5.2	CITY OF VANCEBURG	2002	5	51.18316	59.92095	5/1/2002	1	4214600	0	0
KPC	5.2	CITY OF VANCEBURG	2002	6	134.4049	34.493	6/1/2002	1	5048200	0	0
KPC	5.2	CITY OF VANCEBURG	2002	7	308.1135	0	7/1/2002	1	5847100	0	0
KPC	5.2	CITY OF VANCEBURG	2002	8	391.1388	0	8/1/2002	1	5728200	0	0
KPC	5.2	CITY OF VANCEBURG	2002	9	345.4863	0	9/1/2002	1	4737700	0	0
KPC	5.2	CITY OF VANCEBURG	2002	10	140.001	12.95942	10/1/2002	1	4543600	0	0
KPC	5.2	CITY OF VANCEBURG	2002	11	13.90847	159.342	11/1/2002	1	5228200	0	0
KPC	5.2	CITY OF VANCEBURG	2002	12	1.832645	476.1278	12/1/2002	1	6307200	0	0
KPC	5.2	CITY OF VANCEBURG	2003	1	0	567.1055	1/1/2003	1	7196800	0	0
KPC	5.2	CITY OF VANCEBURG	2003	2	0	792.3245	2/1/2003	1	4933800	0	0
KPC	5.2	CITY OF VANCEBURG	2003	3	0	534.6742	3/1/2003	1	5240000	0	0
KPC	5.2	CITY OF VANCEBURG	2003	4	15.44658	141.3428	4/1/2003	1	4292700	0	0
KPC	5.2	CITY OF VANCEBURG	2003	5	38.48555	30.5659	5/1/2003	1	4109500	0	0
KPC	5.2	CITY OF VANCEBURG	2003	6	52.32856	0	6/1/2003	1	4543000	0	0
KPC	5.2	CITY OF VANCEBURG	2003	7	220.2774	0	7/1/2003	1	5596500	0	0
KPC	5.2	CITY OF VANCEBURG	2003	8	262.7882	0	8/1/2003	1	5731100	0	0
KPC	5.2	CITY OF VANCEBURG	2003	9	251.0724	0	9/1/2003	1	4620900	0	0
KPC	5.2	CITY OF VANCEBURG	2003	10	36.62018	35.6384	10/1/2003	1	4660600	0	0
KPC	5.2	CITY OF VANCEBURG	2003	11	8.639613	98.63558	11/1/2003	1	5006200	0	0
KPC	5.2	CITY OF VANCEBURG	2003	12	0.981774	345.9772	12/1/2003	1	6571300	0	0

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	bcdd65	bhdd55	time	_FREQ_	KWH	OLV1	OLV2
KPC	5.2	CITY OF VANCEBURG	2004	1	0.785419	558.7277	1/1/2004	1	14046200	0	1
KPC	5.2	CITY OF VANCEBURG	2004	2	0.261806	719.7714	2/1/2004	1	6448700	0	0
KPC	5.2	CITY OF VANCEBURG	2004	3	2.356258	418.0067	3/1/2004	1	5622300	0	0
KPC	5.2	CITY OF VANCEBURG	2004	4	13.0576	231.0442	4/1/2004	1	4774800	0	0
KPC	5.2	CITY OF VANCEBURG	2004	5	72.52039	57.13926	5/1/2004	1	5165900	0	0
KPC	5.2	CITY OF VANCEBURG	2004	6	198.9729	3.959823	6/1/2004	1	5227000	0	0
KPC	5.2	CITY OF VANCEBURG	2004	7	254.3122	0	7/1/2004	1	5771900	0	0
KPC	5.2	CITY OF VANCEBURG	2004	8	251.0069	0	8/1/2004	1	5463400	0	0
KPC	5.2	CITY OF VANCEBURG	2004	9	220.081	0	9/1/2004	1	4894000	0	0
KPC	5.2	CITY OF VANCEBURG	2004	10	65.41889	9.686839	10/1/2004	1	4625900	0	0
KPC	5.2	CITY OF VANCEBURG	2004	11	13.0576	62.44084	11/1/2004	1	5099800	0	0
KPC	5.2	CITY OF VANCEBURG	2004	12	1.898097	288.0198	12/1/2004	1	6754800	0	0
KPC	5.2	CITY OF VANCEBURG	2005	1	0	487.8436	1/1/2005	1	6745600	0	0
KPC	5.2	CITY OF VANCEBURG	2005	2	0	585.5629	2/1/2005	1	5941500	0	0
KPC	5.2	CITY OF VANCEBURG	2005	3	0	499.7394	3/1/2005	1	6355800	0	0
KPC	5.2	CITY OF VANCEBURG	2005	4	5.857919	232.2714	4/1/2005	1	4677400	0	0
KPC	5.2	CITY OF VANCEBURG	2005	5	21.56631	67.10427	5/1/2005	1	4702300	0	0
KPC	5.2	CITY OF VANCEBURG	2005	6	125.8798	9.146863	6/1/2005	1	5447400	0	0
KPC	5.2	CITY OF VANCEBURG	2005	7	358.4458	0	7/1/2005	1	6301700	0	0
KPC	5.2	CITY OF VANCEBURG	2005	8	457.3104	0	8/1/2005	1	6255200	0	0
KPC	5.2	CITY OF VANCEBURG	2005	9	344.6682	0	9/1/2005	1	5113200	0	0
KPC	5.2	CITY OF VANCEBURG	2005	10	158.7365	5.710653	10/1/2005	1	5019600	0	0
KPC	5.2	CITY OF VANCEBURG	2005	11	9.997734	143.9445	11/1/2005	1	5577300	0	0
KPC	5.2	CITY OF VANCEBURG	2005	12	1.472661	488.5472	12/1/2005	1	7594900	0	0
KPC	5.2	CITY OF VANCEBURG	2006	1	0	487.7781	1/1/2006	1	6398257	0	0
KPC	5.2	CITY OF VANCEBURG	2006	2	0	415.045	2/1/2006	1	6314298	0	0
KPC	5.2	CITY OF VANCEBURG	2006	3	1.374484	469.9099	3/1/2006	1	6145647	0	0
KPC	5.2	CITY OF VANCEBURG	2006	4	16.55926	244.1672	4/1/2006	1	4667655	0	0
KPC	5.2	CITY OF VANCEBURG	2006	5	27.8333	19.9791	5/1/2006	1	5015456	0	0
KPC	5.2	CITY OF VANCEBURG	2006	6	105.3116	3.861645	6/1/2006	1	5415456	0	0
KPC	5.2	CITY OF VANCEBURG	2006	7	260.1865	0	7/1/2006	1	6364417	0	0
KPC	5.2	CITY OF VANCEBURG	2006	8	410.1525	0	8/1/2006	1	6583382	0	0
KPC	5.2	CITY OF VANCEBURG	2006	9	260.7756	0.916323	9/1/2006	1	5034548	0	0
KPC	5.2	CITY OF VANCEBURG	2006	10	36.76744	37.9783	10/1/2006	1	5601748	0	0
KPC	5.2	CITY OF VANCEBURG	2006	11	2.53625	209.2161	11/1/2006	1	5947180	0	0
KPC	5.2	CITY OF VANCEBURG	2006	12	2.65079	329.9252	12/1/2006	1	6807119	0	0

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	bcdd65	bhdd55	time	_FREQ_	KWH	OLV1	OLV2
KPC	5.2	CITY OF VANCEBURG	2007	1	0.294532	354.0605	1/1/2007	1	6588896	0	0
KPC	5.2	CITY OF VANCEBURG	2007	2	0	712.2772	2/1/2007	1	7202739	0	0
KPC	5.2	CITY OF VANCEBURG	2007	3	2.258081	601.1894	3/1/2007	1	6068974	0	0
KPC	5.2	CITY OF VANCEBURG	2007	4	29.4205	207.8252	4/1/2007	1	5517935	0	0
KPC	5.2	CITY OF VANCEBURG	2007	5	51.0359	78.36194	5/1/2007	1	5427061	0	0
KPC	5.2	CITY OF VANCEBURG	2007	6	180.4337	3.223492	6/1/2007	1	5802358	0	0
KPC	5.2	CITY OF VANCEBURG	2007	7	293.4687	0	7/1/2007	1	6033322	0	0
KPC	5.2	CITY OF VANCEBURG	2007	8	344.0464	0	8/1/2007	1	6768081	0	0
KPC	5.2	CITY OF VANCEBURG	2007	9	379.4557	0	9/1/2007	1	5222239	0	0
KPC	5.2	CITY OF VANCEBURG	2007	10	176.3103	6.59425	10/1/2007	1	4820080	0	0
KPC	5.2	CITY OF VANCEBURG	2007	11	29.89502	128.7597	11/1/2007	1	5498788	0	0
KPC	5.2	CITY OF VANCEBURG	2007	12	0	366.3981	12/1/2007	1	6876039	0	0
KPC	5.2	CITY OF VANCEBURG	2008	1	0	497.9886	1/1/2008	1	7869550	0	0
KPC	5.2	CITY OF VANCEBURG	2008	2	0	607.8164	2/1/2008	1	7046240	0	0
KPC	5.2	CITY OF VANCEBURG	2008	3	0	519.7349	3/1/2008	1	6590161	0	0
KPC	5.2	CITY OF VANCEBURG	2008	4	1.439935	234.235	4/1/2008	1	5051722	0	0
KPC	5.2	CITY OF VANCEBURG	2008	5	18.76825	52.01767	5/1/2008	1	4953384	0	0
KPC	5.2	CITY OF VANCEBURG	2008	6	111.5786	3.567113	6/1/2008	1	5619318	0	0
KPC	5.2	CITY OF VANCEBURG	2008	7	232.4187	0	7/1/2008	1	6184453	0	0
KPC	5.2	CITY OF VANCEBURG	2008	8	281.3765	0	8/1/2008	1	5845131	0	0
KPC	5.2	CITY OF VANCEBURG	2008	9	261.0538	0	9/1/2008	1	4987397	0	0
KPC	5.2	CITY OF VANCEBURG	2008	10	101.63	8.639613	10/1/2008	1	5121746	0	0
KPC	5.2	CITY OF VANCEBURG	2008	11	12.14618	141.9253	11/1/2008	1	5868990	0	0
KPC	5.2	CITY OF VANCEBURG	2008	12	1.742104	366.913	12/1/2008	1	6684470	0	0
KPC	5.2	CITY OF VANCEBURG	2009	1	0.368711	581.6619	1/1/2009	1	0	0	0
KPC	5.2	CITY OF VANCEBURG	2009	2	0.045816	635.7332	2/1/2009	1	0	0	0
KPC	5.2	CITY OF VANCEBURG	2009	3	1.252308	463.579	3/1/2009	1	0	0	0
KPC	5.2	CITY OF VANCEBURG	2009	4	12.6518	233.1905	4/1/2009	1	0	0	0
KPC	5.2	CITY OF VANCEBURG	2009	5	42.61718	59.21298	5/1/2009	1	0	0	0
KPC	5.2	CITY OF VANCEBURG	2009	6	131.279	6.354261	6/1/2009	1	0	0	0
KPC	5.2	CITY OF VANCEBURG	2009	7	279.4773	0.032726	7/1/2009	1	0	0	0
KPC	5.2	CITY OF VANCEBURG	2009	8	339.383	0	8/1/2009	1	0	0	0
KPC	5.2	CITY OF VANCEBURG	2009	9	265.6916	0.247625	9/1/2009	1	0	0	0
KPC	5.2	CITY OF VANCEBURG	2009	10	86.34159	23.18896	10/1/2009	1	0	0	0
KPC	5.2	CITY OF VANCEBURG	2009	11	12.14618	141.9253	11/1/2009	1	0	0	0
KPC	5.2	CITY OF VANCEBURG	2009	12	1.742104	366.913	12/1/2009	1	0	0	0

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	bcdd65	bhdd55	time	_FREQ_	KWH	OLV1	OLV2
KPC	5.2	CITY OF VANCEBURG	2010	1	0.368711	581.6619	1/1/2010	1		0	0
KPC	5.2	CITY OF VANCEBURG	2010	2	0.045816	635.7332	2/1/2010	1		0	0
KPC	5.2	CITY OF VANCEBURG	2010	3	1.252308	463.579	3/1/2010	1		0	0
KPC	5.2	CITY OF VANCEBURG	2010	4	12.6518	233.1905	4/1/2010	1		0	0
KPC	5.2	CITY OF VANCEBURG	2010	5	42.61718	59.21298	5/1/2010	1		0	0
KPC	5.2	CITY OF VANCEBURG	2010	6	131.279	6.354261	6/1/2010	1		0	0
KPC	5.2	CITY OF VANCEBURG	2010	7	279.4773	0.032726	7/1/2010	1		0	0
KPC	5.2	CITY OF VANCEBURG	2010	8	339.383	0	8/1/2010	1		0	0
KPC	5.2	CITY OF VANCEBURG	2010	9	265.6916	0.247625	9/1/2010	1		0	0
KPC	5.2	CITY OF VANCEBURG	2010	10	86.34159	23.18896	10/1/2010	1		0	0
KPC	5.2	CITY OF VANCEBURG	2010	11	12.14618	141.9253	11/1/2010	1		0	0
KPC	5.2	CITY OF VANCEBURG	2010	12	1.742104	366.913	12/1/2010	1		0	0
KPC	5.2	CITY OF VANCEBURG	2011	1	0.368711	581.6619	1/1/2011	1		0	0
KPC	5.2	CITY OF VANCEBURG	2011	2	0.045816	635.7332	2/1/2011	1		0	0
KPC	5.2	CITY OF VANCEBURG	2011	3	1.252308	463.579	3/1/2011	1		0	0
KPC	5.2	CITY OF VANCEBURG	2011	4	12.6518	233.1905	4/1/2011	1		0	0
KPC	5.2	CITY OF VANCEBURG	2011	5	42.61718	59.21298	5/1/2011	1		0	0
KPC	5.2	CITY OF VANCEBURG	2011	6	131.279	6.354261	6/1/2011	1		0	0
KPC	5.2	CITY OF VANCEBURG	2011	7	279.4773	0.032726	7/1/2011	1		0	0
KPC	5.2	CITY OF VANCEBURG	2011	8	339.383	0	8/1/2011	1		0	0
KPC	5.2	CITY OF VANCEBURG	2011	9	265.6916	0.247625	9/1/2011	1		0	0
KPC	5.2	CITY OF VANCEBURG	2011	10	86.34159	23.18896	10/1/2011	1		0	0
KPC	5.2	CITY OF VANCEBURG	2011	11	12.14618	141.9253	11/1/2011	1		0	0
KPC	5.2	CITY OF VANCEBURG	2011	12	1.742104	366.913	12/1/2011	1		0	0

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	VNC1	VNC2
KPC	5.2	CITY OF OLIVE HILL	1999	1	0	0
KPC	5.2	CITY OF OLIVE HILL	1999	2	0	0
KPC	5.2	CITY OF OLIVE HILL	1999	3	0	0
KPC	5.2	CITY OF OLIVE HILL	1999	4	0	0
KPC	5.2	CITY OF OLIVE HILL	1999	5	0	0
KPC	5.2	CITY OF OLIVE HILL	1999	6	0	0
KPC	5.2	CITY OF OLIVE HILL	1999	7	0	0
KPC	5.2	CITY OF OLIVE HILL	1999	8	0	0
KPC	5.2	CITY OF OLIVE HILL	1999	9	0	0
KPC	5.2	CITY OF OLIVE HILL	1999	10	0	0
KPC	5.2	CITY OF OLIVE HILL	1999	11	0	0
KPC	5.2	CITY OF OLIVE HILL	1999	12	0	0
KPC	5.2	CITY OF OLIVE HILL	2000	1	0	0
KPC	5.2	CITY OF OLIVE HILL	2000	2	0	0
KPC	5.2	CITY OF OLIVE HILL	2000	3	0	0
KPC	5.2	CITY OF OLIVE HILL	2000	4	0	0
KPC	5.2	CITY OF OLIVE HILL	2000	5	0	0
KPC	5.2	CITY OF OLIVE HILL	2000	6	0	0
KPC	5.2	CITY OF OLIVE HILL	2000	7	0	0
KPC	5.2	CITY OF OLIVE HILL	2000	8	0	0
KPC	5.2	CITY OF OLIVE HILL	2000	9	0	0
KPC	5.2	CITY OF OLIVE HILL	2000	10	0	0
KPC	5.2	CITY OF OLIVE HILL	2000	11	0	0
KPC	5.2	CITY OF OLIVE HILL	2000	12	0	0
KPC	5.2	CITY OF OLIVE HILL	2001	1	0	0
KPC	5.2	CITY OF OLIVE HILL	2001	2	0	0
KPC	5.2	CITY OF OLIVE HILL	2001	3	0	0
KPC	5.2	CITY OF OLIVE HILL	2001	4	0	0
KPC	5.2	CITY OF OLIVE HILL	2001	5	0	0
KPC	5.2	CITY OF OLIVE HILL	2001	6	0	0
KPC	5.2	CITY OF OLIVE HILL	2001	7	0	0
KPC	5.2	CITY OF OLIVE HILL	2001	8	0	0
KPC	5.2	CITY OF OLIVE HILL	2001	9	0	0
KPC	5.2	CITY OF OLIVE HILL	2001	10	0	0
KPC	5.2	CITY OF OLIVE HILL	2001	11	0	0
KPC	5.2	CITY OF OLIVE HILL	2001	12	0	0
KPC	5.2	CITY OF OLIVE HILL	2001			-1

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	VNC1	VNC2
KPC	5.2	CITY OF OLIVE HILL	2002	1	0	1
KPC	5.2	CITY OF OLIVE HILL	2002	2	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	3	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	4	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	5	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	6	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	7	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	8	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	9	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	10	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	11	0	0
KPC	5.2	CITY OF OLIVE HILL	2002	12	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	1	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	2	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	3	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	4	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	5	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	6	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	7	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	8	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	9	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	10	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	11	0	0
KPC	5.2	CITY OF OLIVE HILL	2003	12	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	1	1	0
KPC	5.2	CITY OF OLIVE HILL	2004	2	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	3	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	4	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	5	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	6	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	7	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	8	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	9	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	10	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	11	0	0
KPC	5.2	CITY OF OLIVE HILL	2004	12	0	0

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	VNC1	VNC2
KPC	5.2	CITY OF OLIVE HILL	2005	1	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	2	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	3	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	4	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	5	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	6	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	7	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	8	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	9	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	10	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	11	0	0
KPC	5.2	CITY OF OLIVE HILL	2005	12	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	1	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	2	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	3	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	4	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	5	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	6	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	7	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	8	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	9	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	10	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	11	0	0
KPC	5.2	CITY OF OLIVE HILL	2006	12	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	1	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	2	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	3	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	4	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	5	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	6	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	7	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	8	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	9	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	10	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	11	0	0
KPC	5.2	CITY OF OLIVE HILL	2007	12	0	0

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	VNC1	VNC2
KPC	5.2	CITY OF OLIVE HILL	2008	1	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	2	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	3	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	4	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	5	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	6	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	7	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	8	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	9	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	10	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	11	0	0
KPC	5.2	CITY OF OLIVE HILL	2008	12	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	1	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	2	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	3	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	4	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	5	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	6	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	7	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	8	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	9	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	10	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	11	0	0
KPC	5.2	CITY OF OLIVE HILL	2009	12	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	1	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	2	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	3	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	4	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	5	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	6	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	7	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	8	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	9	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	10	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	11	0	0
KPC	5.2	CITY OF OLIVE HILL	2010	12	0	0

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	VNC1	VNC2
KPC	5.2	CITY OF OLIVE HILL	2011	1	0	0
KPC	5.2	CITY OF OLIVE HILL	2011	2	0	0
KPC	5.2	CITY OF OLIVE HILL	2011	3	0	0
KPC	5.2	CITY OF OLIVE HILL	2011	4	0	0
KPC	5.2	CITY OF OLIVE HILL	2011	5	0	0
KPC	5.2	CITY OF OLIVE HILL	2011	6	0	0
KPC	5.2	CITY OF OLIVE HILL	2011	7	0	0
KPC	5.2	CITY OF OLIVE HILL	2011	8	0	0
KPC	5.2	CITY OF OLIVE HILL	2011	9	0	0
KPC	5.2	CITY OF OLIVE HILL	2011	10	0	0
KPC	5.2	CITY OF OLIVE HILL	2011	11	0	0
KPC	5.2	CITY OF OLIVE HILL	2011	12	0	0
KPC	5.2	CITY OF VANCEBURG	1999	1	0	0
KPC	5.2	CITY OF VANCEBURG	1999	2	0	0
KPC	5.2	CITY OF VANCEBURG	1999	3	0	0
KPC	5.2	CITY OF VANCEBURG	1999	4	0	0
KPC	5.2	CITY OF VANCEBURG	1999	5	0	0
KPC	5.2	CITY OF VANCEBURG	1999	6	0	0
KPC	5.2	CITY OF VANCEBURG	1999	7	0	0
KPC	5.2	CITY OF VANCEBURG	1999	8	0	0
KPC	5.2	CITY OF VANCEBURG	1999	9	0	0
KPC	5.2	CITY OF VANCEBURG	1999	10	0	0
KPC	5.2	CITY OF VANCEBURG	1999	11	0	0
KPC	5.2	CITY OF VANCEBURG	1999	12	0	0
KPC	5.2	CITY OF VANCEBURG	2000	1	0	0
KPC	5.2	CITY OF VANCEBURG	2000	2	0	0
KPC	5.2	CITY OF VANCEBURG	2000	3	0	0
KPC	5.2	CITY OF VANCEBURG	2000	4	0	0
KPC	5.2	CITY OF VANCEBURG	2000	5	0	0
KPC	5.2	CITY OF VANCEBURG	2000	6	0	0
KPC	5.2	CITY OF VANCEBURG	2000	7	0	0
KPC	5.2	CITY OF VANCEBURG	2000	8	0	0
KPC	5.2	CITY OF VANCEBURG	2000	9	0	0
KPC	5.2	CITY OF VANCEBURG	2000	10	0	0
KPC	5.2	CITY OF VANCEBURG	2000	11	0	0
KPC	5.2	CITY OF VANCEBURG	2000	12	0	0

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	VNC1	VNC2
KPC	5.2	CITY OF VANCEBURG	2001	1	0	0
KPC	5.2	CITY OF VANCEBURG	2001	2	0	0
KPC	5.2	CITY OF VANCEBURG	2001	3	0	0
KPC	5.2	CITY OF VANCEBURG	2001	4	0	0
KPC	5.2	CITY OF VANCEBURG	2001	5	0	0
KPC	5.2	CITY OF VANCEBURG	2001	6	0	0
KPC	5.2	CITY OF VANCEBURG	2001	7	0	0
KPC	5.2	CITY OF VANCEBURG	2001	8	0	0
KPC	5.2	CITY OF VANCEBURG	2001	9	0	0
KPC	5.2	CITY OF VANCEBURG	2001	10	0	0
KPC	5.2	CITY OF VANCEBURG	2001	11	0	0
KPC	5.2	CITY OF VANCEBURG	2001	12	0	-1
KPC	5.2	CITY OF VANCEBURG	2002	1	0	1
KPC	5.2	CITY OF VANCEBURG	2002	2	0	0
KPC	5.2	CITY OF VANCEBURG	2002	3	0	0
KPC	5.2	CITY OF VANCEBURG	2002	4	0	0
KPC	5.2	CITY OF VANCEBURG	2002	5	0	0
KPC	5.2	CITY OF VANCEBURG	2002	6	0	0
KPC	5.2	CITY OF VANCEBURG	2002	7	0	0
KPC	5.2	CITY OF VANCEBURG	2002	8	0	0
KPC	5.2	CITY OF VANCEBURG	2002	9	0	0
KPC	5.2	CITY OF VANCEBURG	2002	10	0	0
KPC	5.2	CITY OF VANCEBURG	2002	11	0	0
KPC	5.2	CITY OF VANCEBURG	2002	12	0	0
KPC	5.2	CITY OF VANCEBURG	2003	1	0	0
KPC	5.2	CITY OF VANCEBURG	2003	2	0	0
KPC	5.2	CITY OF VANCEBURG	2003	3	0	0
KPC	5.2	CITY OF VANCEBURG	2003	4	0	0
KPC	5.2	CITY OF VANCEBURG	2003	5	0	0
KPC	5.2	CITY OF VANCEBURG	2003	6	0	0
KPC	5.2	CITY OF VANCEBURG	2003	7	0	0
KPC	5.2	CITY OF VANCEBURG	2003	8	0	0
KPC	5.2	CITY OF VANCEBURG	2003	9	0	0
KPC	5.2	CITY OF VANCEBURG	2003	10	0	0
KPC	5.2	CITY OF VANCEBURG	2003	11	0	0
KPC	5.2	CITY OF VANCEBURG	2003	12	0	0

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	VNC1	VNC2
KPC	5.2	CITY OF VANCEBURG	2004	1	1	0
KPC	5.2	CITY OF VANCEBURG	2004	2	0	0
KPC	5.2	CITY OF VANCEBURG	2004	3	0	0
KPC	5.2	CITY OF VANCEBURG	2004	4	0	0
KPC	5.2	CITY OF VANCEBURG	2004	5	0	0
KPC	5.2	CITY OF VANCEBURG	2004	6	0	0
KPC	5.2	CITY OF VANCEBURG	2004	7	0	0
KPC	5.2	CITY OF VANCEBURG	2004	8	0	0
KPC	5.2	CITY OF VANCEBURG	2004	9	0	0
KPC	5.2	CITY OF VANCEBURG	2004	10	0	0
KPC	5.2	CITY OF VANCEBURG	2004	11	0	0
KPC	5.2	CITY OF VANCEBURG	2004	12	0	0
KPC	5.2	CITY OF VANCEBURG	2005	1	0	0
KPC	5.2	CITY OF VANCEBURG	2005	2	0	0
KPC	5.2	CITY OF VANCEBURG	2005	3	0	0
KPC	5.2	CITY OF VANCEBURG	2005	4	0	0
KPC	5.2	CITY OF VANCEBURG	2005	5	0	0
KPC	5.2	CITY OF VANCEBURG	2005	6	0	0
KPC	5.2	CITY OF VANCEBURG	2005	7	0	0
KPC	5.2	CITY OF VANCEBURG	2005	8	0	0
KPC	5.2	CITY OF VANCEBURG	2005	9	0	0
KPC	5.2	CITY OF VANCEBURG	2005	10	0	0
KPC	5.2	CITY OF VANCEBURG	2005	11	0	0
KPC	5.2	CITY OF VANCEBURG	2005	12	0	0
KPC	5.2	CITY OF VANCEBURG	2006	1	0	0
KPC	5.2	CITY OF VANCEBURG	2006	2	0	0
KPC	5.2	CITY OF VANCEBURG	2006	3	0	0
KPC	5.2	CITY OF VANCEBURG	2006	4	0	0
KPC	5.2	CITY OF VANCEBURG	2006	5	0	0
KPC	5.2	CITY OF VANCEBURG	2006	6	0	0
KPC	5.2	CITY OF VANCEBURG	2006	7	0	0
KPC	5.2	CITY OF VANCEBURG	2006	8	0	0
KPC	5.2	CITY OF VANCEBURG	2006	9	0	0
KPC	5.2	CITY OF VANCEBURG	2006	10	0	0
KPC	5.2	CITY OF VANCEBURG	2006	11	0	0
KPC	5.2	CITY OF VANCEBURG	2006	12	0	0

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	VNC1	VNC2
KPC	5.2	CITY OF VANCEBURG	2007	1	0	0
KPC	5.2	CITY OF VANCEBURG	2007	2	0	0
KPC	5.2	CITY OF VANCEBURG	2007	3	0	0
KPC	5.2	CITY OF VANCEBURG	2007	4	0	0
KPC	5.2	CITY OF VANCEBURG	2007	5	0	0
KPC	5.2	CITY OF VANCEBURG	2007	6	0	0
KPC	5.2	CITY OF VANCEBURG	2007	7	0	0
KPC	5.2	CITY OF VANCEBURG	2007	8	0	0
KPC	5.2	CITY OF VANCEBURG	2007	9	0	0
KPC	5.2	CITY OF VANCEBURG	2007	10	0	0
KPC	5.2	CITY OF VANCEBURG	2007	11	0	0
KPC	5.2	CITY OF VANCEBURG	2007	12	0	0
KPC	5.2	CITY OF VANCEBURG	2008	1	0	0
KPC	5.2	CITY OF VANCEBURG	2008	2	0	0
KPC	5.2	CITY OF VANCEBURG	2008	3	0	0
KPC	5.2	CITY OF VANCEBURG	2008	4	0	0
KPC	5.2	CITY OF VANCEBURG	2008	5	0	0
KPC	5.2	CITY OF VANCEBURG	2008	6	0	0
KPC	5.2	CITY OF VANCEBURG	2008	7	0	0
KPC	5.2	CITY OF VANCEBURG	2008	8	0	0
KPC	5.2	CITY OF VANCEBURG	2008	9	0	0
KPC	5.2	CITY OF VANCEBURG	2008	10	0	0
KPC	5.2	CITY OF VANCEBURG	2008	11	0	0
KPC	5.2	CITY OF VANCEBURG	2008	12	0	0
KPC	5.2	CITY OF VANCEBURG	2009	1	0	0
KPC	5.2	CITY OF VANCEBURG	2009	2	0	0
KPC	5.2	CITY OF VANCEBURG	2009	3	0	0
KPC	5.2	CITY OF VANCEBURG	2009	4	0	0
KPC	5.2	CITY OF VANCEBURG	2009	5	0	0
KPC	5.2	CITY OF VANCEBURG	2009	6	0	0
KPC	5.2	CITY OF VANCEBURG	2009	7	0	0
KPC	5.2	CITY OF VANCEBURG	2009	8	0	0
KPC	5.2	CITY OF VANCEBURG	2009	9	0	0
KPC	5.2	CITY OF VANCEBURG	2009	10	0	0
KPC	5.2	CITY OF VANCEBURG	2009	11	0	0
KPC	5.2	CITY OF VANCEBURG	2009	12	0	0

KPC_Muni_Coop_Model_Input

JURIS	revcls	name	YEAR	MONTH	VNC1	VNC2
KPC	5.2	CITY OF VANCEBURG	2010	1	0	0
KPC	5.2	CITY OF VANCEBURG	2010	2	0	0
KPC	5.2	CITY OF VANCEBURG	2010	3	0	0
KPC	5.2	CITY OF VANCEBURG	2010	4	0	0
KPC	5.2	CITY OF VANCEBURG	2010	5	0	0
KPC	5.2	CITY OF VANCEBURG	2010	6	0	0
KPC	5.2	CITY OF VANCEBURG	2010	7	0	0
KPC	5.2	CITY OF VANCEBURG	2010	8	0	0
KPC	5.2	CITY OF VANCEBURG	2010	9	0	0
KPC	5.2	CITY OF VANCEBURG	2010	10	0	0
KPC	5.2	CITY OF VANCEBURG	2010	11	0	0
KPC	5.2	CITY OF VANCEBURG	2010	12	0	0
KPC	5.2	CITY OF VANCEBURG	2011	1	0	0
KPC	5.2	CITY OF VANCEBURG	2011	2	0	0
KPC	5.2	CITY OF VANCEBURG	2011	3	0	0
KPC	5.2	CITY OF VANCEBURG	2011	4	0	0
KPC	5.2	CITY OF VANCEBURG	2011	5	0	0
KPC	5.2	CITY OF VANCEBURG	2011	6	0	0
KPC	5.2	CITY OF VANCEBURG	2011	7	0	0
KPC	5.2	CITY OF VANCEBURG	2011	8	0	0
KPC	5.2	CITY OF VANCEBURG	2011	9	0	0
KPC	5.2	CITY OF VANCEBURG	2011	10	0	0
KPC	5.2	CITY OF VANCEBURG	2011	11	0	0
KPC	5.2	CITY OF VANCEBURG	2011	12	0	0

Kentucky Power Company
 CITY OF OLIVE HILL

The ARIMA Procedure

Conditional Least Squares Estimation

Parameter	Estimate	Standard Error	t Value	Pr > t	Approx	Lag	Variable	Shift
MU	20374.7	11961.4	1.70	0.0920		0		
AR1,1	-0.25565	0.10593	-2.43	0.0173		2	KWH	0
AR2,1	-0.57841	0.11023	-5.25	<.0001		12	KWH	0
AR2,2	-0.33914	0.10822	-3.13	0.0023		24	KWH	0
NUM1	1375.3	572.48992	2.40	0.0184		0	bcd465	0
NUM2	321.59855	316.92741	1.01	0.3130		0	bhd455	0
NUM3	1301923.5	155280.3	8.38	<.0001		0	OLV1	0
NUM4	2642705.6	220694.4	11.97	<.0001		0	OLV2	0

Constant Estimate 49057.76
 Variance Estimate 6.818E10
 Std Error Estimate 261107.9
 AIC 2674.839
 SBC 2695.354
 Number of Residuals 96

* AIC and SBC do not include log determinant.

Kentucky Power Company
 CITY OF OLIVE HILL

The ARIMA Procedure

Correlations of Parameter Estimates

Variable Parameter		KWH MU	KWH AR1,1	KWH AR2,1	KWH AR2,2	b added65 NUM1	b added55 NUM2	OLV1 NUM3	OLV2 NUM4
KWH	MU	1.000	-0.004	-0.026	0.001	-0.080	0.028	0.005	-0.001
KWH	AR1,1	-0.004	1.000	0.068	0.041	-0.099	-0.107	0.044	0.047
KWH	AR2,1	-0.026	0.068	1.000	0.408	0.309	0.027	-0.097	0.020
KWH	AR2,2	0.001	0.041	0.408	1.000	0.062	0.056	0.021	-0.127
b added65	NUM1	-0.080	-0.099	0.309	0.062	1.000	-0.007	-0.054	0.008
b added55	NUM2	0.028	-0.107	0.027	0.056	-0.007	1.000	0.017	0.031
OLV1	NUM3	0.005	0.044	-0.097	0.021	-0.054	0.017	1.000	-0.020
OLV2	NUM4	-0.001	0.047	0.020	-0.127	0.008	0.031	-0.020	1.000

Autocorrelation Check of Residuals

To Lag	Chi- Square	DF	Pr > ChiSq	-----Autocorrelations-----					
6	1.96	3	0.5804	-0.085	-0.017	-0.013	-0.049	0.080	0.052
12	8.61	9	0.4740	-0.147	-0.110	0.033	-0.158	-0.014	-0.045
18	18.44	15	0.2403	0.099	-0.016	-0.081	-0.212	0.142	0.046
24	22.57	21	0.3674	0.064	0.122	-0.019	0.051	0.085	-0.061

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 1																	Std Error
0	6.81773E10	1.00000	*****																	0
1	-5.80875E9	-.08520	. ** .																	0.102062
2	-1.17754E9	-.01727	. .																	0.102800
3	-893188645	-.01310	. .																	0.102831
4	-3.37401E9	-.04949	. * .																	0.102848
5	5437013399	0.07975	. ** .																	0.103096

Kentucky Power Company
 CITY OF OLIVE HILL

The ARIMA Procedure

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error
6	3577622036	0.05248													*	.								0.103736
7	-9.98807E9	-.14650													***	.								0.104012
8	-7.49302E9	-.10990													**	.								0.106140
9	2253030780	0.03305													.	*	.							0.107319
10	-1.0757E10	-.15778													***	.								0.107425
11	-940831110	-.01380													.	.								0.109812
12	-3.0599E9	-.04488													.	*	.							0.109830
13	6748032063	0.09898													.	**	.							0.110021
14	-1.0887E9	-.01597													.	.								0.110945
15	-5.54268E9	-.08130													.	**	.							0.110969
16	-1.4439E10	-.21178													****	.								0.111588
17	9670482256	0.14184													.	***	.							0.115699
18	3104955844	0.04554													.	*	.							0.117496
19	4347119921	0.06376													.	*	.							0.117680
20	8313065654	0.12193													.	**	.							0.118039
21	-1.26188E9	-.01851													.	.								0.119344
22	3466604688	0.05085													.	*	.							0.119374
23	5816357781	0.08531													.	**	.							0.119599
24	-4.14603E9	-.06081													.	*	.							0.120232

".*" marks two standard errors

Kentucky Power Company
 CITY OF OLIVE HILL

The ARIMA Procedure

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1		
1	0.15448									.			***											
2	0.00875									.			.											
3	-0.03140									.	*		.											
4	0.03734									.			*											
5	-0.14263									.	***		.											
6	-0.01650									.			.											
7	0.18184									.			****											
8	0.27526									.			*****											
9	0.01768									.			.											
10	0.05657									.			*											
11	-0.01000									.			.											
12	-0.00309									.			.											
13	-0.15395									.	***		.											
14	0.05449									.			*											
15	0.14165									.			***											
16	0.19727									.			****											
17	-0.04905									.	*		.											
18	-0.00458									.			.											
19	-0.06705									.	*		.											
20	-0.12187									.	**		.											
21	-0.08001									.	**		.											
22	-0.00746									.			.											
23	-0.00240									.			.											
24	0.06739									.			*											

Kentucky Power Company
 CITY OF OLIVE HILL

The ARIMA Procedure

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1
1	-0.08520									. **		.										
2	-0.02471									.		.										
3	-0.01685									.		.										
4	-0.05296									. *		.										
5	0.07089									.		*	.									
6	0.06395									.		*	.									
7	-0.13744									. ****		.										
8	-0.13656									. ****		.										
9	0.01727									.		.										
10	-0.16983									. ****		.										
11	-0.07683									. **		.										
12	-0.05401									. *		.										
13	0.12557									.		***.										
14	-0.03118									. *		.										
15	-0.11286									. **		.										
16	-0.24402									*****		.										
17	0.08288									.		**.	.									
18	-0.01645									.		.										
19	0.02664									.		*	.									
20	0.14239									.		***.	.									
21	0.10078									.		**.	.									
22	0.00852									.		.										
23	0.02511									.		*	.									
24	-0.08623									. **		.										

Model for variable KWH

Estimated Intercept 20374.7
 Period(s) of Differencing 12

Kentucky Power Company
CITY OF OLIVE HILL

The ARIMA Procedure

Autoregressive Factors

Factor 1: $1 + 0.25565 B^{**}(2)$
Factor 2: $1 + 0.57841 B^{**}(12) + 0.33914 B^{**}(24)$

Input Number 1

Input Variable	bodd65
Period(s) of Differencing	12
Overall Regression Factor	1375.334

Input Number 2

Input Variable	bhdd55
Period(s) of Differencing	12
Overall Regression Factor	321.5986

Input Number 3

Input Variable	OLV1
Period(s) of Differencing	12
Overall Regression Factor	1301924

Input Number 4

Input Variable	OLV2
Period(s) of Differencing	12
Overall Regression Factor	2642706

Kentucky Power Company
 CITY OF VANCEBURG

The ARIMA Procedure

Conditional Least Squares Estimation

Parameter	Estimate	Standard Error	t Value	Approx Pr > t	Lag	Variable	Shift
MU	4068371.4	204767.3	19.87	<.0001	0	KWH	0
MA1,1	-0.34437	0.09887	-3.48	0.0008	11	KWH	0
MA1,2	0.49806	0.12252	4.07	0.0001	12	KWH	0
AR1,1	0.98444	0.06723	14.64	<.0001	12	KWH	0
AR2,1	0.21782	0.10793	2.02	0.0467	1	KWH	0
AR2,2	0.39769	0.11282	3.53	0.0007	17	KWH	0
NUM1	1784.0	800.04952	2.23	0.0284	0	bcdd65	0
NUM2	1622.8	428.31994	3.79	0.0003	0	bhdd55	0
NUM3	7326494.0	374234.5	19.58	<.0001	0	VNC1	0
NUM4	2864532.6	236329.3	12.12	<.0001	0	VNC2	0

Constant Estimate 24342.11
 Variance Estimate 1.841E11
 Std Error Estimate 429088.5
 AIC 2772.004
 SBC 2797.648
 Number of Residuals 96

* AIC and SBC do not include log determinant.

Kentucky Power Company
 CITY OF VANCEBURG

The ARIMA Procedure

Correlations of Parameter Estimates

Variable		KWH	KWH	KWH	KWH	KWH	KWH	bcdd65	bhdd55	VNC1	
VNC2	Parameter	MU	MA1,1	MA1,2	AR1,1	AR2,1	AR2,2	NUM1	NUM2	NUM3	
NUM4											
	KWH	MU	1.000	-0.011	-0.041	-0.094	0.259	-0.024	-0.562	-0.617	-0.044
0.216	KWH	MA1,1	-0.011	1.000	0.261	0.187	0.138	0.040	-0.057	0.028	-0.308
0.096	KWH	MA1,2	-0.041	0.261	1.000	0.625	0.008	-0.103	-0.018	-0.068	0.238
0.092	KWH	AR1,1	-0.094	0.187	0.625	1.000	-0.132	-0.300	0.098	0.045	0.102
0.063	KWH	AR2,1	0.259	0.138	0.008	-0.132	1.000	-0.205	-0.312	-0.271	-0.072
0.009	KWH	AR2,2	-0.024	0.040	-0.103	-0.300	-0.205	1.000	0.035	0.077	-0.064
0.049	bcdd65	NUM1	-0.562	-0.057	-0.018	0.098	-0.312	0.035	1.000	0.481	0.102
0.177	bhdd55	NUM2	-0.617	0.028	-0.068	0.045	-0.271	0.077	0.481	1.000	0.015
0.244	VNC1	NUM3	-0.044	-0.308	0.238	0.102	-0.072	-0.064	0.102	0.015	1.000
0.095	VNC2	NUM4	0.216	-0.096	-0.092	-0.063	-0.009	0.049	-0.177	-0.244	0.095
1.000											

Autocorrelation Check of Residuals

To Lag	Chi-Square	DF	Pr > ChiSq	-----Autocorrelations-----						
6	4.88	1	0.0272	-0.075	0.111	0.034	0.102	0.092	0.099	
12	8.21	7	0.3147	0.103	-0.046	0.088	0.086	-0.041	0.037	
18	10.80	13	0.6279	0.084	-0.001	-0.016	0.118	0.014	0.029	
24	15.75	19	0.6738	0.030	0.057	-0.027	0.137	-0.036	0.117	

Kentucky Power Company
 CITY OF VANCEBURG

The ARIMA Procedure

Autocorrelation Plot of Residuals

Lag	Covariance	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	Std Error
0	1.84117E11	1.00000												*****										0
1	-1.3803E10	-.07497									.	*												0.102062
2	2.05279E10	0.11149									.		**	.										0.102634
3	6283713580	0.03413									.		*	.										0.103888
4	1.87465E10	0.10182									.		**	.										0.104005
5	1.68935E10	0.09175									.		**	.										0.105038
6	1.82631E10	0.09919									.		**	.										0.105870
7	1.90037E10	0.10322									.		**	.										0.106833
8	-8.44032E9	-.04584									.	*	.											0.107867
9	1.61725E10	0.08784									.		**	.										0.108070
10	1.58312E10	0.08598									.		**	.										0.108811
11	-7.49259E9	-.04069									.	*	.											0.109516
12	6788102581	0.03687									.		*	.										0.109674
13	1.54804E10	0.08408									.		**	.										0.109803
14	-116993951	-.00064									.		.											0.110471
15	-3.03617E9	-.01649									.		.											0.110472
16	2.16706E10	0.11770									.		**	.										0.110497
17	2528676235	0.01373									.		.											0.111796
18	5406035964	0.02936									.		*	.										0.111813
19	5522882059	0.03000									.		*	.										0.111893
20	1.04667E10	0.05685									.		*	.										0.111977
21	-5.05535E9	-.02746									.	*	.											0.112277
22	2.5238E10	0.13708									.		***	.										0.112347
23	-6.70778E9	-.03643									.	*	.											0.114076
24	2.15595E10	0.11710									.		**	.										0.114197

"," marks two standard errors

Kentucky Power Company
 CITY OF VANCEBURG

The ARIMA Procedure

Inverse Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	0.06718									.		*	.										
2	-0.06824									.		*	.										
3	0.01481									.		.	.										
4	-0.06237									.		*	.										
5	-0.12379									.		**	.										
6	-0.08297									.		**	.										
7	-0.06274									.		*	.										
8	0.06982									.		*	.										
9	-0.04503									.		*	.										
10	-0.05517									.		*	.										
11	0.10125									.		**	.										
12	0.02166									.		.	.										
13	-0.07769									.		**	.										
14	0.03513									.		*	.										
15	0.05484									.		*	.										
16	-0.09445									.		**	.										
17	-0.00411									.		.	.										
18	0.01109									.		.	.										
19	0.01066									.		.	.										
20	-0.00331									.		.	.										
21	0.00354									.		.	.										
22	-0.05730									.		*	.										
23	0.03553									.		*	.										
24	-0.09878									.		**	.										

Kentucky Power Company
 CITY OF VANCEBURG

The ARIMA Procedure

Partial Autocorrelations

Lag	Correlation	-1	9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	1	
1	-0.07497										.	*		.									
2	0.10647										.		**	.									
3	0.05043										.		*	.									
4	0.09772										.		**	.									
5	0.10003										.		**	.									
6	0.09547										.		**	.									
7	0.09714										.		**	.									
8	-0.06617										.		*	.									
9	0.03494										.		*	.									
10	0.07605										.		**	.									
11	-0.07553										.		**	.									
12	-0.01039										.		.	.									
13	0.07694										.		**	.									
14	-0.01150										.		.	.									
15	-0.04260										.		*	.									
16	0.09542										.		**	.									
17	0.02837										.		*	.									
18	0.01376										.		.	.									
19	-0.00092										.		.	.									
20	0.03768										.		*	.									
21	-0.02444										.		.	.									
22	0.09108										.		**	.									
23	-0.05706										.		*	.									
24	0.10931										.		**	.									

Model for variable KWH

Estimated Intercept 4068371

Kentucky Power Company
CITY OF VANCEBURG

The ARIMA Procedure

Autoregressive Factors

Factor 1: $1 - 0.98444 B^{**}(12)$
Factor 2: $1 - 0.21782 B^{**}(1) - 0.39769 B^{**}(17)$

Moving Average Factors

Factor 1: $1 + 0.34437 B^{**}(11) - 0.49806 B^{**}(12)$

Input Number 1

Input Variable	b added 65
Overall Regression Factor	1783.964

Input Number 2

Input Variable	b added 55
Overall Regression Factor	1622.764

Input Number 3

Input Variable	VNC1
Overall Regression Factor	7326494

Input Number 4

Input Variable	VNC2
Overall Regression Factor	2864533

KPC_Muni_Coop_Model_Output

name	JURIS	revcls	YEAR	MONTH	time	KWH	L95	U95	RESIDUAL
CITY OF OLIVE HILL	KPC	5.2	1999	1	1/1/1999				
CITY OF OLIVE HILL	KPC	5.2	1999	2	2/1/1999				
CITY OF OLIVE HILL	KPC	5.2	1999	3	3/1/1999				
CITY OF OLIVE HILL	KPC	5.2	1999	4	4/1/1999				
CITY OF OLIVE HILL	KPC	5.2	1999	5	5/1/1999				
CITY OF OLIVE HILL	KPC	5.2	1999	6	6/1/1999				
CITY OF OLIVE HILL	KPC	5.2	1999	7	7/1/1999				
CITY OF OLIVE HILL	KPC	5.2	1999	8	8/1/1999				
CITY OF OLIVE HILL	KPC	5.2	1999	9	9/1/1999				
CITY OF OLIVE HILL	KPC	5.2	1999	10	10/1/1999	2034000			
CITY OF OLIVE HILL	KPC	5.2	1999	11	11/1/1999	1624800			
CITY OF OLIVE HILL	KPC	5.2	1999	12	12/1/1999	1805400			
CITY OF OLIVE HILL	KPC	5.2	2000	1	1/1/2000	2770800			
CITY OF OLIVE HILL	KPC	5.2	2000	2	2/1/2000	2322600			
CITY OF OLIVE HILL	KPC	5.2	2000	3	3/1/2000	2514000			
CITY OF OLIVE HILL	KPC	5.2	2000	4	4/1/2000	1922400			
CITY OF OLIVE HILL	KPC	5.2	2000	5	5/1/2000	1805400			
CITY OF OLIVE HILL	KPC	5.2	2000	6	6/1/2000	1762800			
CITY OF OLIVE HILL	KPC	5.2	2000	7	7/1/2000	2264400			
CITY OF OLIVE HILL	KPC	5.2	2000	8	8/1/2000	2232600			
CITY OF OLIVE HILL	KPC	5.2	2000	9	9/1/2000	2171400			
CITY OF OLIVE HILL	KPC	5.2	2000	10	10/1/2000	2149800			
CITY OF OLIVE HILL	KPC	5.2	2000	11	11/1/2000	1719600			
CITY OF OLIVE HILL	KPC	5.2	2000	12	12/1/2000	2310600			
CITY OF OLIVE HILL	KPC	5.2	2001	1	1/1/2001	2946600	2368672	3392196	66166.4
CITY OF OLIVE HILL	KPC	5.2	2001	2	2/1/2001	3016800	1804701	2828225	700336.7
CITY OF OLIVE HILL	KPC	5.2	2001	3	3/1/2001	2213400	2055908	3079432	-354270.5
CITY OF OLIVE HILL	KPC	5.2	2001	4	4/1/2001	1875000	1346342	2369866	16896.14
CITY OF OLIVE HILL	KPC	5.2	2001	5	5/1/2001	1926600	1451723	2475247	-36885.35
CITY OF OLIVE HILL	KPC	5.2	2001	6	6/1/2001	1950600	1241693	2265217	197145.3
CITY OF OLIVE HILL	KPC	5.2	2001	7	7/1/2001	2127600	1710699	2734223	-94860.53
CITY OF OLIVE HILL	KPC	5.2	2001	8	8/1/2001	2043600	1819833	2843357	-287994.9
CITY OF OLIVE HILL	KPC	5.2	2001	9	9/1/2001	1536600	1787687	2811211	-762849.4
CITY OF OLIVE HILL	KPC	5.2	2001	10	10/1/2001	1618800	1736512	2760036	-629474.1
CITY OF OLIVE HILL	KPC	5.2	2001	11	11/1/2001	2665800	1430859	2454383	723178.7
CITY OF OLIVE HILL	KPC	5.2	2001	12	12/1/2001	2473200	1836654	2860178	124784.4

KPC_Muni_Coop_Model_Output

CITY OF OLIVE HILL	KPC	5.2	2002	1	1/1/2002	2822400	2105618	3129142	205020.4
CITY OF OLIVE HILL	KPC	5.2	2002	2	2/1/2002	2305800	2001685	3025209	-207647.5
CITY OF OLIVE HILL	KPC	5.2	2002	3	3/1/2002	1447200	636369.4	1659893	299068.6
CITY OF OLIVE HILL	KPC	5.2	2002	4	4/1/2002	3568800	2796508	3820032	260530
CITY OF OLIVE HILL	KPC	5.2	2002	5	5/1/2002	1759200	1281035	2304559	-33597.08
CITY OF OLIVE HILL	KPC	5.2	2002	6	6/1/2002	2199600	1306032	2329556	381805.7
CITY OF OLIVE HILL	KPC	5.2	2002	7	7/1/2002	2733000	1839207	2862731	382031
CITY OF OLIVE HILL	KPC	5.2	2002	8	8/1/2002	2510400	1760362	2783886	238276.3
CITY OF OLIVE HILL	KPC	5.2	2002	9	9/1/2002	2182800	1486018	2509542	185020.1
CITY OF OLIVE HILL	KPC	5.2	2002	10	10/1/2002	1769400	1499651	2523175	-242013.3
CITY OF OLIVE HILL	KPC	5.2	2002	11	11/1/2002	2152200	1629491	2653015	10946.71
CITY OF OLIVE HILL	KPC	5.2	2002	12	12/1/2002	3134400	2002203	3025727	620434.5
CITY OF OLIVE HILL	KPC	5.2	2003	1	1/1/2003	2929200	2347240	3370764	70198.17
CITY OF OLIVE HILL	KPC	5.2	2003	2	2/1/2003	2545200	1895772	2919296	137666.1
CITY OF OLIVE HILL	KPC	5.2	2003	3	3/1/2003	2048400	2098798	3122322	-562159.8
CITY OF OLIVE HILL	KPC	5.2	2003	4	4/1/2003	1948800	1564515	2588039	-127477.5
CITY OF OLIVE HILL	KPC	5.2	2003	5	5/1/2003	1759200	1453816	2477340	-206378.4
CITY OF OLIVE HILL	KPC	5.2	2003	6	6/1/2003	1802400	1441228	2464752	-150589.7
CITY OF OLIVE HILL	KPC	5.2	2003	7	7/1/2003	2522400	1898603	2922127	112035
CITY OF OLIVE HILL	KPC	5.2	2003	8	8/1/2003	2311800	1781044	2804568	18993.65
CITY OF OLIVE HILL	KPC	5.2	2003	9	9/1/2003	1956000	1486205	2509729	-41967.33
CITY OF OLIVE HILL	KPC	5.2	2003	10	10/1/2003	1899600	1296844	2320368	90994.34
CITY OF OLIVE HILL	KPC	5.2	2003	11	11/1/2003	1945200	1654391	2677915	-220953.1
CITY OF OLIVE HILL	KPC	5.2	2003	12	12/1/2003	2980200	2177986	3201510	290451.8
CITY OF OLIVE HILL	KPC	5.2	2004	1	1/1/2004	5491800	5101801	6125325	-121762.7
CITY OF OLIVE HILL	KPC	5.2	2004	2	2/1/2004	2680200	2125032	3148556	43406.21
CITY OF OLIVE HILL	KPC	5.2	2004	3	3/1/2004	2263200	1801363	2824887	-49925.33
CITY OF OLIVE HILL	KPC	5.2	2004	4	4/1/2004	1889400	1523698	2547222	-146059.7
CITY OF OLIVE HILL	KPC	5.2	2004	5	5/1/2004	1944600	1376892	2400416	55946.03
CITY OF OLIVE HILL	KPC	5.2	2004	6	6/1/2004	2245800	1665449	2688973	68588.88
CITY OF OLIVE HILL	KPC	5.2	2004	7	7/1/2004	2372400	1964372	2987896	-103733.8
CITY OF OLIVE HILL	KPC	5.2	2004	8	8/1/2004	2116800	1678613	2702137	-73575.42
CITY OF OLIVE HILL	KPC	5.2	2004	9	9/1/2004	2262000	1349272	2372796	400965.6
CITY OF OLIVE HILL	KPC	5.2	2004	10	10/1/2004	1676400	1313720	2337244	-149082.3
CITY OF OLIVE HILL	KPC	5.2	2004	11	11/1/2004	1890000	1635863	2659387	-257625
CITY OF OLIVE HILL	KPC	5.2	2004	12	12/1/2004	3109200	2395661	3419185	201777.3
CITY OF OLIVE HILL	KPC	5.2	2005	1	1/1/2005	2632200	2455091	3478615	-334653.3

KPC_Muni_Coop_Model_Output

CITY OF OLIVE HILL	KPC	5.2	2005	2	2/1/2005	2297241	1966609	2990133	-181130
CITY OF OLIVE HILL	KPC	5.2	2005	3	3/1/2005	2515200	1980514	3004038	22924.29
CITY OF OLIVE HILL	KPC	5.2	2005	4	4/1/2005	1809000	1615439	2638963	-318200.9
CITY OF OLIVE HILL	KPC	5.2	2005	5	5/1/2005	1762200	1299106	2322630	-48667.66
CITY OF OLIVE HILL	KPC	5.2	2005	6	6/1/2005	2341800	1693448	2716972	136590.4
CITY OF OLIVE HILL	KPC	5.2	2005	7	7/1/2005	2608800	2205176	3228700	-108138.4
CITY OF OLIVE HILL	KPC	5.2	2005	8	8/1/2005	2551800	1987056	3010580	52982.17
CITY OF OLIVE HILL	KPC	5.2	2005	9	9/1/2005	2316600	1814942	2838466	-10104.35
CITY OF OLIVE HILL	KPC	5.2	2005	10	10/1/2005	1744800	1387723	2411247	-154684.5
CITY OF OLIVE HILL	KPC	5.2	2005	11	11/1/2005	2559000	1525834	2549358	521403.8
CITY OF OLIVE HILL	KPC	5.2	2005	12	12/1/2005	2883000	2693078	3716602	-321839.7
CITY OF OLIVE HILL	KPC	5.2	2006	1	1/1/2006	2774912	2165300	3188824	97849.96
CITY OF OLIVE HILL	KPC	5.2	2006	2	2/1/2006	2529599	1984617	3008141	33220.29
CITY OF OLIVE HILL	KPC	5.2	2006	3	3/1/2006	2388699	1826746	2850270	50190.91
CITY OF OLIVE HILL	KPC	5.2	2006	4	4/1/2006	1791134	1397734	2421258	-118361.7
CITY OF OLIVE HILL	KPC	5.2	2006	5	5/1/2006	1887203	1290597	2314120	84844.5
CITY OF OLIVE HILL	KPC	5.2	2006	6	6/1/2006	2051454	1682012	2705536	-142320.2
CITY OF OLIVE HILL	KPC	5.2	2006	7	7/1/2006	2596750	1995986	3019510	89002.47
CITY OF OLIVE HILL	KPC	5.2	2006	8	8/1/2006	2592996	2014283	3037807	66951.43
CITY OF OLIVE HILL	KPC	5.2	2006	9	9/1/2006	1800516	1659923	2683447	-371168.9
CITY OF OLIVE HILL	KPC	5.2	2006	10	10/1/2006	2019286	1210978	2234502	296546.2
CITY OF OLIVE HILL	KPC	5.2	2006	11	11/1/2006	2254740	1839180	2862704	-96202.41
CITY OF OLIVE HILL	KPC	5.2	2006	12	12/1/2006	2662655	2409393	3432917	-258499.8
CITY OF OLIVE HILL	KPC	5.2	2007	1	1/1/2007	2745173	2241670	3265194	-8259.138
CITY OF OLIVE HILL	KPC	5.2	2007	2	2/1/2007	2995023	2185395	3208919	297865.9
CITY OF OLIVE HILL	KPC	5.2	2007	3	3/1/2007	2239520	1952836	2976360	-225078.4
CITY OF OLIVE HILL	KPC	5.2	2007	4	4/1/2007	1977408	1271947	2295471	193698.9
CITY OF OLIVE HILL	KPC	5.2	2007	5	5/1/2007	2037488	1485239	2508763	40486.59
CITY OF OLIVE HILL	KPC	5.2	2007	6	6/1/2007	2198936	1741815	2765339	-54641.26
CITY OF OLIVE HILL	KPC	5.2	2007	7	7/1/2007	2349522	2042125	3065649	-204364.9
CITY OF OLIVE HILL	KPC	5.2	2007	8	8/1/2007	2772236	1936993	2960517	323481.5
CITY OF OLIVE HILL	KPC	5.2	2007	9	9/1/2007	2106517	1820904	2844428	-226149.4
CITY OF OLIVE HILL	KPC	5.2	2007	10	10/1/2007	1932195	1410648	2434172	9785.041
CITY OF OLIVE HILL	KPC	5.2	2007	11	11/1/2007	2276993	1799400	2822924	-34168.64
CITY OF OLIVE HILL	KPC	5.2	2007	12	12/1/2007	2791299	2415278	3438802	-135741.3
CITY OF OLIVE HILL	KPC	5.2	2008	1	1/1/2008	3154233	2260303	3283827	382167.8
CITY OF OLIVE HILL	KPC	5.2	2008	2	2/1/2008	2755285	2207017	3230541	36505.87

KPC_Muni_Coop_Model_Output

CITY OF OLIVE HILL	KPC	5.2	2008	3	3/1/2008	2454729	1792091	2815615	150875.9
CITY OF OLIVE HILL	KPC	5.2	2008	4	4/1/2008	1874737	1365903	2389427	-2927.737
CITY OF OLIVE HILL	KPC	5.2	2008	5	5/1/2008	1807207	1395986	2419510	-100541.4
CITY OF OLIVE HILL	KPC	5.2	2008	6	6/1/2008	2220862	1699359	2722883	9740.698
CITY OF OLIVE HILL	KPC	5.2	2008	7	7/1/2008	2398257	1949812	2973336	-63317.27
CITY OF OLIVE HILL	KPC	5.2	2008	8	8/1/2008	2280182	2017335	3040859	-248915.4
CITY OF OLIVE HILL	KPC	5.2	2008	9	9/1/2008	2010659	1532943	2556467	-34045.52
CITY OF OLIVE HILL	KPC	5.2	2008	10	10/1/2008	1916447	1431136	2454660	-26450.87
CITY OF OLIVE HILL	KPC	5.2	2008	11	11/1/2008	2403114	1891352	2914876	13985.85
CITY OF OLIVE HILL	KPC	5.2	2008	12	12/1/2008	2811421	2299659	3323183	173987.3
CITY OF OLIVE HILL	KPC	5.2	2009	1	1/1/2009	3001060	2489298	3512822	
CITY OF OLIVE HILL	KPC	5.2	2009	2	2/1/2009	2755218	2243456	3266980	
CITY OF OLIVE HILL	KPC	5.2	2009	3	3/1/2009	2402695	1874474	2930915	
CITY OF OLIVE HILL	KPC	5.2	2009	4	4/1/2009	1920526	1392305	2448747	
CITY OF OLIVE HILL	KPC	5.2	2009	5	5/1/2009	1949899	1420620	2479177	
CITY OF OLIVE HILL	KPC	5.2	2009	6	6/1/2009	2202738	1673459	2732016	
CITY OF OLIVE HILL	KPC	5.2	2009	7	7/1/2009	2524761	1995413	3054109	
CITY OF OLIVE HILL	KPC	5.2	2009	8	8/1/2009	2542865	2013517	3072212	
CITY OF OLIVE HILL	KPC	5.2	2009	9	9/1/2009	1968898	1439546	2498251	
CITY OF OLIVE HILL	KPC	5.2	2009	10	10/1/2009	1980271	1450919	2509624	
CITY OF OLIVE HILL	KPC	5.2	2009	11	11/1/2009	2359904	1830552	2889257	
CITY OF OLIVE HILL	KPC	5.2	2009	12	12/1/2009	2872843	2343490	3402196	
CITY OF OLIVE HILL	KPC	5.2	2010	1	1/1/2010	3021414	2449728	3593100	
CITY OF OLIVE HILL	KPC	5.2	2010	2	2/1/2010	2869456	2297770	3441143	
CITY OF OLIVE HILL	KPC	5.2	2010	3	3/1/2010	2379488	1805144	2953832	
CITY OF OLIVE HILL	KPC	5.2	2010	4	4/1/2010	1966488	1392144	2540832	
CITY OF OLIVE HILL	KPC	5.2	2010	5	5/1/2010	1986918	1412401	2561436	
CITY OF OLIVE HILL	KPC	5.2	2010	6	6/1/2010	2228965	1654447	2803483	
CITY OF OLIVE HILL	KPC	5.2	2010	7	7/1/2010	2483097	1908568	3057626	
CITY OF OLIVE HILL	KPC	5.2	2010	8	8/1/2010	2613786	2039257	3188315	
CITY OF OLIVE HILL	KPC	5.2	2010	9	9/1/2010	2013141	1438611	2587671	
CITY OF OLIVE HILL	KPC	5.2	2010	10	10/1/2010	1943699	1369169	2518228	
CITY OF OLIVE HILL	KPC	5.2	2010	11	11/1/2010	2377697	1803168	2952227	
CITY OF OLIVE HILL	KPC	5.2	2010	12	12/1/2010	2912059	2337530	3486589	
CITY OF OLIVE HILL	KPC	5.2	2011	1	1/1/2011	3109956	2497051	3722862	
CITY OF OLIVE HILL	KPC	5.2	2011	2	2/1/2011	2845538	2232633	3458443	
CITY OF OLIVE HILL	KPC	5.2	2011	3	3/1/2011	2444087	1828757	3059417	

KPC_Muni_Coop_Model_Output

CITY OF OLIVE HILL	KPC	5.2	2011	4	4/1/2011	1968559	1353229	2583889
CITY OF OLIVE HILL	KPC	5.2	2011	5	5/1/2011	1968091	1352603	2583579
CITY OF OLIVE HILL	KPC	5.2	2011	6	6/1/2011	2268504	1653016	2883992
CITY OF OLIVE HILL	KPC	5.2	2011	7	7/1/2011			
CITY OF OLIVE HILL	KPC	5.2	2011	8	8/1/2011			
CITY OF OLIVE HILL	KPC	5.2	2011	9	9/1/2011			
CITY OF OLIVE HILL	KPC	5.2	2011	10	10/1/2011			
CITY OF OLIVE HILL	KPC	5.2	2011	11	11/1/2011			
CITY OF OLIVE HILL	KPC	5.2	2011	12	12/1/2011			
CITY OF VANCEBURG	KPC	5.2	1999	1	1/1/1999			
CITY OF VANCEBURG	KPC	5.2	1999	2	2/1/1999			
CITY OF VANCEBURG	KPC	5.2	1999	3	3/1/1999			
CITY OF VANCEBURG	KPC	5.2	1999	4	4/1/1999			
CITY OF VANCEBURG	KPC	5.2	1999	5	5/1/1999			
CITY OF VANCEBURG	KPC	5.2	1999	6	6/1/1999			
CITY OF VANCEBURG	KPC	5.2	1999	7	7/1/1999			
CITY OF VANCEBURG	KPC	5.2	1999	8	8/1/1999			
CITY OF VANCEBURG	KPC	5.2	1999	9	9/1/1999			
CITY OF VANCEBURG	KPC	5.2	1999	10	10/1/1999	12234300		
CITY OF VANCEBURG	KPC	5.2	1999	11	11/1/1999	4042900		
CITY OF VANCEBURG	KPC	5.2	1999	12	12/1/1999			
CITY OF VANCEBURG	KPC	5.2	2000	1	1/1/2000	11198700		
CITY OF VANCEBURG	KPC	5.2	2000	2	2/1/2000	4776100		
CITY OF VANCEBURG	KPC	5.2	2000	3	3/1/2000			
CITY OF VANCEBURG	KPC	5.2	2000	4	4/1/2000	7805000		
CITY OF VANCEBURG	KPC	5.2	2000	5	5/1/2000	3630100		
CITY OF VANCEBURG	KPC	5.2	2000	6	6/1/2000			
CITY OF VANCEBURG	KPC	5.2	2000	7	7/1/2000	8795500		
CITY OF VANCEBURG	KPC	5.2	2000	8	8/1/2000			
CITY OF VANCEBURG	KPC	5.2	2000	9	9/1/2000	8408200		
CITY OF VANCEBURG	KPC	5.2	2000	10	10/1/2000	3749100		
CITY OF VANCEBURG	KPC	5.2	2000	11	11/1/2000	4730900		
CITY OF VANCEBURG	KPC	5.2	2000	12	12/1/2000	6660700		
CITY OF VANCEBURG	KPC	5.2	2001	1	1/1/2001	6180900	4553596	6235592
CITY OF VANCEBURG	KPC	5.2	2001	2	2/1/2001	4843900	4425561	6107557
CITY OF VANCEBURG	KPC	5.2	2001	3	3/1/2001	5280800	3891463	5573459
CITY OF VANCEBURG	KPC	5.2	2001	4	4/1/2001	3948600	3896315	5578311
CITY OF VANCEBURG	KPC	5.2	2001					-788712.6

KPC_Muni_Coop_Model_Output

CITY OF VANCEBURG	KPC	5.2	2001	5	5/1/2001	3796800	3306411	4988407	-350609.2
CITY OF VANCEBURG	KPC	5.2	2001	6	6/1/2001	4291100	3286148	4968144	163954.3
CITY OF VANCEBURG	KPC	5.2	2001	7	7/1/2001	5052300	3645164	5327160	566138.2
CITY OF VANCEBURG	KPC	5.2	2001	8	8/1/2001	5356400	3944366	5626362	571035.7
CITY OF VANCEBURG	KPC	5.2	2001	9	9/1/2001	4096800	3839038	5521034	-583235.6
CITY OF VANCEBURG	KPC	5.2	2001	10	10/1/2001	4088300	3290035	4972031	-42732.66
CITY OF VANCEBURG	KPC	5.2	2001	11	11/1/2001	4300600	3443937	5125933	15665.28
CITY OF VANCEBURG	KPC	5.2	2001	12	12/1/2001	2299200	908386.6	2590382	549815.5
CITY OF VANCEBURG	KPC	5.2	2002	1	1/1/2002	8943700	7437399	9119395	665303.1
CITY OF VANCEBURG	KPC	5.2	2002	2	2/1/2002	5190600	4213318	5895314	136284.4
CITY OF VANCEBURG	KPC	5.2	2002	3	3/1/2002	5282300	3984542	5666538	456760.4
CITY OF VANCEBURG	KPC	5.2	2002	4	4/1/2002	4297500	3235965	4917961	220536.9
CITY OF VANCEBURG	KPC	5.2	2002	5	5/1/2002	4214600	3265136	4947131	108466.6
CITY OF VANCEBURG	KPC	5.2	2002	6	6/1/2002	5048200	4101314	5783309	105888.4
CITY OF VANCEBURG	KPC	5.2	2002	7	7/1/2002	5847100	4298073	5980069	708028.9
CITY OF VANCEBURG	KPC	5.2	2002	8	8/1/2002	5728200	4466049	6148045	421152.7
CITY OF VANCEBURG	KPC	5.2	2002	9	9/1/2002	4737700	3483962	5165958	412739.7
CITY OF VANCEBURG	KPC	5.2	2002	10	10/1/2002	4543600	3295871	4977867	406730.8
CITY OF VANCEBURG	KPC	5.2	2002	11	11/1/2002	5228200	3774228	5456224	612973.8
CITY OF VANCEBURG	KPC	5.2	2002	12	12/1/2002	6307200	5187220	6869216	278982.2
CITY OF VANCEBURG	KPC	5.2	2003	1	1/1/2003	7196800	5347211	7029207	1008591
CITY OF VANCEBURG	KPC	5.2	2003	2	2/1/2003	4933800	5029629	6711625	-936826.7
CITY OF VANCEBURG	KPC	5.2	2003	3	3/1/2003	5240000	4242379	5924375	156622.7
CITY OF VANCEBURG	KPC	5.2	2003	4	4/1/2003	4292700	3193008	4875003	258694.4
CITY OF VANCEBURG	KPC	5.2	2003	5	5/1/2003	4109500	3640579	5322574	-372076.5
CITY OF VANCEBURG	KPC	5.2	2003	6	6/1/2003	4543000	4299292	5981288	-597289.7
CITY OF VANCEBURG	KPC	5.2	2003	7	7/1/2003	5596500	4798571	6480567	-43068.96
CITY OF VANCEBURG	KPC	5.2	2003	8	8/1/2003	5731100	4576545	6258540	313557.4
CITY OF VANCEBURG	KPC	5.2	2003	9	9/1/2003	4620900	3915368	5597363	-135465.5
CITY OF VANCEBURG	KPC	5.2	2003	10	10/1/2003	4660600	3750260	5432256	69342.33
CITY OF VANCEBURG	KPC	5.2	2003	11	11/1/2003	5006200	4365177	6047173	-199974.9
CITY OF VANCEBURG	KPC	5.2	2003	12	12/1/2003	6571300	5679644	7361639	50658.54
CITY OF VANCEBURG	KPC	5.2	2004	1	1/1/2004	14046200	13029342	14711338	175860
CITY OF VANCEBURG	KPC	5.2	2004	2	2/1/2004	6448700	4598801	6280797	1008901
CITY OF VANCEBURG	KPC	5.2	2004	3	3/1/2004	5622300	4709146	6391141	72156.5
CITY OF VANCEBURG	KPC	5.2	2004	4	4/1/2004	4774800	3815237	5497233	118564.8
CITY OF VANCEBURG	KPC	5.2	2004	5	5/1/2004	5165900	3689017	5371013	635884.8

KPC_Muni_Coop_Model_Output

CITY OF VANCEBURG	KPC	5.2	2004	6	6/1/2004	5227000	4909212	6591208	-523209.8
CITY OF VANCEBURG	KPC	5.2	2004	7	7/1/2004	5771900	4713800	6395796	217102.3
CITY OF VANCEBURG	KPC	5.2	2004	8	8/1/2004	5463400	4590242	6272237	32160.54
CITY OF VANCEBURG	KPC	5.2	2004	9	9/1/2004	4894000	3817680	5499675	235322.5
CITY OF VANCEBURG	KPC	5.2	2004	10	10/1/2004	4625900	3775941	5457937	8961.097
CITY OF VANCEBURG	KPC	5.2	2004	11	11/1/2004	5099800	4095354	5777350	163448.1
CITY OF VANCEBURG	KPC	5.2	2004	12	12/1/2004	6754800	5647341	7329336	266461.5
CITY OF VANCEBURG	KPC	5.2	2005	1	1/1/2005	6745600	6159838	7841834	-255235.9
CITY OF VANCEBURG	KPC	5.2	2005	2	2/1/2005	5941500	4950717	6632713	149785.2
CITY OF VANCEBURG	KPC	5.2	2005	3	3/1/2005	6355800	4948738	6630733	566064.5
CITY OF VANCEBURG	KPC	5.2	2005	4	4/1/2005	4677400	4172881	5854877	-336478.8
CITY OF VANCEBURG	KPC	5.2	2005	5	5/1/2005	4702300	3920540	5602536	-59237.71
CITY OF VANCEBURG	KPC	5.2	2005	6	6/1/2005	5447400	4334013	6016009	272389.1
CITY OF VANCEBURG	KPC	5.2	2005	7	7/1/2005	6301700	5723944	7405939	-263241.5
CITY OF VANCEBURG	KPC	5.2	2005	8	8/1/2005	6255200	5347430	7029426	66771.85
CITY OF VANCEBURG	KPC	5.2	2005	9	9/1/2005	5113200	4385248	6067244	-113046.3
CITY OF VANCEBURG	KPC	5.2	2005	10	10/1/2005	5019600	4369281	6051277	-190678.9
CITY OF VANCEBURG	KPC	5.2	2005	11	11/1/2005	5577300	4601973	6283969	134329.3
CITY OF VANCEBURG	KPC	5.2	2005	12	12/1/2005	7594900	6115460	7797456	638442
CITY OF VANCEBURG	KPC	5.2	2006	1	1/1/2006	6398257	6082927	7764923	-525667.7
CITY OF VANCEBURG	KPC	5.2	2006	2	2/1/2006	6314298	4991764	6673760	481536
CITY OF VANCEBURG	KPC	5.2	2006	3	3/1/2006	6145647	5178089	6860085	126560.3
CITY OF VANCEBURG	KPC	5.2	2006	4	4/1/2006	4667655	4049939	5731935	-223281.8
CITY OF VANCEBURG	KPC	5.2	2006	5	5/1/2006	5015456	4023743	5705738	150715.4
CITY OF VANCEBURG	KPC	5.2	2006	6	6/1/2006	5415456	4468552	6150548	105906
CITY OF VANCEBURG	KPC	5.2	2006	7	7/1/2006	6364417	5314066	6996062	209352.7
CITY OF VANCEBURG	KPC	5.2	2006	8	8/1/2006	6583382	5539822	7221818	202562.3
CITY OF VANCEBURG	KPC	5.2	2006	9	9/1/2006	5034548	4169921	5851916	23629.55
CITY OF VANCEBURG	KPC	5.2	2006	10	10/1/2006	5601748	4011721	5693717	749029.2
CITY OF VANCEBURG	KPC	5.2	2006	11	11/1/2006	5947180	5268417	6950413	-162234.8
CITY OF VANCEBURG	KPC	5.2	2006	12	12/1/2006	6807119	6166303	7848299	-200181.7
CITY OF VANCEBURG	KPC	5.2	2007	1	1/1/2007	6588896	5812154	7494150	-64256.12
CITY OF VANCEBURG	KPC	5.2	2007	2	2/1/2007	7202739	5830272	7512268	531468.8
CITY OF VANCEBURG	KPC	5.2	2007	3	3/1/2007	6068974	5548263	7230259	-320287
CITY OF VANCEBURG	KPC	5.2	2007	4	4/1/2007	5517935	4037117	5719113	639820.3
CITY OF VANCEBURG	KPC	5.2	2007	5	5/1/2007	5427061	4670881	6352877	-84817.81
CITY OF VANCEBURG	KPC	5.2	2007	6	6/1/2007	5802358	4645354	6327350	316005.9

KPC_Muni_Coop_Model_Output

CITY OF VANCEBURG	KPC	5.2	2007	7	7/1/2007	6033322	5843004	7525000	-650680.1
CITY OF VANCEBURG	KPC	5.2	2007	8	8/1/2007	6768081	5368947	7050943	558135.9
CITY OF VANCEBURG	KPC	5.2	2007	9	9/1/2007	5222239	4696374	6378370	-315133.3
CITY OF VANCEBURG	KPC	5.2	2007	10	10/1/2007	4820080	4658250	6340246	-679168.1
CITY OF VANCEBURG	KPC	5.2	2007	11	11/1/2007	5498788	4816137	6498133	-158346.9
CITY OF VANCEBURG	KPC	5.2	2007	12	12/1/2007	6876039	6093799	7775795	-58757.74
CITY OF VANCEBURG	KPC	5.2	2008	1	1/1/2008	7869550	6348743	8030739	679809.1
CITY OF VANCEBURG	KPC	5.2	2008	2	2/1/2008	7046240	6051532	7733528	153710
CITY OF VANCEBURG	KPC	5.2	2008	3	3/1/2008	6590161	5766575	7448571	-17411.62
CITY OF VANCEBURG	KPC	5.2	2008	4	4/1/2008	5051722	4570213	6252209	-359488.8
CITY OF VANCEBURG	KPC	5.2	2008	5	5/1/2008	4953384	4327789	6009785	-215402.8
CITY OF VANCEBURG	KPC	5.2	2008	6	6/1/2008	5619318	4529690	6211686	248629.8
CITY OF VANCEBURG	KPC	5.2	2008	7	7/1/2008	6184453	5740030	7422026	-396575.4
CITY OF VANCEBURG	KPC	5.2	2008	8	8/1/2008	5845131	5350124	7032120	-345990.9
CITY OF VANCEBURG	KPC	5.2	2008	9	9/1/2008	4987397	4269603	5951599	-123204.4
CITY OF VANCEBURG	KPC	5.2	2008	10	10/1/2008	5121746	4237650	5919646	43097.96
CITY OF VANCEBURG	KPC	5.2	2008	11	11/1/2008	5732511	4891513	6573508	136479.4
CITY OF VANCEBURG	KPC	5.2	2008	12	12/1/2008	7051803	6210805	7892801	-367333.2
CITY OF VANCEBURG	KPC	5.2	2009	1	1/1/2009	7770067	6929069	8611065	
CITY OF VANCEBURG	KPC	5.2	2009	2	2/1/2009	6930964	6070246	7791681	
CITY OF VANCEBURG	KPC	5.2	2009	3	3/1/2009	5950874	5089233	6812516	
CITY OF VANCEBURG	KPC	5.2	2009	4	4/1/2009	4915043	4053358	5776728	
CITY OF VANCEBURG	KPC	5.2	2009	5	5/1/2009	5176207	4314519	6037894	
CITY OF VANCEBURG	KPC	5.2	2009	6	6/1/2009	5845630	4983942	6707317	
CITY OF VANCEBURG	KPC	5.2	2009	7	7/1/2009	6382987	5521299	7244674	
CITY OF VANCEBURG	KPC	5.2	2009	8	8/1/2009	6357143	5495455	7218830	
CITY OF VANCEBURG	KPC	5.2	2009	9	9/1/2009	4982487	4120799	5844174	
CITY OF VANCEBURG	KPC	5.2	2009	10	10/1/2009	4987417	4125729	5849104	
CITY OF VANCEBURG	KPC	5.2	2009	11	11/1/2009	5609408	4747720	6471095	
CITY OF VANCEBURG	KPC	5.2	2009	12	12/1/2009	6897071	5988015	7806126	
CITY OF VANCEBURG	KPC	5.2	2010	1	1/1/2010	7470632	6446285	8494979	
CITY OF VANCEBURG	KPC	5.2	2010	2	2/1/2010	6840155	5810659	7869651	
CITY OF VANCEBURG	KPC	5.2	2010	3	3/1/2010	6094019	5064279	7123759	
CITY OF VANCEBURG	KPC	5.2	2010	4	4/1/2010	5101661	4071910	6131412	
CITY OF VANCEBURG	KPC	5.2	2010	5	5/1/2010	5139748	4109996	6169500	
CITY OF VANCEBURG	KPC	5.2	2010	6	6/1/2010	5741707	4658931	6824484	
CITY OF VANCEBURG	KPC	5.2	2010	7	7/1/2010	6285718	5193176	7378260	

KPC_Muni_Coop_Model_Output

CITY OF VANCEBURG	KPC	5.2	2010	8	8/1/2010	6107417	5013838	7200997
CITY OF VANCEBURG	KPC	5.2	2010	9	9/1/2010	4869036	3775370	5962703
CITY OF VANCEBURG	KPC	5.2	2010	10	10/1/2010	5024675	3931001	6118348
CITY OF VANCEBURG	KPC	5.2	2010	11	11/1/2010	5682486	4588812	6776160
CITY OF VANCEBURG	KPC	5.2	2010	12	12/1/2010	6938730	5808442	8069017
CITY OF VANCEBURG	KPC	5.2	2011	1	1/1/2011	7619378	6397236	8841519
CITY OF VANCEBURG	KPC	5.2	2011	2	2/1/2011	6851210	5624881	8077539
CITY OF VANCEBURG	KPC	5.2	2011	3	3/1/2011	6035890	4809363	7262417
CITY OF VANCEBURG	KPC	5.2	2011	4	4/1/2011	4989819	3763282	6216355
CITY OF VANCEBURG	KPC	5.2	2011	5	5/1/2011	5200571	3968541	6432602
CITY OF VANCEBURG	KPC	5.2	2011	6	6/1/2011	5633750	4383429	6884070
CITY OF VANCEBURG	KPC	5.2	2011	7	7/1/2011			
CITY OF VANCEBURG	KPC	5.2	2011	8	8/1/2011			
CITY OF VANCEBURG	KPC	5.2	2011	9	9/1/2011			
CITY OF VANCEBURG	KPC	5.2	2011	10	10/1/2011			
CITY OF VANCEBURG	KPC	5.2	2011	11	11/1/2011			
CITY OF VANCEBURG	KPC	5.2	2011	12	12/1/2011			

LONG-TERM RESIDENTIAL

Kentucky Power Company
Residential Customers
Endogenous Variable

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2011.00
MONTH	MONTH	6.5000000
cr_kpc	Residential Customers	137757.32

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
1	1984	1	126446
2	1984	2	126527
3	1984	3	126401
4	1984	4	126135
5	1984	5	126120
6	1984	6	125775
7	1984	7	125771
8	1984	8	126000
9	1984	9	126300
10	1984	10	126452
11	1984	11	126662
12	1984	12	127012
13	1985	1	127196
14	1985	2	127406
15	1985	3	126987
16	1985	4	126739
17	1985	5	126678
18	1985	6	126652
19	1985	7	126651
20	1985	8	126750
21	1985	9	126986
22	1985	10	127194
23	1985	11	127323
24	1985	12	127763
25	1986	1	127982
26	1986	2	128202
27	1986	3	127974
28	1986	4	127624
29	1986	5	127377
30	1986	6	127326
31	1986	7	127378
32	1986	8	127497
33	1986	9	127574
34	1986	10	127502
35	1986	11	127669

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
36	1986	12	127997
37	1987	1	128282
38	1987	2	128348
39	1987	3	128172
40	1987	4	127967
41	1987	5	128015
42	1987	6	127842
43	1987	7	127910
44	1987	8	128010
45	1987	9	128009
46	1987	10	128109
47	1987	11	128326
48	1987	12	128631
49	1988	1	128848
50	1988	2	128842
51	1988	3	128765
52	1988	4	128614
53	1988	5	128618
54	1988	6	128670
55	1988	7	128899
56	1988	8	129025
57	1988	9	129003
58	1988	10	129305
59	1988	11	129394
60	1988	12	129690
61	1989	1	129866
62	1989	2	129919
63	1989	3	129964
64	1989	4	129840
65	1989	5	129788
66	1989	6	129784
67	1989	7	129870
68	1989	8	130002
69	1989	9	130005
70	1989	10	130168

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
71	1989	11	130426
72	1989	12	130708
73	1990	1	130805
74	1990	2	130825
75	1990	3	130851
76	1990	4	130801
77	1990	5	130855
78	1990	6	130919
79	1990	7	130943
80	1990	8	131083
81	1990	9	131161
82	1990	10	131398
83	1990	11	131571
84	1990	12	131808
85	1991	1	132016
86	1991	2	132045
87	1991	3	132002
88	1991	4	131884
89	1991	5	131872
90	1991	6	132027
91	1991	7	132194
92	1991	8	132405
93	1991	9	132437
94	1991	10	132656
95	1991	11	132904
96	1991	12	133091
97	1992	1	133234
98	1992	2	133373
99	1992	3	133446
100	1992	4	133464
101	1992	5	133445
102	1992	6	133566
103	1992	7	133827
104	1992	8	133959
105	1992	9	134111

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
106	1992	10	134211
107	1992	11	134592
108	1992	12	134850
109	1993	1	135091
110	1993	2	135218
111	1993	3	135374
112	1993	4	135338
113	1993	5	135216
114	1993	6	135294
115	1993	7	135439
116	1993	8	135778
117	1993	9	136030
118	1993	10	136227
119	1993	11	136537
120	1993	12	136822
121	1994	1	137060
122	1994	2	137115
123	1994	3	136980
124	1994	4	136897
125	1994	5	136933
126	1994	6	137070
127	1994	7	137264
128	1994	8	137444
129	1994	9	137657
130	1994	10	137923
131	1994	11	138233
132	1994	12	138639
133	1995	1	138751
134	1995	2	139081
135	1995	3	139035
136	1995	4	138956
137	1995	5	139003
138	1995	6	139129
139	1995	7	139232
140	1995	8	139483

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
141	1995	9	139721
142	1995	10	139866
143	1995	11	140041
144	1995	12	140410
145	1996	1	140797
146	1996	2	140265
147	1996	3	140887
148	1996	4	140586
149	1996	5	140510
150	1996	6	140617
151	1996	7	140661
152	1996	8	140725
153	1996	9	140996
154	1996	10	141077
155	1996	11	141356
156	1996	12	141651
157	1997	1	141830
158	1997	2	141839
159	1997	3	141572
160	1997	4	141364
161	1997	5	141345
162	1997	6	141476
163	1997	7	141515
164	1997	8	141811
165	1997	9	141920
166	1997	10	141988
167	1997	11	151125
168	1997	12	138582
169	1998	1	142740
170	1998	2	142471
171	1998	3	142614
172	1998	4	142771
173	1998	5	142280
174	1998	6	142257
175	1998	7	142397

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
176	1998	8	142602
177	1998	9	142455
178	1998	10	142643
179	1998	11	142896
180	1998	12	143048
181	1999	1	143197
182	1999	2	143168
183	1999	3	143337
184	1999	4	143195
185	1999	5	142917
186	1999	6	142951
187	1999	7	142955
188	1999	8	143050
189	1999	9	143099
190	1999	10	143243
191	1999	11	143398
192	1999	12	143574
193	2000	1	143869
194	2000	2	143934
195	2000	3	143862
196	2000	4	143461
197	2000	5	143434
198	2000	6	143303
199	2000	7	143298
200	2000	8	143438
201	2000	9	143541
202	2000	10	143672
203	2000	11	143791
204	2000	12	144226
205	2001	1	144223
206	2001	2	144273
207	2001	3	144119
208	2001	4	143978
209	2001	5	143932
210	2001	6	143849

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
211	2001	7	143853
212	2001	8	143911
213	2001	9	144012
214	2001	10	144138
215	2001	11	144214
216	2001	12	144447
217	2002	1	144776
218	2002	2	144635
219	2002	3	144570
220	2002	4	144471
221	2002	5	144097
222	2002	6	144170
223	2002	7	144163
224	2002	8	144235
225	2002	9	144234
226	2002	10	144277
227	2002	11	144470
228	2002	12	144696
229	2003	1	144903
230	2003	2	144848
231	2003	3	144700
232	2003	4	144415
233	2003	5	144250
234	2003	6	144177
235	2003	7	144130
236	2003	8	144290
237	2003	9	144411
238	2003	10	144406
239	2003	11	144466
240	2003	12	144850
241	2004	1	145096
242	2004	2	144846
243	2004	3	144789
244	2004	4	144670
245	2004	5	144359

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
246	2004	6	144117
247	2004	7	144037
248	2004	8	144066
249	2004	9	144081
250	2004	10	144159
251	2004	11	144360
252	2004	12	144623
253	2005	1	144900
254	2005	2	144415
255	2005	3	145259
256	2005	4	144955
257	2005	5	144302
258	2005	6	144342
259	2005	7	144274
260	2005	8	144231
261	2005	9	144191
262	2005	10	144223
263	2005	11	144419
264	2005	12	144641
265	2006	1	144830
266	2006	2	144530
267	2006	3	145013
268	2006	4	144560
269	2006	5	144258
270	2006	6	144120
271	2006	7	144118
272	2006	8	144248
273	2006	9	144269
274	2006	10	144313
275	2006	11	144545
276	2006	12	144554
277	2007	1	144815
278	2007	2	144843
279	2007	3	144494
280	2007	4	144179

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
281	2007	5	143841
282	2007	6	143743
283	2007	7	143666
284	2007	8	143970
285	2007	9	144118
286	2007	10	144087
287	2007	11	144181
288	2007	12	144542
289	2008	1	144825
290	2008	2	144690
291	2008	3	144365
292	2008	4	143988
293	2008	5	143799
294	2008	6	143710
295	2008	7	143789
296	2008	8	143832
297	2008	9	143855
298	2008	10	143884
299	2008	11	.
300	2008	12	.
301	2009	1	.
302	2009	2	.
303	2009	3	.
304	2009	4	.
305	2009	5	.
306	2009	6	.
307	2009	7	.
308	2009	8	.
309	2009	9	.
310	2009	10	.
311	2009	11	.
312	2009	12	.
313	2010	1	.
314	2010	2	.
315	2010	3	.

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
316	2010	4	.
317	2010	5	.
318	2010	6	.
319	2010	7	.
320	2010	8	.
321	2010	9	.
322	2010	10	.
323	2010	11	.
324	2010	12	.
325	2011	1	.
326	2011	2	.
327	2011	3	.
328	2011	4	.
329	2011	5	.
330	2011	6	.
331	2011	7	.
332	2011	8	.
333	2011	9	.
334	2011	10	.
335	2011	11	.
336	2011	12	.
337	2012	1	.
338	2012	2	.
339	2012	3	.
340	2012	4	.
341	2012	5	.
342	2012	6	.
343	2012	7	.
344	2012	8	.
345	2012	9	.
346	2012	10	.
347	2012	11	.
348	2012	12	.
349	2013	1	.
350	2013	2	.

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
351	2013	3	.
352	2013	4	.
353	2013	5	.
354	2013	6	.
355	2013	7	.
356	2013	8	.
357	2013	9	.
358	2013	10	.
359	2013	11	.
360	2013	12	.
361	2014	1	.
362	2014	2	.
363	2014	3	.
364	2014	4	.
365	2014	5	.
366	2014	6	.
367	2014	7	.
368	2014	8	.
369	2014	9	.
370	2014	10	.
371	2014	11	.
372	2014	12	.
373	2015	1	.
374	2015	2	.
375	2015	3	.
376	2015	4	.
377	2015	5	.
378	2015	6	.
379	2015	7	.
380	2015	8	.
381	2015	9	.
382	2015	10	.
383	2015	11	.
384	2015	12	.
385	2016	1	.

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
386	2016	2	.
387	2016	3	.
388	2016	4	.
389	2016	5	.
390	2016	6	.
391	2016	7	.
392	2016	8	.
393	2016	9	.
394	2016	10	.
395	2016	11	.
396	2016	12	.
397	2017	1	.
398	2017	2	.
399	2017	3	.
400	2017	4	.
401	2017	5	.
402	2017	6	.
403	2017	7	.
404	2017	8	.
405	2017	9	.
406	2017	10	.
407	2017	11	.
408	2017	12	.
409	2018	1	.
410	2018	2	.
411	2018	3	.
412	2018	4	.
413	2018	5	.
414	2018	6	.
415	2018	7	.
416	2018	8	.
417	2018	9	.
418	2018	10	.
419	2018	11	.
420	2018	12	.

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
421	2019	1	.
422	2019	2	.
423	2019	3	.
424	2019	4	.
425	2019	5	.
426	2019	6	.
427	2019	7	.
428	2019	8	.
429	2019	9	.
430	2019	10	.
431	2019	11	.
432	2019	12	.
433	2020	1	.
434	2020	2	.
435	2020	3	.
436	2020	4	.
437	2020	5	.
438	2020	6	.
439	2020	7	.
440	2020	8	.
441	2020	9	.
442	2020	10	.
443	2020	11	.
444	2020	12	.
445	2021	1	.
446	2021	2	.
447	2021	3	.
448	2021	4	.
449	2021	5	.
450	2021	6	.
451	2021	7	.
452	2021	8	.
453	2021	9	.
454	2021	10	.
455	2021	11	.

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
456	2021	12	.
457	2022	1	.
458	2022	2	.
459	2022	3	.
460	2022	4	.
461	2022	5	.
462	2022	6	.
463	2022	7	.
464	2022	8	.
465	2022	9	.
466	2022	10	.
467	2022	11	.
468	2022	12	.
469	2023	1	.
470	2023	2	.
471	2023	3	.
472	2023	4	.
473	2023	5	.
474	2023	6	.
475	2023	7	.
476	2023	8	.
477	2023	9	.
478	2023	10	.
479	2023	11	.
480	2023	12	.
481	2024	1	.
482	2024	2	.
483	2024	3	.
484	2024	4	.
485	2024	5	.
486	2024	6	.
487	2024	7	.
488	2024	8	.
489	2024	9	.
490	2024	10	.

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
491	2024	11	.
492	2024	12	.
493	2025	1	.
494	2025	2	.
495	2025	3	.
496	2025	4	.
497	2025	5	.
498	2025	6	.
499	2025	7	.
500	2025	8	.
501	2025	9	.
502	2025	10	.
503	2025	11	.
504	2025	12	.
505	2026	1	.
506	2026	2	.
507	2026	3	.
508	2026	4	.
509	2026	5	.
510	2026	6	.
511	2026	7	.
512	2026	8	.
513	2026	9	.
514	2026	10	.
515	2026	11	.
516	2026	12	.
517	2027	1	.
518	2027	2	.
519	2027	3	.
520	2027	4	.
521	2027	5	.
522	2027	6	.
523	2027	7	.
524	2027	8	.
525	2027	9	.

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
526	2027	10	.
527	2027	11	.
528	2027	12	.
529	2028	1	.
530	2028	2	.
531	2028	3	.
532	2028	4	.
533	2028	5	.
534	2028	6	.
535	2028	7	.
536	2028	8	.
537	2028	9	.
538	2028	10	.
539	2028	11	.
540	2028	12	.
541	2029	1	.
542	2029	2	.
543	2029	3	.
544	2029	4	.
545	2029	5	.
546	2029	6	.
547	2029	7	.
548	2029	8	.
549	2029	9	.
550	2029	10	.
551	2029	11	.
552	2029	12	.
553	2030	1	.
554	2030	2	.
555	2030	3	.
556	2030	4	.
557	2030	5	.
558	2030	6	.
559	2030	7	.
560	2030	8	.

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
561	2030	9	.
562	2030	10	.
563	2030	11	.
564	2030	12	.
565	2031	1	.
566	2031	2	.
567	2031	3	.
568	2031	4	.
569	2031	5	.
570	2031	6	.
571	2031	7	.
572	2031	8	.
573	2031	9	.
574	2031	10	.
575	2031	11	.
576	2031	12	.
577	2032	1	.
578	2032	2	.
579	2032	3	.
580	2032	4	.
581	2032	5	.
582	2032	6	.
583	2032	7	.
584	2032	8	.
585	2032	9	.
586	2032	10	.
587	2032	11	.
588	2032	12	.
589	2033	1	.
590	2033	2	.
591	2033	3	.
592	2033	4	.
593	2033	5	.
594	2033	6	.
595	2033	7	.

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
596	2033	8	.
597	2033	9	.
598	2033	10	.
599	2033	11	.
600	2033	12	.
601	2034	1	.
602	2034	2	.
603	2034	3	.
604	2034	4	.
605	2034	5	.
606	2034	6	.
607	2034	7	.
608	2034	8	.
609	2034	9	.
610	2034	10	.
611	2034	11	.
612	2034	12	.
613	2035	1	.
614	2035	2	.
615	2035	3	.
616	2035	4	.
617	2035	5	.
618	2035	6	.
619	2035	7	.
620	2035	8	.
621	2035	9	.
622	2035	10	.
623	2035	11	.
624	2035	12	.
625	2036	1	.
626	2036	2	.
627	2036	3	.
628	2036	4	.
629	2036	5	.
630	2036	6	.

Kentucky Power Company
 Residential Customers
 Endogenous Variable

Obs	YEAR	MONTH	cr_kpc
631	2036	7	.
632	2036	8	.
633	2036	9	.
634	2036	10	.
635	2036	11	.
636	2036	12	.
637	2037	1	.
638	2037	2	.
639	2037	3	.
640	2037	4	.
641	2037	5	.
642	2037	6	.
643	2037	7	.
644	2037	8	.
645	2037	9	.
646	2037	10	.
647	2037	11	.
648	2037	12	.
649	2038	1	.
650	2038	2	.
651	2038	3	.
652	2038	4	.
653	2038	5	.
654	2038	6	.
655	2038	7	.
656	2038	8	.
657	2038	9	.
658	2038	10	.
659	2038	11	.
660	2038	12	.

Kentucky Power Company
 Residential Customers
 Exogenous Variables

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2011.00
MONTH	MONTH	6.5000000
mfus	Mortgage Interest Rate	7.3638289
L_kpc	Service Area Employment	142.1925305
d1	Binary Variable-January	0.0833333
d2	Binary Variable-February	0.0833333
d3	Binary Variable-March	0.0833333
d4	Binary Variable-April	0.0833333
d5	Binary Variable-May	0.0833333
d6	Binary Variable-June	0.0833333
d7	Binary Variable-July	0.0833333
d8	Binary Variable-August	0.0833333
d9	Binary Variable-September	0.0833333
d10	Binary Variable-October	0.0833333
d11	Binary Variable-November	0.0833333
dnov97	Binary Variable-November 1997	0.0015152
ddec97	Binary Variable-December 1997	0.0015152
djan98	Binary Variable-January 1998	0.0015152
d04on	Binary Variable-2004 On	0.6363636
d1d02on	Binary Variable-January - 2002 On	0.0560606
d2d02on	Binary Variable-February - 2002 On	0.0560606
d3d02on	Binary Variable-March - 2002 On	0.0560606
d4d02on	Binary Variable-April - 2002 On	0.0560606
d5d02on	Binary Variable-May - 2002 On	0.0560606
d6d02on	Binary Variable-June - 2002 On	0.0560606
d7d02on	Binary Variable-July - 2002 On	0.0560606
d8d02on	Binary Variable-August - 2002 On	0.0560606
d9d02on	Binary Variable-September - 2002 On	0.0560606
d10d02on	Binary Variable-October - 2002 On	0.0560606
d11d02on	Binary Variable-November - 2002 On	0.0560606

Kentucky Power Company
Residential Customers
Exogenous Variables

Year	Month	Day	Hour	Minute	Second	Customer ID	Energy (kWh)	Gas (Mcf)	Water (gals)	Temperature (F)	Humidity (%)	Wind (mph)	Solar (hr)	Cloud (%)	Season	Day Type	Holiday	Observation
2005	1	5	7	5	6	67	146.702											
2005	2	5	7	5	6	67	146.702											
2005	3	5	7	5	6	67	146.702											
2005	4	5	7	2	0	00	147.332											
2005	5	5	7	2	0	00	147.332											
2005	6	5	7	2	0	00	147.332											
2005	7	5	7	6	3	33	147.786											
2005	8	5	7	6	3	33	147.786											
2005	9	5	7	6	3	33	147.786											
2005	10	6	2	2	3	33	148.028											
2005	11	6	2	2	3	33	148.028											
2005	12	6	2	2	3	33	148.028											
2006	1	6	2	4	0	00	148.114											
2006	2	6	2	4	0	00	148.114											
2006	3	6	2	4	0	00	148.114											
2006	4	6	5	9	6	67	148.117											
2006	5	6	5	9	6	67	148.117											
2006	6	6	5	9	6	67	148.117											
2006	7	6	5	6	0	00	148.112											
2006	8	6	5	6	0	00	148.112											
2006	9	6	5	6	0	00	148.112											
2006	10	6	2	4	6	67	148.134											
2006	11	6	2	4	6	67	148.134											
2006	12	6	2	4	6	67	148.134											
2007	1	6	2	2	3	33	148.202											
2007	2	6	2	2	3	33	148.202											
2007	3	6	2	2	3	33	148.202											
2007	4	6	3	6	6	67	148.318											

Kentucky Power Company
 Residential Customers
 Exogenous Variables

O	Y	M	L	M	Y	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	
393	2016	9	6.71905	151.634	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
394	2016	10	6.72675	151.604	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
395	2016	11	6.72675	151.604	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
396	2016	12	6.72675	151.604	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
397	2017	1	6.71783	151.574	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
398	2017	2	6.71783	151.574	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
399	2017	3	6.71783	151.574	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
400	2017	4	6.70795	151.543	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
401	2017	5	6.70795	151.543	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
402	2017	6	6.70795	151.543	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
403	2017	7	6.69315	151.509	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
404	2017	8	6.69315	151.509	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
405	2017	9	6.69315	151.509	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
406	2017	10	6.68581	151.469	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
407	2017	11	6.68581	151.469	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
408	2017	12	6.68581	151.469	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
409	2018	1	6.66323	151.423	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
410	2018	2	6.66323	151.423	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
411	2018	3	6.66323	151.423	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
412	2018	4	6.65500	151.371	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
413	2018	5	6.65500	151.371	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
414	2018	6	6.65500	151.371	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
415	2018	7	6.64590	151.307	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
416	2018	8	6.64590	151.307	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
417	2018	9	6.64590	151.307	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
418	2018	10	6.62980	151.239	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
419	2018	11	6.62980	151.239	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
420	2018	12	6.62980	151.239	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

Kentucky Power Company
 Residential Customers
 Exogenous Variables

Y	M	L	O	E	A	R	M	Y	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040		
477	9	149.730	6.52483	149.730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
478	10	149.623	6.52113	149.623	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
479	11	149.623	6.52113	149.623	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
480	12	149.623	6.52113	149.623	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
481	1	149.514	6.52035	149.514	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
482	2	149.514	6.52035	149.514	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
483	3	149.514	6.52035	149.514	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
484	4	149.407	6.51988	149.407	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
485	5	149.407	6.51988	149.407	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
486	6	149.407	6.51988	149.407	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
487	7	149.308	6.51905	149.308	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
488	8	149.308	6.51905	149.308	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
489	9	149.308	6.51905	149.308	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
490	10	149.216	6.51878	149.216	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
491	11	149.216	6.51878	149.216	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
492	12	149.216	6.51878	149.216	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
493	1	149.125	6.51893	149.125	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
494	2	149.125	6.51893	149.125	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
495	3	149.125	6.51893	149.125	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
496	4	149.042	6.51320	149.042	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
497	5	149.042	6.51320	149.042	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
498	6	149.042	6.51320	149.042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
499	7	148.953	6.51065	148.953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
500	8	148.953	6.51065	148.953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
501	9	148.953	6.51065	148.953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
502	10	148.861	6.51094	148.861	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
503	11	148.861	6.51094	148.861	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
504	12	148.861	6.51094	148.861	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Kentucky Power Company
 Residential Customers
 Exogenous Variables

Y	M	O	L	M	U	S	Y	M	O	L	M	U	S	Y	M	O	L	M	U	S	Y	M	O	L	M	U	S
505	2026	1	6.51101	148.768	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
506	2026	2	6.51101	148.768	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
507	2026	3	6.51101	148.768	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
508	2026	4	6.51101	148.672	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
509	2026	5	6.51101	148.672	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
510	2026	6	6.51101	148.672	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
511	2026	7	6.51076	148.569	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
512	2026	8	6.51076	148.569	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
513	2026	9	6.51076	148.569	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
514	2026	10	6.50991	148.468	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
515	2026	11	6.50991	148.468	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
516	2026	12	6.50991	148.468	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
517	2027	1	6.50932	148.364	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
518	2027	2	6.50932	148.364	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
519	2027	3	6.50932	148.364	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
520	2027	4	6.50906	148.253	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
521	2027	5	6.50906	148.253	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
522	2027	6	6.50906	148.253	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
523	2027	7	6.50863	148.147	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
524	2027	8	6.50863	148.147	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
525	2027	9	6.50863	148.147	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
526	2027	10	6.50779	148.035	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
527	2027	11	6.50779	148.035	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
528	2027	12	6.50779	148.035	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
529	2028	1	6.50728	147.931	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
530	2028	2	6.50728	147.931	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
531	2028	3	6.50728	147.931	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
532	2028	4	6.50673	147.830	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Kentucky Power Company
Residential Customers
Exogenous Variables

OS	Y	M	Y	L	M	Y	L	M	Y	L	M	Y	L	M	Y	L	M	Y	L	M	Y	L	M	Y	L	M	Y	L	M
589	2033	1	6.47709	145.872	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
590	2033	2	6.47709	145.872	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
591	2033	3	6.47709	145.872	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
592	2033	4	6.46630	145.765	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
593	2033	5	6.46630	145.765	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
594	2033	6	6.46630	145.765	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
595	2033	7	6.46141	145.663	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
596	2033	8	6.46141	145.663	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
597	2033	9	6.46141	145.663	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
598	2033	10	6.45883	145.571	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
599	2033	11	6.45883	145.571	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
600	2033	12	6.45883	145.571	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
601	2034	1	6.45439	145.496	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
602	2034	2	6.45439	145.496	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
603	2034	3	6.45439	145.496	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
604	2034	4	6.45019	145.439	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
605	2034	5	6.45019	145.439	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
606	2034	6	6.45019	145.439	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
607	2034	7	6.44584	145.407	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
608	2034	8	6.44584	145.407	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
609	2034	9	6.44584	145.407	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610	2034	10	6.44151	145.402	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
611	2034	11	6.44151	145.402	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
612	2034	12	6.44151	145.402	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
613	2035	1	6.43719	145.416	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
614	2035	2	6.43719	145.416	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
615	2035	3	6.43719	145.416	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
616	2035	4	6.43290	145.448	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Kentucky Power Company
 Residential Customers
 Model Estimation

The SYSLIN Procedure
 Ordinary Least Squares Estimation

Model cr_kpc
 Dependent Variable cr_kpc
 Label Residential Customers

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	29	1.356E10	4.6758E8	24503.4	<.0001
Error	267	5094945	19082.19		
Corrected Total	296	1.356E10			

Root MSE 138.13831 R-Square 0.99962
 Dependent Mean 137795.401 Adj R-Sq 0.99958
 Coeff Var 0.10025

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variable Label
Intercept	1	1603.153	507.8840	3.16	0.0018	Intercept
cr1	1	0.982614	0.006035	162.82	<.0001	Residential Customers, Lagged
mfus	1	-13.0767	9.553457	-1.37	0.1722	Mortgage Interest Rate
L_kpc	1	8.868594	3.804741	2.33	0.0205	Service Area Employment
d1	1	-89.4716	45.50501	-1.97	0.0503	Binary Variable-January

Kentucky Power Company
Residential Customers
Model Estimation

The SYSLIN Procedure
Ordinary Least Squares Estimation

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variable Label
d2	1	-243.065	44.17243	-5.50	<.0001	Binary
d3	1	-305.080	44.18894	-6.90	<.0001	Variable-February
d4	1	-431.000	44.10466	-9.77	<.0001	Binary
d5	1	-352.968	44.06867	-8.01	<.0001	Variable-March
d6	1	-273.923	44.05834	-6.22	<.0001	Binary
d7	1	-203.260	43.99800	-4.62	<.0001	Variable-April
d8	1	-125.874	43.98834	-2.86	0.0045	Binary
d9	1	-171.502	43.98681	-3.90	0.0001	Variable-August
d10	1	-136.566	43.93537	-3.11	0.0021	Binary
d11	1	-79.3429	44.66857	-1.78	0.0768	Variable-September
d1d02on	1	75.67815	67.96292	1.11	0.2665	Binary
d2d02on	1	-213.420	67.09605	-3.18	0.0016	Variable-October
d3d02on	1	91.12806	67.15366	1.36	0.1759	Binary
d4d02on	1	-115.274	67.06355	-1.72	0.0868	Variable-November

Kentucky Power Company
Residential Customers
Model Estimation

The SYSLIN Procedure
Ordinary Least Squares Estimation

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variable Label
d5d02on	1	-252.440	67.08977	-3.76	0.0002	Binary Variable-May - 2002 On
d6d02on	1	-79.4203	67.17145	-1.18	0.2381	Binary Variable-June - 2002 On
d7d02on	1	-105.697	66.99795	-1.58	0.1158	Binary Variable-July - 2002 On
d8d02on	1	-55.4423	67.03316	-0.83	0.4089	Binary Variable-August - 2002 On
d9d02on	1	-66.3740	67.05538	-0.99	0.3231	Binary Variable-September - 2002 On
d10d02on	1	-116.802	66.93324	-1.75	0.0821	Binary Variable-October - 2002 On
d11d02on	1	-37.9642	70.30249	-0.54	0.5896	Binary Variable-November - 2002 On
dnov97	1	8948.889	142.6862	62.72	<.0001	Binary Variable-November 1997
ddec97	1	-12651.6	154.8685	-81.69	<.0001	Binary Variable-December 1997
djan98	1	3909.499	143.7757	27.19	<.0001	Binary Variable-January 1998
d04on	1	-57.2611	33.40802	-1.71	0.0877	Binary Variable-2004 On

Kentucky Power Company
Residential Customers
Model Estimation

The SYSLIN Procedure
Ordinary Least Squares Estimation

Durbin-Watson	2.437874
Number of Observations	297
First-Order Autocorrelation	-0.21993

Kentucky Power Company
 Residential Customers
 Model Residuals

time	Residual Values	Sum
1984.0833333	*****	100.7474
1984.1666667	**	-42.8301
1984.2500000	***	-69.6555
1984.3333333	*****	98.6881
1984.4166667	*****	-310.6180
1984.5000000	***	-55.0113
1984.5833333	*****	100.5331
1984.6666667	*****	221.1424
1984.7500000	*	24.4222
1984.8333333	*	27.8421
1984.9166667	*****	92.1502
1985.0000000	*	11.9085
1985.0833333	*****	194.7013
1985.1666667	*****	-368.6334
1985.2500000	*****	-80.8411
1985.3333333	*	23.8154
1985.4166667	*	-21.2904
1985.5000000	*****	-71.7752
1985.5833333	**	-49.1786
1985.6666667	*****	135.1705
1985.7500000	*****	75.6943
1985.8333333	***	-56.9121
1985.9166667	*****	176.9878
1986.0000000	**	42.0923
1986.0833333	*****	200.4937
1986.1666667	*****	-181.6671
1986.2500000	*****	-182.8756
1986.3333333	*****	-163.9924
1986.4166667	***	-51.3321
1986.5000000	*	-19.8511
1986.5833333	*	-29.3330
1986.6666667	*	-23.6362
1986.7500000	*****	-215.9833
1986.8333333	**	-35.4579

Kentucky Power Company
 Residential Customers
 Model Residuals

1986.9166667	**	49.1027
1987.0000000	***	89.8833
1987.0833333	*	29.4322
1987.1666667	*****	-149.4061
1987.2500000	**	-44.5665
1987.3333333	*****	126.8376
1987.4166667	*****	-172.3731
1987.5000000		-7.8158
1987.5833333	***	-52.0195
1987.6666667	*****	-105.6530
1987.7500000	**	-39.8274
1987.8333333	*	21.6884
1987.9166667	**	34.1183
1988.0000000	*	26.1885
1988.0833333	**	-39.4449
1988.1666667	**	-48.5350
1988.2500000		1.8886
1988.3333333	***	76.2316
1988.4166667	**	45.2559
1988.5000000	*****	150.1347
1988.5833333	*	-26.2698
1988.6666667	*****	-126.4513
1988.7500000	*****	156.1270
1988.8333333	*****	-108.8452
1988.9166667	*	20.3593
1989.0000000		-6.2595
1989.0833333	*	27.3942
1989.1666667	***	82.3299
1989.2500000	*	28.3379
1989.3333333	*	20.1503
1989.4166667	*	-11.7990
1989.5000000	*	-16.1563
1989.5833333	**	-46.0471
1989.6666667	*****	-127.1243
1989.7500000	*	-22.8351
1989.8333333	*	17.7760
1989.9166667	**	-33.0813

Kentucky Power Company
 Residential Customers
 Model Residuals

1990.0000000	*****	-138.0272
1990.0833333	***	-59.7469
1990.1666667		8.6150
1990.2500000	**	47.2861
1990.3333333	***	72.3851
1990.4166667		4.2787
1990.5000000	*****	-115.6672
1990.5833333	***	-76.6359
1990.6666667	***	-90.5740
1990.7500000	***	32.7177
1990.8333333	***	-84.3846
1990.9166667	***	-96.7197
1991.0000000	**	-34.3945
1991.0833333	***	-56.1843
1991.1666667	***	-65.6659
1991.2500000	*	-11.7919
1991.3333333		14.1248
1991.4166667	*****	101.8709
1991.5000000	**	42.1640
1991.5833333	*	11.6815
1991.6666667	*****	-118.0222
1991.7500000	*	21.8980
1991.8333333		-2.5172
1991.9166667	*****	-138.5483
1992.0000000	***	-96.6411
1992.0833333	***	55.4390
1992.1666667	***	53.8699
1992.2500000	*****	119.1231
1992.3333333		4.4043
1992.4166667	***	65.0287
1992.5000000	*****	124.2570
1992.5833333	***	-77.5912
1992.6666667	***	-9.6684
1992.7500000	***	-91.5310
1992.8333333	*****	133.9848
1992.9166667	***	-61.7340
1993.0000000	*	10.3655

Kentucky Power Company
Residential Customers
Model Residuals

1993.0833333	**	54.1494
1993.1666667	*****	147.3716
1993.2500000	***	81.4323
1993.3333333	****	-83.2253
1993.4166667	**	35.6083
1993.5000000	*	27.0179
1993.5833333	*****	146.1528
1993.6666667	*****	110.6746
1993.7500000	*	20.5313
1993.8333333	****	79.7336
1993.9166667	*	-19.2196
1994.0000000	*	25.2070
1994.0833333		-0.0612
1994.1666667	*****	-127.0908
1994.2500000	***	56.2686
1994.3333333	*****	95.7938
1994.4166667	*****	118.3744
1994.5000000	*****	101.8806
1994.5833333	*	13.8675
1994.6666667	*****	95.6249
1994.7500000	*****	117.7639
1994.8333333	*****	109.1659
1994.9166667	*****	131.2127
1995.0000000	****	-74.9365
1995.0833333	*****	298.6045
1995.1666667		-9.6438
1995.2500000	***	68.1011
1995.3333333	*****	114.6959
1995.4166667	*****	115.4678
1995.5000000	*	19.9092
1995.5833333	*****	92.3140
1995.6666667	*****	129.3058
1995.7500000		1.9863
1995.8333333	*	-22.7155
1995.9166667	*****	94.9842
1996.0000000	*****	209.3928
1996.0833333	*****	-549.2849

Kentucky Power Company
 Residential Customers
 Model Residuals

1996.1666667	*****	*****	657.4798
1996.2500000	*	*	-115.8550
1996.3333333		*	25.8800
1996.4166667		*****	128.5134
1996.5000000			-2.2730
1996.5833333	**		-58.8940
1996.6666667		*****	194.8466
1996.7500000	**		-32.9835
1996.8333333		*****	109.2020
1996.9166667		**	50.7098
1997.0000000		*	26.5261
1997.0833333		*	13.2320
1997.1666667	*****		-200.5973
1997.2500000	*		-24.4819
1997.3333333		****	82.8701
1997.4166667		*****	153.4945
1997.5000000		*	-20.9519
1997.5833333		*****	159.3402
1997.6666667		*	23.1144
1997.7500000	***		-64.0707
1997.8333333			0.0000
1997.9166667			0.0000
1998.0000000			0.0000
1998.0833333	*****		-291.6152
1998.1666667		*****	177.7221
1998.2500000		*****	312.8741
1998.3333333	*****		-410.4279
1998.4166667	**		-30.0099
1998.5000000		**	54.2406
1998.5833333		**	44.2887
1998.6666667	*****		-258.5193
1998.7500000		**	36.2699
1998.8333333		**	47.3157
1998.9166667	*****		-128.6285
1999.0000000	**		-37.5500
1999.0833333	***		-59.3657
1999.1666667	*****		200.1443

Kentucky Power Company
 Residential Customers
 Model Residuals

1999.2500000	*	23.4707
1999.3333333	*****	-193.0298
1999.4166667	**	35.0915
1999.5000000	***	-56.5217
1999.5833333	**	-42.8382
1999.6666667	**	-41.5586
1999.7500000	*	19.2364
1999.8333333	*	-24.4828
1999.9166667	****	-80.1309
2000.0000000	*****	134.9741
2000.0833333	**	63.6969
2000.1666667	*	-10.1588
2000.2500000	*****	-217.0515
2000.3333333	***	71.9449
2000.4166667	*****	-111.5698
2000.5000000	***	-67.2138
2000.5833333		0.3133
2000.6666667	*	11.3752
2000.7500000		-4.9141
2000.8333333	****	-71.8593
2000.9166667	*****	166.8667
2001.0000000	*****	-188.7293
2001.0833333	*	17.8124
2001.1666667	*****	-123.3041
2001.2500000		8.3365
2001.3333333	*	22.8533
2001.4166667	*****	-93.9917
2001.5000000	***	-86.3669
2001.5833333	*****	-109.6834
2001.6666667	*	-20.0471
2001.7500000	**	-34.5018
2001.8333333	*****	-139.5340
2001.9166667	***	-60.5555
2002.0000000	**	53.2708
2002.0833333	**	31.6829
2002.1666667	*****	-137.3025
2002.2500000	*****	156.5863

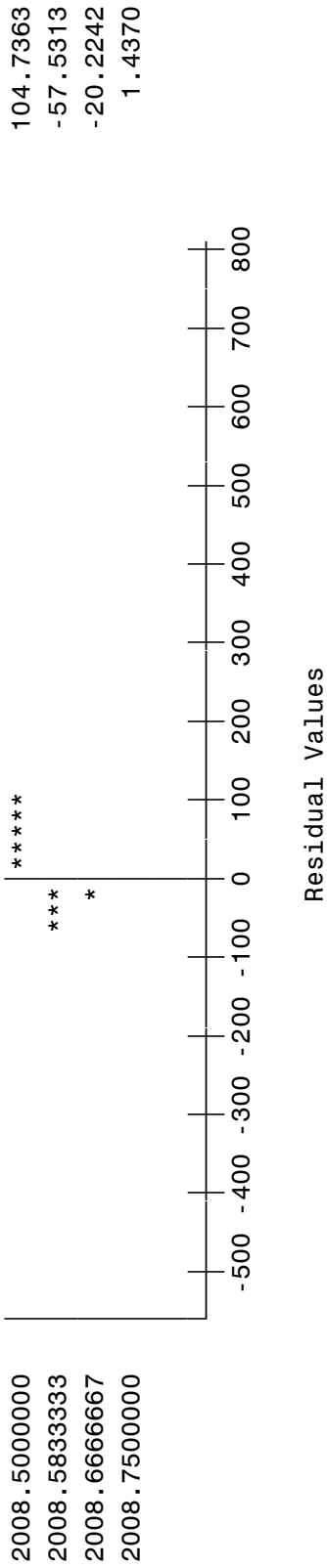
Kentucky Power Company
 Residential Customers
 Model Residuals

2002.3333333	***	*****	-61.0010
2002.4166667	***	*****	127.4316
2002.5000000	***		-2.6684
2002.5833333	***		-51.4313
2002.6666667	***		-66.6199
2002.7500000	***		-9.0816
2002.8333333	***		5.6056
2002.9166667	***		-75.3460
2003.0000000	***		-78.3534
2003.0833333	***	*****	105.9375
2003.1666667	*****	*****	-230.5526
2003.2500000	**	*****	-40.4031
2003.3333333	*	*****	133.7759
2003.4166667	*		-29.1579
2003.5000000	**		-40.6555
2003.5833333	**	**	37.8862
2003.6666667	**	**	58.2275
2003.7500000	***		-50.3822
2003.8333333	*****		-121.5295
2003.9166667	***	***	86.2065
2004.0000000	*	*	21.6160
2004.0833333	*		-27.4150
2004.1666667	***		-81.2954
2004.2500000	*****	*****	193.2733
2004.3333333	**	**	58.3383
2004.4166667	*****		-130.1338
2004.5000000	*		-23.6004
2004.5833333	**		-43.6325
2004.6666667			-0.5688
2004.7500000		***	70.5577
2004.8333333		**	58.8534
2004.9166667		**	7.0409
2005.0000000		**	33.5928
2005.0833333	*****	*****	-280.8992
2005.1666667	*****	*****	797.1346
2005.2500000	*****	*****	-9.9352
2005.3333333	*****	*****	-305.0866

Kentucky Power Company
 Residential Customers
 Model Residuals

2005.4166667	*****	124.4951
2005.5000000	**	-30.6554
2005.5833333	*****	-134.4788
2005.6666667	*****	-75.6669
2005.7500000	*	14.9987
2005.8333333	**	43.4947
2005.9166667	**	-44.4048
2006.0000000	***	-60.2963
2006.0833333	*****	-103.3183
2006.1666667	*****	431.9319
2006.2500000	*****	-158.7101
2006.3333333	**	43.5480
2006.4166667	**	-49.7677
2006.5000000	**	39.0115
2006.5833333	**	43.3356
2006.6666667	*	-6.8447
2006.7500000	*****	27.7199
2006.8333333	*****	80.4246
2006.9166667	*****	-255.8490
2007.0000000	*****	9.1927
2007.0833333	*****	223.4225
2007.1666667	*****	-395.6246
2007.2500000	**	-34.5238
2007.3333333	*	-3.8664
2007.4166667	**	-21.8080
2007.5000000	*****	-46.1681
2007.5833333	*****	205.8520
2007.6666667	*****	111.6970
2007.7500000	***	-55.2494
2007.8333333	***	-66.8488
2007.9166667	***	84.4784
2008.0000000	*	20.9773
2008.0833333	***	50.5896
2008.1666667	*****	-384.2914
2008.2500000	*****	-106.2875
2008.3333333	*****	134.2919
2008.4166667	*	-21.0592

Kentucky Power Company
Residential Customers
Model Residuals



The SIMLIN Procedure

Inverse Coefficient Matrix for Endogenous Variables

Variable cr_kpc
 cr_kpc 1.0000

Reduced Form for Lagged Endogenous Variables

Variable cr1
 cr_kpc 0.9826

Reduced Form for Exogenous Variables

Variable	mfus	L_kpc	d1	d2	d3	d4	d5	d6	d7	d8
cr_kpc	-13.0767	8.8686	-89.4716	-243.0654	-305.0796	-431.0001	-352.9685	-273.9232	-203.2598	-125.8738

Reduced Form for Exogenous Variables

Variable	d9	d10	d11	d1d02on	d2d02on	d3d02on	d4d02on	d5d02on	d6d02on	d7d02on
cr_kpc	-171.5016	-136.5657	-79.3429	75.6782	-213.4200	91.1281	-115.2744	-252.4401	-79.4203	-105.6974

Reduced Form for Exogenous Variables

Variable	d8d02on	d9d02on	d10d02on	d11d02on	dhov97	ddec97	djan98	d04on	Interest
cr_kpc	-55.4423	-66.3740	-116.8018	-37.9642	8949	-12652	3909	-57.2611	1803

Kentucky Power Company
 Residential Customers
 Model Simulation

The SIMLIN Procedure

Fit Statistics

Variable	N	Mean Error	Mean Pct Error	Mean Abs Error	Mean Abs Pct Error	RMS Error	RMS Pct Error	Label
cr_kpc	297	57.3585	0.0337	525.8377	0.37988	685.3914	0.4914	Residential Customers

Kentucky Power Company
 Residential Customers
 Actual and Forecast

YEAR	Residential Customers	Growth Rate
1984	126300.08	.
1985	127027.08	0.6
1986	127675.17	0.5
1987	128135.08	0.4
1988	128972.75	0.7
1989	130028.33	0.8
1990	131085.00	0.8
1991	132294.42	0.9
1992	133839.83	1.2
1993	135697.00	1.4
1994	137434.58	1.3
1995	139392.33	1.4
1996	140844.00	1.0
1997	142197.25	1.0
1998	142597.83	0.3
1999	143173.67	0.4
2000	143652.42	0.3
2001	144079.08	0.3
2002	144399.50	0.2
2003	144487.17	0.1
2004	144433.58	0.0
2005	144512.67	0.1
2006	144446.50	0.0
2007	144206.58	-0.2
2008	144141.34	0.0
2009	144233.31	0.1
2010	143884.19	-0.2
2011	143742.65	-0.1
2012	143907.09	0.1
2013	144179.37	0.2
2014	144431.33	0.2
2015	144634.22	0.1
2016	144791.57	0.1
2017	144911.61	0.1

Kentucky Power Company
 Residential Customers
 Actual and Forecast

YEAR	Residential Customers	Growth Rate
2018	145000.14	0.1
2019	145054.36	0.0
2020	145076.54	0.0
2021	145070.79	0.0
2022	145036.05	0.0
2023	144976.97	0.0
2024	144892.25	-0.1
2025	144786.49	-0.1
2026	144666.32	-0.1
2027	144530.33	-0.1
2028	144379.33	-0.1
2029	144219.52	-0.1
2030	144057.53	-0.1
2031	143888.61	-0.1
2032	143707.64	-0.1
2033	143518.50	-0.1
2034	143332.31	-0.1
2035	143173.85	-0.1
2036	143064.23	-0.1
2037	143005.53	0.0
2038	142989.82	0.0

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
1990	1	1,531,103.55	151.16	0.00	749.59	1.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	2	1,036,048.16	58.20	0.00	662.05	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1990	3	1,066,709.46	58.29	15.14	643.82	0.00	0.00	1.00	0.00	0.00	0.00	0.00
1990	4	938,555.52	41.18	19.83	648.35	0.00	0.00	0.00	1.00	0.00	0.00	0.00
1990	5	864,047.99	11.90	42.97	630.47	0.00	0.00	0.00	0.00	1.00	0.00	0.00
1990	6	944,240.33	0.36	105.50	643.71	0.00	0.00	0.00	0.00	0.00	1.00	0.00
1990	7	1,218,721.12	0.00	285.82	626.37	0.00	0.00	0.00	0.00	0.00	0.00	1.00
1990	8	1,095,702.72	0.00	283.88	604.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	9	952,790.84	0.10	285.79	632.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	10	916,695.84	2.51	84.15	634.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	11	1,167,749.73	24.68	9.86	644.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	12	1,372,018.39	47.99	8.31	723.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	1	1,653,367.77	91.25	0.00	755.57	1.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	2	1,380,287.02	98.33	0.00	667.30	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1991	3	1,333,638.88	74.45	3.18	649.08	0.00	0.00	1.00	0.00	0.00	0.00	0.00
1991	4	981,089.44	34.29	25.07	654.46	0.00	0.00	0.00	1.00	0.00	0.00	0.00
1991	5	1,006,513.89	6.58	76.30	636.54	0.00	0.00	0.00	0.00	1.00	0.00	0.00
1991	6	1,039,575.24	0.00	290.38	649.65	0.00	0.00	0.00	0.00	0.00	1.00	0.00
1991	7	1,264,845.61	0.00	380.49	632.83	0.00	0.00	0.00	0.00	0.00	0.00	1.00
1991	8	1,181,647.22	0.00	375.95	610.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	9	924,892.59	0.00	327.85	639.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	10	911,899.95	5.93	119.17	641.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	11	1,148,934.57	34.41	35.89	651.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	12	1,512,378.75	69.08	3.82	732.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	1	1,633,224.25	106.70	0.00	765.40	1.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	2	1,393,872.82	111.23	0.00	675.79	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1992	3	1,277,190.77	60.97	0.69	657.12	0.00	0.00	1.00	0.00	0.00	0.00	0.00
1992	4	1,050,852.66	62.17	11.69	662.24	0.00	0.00	0.00	1.00	0.00	0.00	0.00
1992	5	875,731.57	15.22	52.78	644.23	0.00	0.00	0.00	0.00	1.00	0.00	0.00
1992	6	845,207.61	2.28	86.82	657.55	0.00	0.00	0.00	0.00	0.00	1.00	0.00
1992	7	1,249,874.84	0.01	231.64	639.63	0.00	0.00	0.00	0.00	0.00	0.00	1.00
1992	8	1,098,373.38	0.00	263.28	617.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	9	947,461.43	0.00	208.30	646.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	10	959,243.28	4.14	65.58	647.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	11	1,129,628.80	25.83	3.01	657.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	12	1,630,166.85	82.99	0.00	738.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
1993	1	1,549,207.57	105.68	0.00	769.82	1.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	2	1,528,509.52	101.59	0.00	679.85	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1993	3	1,524,051.89	120.61	0.00	661.03	0.00	0.00	1.00	0.00	0.00	0.00	0.00
1993	4	1,029,991.58	56.27	0.80	665.46	0.00	0.00	0.00	1.00	0.00	0.00	0.00
1993	5	782,562.71	10.68	42.86	647.70	0.00	0.00	0.00	0.00	1.00	0.00	0.00
1993	6	1,027,776.55	1.04	109.77	661.30	0.00	0.00	0.00	0.00	0.00	1.00	0.00
1993	7	1,479,529.53	0.00	351.71	643.48	0.00	0.00	0.00	0.00	0.00	0.00	1.00
1993	8	1,212,191.96	0.00	359.36	620.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	9	858,663.53	0.00	328.55	649.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	10	807,035.32	4.84	58.82	651.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	11	1,195,815.05	34.37	8.60	660.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	12	1,535,008.99	67.73	4.36	742.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	1	2,014,657.81	173.94	0.00	774.78	1.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	2	1,549,662.69	166.06	0.00	684.45	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1994	3	1,391,874.73	92.71	0.10	666.31	0.00	0.00	1.00	0.00	0.00	0.00	0.00
1994	4	974,338.37	50.03	6.42	671.73	0.00	0.00	0.00	1.00	0.00	0.00	0.00
1994	5	840,995.23	6.53	46.91	653.48	0.00	0.00	0.00	0.00	1.00	0.00	0.00
1994	6	1,093,105.71	0.86	137.85	666.97	0.00	0.00	0.00	0.00	0.00	1.00	0.00
1994	7	1,301,921.84	0.00	382.11	648.83	0.00	0.00	0.00	0.00	0.00	0.00	1.00
1994	8	1,136,390.09	0.00	302.80	625.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	9	817,764.44	0.00	181.43	655.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	10	931,766.28	2.10	43.58	657.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	11	1,147,880.75	15.56	4.45	666.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	12	1,533,024.62	58.44	1.96	748.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	1	1,844,397.52	125.63	0.00	780.58	1.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	2	1,596,350.33	150.80	0.00	688.83	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1995	3	1,254,741.61	101.70	0.00	670.40	0.00	0.00	1.00	0.00	0.00	0.00	0.00
1995	4	968,155.39	38.60	6.57	675.12	0.00	0.00	0.00	1.00	0.00	0.00	0.00
1995	5	905,534.41	13.71	26.45	656.78	0.00	0.00	0.00	0.00	1.00	0.00	0.00
1995	6	960,439.59	0.91	123.72	670.44	0.00	0.00	0.00	0.00	0.00	1.00	0.00
1995	7	1,379,927.03	0.00	289.31	652.20	0.00	0.00	0.00	0.00	0.00	0.00	1.00
1995	8	1,533,806.99	0.00	433.69	628.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	9	915,975.41	0.11	354.18	658.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	10	895,857.46	2.90	64.29	660.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	11	1,498,882.47	43.19	5.89	670.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	12	1,967,901.15	116.03	0.44	752.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
1996	1	2,076,798.62	188.45	0.00	783.75	1.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	2	1,961,229.68	167.83	0.00	694.07	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1996	3	1,540,773.59	113.83	0.00	673.68	0.00	0.00	1.00	0.00	0.00	0.00	0.00
1996	4	1,352,304.48	80.80	7.56	679.11	0.00	0.00	0.00	1.00	0.00	0.00	0.00
1996	5	960,242.18	17.56	75.09	661.05	0.00	0.00	0.00	0.00	1.00	0.00	0.00
1996	6	988,971.15	2.51	167.80	674.84	0.00	0.00	0.00	0.00	0.00	1.00	0.00
1996	7	1,190,706.25	0.00	317.77	656.87	0.00	0.00	0.00	0.00	0.00	0.00	1.00
1996	8	1,142,380.69	0.00	280.71	633.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	9	1,112,761.65	0.00	251.85	663.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	10	879,169.43	5.36	45.15	666.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	11	1,080,485.23	43.17	6.32	675.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	12	1,639,880.27	118.91	1.65	759.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	1	1,872,862.11	135.62	0.88	792.32	1.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	2	1,697,515.46	146.49	0.65	700.17	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1997	3	1,310,969.53	79.69	2.75	682.14	0.00	0.00	1.00	0.00	0.00	0.00	0.00
1997	4	1,181,396.42	52.47	6.47	688.51	0.00	0.00	0.00	1.00	0.00	0.00	0.00
1997	5	971,922.64	23.95	7.38	670.09	0.00	0.00	0.00	0.00	1.00	0.00	0.00
1997	6	898,196.54	3.76	56.53	683.99	0.00	0.00	0.00	0.00	0.00	1.00	0.00
1997	7	1,173,407.88	0.00	262.84	666.12	0.00	0.00	0.00	0.00	0.00	0.00	1.00
1997	8	1,213,288.24	0.00	311.01	642.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	9	1,055,187.09	0.00	174.93	673.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	10	861,173.07	3.85	53.81	675.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	11	1,110,993.06	51.84	15.09	662.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	12	1,748,100.83	113.74	0.00	782.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	1	1,816,033.32	125.27	0.00	803.44	1.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	2	1,553,672.26	118.73	0.00	710.77	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1998	3	1,393,328.82	93.85	0.03	691.35	0.00	0.00	1.00	0.00	0.00	0.00	0.00
1998	4	1,159,163.82	56.35	44.56	696.09	0.00	0.00	0.00	1.00	0.00	0.00	0.00
1998	5	927,021.09	8.36	24.74	678.70	0.00	0.00	0.00	0.00	1.00	0.00	0.00
1998	6	1,003,710.30	0.19	147.80	693.16	0.00	0.00	0.00	0.00	0.00	1.00	0.00
1998	7	1,243,692.58	0.08	312.95	673.90	0.00	0.00	0.00	0.00	0.00	0.00	1.00
1998	8	1,250,202.54	0.00	310.33	649.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	9	1,219,361.56	0.00	312.38	682.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	10	994,519.24	1.56	187.17	683.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	11	1,079,235.98	31.18	13.69	693.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	12	1,459,519.91	65.66	3.19	779.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
1999	1	1,996,281.05	173.25	1.40	812.12	1.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	2	1,466,155.15	108.01	0.00	717.71	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1999	3	1,560,206.99	127.28	0.00	698.05	0.00	0.00	1.00	0.00	0.00	0.00	0.00
1999	4	1,223,541.45	67.77	10.14	703.05	0.00	0.00	0.00	1.00	0.00	0.00	0.00
1999	5	866,545.20	8.11	34.10	684.83	0.00	0.00	0.00	0.00	1.00	0.00	0.00
1999	6	977,527.86	0.00	164.93	699.16	0.00	0.00	0.00	0.00	0.00	1.00	0.00
1999	7	1,267,808.37	0.00	378.92	680.06	0.00	0.00	0.00	0.00	0.00	0.00	1.00
1999	8	1,387,451.37	0.00	452.09	656.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	9	1,126,778.70	0.03	238.68	688.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	10	900,664.95	3.67	48.57	689.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	11	1,048,740.56	30.38	2.69	699.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	12	1,501,399.04	81.66	0.00	786.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	1	1,922,441.10	154.20	0.00	819.26	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	2	1,921,954.65	182.65	0.00	723.79	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2000	3	1,315,910.19	70.04	2.12	704.61	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2000	4	1,075,373.01	39.84	5.07	710.95	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2000	5	998,023.79	14.74	54.81	691.88	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2000	6	1,048,146.69	0.03	159.24	706.72	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2000	7	1,220,915.63	0.00	287.13	687.46	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2000	8	1,185,966.96	0.00	242.19	662.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	9	1,146,883.66	0.17	218.04	695.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	10	981,004.26	9.32	73.72	696.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	11	1,034,520.18	31.72	10.15	707.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	12	1,842,378.62	154.02	0.00	793.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	1	2,442,094.26	238.52	0.00	827.07	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	2	1,814,615.61	165.15	0.00	730.91	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2001	3	1,520,046.06	114.05	0.00	711.91	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2001	4	1,325,045.26	80.52	40.93	717.51	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2001	5	979,761.38	12.23	90.45	698.40	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2001	6	977,736.68	0.75	101.04	713.43	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2001	7	1,193,277.62	0.00	249.04	694.54	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2001	8	1,290,724.57	0.00	348.91	669.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	9	1,220,538.37	0.04	281.20	702.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	10	976,700.74	7.18	67.35	704.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	11	1,151,266.08	34.38	19.76	715.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	12	1,414,092.32	49.10	0.69	803.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
2002	1	2,073,169.68	171.54	0.00	840.91	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	2	1,672,431.98	126.53	0.00	743.59	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2002	3	1,604,873.50	111.01	1.23	724.05	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2002	4	1,295,819.83	61.11	19.27	729.85	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2002	5	946,106.02	16.12	54.47	711.39	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2002	6	1,103,276.44	9.65	148.72	726.31	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2002	7	1,356,212.00	0.00	336.98	706.59	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2002	8	1,425,290.54	0.00	411.49	681.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	9	1,301,868.52	0.00	376.76	715.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	10	1,006,367.08	3.49	148.99	716.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	11	1,119,831.95	42.58	14.68	727.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	12	1,840,687.07	139.88	2.13	816.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	1	2,194,397.73	172.38	0.00	850.19	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	2	2,098,001.26	215.36	0.00	751.55	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2003	3	1,707,984.85	143.35	0.00	732.06	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2003	4	1,143,625.00	39.02	16.50	738.64	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2003	5	934,722.03	8.37	40.76	719.35	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2003	6	947,952.59	0.00	57.65	734.78	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2003	7	1,211,800.50	0.00	240.31	715.90	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2003	8	1,243,866.91	0.00	272.77	683.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	9	1,260,932.39	0.00	274.00	727.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	10	967,079.43	9.80	38.95	726.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	11	1,060,485.72	26.72	9.05	732.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	12	1,727,644.43	102.99	1.13	822.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	1	2,228,905.32	173.01	0.92	859.85	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	2	2,116,278.74	199.10	0.27	759.58	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2004	3	1,593,277.53	114.10	2.44	740.26	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2004	4	1,292,407.89	65.93	14.13	758.50	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2004	5	1,010,218.99	15.84	76.26	724.16	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2004	6	1,153,825.21	1.15	220.04	748.11	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2004	7	1,290,174.06	0.00	277.37	725.76	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2004	8	1,207,890.21	0.00	261.53	695.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	9	1,160,797.78	0.00	235.17	722.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	10	977,278.14	2.71	69.45	735.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	11	1,000,907.94	17.16	13.60	739.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	12	1,636,977.56	88.31	2.21	842.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
2005	1	2,070,072.95	152.56	0.00	864.38	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	2	1,949,462.58	164.34	0.00	767.23	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2005	3	1,771,887.80	139.50	0.00	753.20	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2005	4	1,308,930.63	67.33	6.32	767.07	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2005	5	1,021,337.50	18.76	22.43	727.30	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2005	6	1,069,231.42	2.67	136.92	747.07	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2005	7	1,333,320.85	0.00	384.54	725.33	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2005	8	1,460,080.86	0.00	480.68	712.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	9	1,336,065.75	0.00	370.37	738.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	10	1,033,743.95	1.60	165.18	732.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	11	1,120,136.25	40.59	10.48	755.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	12	1,900,439.24	148.98	1.67	834.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	1	2,207,723.46	153.46	0.00	872.08	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	2	1,804,836.41	116.64	0.00	770.48	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2006	3	1,626,827.48	128.28	1.38	738.95	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2006	4	1,262,415.62	66.89	16.70	727.15	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2006	5	940,154.58	5.70	29.22	743.98	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2006	6	1,057,778.07	1.12	112.92	746.35	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2006	7	1,271,276.79	0.00	276.82	728.42	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2006	8	1,424,173.58	0.00	418.57	700.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	9	1,255,081.86	0.27	278.05	741.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	10	971,237.94	10.83	38.61	747.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	11	1,232,087.45	58.15	2.59	745.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	12	1,774,977.72	100.31	2.97	833.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	1	1,894,406.86	110.99	0.34	866.72	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	2	2,214,653.08	198.69	0.00	762.83	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2007	3	1,845,838.37	166.85	2.28	750.07	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2007	4	1,270,902.88	60.92	31.42	777.38	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2007	5	1,045,100.11	22.33	52.99	742.80	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2007	6	1,145,911.91	0.93	190.32	741.27	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2007	7	1,271,357.53	0.00	304.45	717.04	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2007	8	1,344,388.71	0.00	351.48	707.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	9	1,445,614.07	0.00	399.08	738.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	10	1,068,750.06	1.85	180.69	737.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	11	1,140,305.73	36.75	31.09	766.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	12	1,690,170.52	112.07	0.00	838.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
2008	1	2,114,912.30	156.04	0.00	866.43	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	2	2,006,611.40	169.78	0.00	764.10	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2008	3	1,805,065.06	144.50	0.00	751.65	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2008	4	1,341,179.22	68.16	1.51	772.44	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2008	5	961,256.32	14.45	18.81	724.84	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2008	6	1,065,972.95	1.04	117.27	746.76	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2008	7	1,245,205.92	0.00	240.78	724.92	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2008	8	1,302,137.68	0.00	286.31	713.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	9	1,237,861.17	0.00	270.06	735.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	10	992,899.48	2.41	102.37	734.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	11		39.32	12.15	746.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	12		111.63	1.91	837.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	1		181.15	0.41	861.27	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	2		176.87	0.05	761.07	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2009	3		127.13	1.23	741.62	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2009	4		65.71	12.76	748.08	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2009	5		16.53	42.58	728.90	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2009	6		1.84	136.32	744.52	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2009	7		0.01	286.65	723.58	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2009	8		0.00	334.46	696.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	9		0.07	271.17	731.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	10		6.46	86.04	731.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	11		39.17	12.00	741.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	12		111.22	1.89	832.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	1		180.88	0.41	850.43	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	2		176.69	0.05	752.07	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2010	3		127.08	1.22	733.41	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2010	4		65.83	12.67	741.02	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2010	5		16.56	42.29	722.53	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2010	6		1.85	135.39	738.65	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2010	7		0.01	285.12	718.49	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2010	8		0.00	332.74	691.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	9		0.07	269.83	725.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	10		6.49	85.70	725.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	11		39.35	11.95	735.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	12		111.75	1.88	824.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
2011	1		181.85	0.41	843.68	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	2		177.70	0.05	746.71	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2011	3		127.65	1.21	727.35	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2011	4		66.10	12.63	734.99	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2011	5		16.64	42.16	717.50	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2011	6		1.86	135.00	734.23	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2011	7		0.01	284.46	714.80	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2011	8		0.00	332.03	688.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	9		0.07	269.25	721.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	10		6.53	85.54	721.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	11		39.58	11.93	729.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	12		112.40	1.88	818.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	1		182.92	0.41	837.73	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	2		178.71	0.05	741.60	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2012	3		128.36	1.21	722.53	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2012	4		66.46	12.61	730.40	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2012	5		16.73	42.09	713.44	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2012	6		1.87	134.77	730.62	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2012	7		0.01	283.91	711.36	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2012	8		0.00	331.36	684.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	9		0.07	268.69	717.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	10		6.55	85.34	716.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	11		39.75	11.90	724.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	12		112.89	1.87	811.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	1		183.65	0.40	832.73	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	2		179.38	0.04	737.26	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2013	3		128.81	1.21	718.40	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2013	4		66.65	12.57	726.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2013	5		16.77	41.97	709.69	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2013	6		1.87	134.36	727.15	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2013	7		0.01	282.91	707.96	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2013	8		0.00	330.14	681.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	9		0.07	267.66	713.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	10		6.56	84.98	711.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	11		39.79	11.85	719.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	12		112.98	1.87	805.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
2014	1		183.77	0.40	826.14	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	2		179.51	0.04	731.66	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2014	3		128.90	1.21	713.20	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2014	4		66.70	12.53	721.27	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2014	5		16.78	41.83	705.27	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2014	6		1.87	133.90	723.18	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2014	7		0.01	281.93	704.28	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2014	8		0.00	329.02	677.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	9		0.07	266.76	709.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	10		6.57	84.69	707.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	11		39.83	11.81	714.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	12		113.08	1.86	799.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	1		183.92	0.40	822.22	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	2		179.66	0.04	728.38	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2015	3		129.02	1.20	710.19	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2015	4		66.75	12.50	718.45	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2015	5		16.80	41.73	702.84	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2015	6		1.87	133.61	721.09	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2015	7		0.01	281.30	702.39	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2015	8		0.00	328.29	675.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	9		0.07	266.18	706.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	10		6.57	84.51	704.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	11		39.86	11.78	711.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	12		113.18	1.86	795.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	1		184.09	0.40	819.97	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	2		179.84	0.04	726.56	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2016	3		129.15	1.20	708.59	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2016	4		66.83	12.49	717.09	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2016	5		16.82	41.70	701.80	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2016	6		1.88	133.52	720.37	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2016	7		0.01	281.15	701.90	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2016	8		0.00	328.13	674.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	9		0.07	266.06	706.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	10		6.58	84.48	703.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	11		39.93	11.78	709.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	12		113.37	1.86	794.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
2017	1		184.30	0.40	817.54	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	2		180.05	0.04	724.58	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2017	3		129.31	1.20	706.86	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2017	4		66.91	12.50	715.58	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2017	5		16.84	41.73	700.64	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2017	6		1.88	133.62	719.55	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2017	7		0.01	281.36	701.27	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2017	8		0.00	328.39	674.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	9		0.07	266.29	705.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	10		6.59	84.55	702.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	11		39.99	11.79	708.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	12		113.55	1.86	792.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	1		184.62	0.40	816.02	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	2		180.37	0.04	723.40	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2018	3		129.54	1.21	705.87	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2018	4		67.03	12.52	714.79	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2018	5		16.87	41.82	700.15	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2018	6		1.88	133.89	719.41	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2018	7		0.01	281.91	701.28	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2018	8		0.00	329.05	674.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	9		0.07	266.83	704.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	10		6.61	84.72	701.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	11		40.06	11.81	707.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	12		113.77	1.86	791.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	1		184.99	0.40	815.16	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	2		180.74	0.04	722.81	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2019	3		129.81	1.21	705.47	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2019	4		67.17	12.56	714.61	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2019	5		16.91	41.94	700.27	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2019	6		1.89	134.29	719.88	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2019	7		0.01	282.76	701.92	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2019	8		0.00	330.04	674.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	9		0.07	267.63	705.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	10		6.62	84.97	701.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	11		40.15	11.85	707.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	12		114.03	1.87	790.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
2020	1		185.46	0.41	815.07	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	2		181.20	0.05	722.89	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2020	3		130.15	1.21	705.71	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2020	4		67.35	12.59	715.08	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2020	5		16.95	42.05	701.01	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2020	6		1.89	134.64	720.97	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2020	7		0.01	283.50	703.15	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2020	8		0.00	330.91	675.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	9		0.07	268.34	706.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	10		6.64	85.20	702.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	11		40.26	11.88	707.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	12		114.33	1.87	790.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	1		186.02	0.41	816.72	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	2		181.76	0.05	724.47	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2021	3		130.55	1.22	707.37	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2021	4		67.56	12.64	716.93	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2021	5		17.00	42.21	703.01	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2021	6		1.90	135.17	723.24	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2021	7		0.01	284.63	705.53	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2021	8		0.00	332.24	678.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	9		0.07	269.42	708.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	10		6.66	85.55	704.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	11		40.40	11.93	709.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	12		114.73	1.88	792.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	1		186.66	0.41	819.82	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	2		182.38	0.05	727.30	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2022	3		131.00	1.22	710.23	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2022	4		67.79	12.71	719.99	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2022	5		17.06	42.43	706.15	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2022	6		1.90	135.87	726.63	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2022	7		0.01	286.11	708.97	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2022	8		0.00	333.96	681.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	9		0.07	270.83	711.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	10		6.68	86.00	707.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	11		40.55	11.99	712.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	12		115.15	1.89	795.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
2023	1		187.30	0.41	823.59	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	2		183.01	0.05	730.73	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2023	3		131.45	1.23	713.66	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2023	4		68.02	12.78	723.56	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2023	5		17.12	42.67	709.77	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2023	6		1.91	136.65	730.49	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2023	7		0.01	287.74	712.83	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2023	8		0.00	335.88	685.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	9		0.07	272.39	715.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	10		6.71	86.49	711.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	11		40.69	12.06	715.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	12		115.55	1.90	799.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	1		187.93	0.41	827.99	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	2		183.62	0.05	734.71	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2024	3		131.89	1.24	717.62	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2024	4		68.25	12.86	727.70	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2024	5		17.18	42.94	713.94	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2024	6		1.92	137.51	734.91	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2024	7		0.01	289.55	717.27	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2024	8		0.00	337.99	689.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	9		0.07	274.10	719.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	10		6.73	87.03	715.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	11		40.82	12.13	719.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	12		115.94	1.91	804.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	1		188.57	0.42	832.35	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	2		184.25	0.05	738.65	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2025	3		132.34	1.25	721.54	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2025	4		68.48	12.95	731.79	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2025	5		17.24	43.23	718.06	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2025	6		1.92	138.43	739.25	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2025	7		0.01	291.48	721.60	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2025	8		0.00	340.23	693.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	9		0.07	275.91	724.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	10		6.75	87.60	719.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	11		40.95	12.21	723.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	12		116.31	1.92	808.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
2026	1		189.16	0.42	837.08	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	2		184.82	0.05	742.91	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2026	3		132.76	1.25	725.77	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2026	4		68.69	13.03	736.16	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2026	5		17.29	43.52	722.44	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2026	6		1.93	139.36	743.88	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2026	7		0.01	293.41	726.21	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2026	8		0.00	342.49	698.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	9		0.07	277.74	728.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	10		6.77	88.18	723.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	11		41.07	12.29	728.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	12		116.64	1.94	812.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	1		189.72	0.42	841.90	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	2		185.37	0.05	747.25	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2027	3		133.15	1.26	730.09	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2027	4		68.89	13.12	740.66	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2027	5		17.34	43.82	726.97	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2027	6		1.93	140.32	748.66	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2027	7		0.01	295.45	731.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2027	8		0.00	344.87	702.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	9		0.07	279.67	733.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	10		6.79	88.79	728.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	11		41.20	12.38	732.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	12		116.99	1.95	817.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	1		190.28	0.43	847.11	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	2		185.92	0.05	751.96	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2028	3		133.55	1.27	734.77	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2028	4		69.11	13.22	745.55	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2028	5		17.39	44.14	731.88	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2028	6		1.94	141.33	753.85	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2028	7		0.01	297.57	736.20	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2028	8		0.00	347.35	707.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	9		0.07	281.69	738.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	10		6.81	89.44	733.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	11		41.33	12.47	737.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	12		117.38	1.96	822.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
2029	1		190.92	0.43	852.22	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	2		186.56	0.05	756.58	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2029	3		134.01	1.28	739.36	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2029	4		69.35	13.32	750.34	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2029	5		17.46	44.47	736.70	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2029	6		1.95	142.40	758.93	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2029	7		0.01	299.84	741.31	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2029	8		0.00	350.01	712.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	9		0.07	283.86	743.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	10		6.84	90.13	737.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	11		41.49	12.57	742.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	12		117.82	1.98	828.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	1		191.67	0.43	858.21	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	2		187.30	0.05	761.96	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2030	3		134.54	1.29	744.69	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2030	4		69.63	13.42	755.87	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2030	5		17.53	44.82	742.22	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2030	6		1.96	143.54	764.71	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2030	7		0.01	302.26	747.06	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2030	8		0.00	352.84	718.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	9		0.08	286.16	749.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	10		6.87	90.86	743.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	11		41.66	12.67	747.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	12		118.33	2.00	834.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	1		192.55	0.44	863.57	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	2		188.16	0.05	766.78	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2031	3		135.16	1.30	749.47	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2031	4		69.95	13.53	760.82	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2031	5		17.61	45.18	747.18	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2031	6		1.96	144.69	769.92	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2031	7		0.01	304.69	752.26	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2031	8		0.00	355.68	723.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	9		0.08	288.47	754.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	10		6.90	91.60	748.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	11		41.86	12.77	752.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	12		118.89	2.01	839.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
2032	1		193.47	0.44	869.11	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	2		189.06	0.05	771.76	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2032	3		135.81	1.31	754.40	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2032	4		70.28	13.64	765.95	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2032	5		17.69	45.56	752.31	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2032	6		1.97	145.88	775.30	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2032	7		0.01	307.21	757.64	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2032	8		0.00	358.62	728.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	9		0.08	290.84	759.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	10		6.93	92.36	753.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	11		42.06	12.88	757.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	12		119.47	2.03	845.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	1		194.43	0.44	874.85	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	2		189.99	0.05	776.92	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2033	3		136.48	1.32	759.51	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2033	4		70.64	13.76	771.27	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2033	5		17.78	45.94	757.62	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2033	6		1.98	147.10	780.87	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2033	7		0.01	309.80	763.21	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2033	8		0.00	361.64	733.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	9		0.08	293.29	765.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	10		6.97	93.14	759.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	11		42.28	12.99	762.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	12		120.07	2.05	850.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	1		195.44	0.45	880.81	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	2		190.98	0.05	782.27	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2034	3		137.19	1.33	764.80	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2034	4		71.01	13.88	776.78	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2034	5		17.87	46.33	763.12	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2034	6		1.99	148.37	786.64	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2034	7		0.01	312.49	768.97	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2034	8		0.00	364.78	739.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	9		0.08	295.84	770.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	10		7.01	93.96	764.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	11		42.51	13.10	768.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	12		120.73	2.06	856.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
2035	1		196.52	0.45	886.96	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	2		192.03	0.05	787.79	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2035	3		137.95	1.35	770.26	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2035	4		71.40	14.00	782.43	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2035	5		17.97	46.74	768.75	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2035	6		2.01	149.69	792.54	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2035	7		0.01	315.28	774.84	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2035	8		0.00	368.03	744.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	9		0.08	298.48	776.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	10		7.05	94.80	770.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	11		42.75	13.22	773.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	12		121.40	2.08	862.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	1		197.64	0.45	893.15	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	2		193.12	0.05	793.33	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2036	3		138.73	1.36	775.73	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2036	4		71.81	14.12	788.09	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2036	5		18.08	47.16	774.39	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2036	6		2.02	151.03	798.43	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2036	7		0.01	318.11	780.71	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2036	8		0.00	371.33	750.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	9		0.08	301.15	782.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	10		7.09	95.65	775.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	11		42.99	13.34	779.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	12		122.09	2.10	868.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	1		198.77	0.46	899.38	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	2		194.23	0.05	798.91	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2037	3		139.52	1.37	781.23	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2037	4		72.22	14.25	793.81	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2037	5		18.18	47.59	780.09	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2037	6		2.03	152.38	804.39	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2037	7		0.01	320.97	786.66	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2037	8		0.00	374.67	756.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	9		0.08	303.85	788.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	10		7.13	96.51	781.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	11		43.24	13.46	784.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	12		122.79	2.12	874.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	SalesPerHH	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun	Jul
2038	1		199.91	0.46	905.60	1.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	2		195.34	0.05	804.49	0.00	1.00	0.00	0.00	0.00	0.00	0.00
2038	3		140.32	1.38	786.74	0.00	0.00	1.00	0.00	0.00	0.00	0.00
2038	4		72.64	14.38	799.53	0.00	0.00	0.00	1.00	0.00	0.00	0.00
2038	5		18.28	48.01	785.79	0.00	0.00	0.00	0.00	1.00	0.00	0.00
2038	6		2.04	153.74	810.36	0.00	0.00	0.00	0.00	0.00	1.00	0.00
2038	7		0.01	323.84	792.62	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2038	8		0.00	378.02	761.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	9		0.08	306.56	794.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	10		7.17	97.37	787.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	11		43.48	13.58	790.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	12		123.49	2.14	880.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
1990	1	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	2	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	9	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
1991	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
1993	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	9	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
1993	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
1994	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
1995	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
1995	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
1996	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
1999	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
2002	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
2005	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2006	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
2007	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2007	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
2008	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2008	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2009	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
2011	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
2014	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2014	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
2017	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
2020	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2020	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2021	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2022	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
2023	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2024	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2025	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
2026	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2026	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
2029	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
2032	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
2035	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Sep	Oct	Nov	feb90	Jan90	Sep93	Sep91	Sep95	Sep94	Nov95	Feb07
2038	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	10	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	11	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2038	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
1990	1	0.00	0.00	0.00
1990	2	0.00	0.00	0.00
1990	3	0.00	0.00	0.00
1990	4	0.00	0.00	0.00
1990	5	0.00	0.00	0.00
1990	6	0.00	0.00	0.00
1990	7	0.00	0.00	0.00
1990	8	0.00	0.00	0.00
1990	9	0.00	0.00	0.00
1990	10	0.00	0.00	0.00
1990	11	0.00	0.00	0.00
1990	12	0.00	0.00	0.00
1991	1	0.00	0.00	0.00
1991	2	0.00	0.00	0.00
1991	3	0.00	0.00	0.00
1991	4	0.00	0.00	0.00
1991	5	0.00	0.00	0.00
1991	6	0.00	0.00	0.00
1991	7	0.00	0.00	0.00
1991	8	0.00	0.00	0.00
1991	9	0.00	0.00	0.00
1991	10	0.00	0.00	0.00
1991	11	0.00	0.00	0.00
1991	12	0.00	0.00	0.00
1992	1	0.00	0.00	0.00
1992	2	0.00	0.00	0.00
1992	3	0.00	0.00	0.00
1992	4	0.00	0.00	0.00
1992	5	0.00	0.00	0.00
1992	6	0.00	0.00	0.00
1992	7	0.00	0.00	0.00
1992	8	0.00	0.00	0.00
1992	9	0.00	0.00	0.00
1992	10	0.00	0.00	0.00
1992	11	0.00	0.00	0.00
1992	12	0.00	0.00	0.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
1993	1	0.00	0.00	0.00
1993	2	0.00	0.00	0.00
1993	3	0.00	0.00	0.00
1993	4	0.00	0.00	0.00
1993	5	0.00	0.00	0.00
1993	6	0.00	0.00	0.00
1993	7	1.00	0.00	0.00
1993	8	0.00	0.00	0.00
1993	9	0.00	0.00	0.00
1993	10	0.00	0.00	0.00
1993	11	0.00	0.00	0.00
1993	12	0.00	0.00	0.00
1994	1	0.00	0.00	0.00
1994	2	0.00	0.00	0.00
1994	3	0.00	0.00	0.00
1994	4	0.00	0.00	0.00
1994	5	0.00	0.00	0.00
1994	6	0.00	0.00	0.00
1994	7	0.00	0.00	0.00
1994	8	0.00	0.00	0.00
1994	9	0.00	0.00	0.00
1994	10	0.00	0.00	0.00
1994	11	0.00	0.00	0.00
1994	12	0.00	0.00	0.00
1995	1	0.00	0.00	0.00
1995	2	0.00	0.00	0.00
1995	3	0.00	0.00	0.00
1995	4	0.00	0.00	0.00
1995	5	0.00	0.00	0.00
1995	6	0.00	0.00	0.00
1995	7	0.00	0.00	0.00
1995	8	0.00	0.00	0.00
1995	9	0.00	0.00	0.00
1995	10	0.00	0.00	0.00
1995	11	0.00	0.00	0.00
1995	12	0.00	1.00	0.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
1996	1	0.00	0.00	0.00
1996	2	0.00	0.00	0.00
1996	3	0.00	0.00	0.00
1996	4	0.00	0.00	0.00
1996	5	0.00	0.00	0.00
1996	6	0.00	0.00	0.00
1996	7	0.00	0.00	0.00
1996	8	0.00	0.00	0.00
1996	9	0.00	0.00	0.00
1996	10	0.00	0.00	0.00
1996	11	0.00	0.00	0.00
1996	12	0.00	0.00	0.00
1997	1	0.00	0.00	0.00
1997	2	0.00	0.00	0.00
1997	3	0.00	0.00	0.00
1997	4	0.00	0.00	0.00
1997	5	0.00	0.00	0.00
1997	6	0.00	0.00	0.00
1997	7	0.00	0.00	0.00
1997	8	0.00	0.00	0.00
1997	9	0.00	0.00	0.00
1997	10	0.00	0.00	0.00
1997	11	0.00	0.00	0.00
1997	12	0.00	0.00	0.00
1998	1	0.00	0.00	0.00
1998	2	0.00	0.00	0.00
1998	3	0.00	0.00	0.00
1998	4	0.00	0.00	0.00
1998	5	0.00	0.00	0.00
1998	6	0.00	0.00	0.00
1998	7	0.00	0.00	0.00
1998	8	0.00	0.00	0.00
1998	9	0.00	0.00	0.00
1998	10	0.00	0.00	0.00
1998	11	0.00	0.00	0.00
1998	12	0.00	0.00	0.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
1999	1	0.00	0.00	0.00
1999	2	0.00	0.00	0.00
1999	3	0.00	0.00	0.00
1999	4	0.00	0.00	0.00
1999	5	0.00	0.00	0.00
1999	6	0.00	0.00	0.00
1999	7	0.00	0.00	0.00
1999	8	0.00	0.00	0.00
1999	9	0.00	0.00	0.00
1999	10	0.00	0.00	0.00
1999	11	0.00	0.00	0.00
1999	12	0.00	0.00	0.00
2000	1	0.00	0.00	0.00
2000	2	0.00	0.00	0.00
2000	3	0.00	0.00	0.00
2000	4	0.00	0.00	0.00
2000	5	0.00	0.00	0.00
2000	6	0.00	0.00	0.00
2000	7	0.00	0.00	0.00
2000	8	0.00	0.00	0.00
2000	9	0.00	0.00	0.00
2000	10	0.00	0.00	0.00
2000	11	0.00	0.00	0.00
2000	12	0.00	0.00	0.00
2001	1	0.00	0.00	0.00
2001	2	0.00	0.00	0.00
2001	3	0.00	0.00	0.00
2001	4	0.00	0.00	0.00
2001	5	0.00	0.00	0.00
2001	6	0.00	0.00	0.00
2001	7	0.00	0.00	0.00
2001	8	0.00	0.00	0.00
2001	9	0.00	0.00	0.00
2001	10	0.00	0.00	0.00
2001	11	0.00	0.00	0.00
2001	12	0.00	0.00	0.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
2002	1	0.00	0.00	0.00
2002	2	0.00	0.00	0.00
2002	3	0.00	0.00	0.00
2002	4	0.00	0.00	0.00
2002	5	0.00	0.00	0.00
2002	6	0.00	0.00	0.00
2002	7	0.00	0.00	0.00
2002	8	0.00	0.00	0.00
2002	9	0.00	0.00	0.00
2002	10	0.00	0.00	0.00
2002	11	0.00	0.00	0.00
2002	12	0.00	0.00	0.00
2003	1	0.00	0.00	0.00
2003	2	0.00	0.00	0.00
2003	3	0.00	0.00	0.00
2003	4	0.00	0.00	0.00
2003	5	0.00	0.00	0.00
2003	6	0.00	0.00	0.00
2003	7	0.00	0.00	0.00
2003	8	0.00	0.00	0.00
2003	9	0.00	0.00	0.00
2003	10	0.00	0.00	0.00
2003	11	0.00	0.00	0.00
2003	12	0.00	0.00	0.00
2004	1	0.00	0.00	0.00
2004	2	0.00	0.00	0.00
2004	3	0.00	0.00	0.00
2004	4	0.00	0.00	0.00
2004	5	0.00	0.00	0.00
2004	6	0.00	0.00	0.00
2004	7	0.00	0.00	0.00
2004	8	0.00	0.00	0.00
2004	9	0.00	0.00	0.00
2004	10	0.00	0.00	0.00
2004	11	0.00	0.00	0.00
2004	12	0.00	0.00	0.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
2005	1	0.00	0.00	0.00
2005	2	0.00	0.00	0.00
2005	3	0.00	0.00	0.00
2005	4	0.00	0.00	0.00
2005	5	0.00	0.00	0.00
2005	6	0.00	0.00	0.00
2005	7	0.00	0.00	0.00
2005	8	0.00	0.00	0.00
2005	9	0.00	0.00	0.00
2005	10	0.00	0.00	0.00
2005	11	0.00	0.00	0.00
2005	12	0.00	0.00	0.00
2006	1	0.00	0.00	0.00
2006	2	0.00	0.00	0.00
2006	3	0.00	0.00	0.00
2006	4	0.00	0.00	0.00
2006	5	0.00	0.00	0.00
2006	6	0.00	0.00	0.00
2006	7	0.00	0.00	0.00
2006	8	0.00	0.00	0.00
2006	9	0.00	0.00	0.00
2006	10	0.00	0.00	0.00
2006	11	0.00	0.00	0.00
2006	12	0.00	0.00	0.00
2007	1	0.00	0.00	0.00
2007	2	0.00	0.00	0.00
2007	3	0.00	0.00	0.00
2007	4	0.00	0.00	0.00
2007	5	0.00	0.00	0.00
2007	6	0.00	0.00	0.00
2007	7	0.00	0.00	0.00
2007	8	0.00	0.00	0.00
2007	9	0.00	0.00	0.00
2007	10	0.00	0.00	0.00
2007	11	0.00	0.00	0.00
2007	12	0.00	0.00	0.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
2008	1	0.00	0.00	1.00
2008	2	0.00	0.00	1.00
2008	3	0.00	0.00	1.00
2008	4	0.00	0.00	1.00
2008	5	0.00	0.00	1.00
2008	6	0.00	0.00	1.00
2008	7	0.00	0.00	1.00
2008	8	0.00	0.00	1.00
2008	9	0.00	0.00	1.00
2008	10	0.00	0.00	1.00
2008	11	0.00	0.00	1.00
2008	12	0.00	0.00	1.00
2009	1	0.00	0.00	1.00
2009	2	0.00	0.00	1.00
2009	3	0.00	0.00	1.00
2009	4	0.00	0.00	1.00
2009	5	0.00	0.00	1.00
2009	6	0.00	0.00	1.00
2009	7	0.00	0.00	1.00
2009	8	0.00	0.00	1.00
2009	9	0.00	0.00	1.00
2009	10	0.00	0.00	1.00
2009	11	0.00	0.00	1.00
2009	12	0.00	0.00	1.00
2010	1	0.00	0.00	1.00
2010	2	0.00	0.00	1.00
2010	3	0.00	0.00	1.00
2010	4	0.00	0.00	1.00
2010	5	0.00	0.00	1.00
2010	6	0.00	0.00	1.00
2010	7	0.00	0.00	1.00
2010	8	0.00	0.00	1.00
2010	9	0.00	0.00	1.00
2010	10	0.00	0.00	1.00
2010	11	0.00	0.00	1.00
2010	12	0.00	0.00	1.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
2011	1	0.00	0.00	1.00
2011	2	0.00	0.00	1.00
2011	3	0.00	0.00	1.00
2011	4	0.00	0.00	1.00
2011	5	0.00	0.00	1.00
2011	6	0.00	0.00	1.00
2011	7	0.00	0.00	1.00
2011	8	0.00	0.00	1.00
2011	9	0.00	0.00	1.00
2011	10	0.00	0.00	1.00
2011	11	0.00	0.00	1.00
2011	12	0.00	0.00	1.00
2012	1	0.00	0.00	1.00
2012	2	0.00	0.00	1.00
2012	3	0.00	0.00	1.00
2012	4	0.00	0.00	1.00
2012	5	0.00	0.00	1.00
2012	6	0.00	0.00	1.00
2012	7	0.00	0.00	1.00
2012	8	0.00	0.00	1.00
2012	9	0.00	0.00	1.00
2012	10	0.00	0.00	1.00
2012	11	0.00	0.00	1.00
2012	12	0.00	0.00	1.00
2013	1	0.00	0.00	1.00
2013	2	0.00	0.00	1.00
2013	3	0.00	0.00	1.00
2013	4	0.00	0.00	1.00
2013	5	0.00	0.00	1.00
2013	6	0.00	0.00	1.00
2013	7	0.00	0.00	1.00
2013	8	0.00	0.00	1.00
2013	9	0.00	0.00	1.00
2013	10	0.00	0.00	1.00
2013	11	0.00	0.00	1.00
2013	12	0.00	0.00	1.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
2014	1	0.00	0.00	1.00
2014	2	0.00	0.00	1.00
2014	3	0.00	0.00	1.00
2014	4	0.00	0.00	1.00
2014	5	0.00	0.00	1.00
2014	6	0.00	0.00	1.00
2014	7	0.00	0.00	1.00
2014	8	0.00	0.00	1.00
2014	9	0.00	0.00	1.00
2014	10	0.00	0.00	1.00
2014	11	0.00	0.00	1.00
2014	12	0.00	0.00	1.00
2015	1	0.00	0.00	1.00
2015	2	0.00	0.00	1.00
2015	3	0.00	0.00	1.00
2015	4	0.00	0.00	1.00
2015	5	0.00	0.00	1.00
2015	6	0.00	0.00	1.00
2015	7	0.00	0.00	1.00
2015	8	0.00	0.00	1.00
2015	9	0.00	0.00	1.00
2015	10	0.00	0.00	1.00
2015	11	0.00	0.00	1.00
2015	12	0.00	0.00	1.00
2016	1	0.00	0.00	1.00
2016	2	0.00	0.00	1.00
2016	3	0.00	0.00	1.00
2016	4	0.00	0.00	1.00
2016	5	0.00	0.00	1.00
2016	6	0.00	0.00	1.00
2016	7	0.00	0.00	1.00
2016	8	0.00	0.00	1.00
2016	9	0.00	0.00	1.00
2016	10	0.00	0.00	1.00
2016	11	0.00	0.00	1.00
2016	12	0.00	0.00	1.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
2017	1	0.00	0.00	1.00
2017	2	0.00	0.00	1.00
2017	3	0.00	0.00	1.00
2017	4	0.00	0.00	1.00
2017	5	0.00	0.00	1.00
2017	6	0.00	0.00	1.00
2017	7	0.00	0.00	1.00
2017	8	0.00	0.00	1.00
2017	9	0.00	0.00	1.00
2017	10	0.00	0.00	1.00
2017	11	0.00	0.00	1.00
2017	12	0.00	0.00	1.00
2018	1	0.00	0.00	1.00
2018	2	0.00	0.00	1.00
2018	3	0.00	0.00	1.00
2018	4	0.00	0.00	1.00
2018	5	0.00	0.00	1.00
2018	6	0.00	0.00	1.00
2018	7	0.00	0.00	1.00
2018	8	0.00	0.00	1.00
2018	9	0.00	0.00	1.00
2018	10	0.00	0.00	1.00
2018	11	0.00	0.00	1.00
2018	12	0.00	0.00	1.00
2019	1	0.00	0.00	1.00
2019	2	0.00	0.00	1.00
2019	3	0.00	0.00	1.00
2019	4	0.00	0.00	1.00
2019	5	0.00	0.00	1.00
2019	6	0.00	0.00	1.00
2019	7	0.00	0.00	1.00
2019	8	0.00	0.00	1.00
2019	9	0.00	0.00	1.00
2019	10	0.00	0.00	1.00
2019	11	0.00	0.00	1.00
2019	12	0.00	0.00	1.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
2020	1	0.00	0.00	1.00
2020	2	0.00	0.00	1.00
2020	3	0.00	0.00	1.00
2020	4	0.00	0.00	1.00
2020	5	0.00	0.00	1.00
2020	6	0.00	0.00	1.00
2020	7	0.00	0.00	1.00
2020	8	0.00	0.00	1.00
2020	9	0.00	0.00	1.00
2020	10	0.00	0.00	1.00
2020	11	0.00	0.00	1.00
2020	12	0.00	0.00	1.00
2021	1	0.00	0.00	1.00
2021	2	0.00	0.00	1.00
2021	3	0.00	0.00	1.00
2021	4	0.00	0.00	1.00
2021	5	0.00	0.00	1.00
2021	6	0.00	0.00	1.00
2021	7	0.00	0.00	1.00
2021	8	0.00	0.00	1.00
2021	9	0.00	0.00	1.00
2021	10	0.00	0.00	1.00
2021	11	0.00	0.00	1.00
2021	12	0.00	0.00	1.00
2022	1	0.00	0.00	1.00
2022	2	0.00	0.00	1.00
2022	3	0.00	0.00	1.00
2022	4	0.00	0.00	1.00
2022	5	0.00	0.00	1.00
2022	6	0.00	0.00	1.00
2022	7	0.00	0.00	1.00
2022	8	0.00	0.00	1.00
2022	9	0.00	0.00	1.00
2022	10	0.00	0.00	1.00
2022	11	0.00	0.00	1.00
2022	12	0.00	0.00	1.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
2023	1	0.00	0.00	1.00
2023	2	0.00	0.00	1.00
2023	3	0.00	0.00	1.00
2023	4	0.00	0.00	1.00
2023	5	0.00	0.00	1.00
2023	6	0.00	0.00	1.00
2023	7	0.00	0.00	1.00
2023	8	0.00	0.00	1.00
2023	9	0.00	0.00	1.00
2023	10	0.00	0.00	1.00
2023	11	0.00	0.00	1.00
2023	12	0.00	0.00	1.00
2024	1	0.00	0.00	1.00
2024	2	0.00	0.00	1.00
2024	3	0.00	0.00	1.00
2024	4	0.00	0.00	1.00
2024	5	0.00	0.00	1.00
2024	6	0.00	0.00	1.00
2024	7	0.00	0.00	1.00
2024	8	0.00	0.00	1.00
2024	9	0.00	0.00	1.00
2024	10	0.00	0.00	1.00
2024	11	0.00	0.00	1.00
2024	12	0.00	0.00	1.00
2025	1	0.00	0.00	1.00
2025	2	0.00	0.00	1.00
2025	3	0.00	0.00	1.00
2025	4	0.00	0.00	1.00
2025	5	0.00	0.00	1.00
2025	6	0.00	0.00	1.00
2025	7	0.00	0.00	1.00
2025	8	0.00	0.00	1.00
2025	9	0.00	0.00	1.00
2025	10	0.00	0.00	1.00
2025	11	0.00	0.00	1.00
2025	12	0.00	0.00	1.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
2026	1	0.00	0.00	1.00
2026	2	0.00	0.00	1.00
2026	3	0.00	0.00	1.00
2026	4	0.00	0.00	1.00
2026	5	0.00	0.00	1.00
2026	6	0.00	0.00	1.00
2026	7	0.00	0.00	1.00
2026	8	0.00	0.00	1.00
2026	9	0.00	0.00	1.00
2026	10	0.00	0.00	1.00
2026	11	0.00	0.00	1.00
2026	12	0.00	0.00	1.00
2027	1	0.00	0.00	1.00
2027	2	0.00	0.00	1.00
2027	3	0.00	0.00	1.00
2027	4	0.00	0.00	1.00
2027	5	0.00	0.00	1.00
2027	6	0.00	0.00	1.00
2027	7	0.00	0.00	1.00
2027	8	0.00	0.00	1.00
2027	9	0.00	0.00	1.00
2027	10	0.00	0.00	1.00
2027	11	0.00	0.00	1.00
2027	12	0.00	0.00	1.00
2028	1	0.00	0.00	1.00
2028	2	0.00	0.00	1.00
2028	3	0.00	0.00	1.00
2028	4	0.00	0.00	1.00
2028	5	0.00	0.00	1.00
2028	6	0.00	0.00	1.00
2028	7	0.00	0.00	1.00
2028	8	0.00	0.00	1.00
2028	9	0.00	0.00	1.00
2028	10	0.00	0.00	1.00
2028	11	0.00	0.00	1.00
2028	12	0.00	0.00	1.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
2029	1	0.00	0.00	1.00
2029	2	0.00	0.00	1.00
2029	3	0.00	0.00	1.00
2029	4	0.00	0.00	1.00
2029	5	0.00	0.00	1.00
2029	6	0.00	0.00	1.00
2029	7	0.00	0.00	1.00
2029	8	0.00	0.00	1.00
2029	9	0.00	0.00	1.00
2029	10	0.00	0.00	1.00
2029	11	0.00	0.00	1.00
2029	12	0.00	0.00	1.00
2030	1	0.00	0.00	1.00
2030	2	0.00	0.00	1.00
2030	3	0.00	0.00	1.00
2030	4	0.00	0.00	1.00
2030	5	0.00	0.00	1.00
2030	6	0.00	0.00	1.00
2030	7	0.00	0.00	1.00
2030	8	0.00	0.00	1.00
2030	9	0.00	0.00	1.00
2030	10	0.00	0.00	1.00
2030	11	0.00	0.00	1.00
2030	12	0.00	0.00	1.00
2031	1	0.00	0.00	1.00
2031	2	0.00	0.00	1.00
2031	3	0.00	0.00	1.00
2031	4	0.00	0.00	1.00
2031	5	0.00	0.00	1.00
2031	6	0.00	0.00	1.00
2031	7	0.00	0.00	1.00
2031	8	0.00	0.00	1.00
2031	9	0.00	0.00	1.00
2031	10	0.00	0.00	1.00
2031	11	0.00	0.00	1.00
2031	12	0.00	0.00	1.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
2032	1	0.00	0.00	1.00
2032	2	0.00	0.00	1.00
2032	3	0.00	0.00	1.00
2032	4	0.00	0.00	1.00
2032	5	0.00	0.00	1.00
2032	6	0.00	0.00	1.00
2032	7	0.00	0.00	1.00
2032	8	0.00	0.00	1.00
2032	9	0.00	0.00	1.00
2032	10	0.00	0.00	1.00
2032	11	0.00	0.00	1.00
2032	12	0.00	0.00	1.00
2033	1	0.00	0.00	1.00
2033	2	0.00	0.00	1.00
2033	3	0.00	0.00	1.00
2033	4	0.00	0.00	1.00
2033	5	0.00	0.00	1.00
2033	6	0.00	0.00	1.00
2033	7	0.00	0.00	1.00
2033	8	0.00	0.00	1.00
2033	9	0.00	0.00	1.00
2033	10	0.00	0.00	1.00
2033	11	0.00	0.00	1.00
2033	12	0.00	0.00	1.00
2034	1	0.00	0.00	1.00
2034	2	0.00	0.00	1.00
2034	3	0.00	0.00	1.00
2034	4	0.00	0.00	1.00
2034	5	0.00	0.00	1.00
2034	6	0.00	0.00	1.00
2034	7	0.00	0.00	1.00
2034	8	0.00	0.00	1.00
2034	9	0.00	0.00	1.00
2034	10	0.00	0.00	1.00
2034	11	0.00	0.00	1.00
2034	12	0.00	0.00	1.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
2035	1	0.00	0.00	1.00
2035	2	0.00	0.00	1.00
2035	3	0.00	0.00	1.00
2035	4	0.00	0.00	1.00
2035	5	0.00	0.00	1.00
2035	6	0.00	0.00	1.00
2035	7	0.00	0.00	1.00
2035	8	0.00	0.00	1.00
2035	9	0.00	0.00	1.00
2035	10	0.00	0.00	1.00
2035	11	0.00	0.00	1.00
2035	12	0.00	0.00	1.00
2036	1	0.00	0.00	1.00
2036	2	0.00	0.00	1.00
2036	3	0.00	0.00	1.00
2036	4	0.00	0.00	1.00
2036	5	0.00	0.00	1.00
2036	6	0.00	0.00	1.00
2036	7	0.00	0.00	1.00
2036	8	0.00	0.00	1.00
2036	9	0.00	0.00	1.00
2036	10	0.00	0.00	1.00
2036	11	0.00	0.00	1.00
2036	12	0.00	0.00	1.00
2037	1	0.00	0.00	1.00
2037	2	0.00	0.00	1.00
2037	3	0.00	0.00	1.00
2037	4	0.00	0.00	1.00
2037	5	0.00	0.00	1.00
2037	6	0.00	0.00	1.00
2037	7	0.00	0.00	1.00
2037	8	0.00	0.00	1.00
2037	9	0.00	0.00	1.00
2037	10	0.00	0.00	1.00
2037	11	0.00	0.00	1.00
2037	12	0.00	0.00	1.00

Residential Model Data

Year	Month	Jul93	Dec95	D08on
2038	1	0.00	0.00	1.00
2038	2	0.00	0.00	1.00
2038	3	0.00	0.00	1.00
2038	4	0.00	0.00	1.00
2038	5	0.00	0.00	1.00
2038	6	0.00	0.00	1.00
2038	7	0.00	0.00	1.00
2038	8	0.00	0.00	1.00
2038	9	0.00	0.00	1.00
2038	10	0.00	0.00	1.00
2038	11	0.00	0.00	1.00
2038	12	0.00	0.00	1.00

Residential Model Coefficients

Variable	Coefficient	StdErr	T-Stat	P-Value	Definition
CONST	107599.109	94900.523	1.134	25.82%	Constant term
ResidentialVars.XHeat	4959.470	236.016	21.013	0.00%	Residential Heating Component
ResidentialVars.XCool	865.039	74.716	11.578	0.00%	Residential Cooling Component
ResidentialVars.XOther	1330.295	131.538	10.113	0.00%	Residential Other Component
BinaryVars.Jan	35962.437	26038.052	1.381	16.88%	January
BinaryVars.Feb	-61968.449	29250.451	-2.119	3.54%	February
BinaryVars.Mar	-80761.477	25083.995	-3.220	0.15%	March
BinaryVars.Apr	-180658.656	22311.182	-8.097	0.00%	April
BinaryVars.May	-188729.167	24231.888	-7.788	0.00%	May
BinaryVars.Jun	-150133.246	22023.094	-6.817	0.00%	June
BinaryVars.Jul	-19332.332	20905.670	-0.925	35.62%	July
BinaryVars.Sep	-96293.337	22075.295	-4.362	0.00%	September
BinaryVars.Oct	-177589.819	23389.732	-7.593	0.00%	October
BinaryVars.Nov	-102997.479	24224.369	-4.252	0.00%	November
BinaryVars.feb90	-178945.808	71153.153	-2.515	1.27%	Binary-February 1990
BinaryVars.Jan90	-359282.406	69026.861	-5.205	0.00%	Binary-January 1990
BinaryVars.Sep93	-300888.921	69181.071	-4.349	0.00%	Binary-September 1993
BinaryVars.Sep91	-220435.878	69302.615	-3.181	0.17%	Binary-September 1991
BinaryVars.Sep95	-278703.141	69200.104	-4.027	0.01%	Binary-September 1995
BinaryVars.Sep94	-222590.662	69543.268	-3.201	0.16%	Binary-September 1994
BinaryVars.Nov95	383201.426	68780.003	5.571	0.00%	Binary-November 1995
BinaryVars.Feb07	168840.076	69437.611	2.432	1.59%	Binary-February 2007
BinaryVars.Jul93	230996.835	68718.918	3.361	0.09%	Binary-July 1993
BinaryVars.Dec95	283350.606	68920.194	4.111	0.01%	Binary-December 1995
BinaryVars.D08on	23671.359	22310.085	1.061	29.00%	Binary-2008 On

Residential Model Statistics

Regression Statistics		Forecast Statistics	
Iterations	1	Forecast Observations	0
Adjusted Observations	226	Mean Abs. Dev. (MAD)	0.00
Deg. of Freedom for Error	201	Mean Abs. % Err. (MAPE)	0.00%
R-Squared	0.968	Avg. Forecast Error	0.00
Adjusted R-Squared	0.964	Mean % Error	0.00%
Durbin-Watson Statistic	1.564	Root Mean-Square Error	0.000
Durbin-H Statistic	#NA	Theil's Inequality Coefficient	0.0000
AIC	22.318	-- Bias Proportion	0.00%
BIC	22.697	-- Variance Proportion	0.00%
F-Statistic	255.518	-- Covariance Proportion	0.00%
Prob (F-Statistic)	0.0000		
Log-Likelihood	-2817.65		
Model Sum of Squares	27239508600222		
Sum of Squared Errors	892816145758		
Mean Squared Error	4441871371.93		
Std. Error of Regression	66647.37		
Mean Abs. Dev. (MAD)	45440.38		
Mean Abs. % Err. (MAPE)	3.59%		
Ljung-Box Statistic	65.37		
Prob (Ljung-Box)	0.0000		
Skewness	0.398		
Kurtosis	4.467		
Jarque-Bera	26.2		
Prob (Jarque-Bera)	0.0014		

Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr
1994	1	2,036,887.079	107,599.109	862,636.474	0.000	1,030,689.059	35,962.437	0.000	0.000	0.000
1994	2	1,779,695.073	107,599.109	823,550.206	0.000	910,514.208	0.000	-61,968.449	0.000	0.000
1994	3	1,373,093.037	107,599.109	459,782.106	83.481	886,389.817	0.000	0.000	-80,761.477	0.000
1994	4	1,074,206.598	107,599.109	248,113.710	5,556.389	893,596.046	0.000	0.000	0.000	-180,658.656
1994	5	861,156.854	107,599.109	32,394.364	40,576.045	869,316.502	0.000	0.000	0.000	0.000
1994	6	968,223.772	107,599.109	4,244.161	119,247.918	887,265.829	0.000	0.000	0.000	0.000
1994	7	1,281,941.692	107,599.109	0.000	330,539.048	863,135.867	0.000	0.000	0.000	0.000
1994	8	1,202,132.254	107,599.109	0.000	261,932.366	832,600.779	0.000	0.000	0.000	0.000
1994	9	817,764.444	107,599.109	0.000	156,944.782	872,104.552	0.000	0.000	0.000	0.000
1994	10	852,339.634	107,599.109	10,392.815	37,698.892	874,238.636	0.000	0.000	0.000	0.000
1994	11	972,764.062	107,599.109	77,165.278	3,848.280	887,148.873	0.000	0.000	0.000	0.000
1994	12	1,394,531.558	107,599.109	289,834.217	1,696.207	995,402.025	0.000	0.000	0.000	0.000
1995	1	1,805,002.154	107,599.109	623,038.614	0.000	1,038,401.993	35,962.437	0.000	0.000	0.000
1995	2	1,709,882.900	107,599.109	747,910.927	0.000	916,341.313	0.000	-61,968.449	0.000	0.000
1995	3	1,423,035.277	107,599.109	504,369.762	0.000	891,827.882	0.000	0.000	-80,761.477	0.000
1995	4	1,022,150.176	107,599.109	191,411.447	5,686.061	898,112.215	0.000	0.000	0.000	0.000
1995	5	883,434.538	107,599.109	67,971.350	22,880.511	873,712.735	0.000	0.000	0.000	0.000
1995	6	960,890.001	107,599.109	4,519.025	107,022.290	891,882.823	0.000	0.000	0.000	0.000
1995	7	1,206,154.254	107,599.109	0.000	250,266.698	867,620.779	0.000	0.000	0.000	0.000
1995	8	1,319,432.861	107,599.109	0.000	375,161.398	836,672.354	0.000	0.000	0.000	0.000
1995	9	915,975.408	107,599.109	551.708	306,376.381	876,444.687	0.000	0.000	0.000	0.000
1995	10	878,292.708	107,599.109	14,402.745	55,612.564	878,268.109	0.000	0.000	0.000	0.000
1995	11	1,498,882.470	107,599.109	214,211.445	5,091.551	891,776.417	0.000	0.000	0.000	0.000
1995	12	1,967,901.147	107,599.109	575,426.576	379.264	1,001,145.592	0.000	0.000	0.000	0.000
1996	1	2,120,783.009	107,599.109	934,596.301	0.000	1,042,625.161	35,962.437	0.000	0.000	0.000
1996	2	1,801,305.364	107,599.109	832,359.732	0.000	923,314.972	0.000	-61,968.449	0.000	0.000
1996	3	1,487,584.858	107,599.109	564,550.817	0.000	896,196.409	0.000	0.000	-80,761.477	0.000
1996	4	1,237,620.794	107,599.109	400,722.550	6,541.627	903,416.165	0.000	0.000	0.000	-180,658.656
1996	5	950,331.756	107,599.109	87,107.385	64,957.157	879,397.271	0.000	0.000	0.000	0.000
1996	6	1,012,788.965	107,599.109	12,434.717	145,157.160	897,731.224	0.000	0.000	0.000	0.000
1996	7	1,236,975.152	107,599.109	0.000	274,882.835	873,825.540	0.000	0.000	0.000	0.000
1996	8	1,193,650.627	107,599.109	0.000	242,826.963	843,224.555	0.000	0.000	0.000	0.000
1996	9	1,112,456.345	107,599.109	0.000	217,861.000	883,289.572	0.000	0.000	0.000	0.000
1996	10	881,697.015	107,599.109	26,601.513	39,060.204	886,026.008	0.000	0.000	0.000	0.000
1996	11	1,123,415.045	107,599.109	214,087.213	5,467.959	899,258.243	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr
1996	12	1,708,613.439	107,599.109	589,751.102	1,429.251	1,009,833.977	0.000	0.000	0.000	0.000
1997	1	1,870,929.577	107,599.109	672,589.945	764.508	1,054,013.578	35,962.437	0.000	0.000	0.000
1997	2	1,704,154.405	107,599.109	726,526.992	564.606	931,432.148	0.000	-61,968.449	0.000	0.000
1997	3	1,331,898.623	107,599.109	395,240.259	2,374.946	907,445.785	0.000	0.000	-80,761.477	0.000
1997	4	1,108,657.816	107,599.109	260,203.039	5,593.491	915,920.834	0.000	0.000	0.000	-180,658.656
1997	5	935,428.641	107,599.109	118,755.239	6,382.250	891,421.210	0.000	0.000	0.000	0.000
1997	6	934,914.824	107,599.109	18,634.593	48,899.788	909,914.579	0.000	0.000	0.000	0.000
1997	7	1,201,763.713	107,599.109	0.000	227,364.590	886,132.346	0.000	0.000	0.000	0.000
1997	8	1,230,945.822	107,599.109	0.000	269,034.803	854,311.910	0.000	0.000	0.000	0.000
1997	9	1,058,345.544	107,599.109	0.000	151,317.249	895,722.523	0.000	0.000	0.000	0.000
1997	10	894,156.847	107,599.109	19,092.813	46,543.444	898,511.301	0.000	0.000	0.000	0.000
1997	11	1,156,432.504	107,599.109	257,091.183	13,054.567	881,685.124	0.000	0.000	0.000	0.000
1997	12	1,712,338.251	107,599.109	564,102.276	0.000	1,040,636.866	0.000	0.000	0.000	0.000
1998	1	1,833,631.438	107,599.109	621,252.813	0.000	1,068,817.078	35,962.437	0.000	0.000	0.000
1998	2	1,580,000.768	107,599.109	588,836.852	0.000	945,533.256	0.000	-61,968.449	0.000	0.000
1998	3	1,411,987.504	107,599.109	465,425.181	29.549	919,695.141	0.000	0.000	-80,761.477	0.000
1998	4	1,170,933.658	107,599.109	279,443.314	38,548.876	926,001.016	0.000	0.000	0.000	-180,658.656
1998	5	884,605.128	107,599.109	41,462.419	21,404.285	902,868.481	0.000	0.000	0.000	0.000
1998	6	1,008,386.338	107,599.109	955.619	127,852.778	922,112.077	0.000	0.000	0.000	0.000
1998	7	1,255,881.603	107,599.109	410.635	270,712.129	896,492.062	0.000	0.000	0.000	0.000
1998	8	1,240,572.464	107,599.109	0.000	268,448.734	864,524.621	0.000	0.000	0.000	0.000
1998	9	1,189,044.132	107,599.109	0.000	270,220.949	907,517.410	0.000	0.000	0.000	0.000
1998	10	1,008,552.233	107,599.109	7,719.030	161,913.334	908,910.580	0.000	0.000	0.000	0.000
1998	11	1,093,737.577	107,599.109	154,651.809	11,841.063	922,643.075	0.000	0.000	0.000	0.000
1998	12	1,472,440.277	107,599.109	325,618.466	2,761.134	1,036,461.568	0.000	0.000	0.000	0.000
1999	1	2,084,348.972	107,599.109	859,219.921	1,207.994	1,080,359.511	35,962.437	0.000	0.000	0.000
1999	2	1,536,064.185	107,599.109	535,661.326	0.000	954,772.199	0.000	-61,968.449	0.000	0.000
1999	3	1,586,713.120	107,599.109	631,264.380	0.000	928,611.107	0.000	0.000	-80,761.477	0.000
1999	4	1,207,087.831	107,599.109	336,114.803	8,773.957	935,258.619	0.000	0.000	0.000	-180,658.656
1999	5	899,645.866	107,599.109	40,243.256	29,501.171	911,031.497	0.000	0.000	0.000	0.000
1999	6	1,030,224.816	107,599.109	0.000	142,672.601	930,086.352	0.000	0.000	0.000	0.000
1999	7	1,320,729.606	107,599.109	0.000	327,777.154	904,685.675	0.000	0.000	0.000	0.000
1999	8	1,371,386.450	107,599.109	0.000	391,076.573	872,710.768	0.000	0.000	0.000	0.000
1999	9	1,133,376.008	107,599.109	167.207	206,467.414	915,435.615	0.000	0.000	0.000	0.000
1999	10	907,456.216	107,599.109	18,220.323	42,013.745	917,212.858	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr
1999	11	1,088,635.711	107,599.109	150,669.688	2,330.506	931,033.886	0.000	0.000	0.000	0.000
1999	12	1,558,478.892	107,599.109	404,978.815	0.000	1,045,900.968	0.000	0.000	0.000	0.000
2000	1	1,998,145.629	107,599.109	764,727.135	0.000	1,089,856.947	35,962.437	0.000	0.000	0.000
2000	2	1,914,323.520	107,599.109	905,843.032	0.000	962,849.828	0.000	-61,968.449	0.000	0.000
2000	3	1,313,373.417	107,599.109	347,360.003	1,832.438	937,343.344	0.000	0.000	-80,761.477	0.000
2000	4	1,074,683.800	107,599.109	197,589.323	4,383.293	945,770.731	0.000	0.000	0.000	-180,658.656
2000	5	959,759.384	107,599.109	73,077.798	47,408.930	920,402.713	0.000	0.000	0.000	0.000
2000	6	1,035,539.758	107,599.109	173,530	137,749.627	940,150.737	0.000	0.000	0.000	0.000
2000	7	1,251,171.192	107,599.109	0.000	248,374.387	914,530.028	0.000	0.000	0.000	0.000
2000	8	1,199,061.099	107,599.109	0.000	209,505.301	881,956.688	0.000	0.000	0.000	0.000
2000	9	1,125,911.606	107,599.109	855.799	188,614.012	925,136.022	0.000	0.000	0.000	0.000
2000	10	966,861.700	107,599.109	46,223.871	63,766.623	926,861.915	0.000	0.000	0.000	0.000
2000	11	1,111,840.368	107,599.109	157,310.928	8,782.230	941,145.579	0.000	0.000	0.000	0.000
2000	12	1,927,534.403	107,599.109	763,844.605	0.000	1,056,090.689	0.000	0.000	0.000	0.000
2001	1	2,426,754.354	107,599.109	1,182,951.097	0.000	1,100,241.710	35,962.437	0.000	0.000	0.000
2001	2	1,837,032.881	107,599.109	819,078.645	0.000	972,323.576	0.000	-61,968.449	0.000	0.000
2001	3	1,539,507.748	107,599.109	565,623.557	0.000	947,046.559	0.000	0.000	-80,761.477	0.000
2001	4	1,316,175.232	107,599.109	399,321.966	35,408.720	954,504.093	0.000	0.000	0.000	-180,658.656
2001	5	986,864.389	107,599.109	60,668.024	78,242.440	929,083.984	0.000	0.000	0.000	0.000
2001	6	997,662.838	107,599.109	3,723.548	87,400.847	949,072.579	0.000	0.000	0.000	0.000
2001	7	1,227,632.933	107,599.109	0.000	215,425.975	923,940.180	0.000	0.000	0.000	0.000
2001	8	1,300,656.083	107,599.109	0.000	301,820.062	891,236.911	0.000	0.000	0.000	0.000
2001	9	1,189,764.519	107,599.109	175.108	243,246.385	935,037.254	0.000	0.000	0.000	0.000
2001	10	961,668.271	107,599.109	35,605.150	58,258.878	937,794.952	0.000	0.000	0.000	0.000
2001	11	1,144,363.264	107,599.109	170,484.916	17,088.932	952,187.786	0.000	0.000	0.000	0.000
2001	12	1,421,024.460	107,599.109	243,494.891	593.191	1,069,337.269	0.000	0.000	0.000	0.000
2002	1	2,112,963.277	107,599.109	850,748.403	0.000	1,118,653.327	35,962.437	0.000	0.000	0.000
2002	2	1,662,372.891	107,599.109	627,545.336	0.000	989,196.895	0.000	-61,968.449	0.000	0.000
2002	3	1,541,649.135	107,599.109	550,550.044	1,063.902	963,197.557	0.000	0.000	-80,761.477	0.000
2002	4	1,217,590.076	107,599.109	303,067.652	16,672.509	970,909.462	0.000	0.000	0.000	-180,658.656
2002	5	992,317.817	107,599.109	79,968.984	47,116.679	946,362.211	0.000	0.000	0.000	0.000
2002	6	1,100,191.805	107,599.109	47,875.417	128,646.877	966,203.647	0.000	0.000	0.000	0.000
2002	7	1,319,751.125	107,599.109	0.000	291,504.404	939,979.944	0.000	0.000	0.000	0.000
2002	8	1,370,233.750	107,599.109	0.000	355,952.384	906,682.256	0.000	0.000	0.000	0.000
2002	9	1,288,854.078	107,599.109	0.000	325,907.802	951,640.504	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr
2002	10	1,029,195.847	107,599.109	17,312.840	128,879.894	952,993.823	0.000	0.000	0.000	0.000
2002	11	1,195,901.275	107,599.109	211,177.104	12,698.659	967,423.882	0.000	0.000	0.000	0.000
2002	12	1,889,469.009	107,599.109	693,717.081	1,839.188	1,086,313.630	0.000	0.000	0.000	0.000
2003	1	2,129,497.171	107,599.109	854,934.491	0.000	1,131,001.134	35,962.437	0.000	0.000	0.000
2003	2	2,113,485.244	107,599.109	1,068,072.808	0.000	999,781.776	0.000	-61,968.449	0.000	0.000
2003	3	1,711,641.395	107,599.109	710,950.562	0.000	973,853.200	0.000	0.000	-80,761.477	0.000
2003	4	1,117,318.510	107,599.109	193,497.528	14,277.374	982,603.156	0.000	0.000	0.000	-180,658.656
2003	5	952,563.710	107,599.109	41,486.428	35,261.471	956,945.869	0.000	0.000	0.000	0.000
2003	6	984,805.398	107,599.109	0.000	49,869.776	977,469.759	0.000	0.000	0.000	0.000
2003	7	1,248,507.249	107,599.109	0.000	207,880.872	952,359.600	0.000	0.000	0.000	0.000
2003	8	1,252,167.438	107,599.109	0.000	235,958.643	908,609.685	0.000	0.000	0.000	0.000
2003	9	1,215,705.339	107,599.109	0.000	237,019.874	967,379.693	0.000	0.000	0.000	0.000
2003	10	978,686.295	107,599.109	48,607.581	33,693.793	966,375.631	0.000	0.000	0.000	0.000
2003	11	1,119,368.022	107,599.109	132,512.521	7,829.404	974,424.467	0.000	0.000	0.000	0.000
2003	12	1,712,925.588	107,599.109	510,755.770	977.548	1,093,593.161	0.000	0.000	0.000	0.000
2004	1	2,146,261.778	107,599.109	858,047.430	798.345	1,143,854.457	35,962.437	0.000	0.000	0.000
2004	2	2,043,781.413	107,599.109	987,445.009	237.700	1,010,468.044	0.000	-61,968.449	0.000	0.000
2004	3	1,579,595.872	107,599.109	565,878.734	2,110.763	984,768.743	0.000	0.000	-80,761.477	0.000
2004	4	1,275,175.042	107,599.109	326,973.694	12,226.452	1,009,034.443	0.000	0.000	0.000	-180,658.656
2004	5	1,026,752.689	107,599.109	78,563.006	65,967.691	963,352.049	0.000	0.000	0.000	0.000
2004	6	1,148,739.481	107,599.109	5,726.126	190,343.623	995,203.869	0.000	0.000	0.000	0.000
2004	7	1,293,674.597	107,599.109	0.000	239,937.026	965,470.794	0.000	0.000	0.000	0.000
2004	8	1,258,754.802	107,599.109	0.000	226,237.072	924,918.621	0.000	0.000	0.000	0.000
2004	9	1,175,509.591	107,599.109	0.000	203,427.672	960,776.147	0.000	0.000	0.000	0.000
2004	10	982,629.880	107,599.109	13,451.614	60,080.818	979,088.158	0.000	0.000	0.000	0.000
2004	11	1,084,706.589	107,599.109	85,080.858	11,766.195	983,257.905	0.000	0.000	0.000	0.000
2004	12	1,668,269.068	107,599.109	437,975.833	1,908.610	1,120,785.516	0.000	0.000	0.000	0.000
2005	1	2,050,046.260	107,599.109	756,608.107	0.000	1,149,876.607	35,962.437	0.000	0.000	0.000
2005	2	1,881,329.945	107,599.109	815,051.610	0.000	1,020,647.675	0.000	-61,968.449	0.000	0.000
2005	3	1,720,647.447	107,599.109	691,828.068	0.000	1,001,981.746	0.000	0.000	-80,761.477	0.000
2005	4	1,286,733.383	107,599.109	333,898.001	5,464.434	1,020,430.496	0.000	0.000	0.000	-180,658.656
2005	5	998,838.149	107,599.109	93,037.056	19,401.990	967,529.161	0.000	0.000	0.000	0.000
2005	6	1,082,988.238	107,599.109	13,264.114	118,438.119	993,820.141	0.000	0.000	0.000	0.000
2005	7	1,385,814.029	107,599.109	0.000	332,639.741	964,907.511	0.000	0.000	0.000	0.000
2005	8	1,471,512.233	107,599.109	0.000	415,806.318	948,106.806	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr
2005	9	1,313,588.999	107,599.109	0.000	320,387.408	981,895.819	0.000	0.000	0.000	0.000
2005	10	1,055,381.308	107,599.109	7,924.746	142,888.402	974,558.870	0.000	0.000	0.000	0.000
2005	11	1,220,119.019	107,599.109	201,313.000	9,069.196	1,005,135.193	0.000	0.000	0.000	0.000
2005	12	1,958,148.413	107,599.109	738,865.250	1,444.546	1,110,239.507	0.000	0.000	0.000	0.000
2006	1	2,064,768.759	107,599.109	761,084.529	0.000	1,160,122.683	35,962.437	0.000	0.000	0.000
2006	2	1,649,052.150	107,599.109	578,459.101	0.000	1,024,962.390	0.000	-61,968.449	0.000	0.000
2006	3	1,647,226.437	107,599.109	636,176.460	1,194.808	983,017.536	0.000	0.000	-80,761.477	0.000
2006	4	1,240,444.298	107,599.109	331,732.512	14,445.253	967,326.080	0.000	0.000	0.000	-180,658.656
2006	5	962,113.424	107,599.109	28,257.276	25,275.962	989,710.243	0.000	0.000	0.000	0.000
2006	6	1,053,589.661	107,599.109	5,577.973	97,676.530	992,869.294	0.000	0.000	0.000	0.000
2006	7	1,296,748.896	107,599.109	0.000	239,462.909	969,019.210	0.000	0.000	0.000	0.000
2006	8	1,401,750.115	107,599.109	0.000	362,082.434	932,068.572	0.000	0.000	0.000	0.000
2006	9	1,239,805.988	107,599.109	1,316.260	240,524.728	986,659.228	0.000	0.000	0.000	0.000
2006	10	1,011,823.214	107,599.109	53,728.934	33,398.632	994,686.359	0.000	0.000	0.000	0.000
2006	11	1,287,174.617	107,599.109	288,397.691	2,244.732	991,930.564	0.000	0.000	0.000	0.000
2006	12	1,716,230.414	107,599.109	497,505.065	2,566.459	1,108,559.780	0.000	0.000	0.000	0.000
2007	1	1,847,280.303	107,599.109	550,429.687	290.972	1,152,998.098	35,962.437	0.000	0.000	0.000
2007	2	2,214,653.080	107,599.109	985,387.749	0.000	1,014,794.595	0.000	-61,968.449	0.000	0.000
2007	3	1,854,098.627	107,599.109	827,473.568	1,975.210	997,812.217	0.000	0.000	-80,761.477	0.000
2007	4	1,290,394.100	107,599.109	302,131.688	27,183.099	1,034,138.860	0.000	0.000	0.000	-180,658.656
2007	5	1,063,595.166	107,599.109	110,744.646	45,838.522	988,142.055	0.000	0.000	0.000	0.000
2007	6	1,112,842.723	107,599.109	4,627.911	164,635.323	986,113.625	0.000	0.000	0.000	0.000
2007	7	1,305,500.762	107,599.109	0.000	263,360.515	953,873.470	0.000	0.000	0.000	0.000
2007	8	1,353,303.819	107,599.109	0.000	304,042.134	941,662.576	0.000	0.000	0.000	0.000
2007	9	1,338,697.957	107,599.109	0.000	345,223.784	982,168.400	0.000	0.000	0.000	0.000
2007	10	1,077,058.276	107,599.109	9,198.468	156,304.245	981,546.274	0.000	0.000	0.000	0.000
2007	11	1,233,061.687	107,599.109	182,257.105	26,891.900	1,019,311.052	0.000	0.000	0.000	0.000
2007	12	1,779,153.743	107,599.109	555,794.696	0.000	1,115,759.938	0.000	0.000	0.000	0.000
2008	1	2,093,717.242	107,599.109	773,876.934	0.000	1,152,607.403	35,962.437	0.000	0.000	0.000
2008	2	1,927,818.163	107,599.109	842,040.532	0.000	1,016,475.612	0.000	-61,968.449	0.000	0.000
2008	3	1,767,041.836	107,599.109	716,622.604	0.000	999,910.240	0.000	0.000	-80,761.477	0.000
2008	4	1,317,503.471	107,599.109	338,012.797	1,307.859	1,027,571.004	0.000	0.000	0.000	-180,658.656
2008	5	994,725.744	107,599.109	71,660.260	16,273.406	964,250.776	0.000	0.000	0.000	0.000
2008	6	1,081,137.006	107,599.109	5,152.041	101,443.042	993,404.700	0.000	0.000	0.000	0.000
2008	7	1,284,580.430	107,599.109	0.000	208,283.178	964,359.116	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr
2008	8	1,328,603.810	107,599.109	0.000	247,669.066	949,664.276	0.000	0.000	0.000	0.000
2008	9	1,246,874.159	107,599.109	0.000	233,611.157	978,285.871	0.000	0.000	0.000	0.000
2008	10	1,031,099.648	107,599.109	11,955.005	88,554.970	976,909.025	0.000	0.000	0.000	0.000
2008	11	1,226,561.320	107,599.109	195,023.345	10,510.109	992,754.877	0.000	0.000	0.000	0.000
2008	12	1,800,135.671	107,599.109	553,609.376	1,655.352	1,113,600.474	0.000	0.000	0.000	0.000
2009	1	2,211,711.211	107,599.109	898,384.209	355.358	1,145,738.738	35,962.437	0.000	0.000	0.000
2009	2	1,958,950.051	107,599.109	877,156.874	39.447	1,012,451.711	0.000	-61,968.449	0.000	0.000
2009	3	1,668,647.614	107,599.109	630,498.894	1,062.936	986,576.793	0.000	0.000	-80,761.477	0.000
2009	4	1,282,686.519	107,599.109	325,867.805	11,033.665	995,173.236	0.000	0.000	0.000	-180,658.656
2009	5	1,031,018.250	107,599.109	81,998.108	36,829.727	969,649.113	0.000	0.000	0.000	0.000
2009	6	1,098,633.251	107,599.109	9,145.946	117,920.257	990,429.826	0.000	0.000	0.000	0.000
2009	7	1,322,529.108	107,599.109	46.525	247,965.886	962,578.560	0.000	0.000	0.000	0.000
2009	8	1,347,632.206	107,599.109	0.000	289,319.984	927,041.754	0.000	0.000	0.000	0.000
2009	9	1,242,532.301	107,599.109	350.273	234,572.061	972,632.836	0.000	0.000	0.000	0.000
2009	10	1,033,326.961	107,599.109	32,023.577	74,430.509	973,192.226	0.000	0.000	0.000	0.000
2009	11	1,219,726.079	107,599.109	194,274.066	10,378.436	986,800.588	0.000	0.000	0.000	0.000
2009	12	1,791,368.440	107,599.109	551,590.923	1,634.868	1,106,872.181	0.000	0.000	0.000	0.000
2010	1	2,195,991.733	107,599.109	897,082.131	351.881	1,131,324.816	35,962.437	0.000	0.000	0.000
2010	2	1,946,107.713	107,599.109	876,292.328	39.078	1,000,474.288	0.000	-61,968.449	0.000	0.000
2010	3	1,657,490.957	107,599.109	630,273.854	1,053.501	975,654.609	0.000	0.000	-80,761.477	0.000
2010	4	1,273,828.549	107,599.109	326,487.172	10,959.890	985,769.675	0.000	0.000	0.000	-180,658.656
2010	5	1,022,458.282	107,599.109	82,151.000	36,582.410	961,183.571	0.000	0.000	0.000	0.000
2010	6	1,090,043.528	107,599.109	9,162.293	117,120.969	982,623.044	0.000	0.000	0.000	0.000
2010	7	1,314,430.524	107,599.109	46.674	246,643.261	955,802.452	0.000	0.000	0.000	0.000
2010	8	1,339,432.590	107,599.109	0.000	287,828.925	920,333.197	0.000	0.000	0.000	0.000
2010	9	1,234,039.765	107,599.109	351.552	233,410.392	965,300.690	0.000	0.000	0.000	0.000
2010	10	1,025,387.288	107,599.109	32,170.355	74,130.768	965,405.516	0.000	0.000	0.000	0.000
2010	11	1,211,856.926	107,599.109	195,152.107	10,336.079	978,095.751	0.000	0.000	0.000	0.000
2010	12	1,784,049.447	107,599.109	554,240.412	1,628.582	1,096,909.985	0.000	0.000	0.000	0.000
2011	1	2,191,827.362	107,599.109	901,902.931	351.076	1,122,340.449	35,962.437	0.000	0.000	0.000
2011	2	1,943,985.252	107,599.109	881,300.881	39.002	993,343.350	0.000	-61,968.449	0.000	0.000
2011	3	1,652,221.321	107,599.109	633,073.228	1,050.171	967,588.930	0.000	0.000	-80,761.477	0.000
2011	4	1,267,115.903	107,599.109	327,828.745	10,922.095	977,753.251	0.000	0.000	0.000	-180,658.656
2011	5	1,016,011.965	107,599.109	82,517.550	36,469.579	954,483.534	0.000	0.000	0.000	0.000
2011	6	1,083,868.000	107,599.109	9,204.957	116,779.647	976,746.173	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr
2011	7	1,308,954.217	107,599.109	46.924	246,072.657	950,896.500	0.000	0.000	0.000	0.000
2011	8	1,333,958.740	107,599.109	0.000	287,221.777	915,466.495	0.000	0.000	0.000	0.000
2011	9	1,227,942.653	107,599.109	353.499	232,913.528	959,698.495	0.000	0.000	0.000	0.000
2011	10	1,019,339.724	107,599.109	32,362.465	73,995.613	959,300.997	0.000	0.000	0.000	0.000
2011	11	1,205,954.714	107,599.109	196,295.785	10,316.247	971,069.692	0.000	0.000	0.000	0.000
2011	12	1,778,793.252	107,599.109	557,428.740	1,625.307	1,088,468.736	0.000	0.000	0.000	0.000
2012	1	2,189,197.762	107,599.109	907,183.187	350.702	1,114,430.968	35,962.437	0.000	0.000	0.000
2012	2	1,942,213.667	107,599.109	886,329.375	38.956	986,543.317	0.000	-61,968.449	0.000	0.000
2012	3	1,649,330.951	107,599.109	636,592.092	1,048.782	961,181.085	0.000	0.000	-80,761.477	0.000
2012	4	1,262,756.925	107,599.109	329,596.387	10,906.002	971,642.725	0.000	0.000	0.000	-180,658.656
2012	5	1,010,989.988	107,599.109	82,953.218	36,412.280	949,083.189	0.000	0.000	0.000	0.000
2012	6	1,078,911.302	107,599.109	9,252.508	116,584.590	971,936.981	0.000	0.000	0.000	0.000
2012	7	1,303,899.626	107,599.109	47.152	245,590.042	946,324.296	0.000	0.000	0.000	0.000
2012	8	1,328,642.053	107,599.109	0.000	286,641.657	910,729.927	0.000	0.000	0.000	0.000
2012	9	1,221,944.342	107,599.109	355.174	232,429.850	954,182.186	0.000	0.000	0.000	0.000
2012	10	1,012,881.657	107,599.109	32,506.302	73,820.659	952,874.046	0.000	0.000	0.000	0.000
2012	11	1,199,512.680	107,599.109	197,158.414	10,291.398	963,789.879	0.000	0.000	0.000	0.000
2012	12	1,772,551.655	107,599.109	559,852.314	1,621.324	1,079,807.549	0.000	0.000	0.000	0.000
2013	1	2,186,142.767	107,599.109	910,789.050	350.059	1,107,770.752	35,962.437	0.000	0.000	0.000
2013	2	1,939,760.688	107,599.109	889,651.129	38.877	980,768.663	0.000	-61,968.449	0.000	0.000
2013	3	1,646,073.212	107,599.109	638,829.704	1,046.479	955,688.038	0.000	0.000	0.000	-180,658.656
2013	4	1,258,190.561	107,599.109	330,567.097	10,876.384	966,135.268	0.000	0.000	0.000	0.000
2013	5	1,006,124.470	107,599.109	83,179.074	36,307.070	944,097.024	0.000	0.000	0.000	0.000
2013	6	1,073,966.417	107,599.109	9,275.424	116,225.351	967,328.419	0.000	0.000	0.000	0.000
2013	7	1,298,503.033	107,599.109	47.245	244,725.788	941,791.864	0.000	0.000	0.000	0.000
2013	8	1,322,908.031	107,599.109	0.000	285,584.529	906,053.034	0.000	0.000	0.000	0.000
2013	9	1,215,651.815	107,599.109	355.730	231,536.838	948,782.116	0.000	0.000	0.000	0.000
2013	10	1,006,409.201	107,599.109	32,544.981	73,513.499	946,670.073	0.000	0.000	0.000	0.000
2013	11	1,192,714.213	107,599.109	197,357.981	10,247.183	956,836.060	0.000	0.000	0.000	0.000
2013	12	1,764,711.120	107,599.109	560,310.043	1,614.117	1,071,516.492	0.000	0.000	0.000	0.000
2014	1	2,177,989.636	107,599.109	911,404.256	348.844	1,099,003.630	35,962.437	0.000	0.000	0.000
2014	2	1,932,942.739	107,599.109	890,276.291	38.743	973,325.687	0.000	-61,968.449	0.000	0.000
2014	3	1,639,616.275	107,599.109	639,299.639	1,042.907	948,764.738	0.000	0.000	-80,761.477	0.000
2014	4	1,251,730.237	107,599.109	330,781.594	10,838.294	959,498.538	0.000	0.000	0.000	-180,658.656
2014	5	1,000,170.297	107,599.109	83,236.253	36,181.172	938,211.571	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr
2014	6	1,068,285.288	107,599.109	9,282.278	115,827.494	962,038.294	0.000	0.000	0.000	0.000
2014	7	1,292,763.159	107,599.109	47.279	243,881.438	936,896.306	0.000	0.000	0.000	0.000
2014	8	1,317,050.935	107,599.109	0.000	284,612.545	901,167.922	0.000	0.000	0.000	0.000
2014	9	1,209,359.637	107,599.109	356.024	230,759.622	943,266.859	0.000	0.000	0.000	0.000
2014	10	1,000,029.862	107,599.109	32,571.196	73,264.427	940,513.590	0.000	0.000	0.000	0.000
2014	11	1,186,035.807	107,599.109	197,526.742	10,212.903	950,023.174	0.000	0.000	0.000	0.000
2014	12	1,757,217.632	107,599.109	560,818.892	1,608.791	1,063,519.481	0.000	0.000	0.000	0.000
2015	1	2,173,540.794	107,599.109	912,165.755	348.056	1,093,794.077	35,962.437	0.000	0.000	0.000
2015	2	1,929,340.045	107,599.109	891,042.337	38.657	968,957.032	0.000	-61,968.449	0.000	0.000
2015	3	1,636,175.630	107,599.109	639,866.196	1,040.603	944,759.839	0.000	0.000	-80,761.477	0.000
2015	4	1,248,245.211	107,599.109	331,064.588	10,814.030	955,754.781	0.000	0.000	0.000	-180,658.656
2015	5	996,942.554	107,599.109	83,309.580	36,101.127	934,990.546	0.000	0.000	0.000	0.000
2015	6	1,065,267.180	107,599.109	9,290.683	115,574.319	959,264.955	0.000	0.000	0.000	0.000
2015	7	1,289,714.710	107,599.109	47.320	243,337.033	934,392.221	0.000	0.000	0.000	0.000
2015	8	1,313,893.537	107,599.109	0.000	283,984.564	898,638.505	0.000	0.000	0.000	0.000
2015	9	1,205,909.192	107,599.109	356.344	230,256.225	940,319.492	0.000	0.000	0.000	0.000
2015	10	996,477.947	107,599.109	32,599.907	73,103.903	937,093.488	0.000	0.000	0.000	0.000
2015	11	1,182,291.157	107,599.109	197,704.744	10,190.789	946,122.635	0.000	0.000	0.000	0.000
2015	12	1,753,060.416	107,599.109	561,336.009	1,605.351	1,058,848.588	0.000	0.000	0.000	0.000
2016	1	2,171,398.547	107,599.109	913,011.834	347.737	1,090,806.071	35,962.437	0.000	0.000	0.000
2016	2	1,927,790.598	107,599.109	891,912.186	38.623	966,537.769	0.000	-61,968.449	0.000	0.000
2016	3	1,634,707.900	107,599.109	640,522.819	1,039.750	942,636.339	0.000	0.000	-80,761.477	0.000
2016	4	1,246,787.595	107,599.109	331,429.487	10,805.968	953,940.329	0.000	0.000	0.000	-180,658.656
2016	5	995,622.874	107,599.109	83,405.681	36,075.962	933,599.929	0.000	0.000	0.000	0.000
2016	6	1,064,238.034	107,599.109	9,301.963	115,500.164	958,298.685	0.000	0.000	0.000	0.000
2016	7	1,288,919.153	107,599.109	47.382	243,202.802	933,730.833	0.000	0.000	0.000	0.000
2016	8	1,313,047.763	107,599.109	0.000	283,844.215	897,933.080	0.000	0.000	0.000	0.000
2016	9	1,204,840.942	107,599.109	356.857	230,155.601	939,351.353	0.000	0.000	0.000	0.000
2016	10	995,200.127	107,599.109	32,649.646	73,077.706	935,792.126	0.000	0.000	0.000	0.000
2016	11	1,180,936.622	107,599.109	198,019.563	10,187.737	944,456.333	0.000	0.000	0.000	0.000
2016	12	1,751,884.968	107,599.109	562,269.172	1,604.969	1,056,740.359	0.000	0.000	0.000	0.000
2017	1	2,169,180.484	107,599.109	914,031.236	347.932	1,087,568.411	35,962.437	0.000	0.000	0.000
2017	2	1,926,207.629	107,599.109	892,955.737	38.647	963,911.227	0.000	-61,968.449	0.000	0.000
2017	3	1,633,186.510	107,599.109	641,311.093	1,040.434	940,325.992	0.000	0.000	-80,761.477	0.000
2017	4	1,245,211.854	107,599.109	331,848.578	10,813.321	951,938.143	0.000	0.000	0.000	-180,658.656

Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr
2017	5	994,217.649	107,599.109	83,515.936	36,102.220	932,058.192	0.000	0.000	0.000	0.000
2017	6	1,063,257.346	107,599.109	9,314.762	115,589.348	957,216.013	0.000	0.000	0.000	0.000
2017	7	1,288,273.535	107,599.109	47,447	243,389.295	932,898.656	0.000	0.000	0.000	0.000
2017	8	1,312,383.285	107,599.109	0.000	284,073.607	897,039.209	0.000	0.000	0.000	0.000
2017	9	1,203,829.878	107,599.109	357.386	230,350.889	938,144.473	0.000	0.000	0.000	0.000
2017	10	993,653.362	107,599.109	32,697.699	73,138.154	934,136.860	0.000	0.000	0.000	0.000
2017	11	1,179,176.330	107,599.109	198,320.393	10,196.534	942,386.413	0.000	0.000	0.000	0.000
2017	12	1,750,175.760	107,599.109	563,149.224	1,606.410	1,054,149.657	0.000	0.000	0.000	0.000
2018	1	2,168,724.230	107,599.109	915,598.266	348.613	1,085,544.446	35,962.437	0.000	0.000	0.000
2018	2	1,926,196.418	107,599.109	894,515.061	38.723	962,340.615	0.000	-61,968.449	0.000	0.000
2018	3	1,633,024.193	107,599.109	642,450.748	1,042.518	939,021.936	0.000	0.000	-80,761.477	0.000
2018	4	1,244,746.508	107,599.109	332,424.502	10,834.445	950,875.749	0.000	0.000	0.000	-180,658.656
2018	5	993,788.360	107,599.109	83,663.028	36,173.403	931,410.627	0.000	0.000	0.000	0.000
2018	6	1,063,315.501	107,599.109	9,331.426	115,819.526	957,027.327	0.000	0.000	0.000	0.000
2018	7	1,288,763.335	107,599.109	47,531	243,865.403	932,912.265	0.000	0.000	0.000	0.000
2018	8	1,312,862.796	107,599.109	0.000	284,637.273	896,955.055	0.000	0.000	0.000	0.000
2018	9	1,203,926.646	107,599.109	358.044	230,814.408	937,777.063	0.000	0.000	0.000	0.000
2018	10	993,058.305	107,599.109	32,757.753	73,284.071	933,335.832	0.000	0.000	0.000	0.000
2018	11	1,178,365.769	107,599.109	198,694.064	10,217.225	941,181.490	0.000	0.000	0.000	0.000
2018	12	1,749,643.117	107,599.109	564,236.959	1,609.724	1,052,525.965	0.000	0.000	0.000	0.000
2019	1	2,169,444.876	107,599.109	917,460.856	349.621	1,084,401.494	35,962.437	0.000	0.000	0.000
2019	2	1,927,268.417	107,599.109	896,373.523	38.836	961,554.038	0.000	-61,968.449	0.000	0.000
2019	3	1,633,852.847	107,599.109	643,812.997	1,045.595	938,485.264	0.000	0.000	-80,761.477	0.000
2019	4	1,245,251.942	107,599.109	333,133.522	10,866.427	950,640.180	0.000	0.000	0.000	-180,658.656
2019	5	994,238.116	107,599.109	83,844.598	36,281.107	931,571.110	0.000	0.000	0.000	0.000
2019	6	1,064,314.150	107,599.109	9,351.927	116,166.364	957,658.636	0.000	0.000	0.000	0.000
2019	7	1,290,344.499	107,599.109	47,636	244,596.635	933,762.092	0.000	0.000	0.000	0.000
2019	8	1,314,433.287	107,599.109	0.000	285,493.859	897,668.960	0.000	0.000	0.000	0.000
2019	9	1,205,084.696	107,599.109	358.848	231,511.570	938,237.146	0.000	0.000	0.000	0.000
2019	10	993,402.319	107,599.109	32,831.593	73,505.481	933,384.596	0.000	0.000	0.000	0.000
2019	11	1,178,489.233	107,599.109	199,144.922	10,248.170	940,823.152	0.000	0.000	0.000	0.000
2019	12	1,750,235.864	107,599.109	565,522.528	1,614.604	1,051,828.263	0.000	0.000	0.000	0.000
2020	1	2,171,659.033	107,599.109	919,795.430	350.519	1,084,280.179	35,962.437	0.000	0.000	0.000
2020	2	1,929,672.448	107,599.109	898,673.663	38.937	961,657.829	0.000	-61,968.449	0.000	0.000
2020	3	1,635,830.100	107,599.109	645,473.483	1,048.306	938,799.320	0.000	0.000	-80,761.477	0.000

Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr
2020	4	1,246,767.894	107,599.109	333,999.038	10,894.774	951,262.270	0.000	0.000	0.000	-180,658.656
2020	5	995,525.530	107,599.109	84,063.101	36,375.953	932,545.174	0.000	0.000	0.000	0.000
2020	6	1,066,084.927	107,599.109	9,376.382	116,470.837	959,100.485	0.000	0.000	0.000	0.000
2020	7	1,292,626.471	107,599.109	47.761	245,239.801	935,400.772	0.000	0.000	0.000	0.000
2020	8	1,316,666.267	107,599.109	0.000	286,246.323	899,149.476	0.000	0.000	0.000	0.000
2020	9	1,206,952.212	107,599.109	359.794	232,122.783	939,492.504	0.000	0.000	0.000	0.000
2020	10	994,504.370	107,599.109	32,918.467	73,700.263	934,204.991	0.000	0.000	0.000	0.000
2020	11	1,179,462.791	107,599.109	199,672.463	10,275.372	941,241.967	0.000	0.000	0.000	0.000
2020	12	1,751,892.332	107,599.109	567,020.620	1,618.894	1,051,982.350	0.000	0.000	0.000	0.000
2021	1	2,176,645.168	107,599.109	922,582.663	351.835	1,086,477.764	35,962.437	0.000	0.000	0.000
2021	2	1,934,522.279	107,599.109	901,423.214	39.084	963,757.962	0.000	-61,968.449	0.000	0.000
2021	3	1,640,037.486	107,599.109	647,468.614	1,052.295	941,007.585	0.000	0.000	-80,761.477	0.000
2021	4	1,250,325.028	107,599.109	335,049.053	10,936.762	953,727.401	0.000	0.000	0.000	-180,658.656
2021	5	998,597.027	107,599.109	84,330.338	36,517.240	935,208.147	0.000	0.000	0.000	0.000
2021	6	1,069,596.322	107,599.109	9,406.540	116,926.924	962,125.635	0.000	0.000	0.000	0.000
2021	7	1,296,768.470	107,599.109	47.918	246,219.020	938,563.395	0.000	0.000	0.000	0.000
2021	8	1,320,826.573	107,599.109	0.000	287,396.392	902,159.712	0.000	0.000	0.000	0.000
2021	9	1,210,864.947	107,599.109	361.000	233,060.523	942,466.293	0.000	0.000	0.000	0.000
2021	10	997,642.984	107,599.109	33,031.898	74,004.779	936,925.659	0.000	0.000	0.000	0.000
2021	11	1,182,681.969	107,599.109	200,363.912	10,317.993	943,727.074	0.000	0.000	0.000	0.000
2021	12	1,756,434.492	107,599.109	568,995.925	1,625.640	1,054,542.459	0.000	0.000	0.000	0.000
2022	1	2,183,895.562	107,599.109	925,712.574	353.600	1,090,596.483	35,962.437	0.000	0.000	0.000
2022	2	1,941,364.748	107,599.109	904,493.806	39.280	967,529.643	0.000	-61,968.449	0.000	0.000
2022	3	1,646,066.228	107,599.109	649,683.908	1,057.603	944,815.724	0.000	0.000	-80,761.477	0.000
2022	4	1,255,623.419	107,599.109	336,219.438	10,992.704	957,799.466	0.000	0.000	0.000	-180,658.656
2022	5	1,003,258.551	107,599.109	84,626.282	36,704.576	939,386.391	0.000	0.000	0.000	0.000
2022	6	1,074,741.166	107,599.109	9,439.741	117,528.917	966,635.286	0.000	0.000	0.000	0.000
2022	7	1,302,626.705	107,599.109	48.090	247,496.632	943,143.847	0.000	0.000	0.000	0.000
2022	8	1,326,712.286	107,599.109	0.000	288,892.623	906,549.195	0.000	0.000	0.000	0.000
2022	9	1,216,530.125	107,599.109	362.302	234,277.377	946,913.315	0.000	0.000	0.000	0.000
2022	10	1,002,323.360	107,599.109	33,150.920	74,390.829	941,100.963	0.000	0.000	0.000	0.000
2022	11	1,187,458.628	107,599.109	201,088.891	10,371.972	947,724.776	0.000	0.000	0.000	0.000
2022	12	1,762,782.632	107,599.109	571,064.891	1,634.172	1,058,813.101	0.000	0.000	0.000	0.000
2023	1	2,192,103.182	107,599.109	928,899.930	355.639	1,095,614.708	35,962.437	0.000	0.000	0.000
2023	2	1,949,039.185	107,599.109	907,613.715	39.507	972,083.944	0.000	-61,968.449	0.000	0.000

Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr
2023	3	1,652,876.548	107,599.109	651,930.551	1,063.720	949,373.286	0.000	0.000	-80,761.477	0.000
2023	4	1,261,577.203	107,599.109	337,364.152	11,055.685	962,545.554	0.000	0.000	0.000	-180,658.656
2023	5	1,008,574.781	107,599.109	84,915.644	36,915.370	944,202.466	0.000	0.000	0.000	0.000
2023	6	1,080,587.029	107,599.109	9,472.195	118,205.835	971,771.776	0.000	0.000	0.000	0.000
2023	7	1,309,175.561	107,599.109	48,253	248,909.886	948,279.285	0.000	0.000	0.000	0.000
2023	8	1,333,302.948	107,599.109	0.000	290,548.030	911,484.449	0.000	0.000	0.000	0.000
2023	9	1,222,916.149	107,599.109	363.548	235,624.618	951,950.850	0.000	0.000	0.000	0.000
2023	10	1,007,643.060	107,599.109	33,264.259	74,816.636	945,881.517	0.000	0.000	0.000	0.000
2023	11	1,192,848.729	107,599.109	201,782.317	10,431.590	952,361.833	0.000	0.000	0.000	0.000
2023	12	1,769,785.087	107,599.109	573,052.971	1,643.609	1,063,818.038	0.000	0.000	0.000	0.000
2024	1	2,201,088.006	107,599.109	932,024.473	357.870	1,101,472.757	35,962.437	0.000	0.000	0.000
2024	2	1,957,392.515	107,599.109	910,671.165	39.755	977,379.576	0.000	-61,968.449	0.000	0.000
2024	3	1,660,357.186	107,599.109	654,128.969	1,070.401	954,648.825	0.000	0.000	-80,761.477	0.000
2024	4	1,268,292.665	107,599.109	338,500.008	11,125.051	968,055.794	0.000	0.000	0.000	-180,658.656
2024	5	1,014,644.853	107,599.109	85,201.788	37,147.060	949,754.704	0.000	0.000	0.000	0.000
2024	6	1,087,234.929	107,599.109	9,504.111	118,947.645	977,645.950	0.000	0.000	0.000	0.000
2024	7	1,316,636.814	107,599.109	48.415	250,472.742	954,177.520	0.000	0.000	0.000	0.000
2024	8	1,340,786.757	107,599.109	0.000	292,371.855	917,144.434	0.000	0.000	0.000	0.000
2024	9	1,230,179.047	107,599.109	364.774	237,103.520	957,733.622	0.000	0.000	0.000	0.000
2024	10	1,013,782.542	107,599.109	33,376.740	75,287.030	951,438.124	0.000	0.000	0.000	0.000
2024	11	1,198,999.658	107,599.109	202,464.257	10,497.153	957,765.260	0.000	0.000	0.000	0.000
2024	12	1,777,563.229	107,599.109	574,987.183	1,653.932	1,069,651.646	0.000	0.000	0.000	0.000
2025	1	2,210,057.834	107,599.109	935,187.212	360.279	1,107,277.438	35,962.437	0.000	0.000	0.000
2025	2	1,965,719.755	107,599.109	913,759.016	40.023	982,618.697	0.000	-61,968.449	0.000	0.000
2025	3	1,667,790.365	107,599.109	656,344.413	1,077.599	959,859.361	0.000	0.000	-80,761.477	0.000
2025	4	1,274,948.465	107,599.109	339,640.806	11,199.689	973,496.158	0.000	0.000	0.000	-180,658.656
2025	5	1,020,651.629	107,599.109	85,488.527	37,396.126	955,225.675	0.000	0.000	0.000	0.000
2025	6	1,093,840.981	107,599.109	9,536.024	119,744.379	983,423.355	0.000	0.000	0.000	0.000
2025	7	1,324,070.403	107,599.109	48.576	252,137.786	959,945.905	0.000	0.000	0.000	0.000
2025	8	1,348,261.399	107,599.109	0.000	294,313.329	922,677.601	0.000	0.000	0.000	0.000
2025	9	1,237,401.902	107,599.109	365.974	238,676.591	963,382.205	0.000	0.000	0.000	0.000
2025	10	1,019,745.361	107,599.109	33,483.696	75,780.041	956,800.975	0.000	0.000	0.000	0.000
2025	11	1,204,928.503	107,599.109	203,111.673	10,565.826	962,978.014	0.000	0.000	0.000	0.000
2025	12	1,785,030.732	107,599.109	576,820.709	1,664.739	1,075,274.816	0.000	0.000	0.000	0.000
2026	1	2,219,288.370	107,599.109	938,126.893	362.737	1,113,565.835	35,962.437	0.000	0.000	0.000

Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr
2026	2	1,974,259.832	107,599.109	916,628.993	40.296	988,288.524	0.000	-61,968.449	0.000	0.000
2026	3	1,675,488.830	107,599.109	658,403.343	1,084.943	965,491.552	0.000	0.000	-80,761.477	0.000
2026	4	1,281,865.317	107,599.109	340,674.014	11,274.945	979,304.546	0.000	0.000	0.000	-180,658.656
2026	5	1,026,998.797	107,599.109	85,748.316	37,647.284	961,061.896	0.000	0.000	0.000	0.000
2026	6	1,100,831.516	107,599.109	9,564.948	120,547.943	989,581.403	0.000	0.000	0.000	0.000
2026	7	1,331,867.204	107,599.109	48,719	253,811.264	966,069.084	0.000	0.000	0.000	0.000
2026	8	1,356,089.761	107,599.109	0.000	296,265.044	928,554.249	0.000	0.000	0.000	0.000
2026	9	1,244,988.113	107,599.109	367.053	240,258.189	969,385.739	0.000	0.000	0.000	0.000
2026	10	1,026,081.258	107,599.109	33,580.777	76,278.546	962,541.287	0.000	0.000	0.000	0.000
2026	11	1,211,173.682	107,599.109	203,699.409	10,635.274	968,566.010	0.000	0.000	0.000	0.000
2026	12	1,792,742.698	107,599.109	578,485.458	1,675.669	1,081,311.102	0.000	0.000	0.000	0.000
2027	1	2,228,459.168	107,599.109	940,887.335	365.250	1,119,973.678	35,962.437	0.000	0.000	0.000
2027	2	1,982,738.837	107,599.109	919,327.565	40.575	994,068.677	0.000	-61,968.449	0.000	0.000
2027	3	1,683,178.778	107,599.109	660,342.139	1,092.460	971,235.188	0.000	0.000	-80,761.477	0.000
2027	4	1,288,939.138	107,599.109	341,678.948	11,353.110	985,295.267	0.000	0.000	0.000	-180,658.656
2027	5	1,033,533.816	107,599.109	86,001.431	37,908.330	967,082.752	0.000	0.000	0.000	0.000
2027	6	1,108,051.228	107,599.109	9,593.188	121,383.838	995,936.980	0.000	0.000	0.000	0.000
2027	7	1,340,000.721	107,599.109	48.864	255,573.626	972,440.095	0.000	0.000	0.000	0.000
2027	8	1,364,265.465	107,599.109	0.000	298,322.155	934,672.842	0.000	0.000	0.000	0.000
2027	9	1,252,914.916	107,599.109	368.141	241,926.513	975,643.130	0.000	0.000	0.000	0.000
2027	10	1,032,740.259	107,599.109	33,680.978	76,809.700	968,568.932	0.000	0.000	0.000	0.000
2027	11	1,217,735.390	107,599.109	204,307.431	10,709.334	974,445.636	0.000	0.000	0.000	0.000
2027	12	1,800,847.899	107,599.109	580,212.293	1,687.337	1,087,677.801	0.000	0.000	0.000	0.000
2028	1	2,238,179.053	107,599.109	943,678.113	367.814	1,126,900.221	35,962.437	0.000	0.000	0.000
2028	2	1,991,741.410	107,599.109	922,075.238	40.860	1,000,323.292	0.000	-61,968.449	0.000	0.000
2028	3	1,691,396.389	107,599.109	662,330.732	1,100.168	977,456.497	0.000	0.000	-80,761.477	0.000
2028	4	1,296,573.175	107,599.109	342,727.746	11,433.829	991,799.788	0.000	0.000	0.000	-180,658.656
2028	5	1,040,609.172	107,599.109	86,267.529	38,178.601	973,621.741	0.000	0.000	0.000	0.000
2028	6	1,115,853.298	107,599.109	9,623.123	122,251.804	1,002,841.148	0.000	0.000	0.000	0.000
2028	7	1,348,768.879	107,599.109	49,019	257,412.787	979,368.937	0.000	0.000	0.000	0.000
2028	8	1,373,085.918	107,599.109	0.000	300,474.935	941,340.514	0.000	0.000	0.000	0.000
2028	9	1,261,511.407	107,599.109	369.327	243,676.944	982,488.004	0.000	0.000	0.000	0.000
2028	10	1,040,041.587	107,599.109	33,791.155	77,368.852	975,200.931	0.000	0.000	0.000	0.000
2028	11	1,224,986.255	107,599.109	204,980.602	10,787.494	980,945.170	0.000	0.000	0.000	0.000
2028	12	1,809,860.133	107,599.109	582,138.736	1,699.686	1,094,751.243	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr
2029	1	2,248,191.693	107,599.109	946,879.085	370.555	1,133,709.148	35,962.437	0.000	0.000	0.000
2029	2	2,001,044.907	107,599.109	925,230.338	41.166	1,006,471.385	0.000	-61,968.449	0.000	0.000
2029	3	1,699,805.700	107,599.109	664,616.862	1,108.420	983,571.425	0.000	0.000	-80,761.477	0.000
2029	4	1,304,233.704	107,599.109	343,922.818	11,519.917	998,179.157	0.000	0.000	0.000	-180,658.656
2029	5	1,047,612.069	107,599.109	86,571.103	38,467.028	980,032.637	0.000	0.000	0.000	0.000
2029	6	1,123,580.297	107,599.109	9,657.318	123,178.691	1,009,607.065	0.000	0.000	0.000	0.000
2029	7	1,357,518.443	107,599.109	49.195	259,376.338	986,154.773	0.000	0.000	0.000	0.000
2029	8	1,381,919.277	107,599.109	0.000	302,774.754	947,874.055	0.000	0.000	0.000	0.000
2029	9	1,270,101.366	107,599.109	370.683	245,548.041	989,205.510	0.000	0.000	0.000	0.000
2029	10	1,047,283.918	107,599.109	33,917.127	77,966.605	981,719.538	0.000	0.000	0.000	0.000
2029	11	1,232,240.879	107,599.109	205,751.175	10,871.098	987,345.616	0.000	0.000	0.000	0.000
2029	12	1,819,060.457	107,599.109	584,346.657	1,712.902	1,101,730.429	0.000	0.000	0.000	0.000
2030	1	2,259,881.141	107,599.109	950,598.880	373.479	1,141,675.875	35,962.437	0.000	0.000	0.000
2030	2	2,011,868.107	107,599.109	928,891.538	41.492	1,013,633.058	0.000	-61,968.449	0.000	0.000
2030	3	1,709,554.863	107,599.109	667,265.638	1,117.216	990,663.017	0.000	0.000	-80,761.477	0.000
2030	4	1,313,060.323	107,599.109	345,307.310	11,611.722	1,005,529.479	0.000	0.000	0.000	-180,658.656
2030	5	1,055,606.700	107,599.109	86,922.222	38,774.491	987,368.685	0.000	0.000	0.000	0.000
2030	6	1,132,288.852	107,599.109	9,696.794	124,166.298	1,017,288.538	0.000	0.000	0.000	0.000
2030	7	1,367,262.615	107,599.109	49.398	261,464.022	993,811.058	0.000	0.000	0.000	0.000
2030	8	1,391,742.623	107,599.109	0.000	305,219.006	955,253.149	0.000	0.000	0.000	0.000
2030	9	1,279,713.068	107,599.109	372.235	247,535.919	996,827.782	0.000	0.000	0.000	0.000
2030	10	1,055,474.429	107,599.109	34,060.083	78,599.435	989,134.262	0.000	0.000	0.000	0.000
2030	11	1,240,531.211	107,599.109	206,624.529	10,959.589	994,674.104	0.000	0.000	0.000	0.000
2030	12	1,829,600.869	107,599.109	586,845.328	1,726.887	1,109,758.186	0.000	0.000	0.000	0.000
2031	1	2,271,364.513	107,599.109	954,953.348	376.470	1,148,801.790	35,962.437	0.000	0.000	0.000
2031	2	2,022,547.646	107,599.109	933,157.588	41.824	1,020,046.215	0.000	-61,968.449	0.000	0.000
2031	3	1,718,992.647	107,599.109	670,337.121	1,126.180	997,020.354	0.000	0.000	-80,761.477	0.000
2031	4	1,321,338.299	107,599.109	346,900.196	11,704.969	1,012,121.322	0.000	0.000	0.000	-180,658.656
2031	5	1,062,919.865	107,599.109	87,324.224	39,086.209	993,968.130	0.000	0.000	0.000	0.000
2031	6	1,140,268.018	107,599.109	9,741.736	125,165.369	1,024,223.690	0.000	0.000	0.000	0.000
2031	7	1,376,282.225	107,599.109	49.628	263,570.952	1,000,723.509	0.000	0.000	0.000	0.000
2031	8	1,400,848.836	107,599.109	0.000	307,680.371	961,897.997	0.000	0.000	0.000	0.000
2031	9	1,288,542.855	107,599.109	373.973	249,533.655	1,003,658.096	0.000	0.000	0.000	0.000
2031	10	1,062,886.987	107,599.109	34,219.913	79,235.541	995,750.884	0.000	0.000	0.000	0.000
2031	11	1,248,087.969	107,599.109	207,595.775	11,048.341	1,001,170.864	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr
2031	12	1,839,455.537	107,599.109	589,607.677	1,740.878	1,116,836.514	0.000	0.000	0.000	0.000
2032	1	2,283,294.202	107,599.109	959,512.978	379.544	1,156,168.774	35,962.437	0.000	0.000	0.000
2032	2	2,033,627.905	107,599.109	937,615.059	42.166	1,026,668.661	0.000	-61,968.449	0.000	0.000
2032	3	1,728,761.204	107,599.109	673,539.350	1,135.376	1,003,577.487	0.000	0.000	-80,761.477	0.000
2032	4	1,329,934.448	107,599.109	348,575.400	11,801.145	1,018,946.091	0.000	0.000	0.000	-180,658.656
2032	5	1,070,485.035	107,599.109	87,745.935	39,407.348	1,000,790.450	0.000	0.000	0.000	0.000
2032	6	1,148,501.240	107,599.109	9,788.754	126,193.361	1,031,381.902	0.000	0.000	0.000	0.000
2032	7	1,385,616.724	107,599.109	49,870	265,746.428	1,007,882.291	0.000	0.000	0.000	0.000
2032	8	1,410,260.945	107,599.109	0.000	310,218.572	968,771.906	0.000	0.000	0.000	0.000
2032	9	1,297,663.522	107,599.109	375.790	251,591.264	1,010,719.336	0.000	0.000	0.000	0.000
2032	10	1,070,576.513	107,599.109	34,387.690	79,892.412	1,002,615.761	0.000	0.000	0.000	0.000
2032	11	1,255,933.027	107,599.109	208,612.516	11,139.876	1,007,907.646	0.000	0.000	0.000	0.000
2032	12	1,849,688.349	107,599.109	592,491.076	1,755.289	1,124,171.515	0.000	0.000	0.000	0.000
2033	1	2,295,697.085	107,599.109	964,272.421	382.709	1,163,809.049	35,962.437	0.000	0.000	0.000
2033	2	2,045,144.038	107,599.109	942,266.394	42.517	1,033,533.108	0.000	-61,968.449	0.000	0.000
2033	3	1,738,904.625	107,599.109	676,880.068	1,144.842	1,010,370.725	0.000	0.000	-80,761.477	0.000
2033	4	1,338,846.847	107,599.109	350,319.239	11,900.030	1,026,015.766	0.000	0.000	0.000	-180,658.656
2033	5	1,078,317.025	107,599.109	88,184.863	39,737.504	1,007,853.357	0.000	0.000	0.000	0.000
2033	6	1,157,013.845	107,599.109	9,837.695	127,250.230	1,038,788.697	0.000	0.000	0.000	0.000
2033	7	1,395,266.124	107,599.109	50.122	267,986.417	1,015,291.449	0.000	0.000	0.000	0.000
2033	8	1,419,987.792	107,599.109	0.000	312,832.042	975,885.282	0.000	0.000	0.000	0.000
2033	9	1,307,092.736	107,599.109	377.686	253,709.830	1,018,028.088	0.000	0.000	0.000	0.000
2033	10	1,078,536.734	107,599.109	34,563.104	80,569.530	1,009,723.451	0.000	0.000	0.000	0.000
2033	11	1,264,068.329	107,599.109	209,675.618	11,234.231	1,014,885.490	0.000	0.000	0.000	0.000
2033	12	1,860,320.080	107,599.109	595,506.739	1,770.145	1,131,772.727	0.000	0.000	0.000	0.000
2034	1	2,308,628.846	107,599.109	969,276.431	385.980	1,171,733.529	35,962.437	0.000	0.000	0.000
2034	2	2,057,154.781	107,599.109	947,159.180	42.881	1,040,650.701	0.000	-61,968.449	0.000	0.000
2034	3	1,749,472.681	107,599.109	680,396.434	1,154.627	1,017,412.628	0.000	0.000	-80,761.477	0.000
2034	4	1,348,123.258	107,599.109	352,164.137	12,002.577	1,033,344.733	0.000	0.000	0.000	-180,658.656
2034	5	1,086,443.394	107,599.109	88,649.570	40,080.008	1,015,172.515	0.000	0.000	0.000	0.000
2034	6	1,165,836.045	107,599.109	9,889.566	128,347.184	1,046,462.073	0.000	0.000	0.000	0.000
2034	7	1,405,261.445	107,599.109	50.390	270,315.230	1,022,957.690	0.000	0.000	0.000	0.000
2034	8	1,430,066.464	107,599.109	0.000	315,550.281	983,245.715	0.000	0.000	0.000	0.000
2034	9	1,316,864.698	107,599.109	379.705	255,914.163	1,025,593.699	0.000	0.000	0.000	0.000
2034	10	1,086,795.169	107,599.109	34,750.684	81,276.027	1,017,087.810	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr
2034	11	1,272,537.132	107,599.109	210,813.216	11,332.706	1,022,118.221	0.000	0.000	0.000	0.000
2034	12	1,871,448.719	107,599.109	598,736.809	1,785.656	1,139,655.785	0.000	0.000	0.000	0.000
2035	1	2,322,180.709	107,599.109	974,635.063	389.393	1,179,923.347	35,962.437	0.000	0.000	0.000
2035	2	2,069,730.718	107,599.109	952,390.680	43.260	1,047,994.759	0.000	-61,968.449	0.000	0.000
2035	3	1,760,491.653	107,599.109	684,150.591	1,164.824	1,024,667.247	0.000	0.000	-80,761.477	0.000
2035	4	1,357,712.686	107,599.109	354,128.636	12,109.300	1,040,862.938	0.000	0.000	0.000	-180,658.656
2035	5	1,094,788.263	107,599.109	89,143.550	40,436.100	1,022,667.311	0.000	0.000	0.000	0.000
2035	6	1,174,874.113	107,599.109	9,944.608	129,486.498	1,054,305.784	0.000	0.000	0.000	0.000
2035	7	1,415,484.432	107,599.109	50.672	272,728.059	1,030,767.565	0.000	0.000	0.000	0.000
2035	8	1,440,368.022	107,599.109	0.000	318,363.801	990,733.753	0.000	0.000	0.000	0.000
2035	9	1,326,833.824	107,599.109	381.831	258,193.591	1,033,281.270	0.000	0.000	0.000	0.000
2035	10	1,095,154.945	107,599.109	34,946.364	82,002.445	1,024,525.487	0.000	0.000	0.000	0.000
2035	11	1,281,119.312	107,599.109	211,998.347	11,433.874	1,029,414.102	0.000	0.000	0.000	0.000
2035	12	1,882,766.711	107,599.109	602,097.264	1,801.578	1,147,597.401	0.000	0.000	0.000	0.000
2036	1	2,335,957.525	107,599.109	980,177.062	392.885	1,188,154.672	35,962.437	0.000	0.000	0.000
2036	2	2,082,509.153	107,599.109	957,795.089	43.647	1,055,368.398	0.000	-61,968.449	0.000	0.000
2036	3	1,771,652.827	107,599.109	688,024.536	1,175.238	1,031,944.062	0.000	0.000	-80,761.477	0.000
2036	4	1,367,367.767	107,599.109	356,145.180	12,217.944	1,048,392.830	0.000	0.000	0.000	-180,658.656
2036	5	1,103,158.105	107,599.109	89,650.124	40,798.395	1,030,168.285	0.000	0.000	0.000	0.000
2036	6	1,183,933.560	107,599.109	10,000.996	130,644.976	1,062,150.366	0.000	0.000	0.000	0.000
2036	7	1,425,742.456	107,599.109	50.961	275,174.959	1,038,578.400	0.000	0.000	0.000	0.000
2036	8	1,450,705.069	107,599.109	0.000	321,215.873	998,218.728	0.000	0.000	0.000	0.000
2036	9	1,336,825.428	107,599.109	383.997	260,503.347	1,040,960.953	0.000	0.000	0.000	0.000
2036	10	1,103,556.160	107,599.109	35,145.765	82,738.882	1,031,990.864	0.000	0.000	0.000	0.000
2036	11	1,289,748.564	107,599.109	213,205.379	11,536.411	1,036,733.785	0.000	0.000	0.000	0.000
2036	12	1,894,166.887	107,599.109	605,517.860	1,817.711	1,155,560.848	0.000	0.000	0.000	0.000
2037	1	2,349,872.400	107,599.109	985,801.830	396.419	1,196,441.245	35,962.437	0.000	0.000	0.000
2037	2	2,095,418.800	107,599.109	963,280.861	44.039	1,062,791.881	0.000	-61,968.449	0.000	0.000
2037	3	1,782,922.984	107,599.109	691,957.439	1,185.784	1,039,270.770	0.000	0.000	-80,761.477	0.000
2037	4	1,377,130.772	107,599.109	358,188.752	12,327.840	1,056,002.367	0.000	0.000	0.000	-180,658.656
2037	5	1,111,619.218	107,599.109	90,163.605	41,164.916	1,037,749.395	0.000	0.000	0.000	0.000
2037	6	1,193,092.279	107,599.109	10,058.168	131,817.171	1,070,079.718	0.000	0.000	0.000	0.000
2037	7	1,436,134.776	107,599.109	51.254	277,650.414	1,046,494.972	0.000	0.000	0.000	0.000
2037	8	1,461,180.136	107,599.109	0.000	324,101.992	1,005,807.677	0.000	0.000	0.000	0.000
2037	9	1,346,955.468	107,599.109	386.193	262,841.251	1,048,750.893	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	Pred	CONST	XHeat	XCool	XOther	Jan	Feb	Mar	Apr
2037	10	1,112,062.057	107,599.109	35,347.187	83,482.314	1,039,551.907	0.000	0.000	0.000	0.000
2037	11	1,298,490.446	107,599.109	214,425.349	11,639.959	1,044,152.148	0.000	0.000	0.000	0.000
2037	12	1,905,718.746	107,599.109	608,977.122	1,834.009	1,163,637.146	0.000	0.000	0.000	0.000
2038	1	2,363,769.009	107,599.109	991,424.627	399.963	1,204,711.514	35,962.437	0.000	0.000	0.000
2038	2	2,108,318.952	107,599.109	968,767.680	44.433	1,070,204.820	0.000	-61,968.449	0.000	0.000
2038	3	1,794,189.870	107,599.109	695,893.257	1,196.363	1,046,591.259	0.000	0.000	-80,761.477	0.000
2038	4	1,386,892.965	107,599.109	360,233.979	12,438.089	1,063,609.085	0.000	0.000	0.000	-180,658.656
2038	5	1,120,082.826	107,599.109	90,677.709	41,532.702	1,045,331.113	0.000	0.000	0.000	0.000
2038	6	1,202,259.641	107,599.109	10,115.435	132,993.714	1,078,013.270	0.000	0.000	0.000	0.000
2038	7	1,446,542.690	107,599.109	51.547	280,134.755	1,054,418.252	0.000	0.000	0.000	0.000
2038	8	1,471,675.136	107,599.109	0.000	326,999.126	1,013,405.542	0.000	0.000	0.000	0.000
2038	9	1,357,105.939	107,599.109	388.394	265,188.509	1,056,551.905	0.000	0.000	0.000	0.000
2038	10	1,120,580.104	107,599.109	35,548.890	84,228.382	1,047,122.183	0.000	0.000	0.000	0.000
2038	11	1,307,244.687	107,599.109	215,647.288	11,743.890	1,051,580.520	0.000	0.000	0.000	0.000
2038	12	1,917,288.866	107,599.109	612,442.717	1,850.370	1,171,725.311	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	May	Jun	Jul	Sep	Oct	Nov	feb90	Jan90	Sep93
1994	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
1994	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
1994	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
1994	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
1994	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
1995	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
1995	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
1995	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
1995	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
1996	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
1996	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
1996	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000

Residential Model Output

Year	Month	May	Jun	Jul	Sep	Oct	Nov	feb90	Jan90	Sep93
1996	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
1997	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
1997	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
1997	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
1997	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
1998	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
1998	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
1998	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
1998	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
1999	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
1999	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	May	Jun	Jul	Sep	Oct	Nov	feb90	Jan90	Sep93
1999	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
1999	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2000	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2000	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2000	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2000	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2001	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2001	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2001	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2001	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2002	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	May	Jun	Jul	Sep	Oct	Nov	feb90	Jan90	Sep93
2002	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2002	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2002	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2003	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2003	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2003	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2003	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2004	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2004	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2004	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2004	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2005	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	May	Jun	Jul	Sep	Oct	Nov	feb90	Jan90	Sep93
2005	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2005	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2005	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2005	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2006	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2006	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2006	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2006	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2007	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2007	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2007	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2007	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2008	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2008	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2008	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2008	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2008	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2008	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2008	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	May	Jun	Jul	Sep	Oct	Nov	feb90	Jan90	Sep93
2008	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2008	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2008	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2008	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2008	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2009	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2009	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2009	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2009	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2009	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2009	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2009	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2009	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2009	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2009	10	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2009	11	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2009	12	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2010	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2010	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2010	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2010	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2010	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	May	Jun	Jul	Sep	Oct	Nov	feb90	Jan90	Sep93
2011	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2011	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2011	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2011	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2011	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2011	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2012	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2012	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2012	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2012	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2012	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2013	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2013	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2013	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2013	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2013	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2014	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2014	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2014	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2014	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2014	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	May	Jun	Jul	Sep	Oct	Nov	feb90	Jan90	Sep93
2014	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2014	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2014	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2014	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2014	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2014	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2014	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2015	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2015	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2015	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2015	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2015	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2015	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2015	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2015	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2015	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2015	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2015	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2015	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2016	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2016	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2016	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2016	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2016	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2016	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2016	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2016	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2016	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2016	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2016	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2016	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2017	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2017	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2017	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2017	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	May	Jun	Jul	Sep	Oct	Nov	feb90	Jan90	Sep93
2017	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2017	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2017	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2017	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2017	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2017	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2017	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2017	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2018	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2018	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2018	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2018	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2019	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2019	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2019	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2019	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2019	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2019	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2019	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2019	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2019	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2019	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2019	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2019	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2020	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2020	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2020	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	May	Jun	Jul	Sep	Oct	Nov	feb90	Jan90	Sep93
2020	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2020	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2020	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2020	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2020	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2020	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2020	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2020	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2020	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2021	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2021	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2021	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2021	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2022	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2022	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2022	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2022	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2022	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2022	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2022	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2022	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2022	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2022	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2022	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2022	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2023	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2023	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	May	Jun	Jul	Sep	Oct	Nov	feb90	Jan90	Sep93
2023	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2023	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2023	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2023	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2023	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2023	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2023	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2023	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2023	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2023	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2024	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2024	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2024	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2024	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2024	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2024	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2024	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2024	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2024	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2024	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2024	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2024	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2025	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2025	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2025	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2025	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2025	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2025	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2025	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2025	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2025	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2025	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2025	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2025	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2026	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	May	Jun	Jul	Sep	Oct	Nov	feb90	Jan90	Sep93
2026	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2026	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2026	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2026	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2026	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2026	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2026	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2026	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2026	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2026	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2026	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2027	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2027	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2027	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2027	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2027	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2028	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2028	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2028	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2028	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2028	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2028	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2028	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2028	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2028	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2028	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2028	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2028	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	May	Jun	Jul	Sep	Oct	Nov	feb90	Jan90	Sep93
2029	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2029	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2029	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2029	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2029	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2029	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2029	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2029	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2029	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2029	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2029	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2029	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2030	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2030	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2030	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2030	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2030	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2030	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2030	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2030	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2030	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2030	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2030	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2030	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2031	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2031	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2031	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2031	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2031	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2031	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2031	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2031	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2031	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2031	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2031	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000

Residential Model Output

Year	Month	May	Jun	Jul	Sep	Oct	Nov	feb90	Jan90	Sep93
2031	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2032	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2032	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2032	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2032	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2032	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2033	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2033	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2033	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2033	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2033	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2033	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2033	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2033	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2033	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2033	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2033	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2033	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2034	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2034	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2034	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2034	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2034	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2034	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2034	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2034	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2034	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2034	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	May	Jun	Jul	Sep	Oct	Nov	feb90	Jan90	Sep93
2034	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2034	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2035	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2035	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2035	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2035	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2035	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2035	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2035	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2035	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2035	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2035	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2035	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2035	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2036	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2036	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2036	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2036	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2036	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2036	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2036	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2036	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2036	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2036	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2036	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2036	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2037	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2037	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2037	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2037	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2037	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2037	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2037	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2037	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2037	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	May	Jun	Jul	Sep	Oct	Nov	feb90	Jan90	Sep93
2037	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2037	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2037	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2038	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2038	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2038	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2038	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2038	5	-188,729.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2038	6	0.000	-150,133.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2038	7	0.000	0.000	-19,332.332	0.000	0.000	0.000	0.000	0.000	0.000
2038	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2038	9	0.000	0.000	0.000	-96,293.337	0.000	0.000	0.000	0.000	0.000
2038	10	0.000	0.000	0.000	0.000	-177,589.819	0.000	0.000	0.000	0.000
2038	11	0.000	0.000	0.000	0.000	0.000	-102,997.479	0.000	0.000	0.000
2038	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	Sep91	Sep95	Sep94	Nov95	Feb07	Jul93	Dec95	D08on
1994	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	9	0.000	0.000	-222,590.662	0.000	0.000	0.000	0.000	0.000
1994	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1994	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	9	0.000	-278,703.141	0.000	0.000	0.000	0.000	0.000	0.000
1995	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1995	11	0.000	0.000	0.000	383,201.426	0.000	0.000	0.000	0.000
1995	12	0.000	0.000	0.000	0.000	0.000	0.000	283,350.606	0.000
1996	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	Sep91	Sep95	Sep94	Nov95	Feb07	Jul93	Dec95	D08on
1996	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	Sep91	Sep95	Sep94	Nov95	Feb07	Jul93	Dec95	D08on
1999	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2001	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	Sep91	Sep95	Sep94	Nov95	Feb07	Jul93	Dec95	D08on
2002	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2002	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2003	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2004	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Residential Model Output

Year	Month	Sep91	Sep95	Sep94	Nov95	Feb07	Jul93	Dec95	D08on
2005	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2005	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2006	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	2	0.000	0.000	0.000	0.000	168,840.076	0.000	0.000	0.000
2007	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2007	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2008	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2008	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2008	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2008	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2008	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2008	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2008	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359

Residential Model Output

Year	Month	Sep91	Sep95	Sep94	Nov95	Feb07	Jul93	Dec95	D08on
2008	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2008	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2008	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2008	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2008	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2009	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2009	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2009	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2009	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2009	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2009	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2009	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2009	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2009	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2009	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2009	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2009	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2010	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2010	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2010	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2010	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2010	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2010	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2010	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2010	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2010	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2010	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2010	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2010	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2011	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2011	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2011	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2011	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2011	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2011	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359

Residential Model Output

Year	Month	Sep91	Sep95	Sep94	Nov95	Feb07	Jul93	Dec95	D08on
2011	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2011	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2011	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2011	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2011	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2011	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2012	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2012	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2012	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2012	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2012	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2012	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2012	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2012	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2012	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2012	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2012	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2012	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2013	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2013	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2013	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2013	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2013	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2013	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2013	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2013	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2013	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2013	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2013	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2013	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2014	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2014	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2014	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2014	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2014	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359

Residential Model Output

Year	Month	Sep91	Sep95	Sep94	Nov95	Feb07	Jul93	Dec95	D08on
2014	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2014	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2014	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2014	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2014	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2014	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2014	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2015	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2015	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2015	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2015	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2015	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2015	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2015	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2015	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2015	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2015	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2015	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2015	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2016	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2016	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2016	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2016	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2016	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2016	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2016	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2016	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2016	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2016	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2016	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2016	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2017	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2017	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2017	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2017	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359

Residential Model Output

Year	Month	Sep91	Sep95	Sep94	Nov95	Feb07	Jul93	Dec95	D08on
2017	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2017	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2017	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2017	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2017	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2017	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2017	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2017	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2018	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2018	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2018	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2018	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2018	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2018	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2018	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2018	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2018	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2018	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2018	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2018	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2019	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2019	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2019	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2019	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2019	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2019	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2019	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2019	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2019	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2019	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2019	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2019	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2020	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2020	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2020	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359

Residential Model Output

Year	Month	Sep91	Sep95	Sep94	Nov95	Feb07	Jul93	Dec95	D08on
2020	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2020	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2020	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2020	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2020	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2020	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2020	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2020	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2020	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2021	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2021	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2021	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2021	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2021	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2021	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2021	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2021	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2021	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2021	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2021	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2021	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2022	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2022	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2022	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2022	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2022	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2022	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2022	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2022	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2022	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2022	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2022	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2022	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2023	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2023	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359

Residential Model Output

Year	Month	Sep91	Sep95	Sep94	Nov95	Feb07	Jul93	Dec95	D08on
2023	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2023	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2023	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2023	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2023	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2023	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2023	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2023	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2023	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2023	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2024	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2024	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2024	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2024	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2024	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2024	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2024	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2024	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2024	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2024	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2024	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2024	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2025	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2025	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2025	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2025	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2025	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2025	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2025	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2025	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2025	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2025	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2025	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2025	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2026	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359

Residential Model Output

Year	Month	Sep91	Sep95	Sep94	Nov95	Feb07	Jul93	Dec95	D08on
2026	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2026	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2026	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2026	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2026	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2026	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2026	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2026	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2026	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2026	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2026	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2027	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2027	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2027	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2027	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2027	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2027	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2027	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2027	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2027	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2027	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2027	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2027	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2028	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2028	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2028	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2028	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2028	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2028	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2028	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2028	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2028	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2028	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2028	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2028	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359

Residential Model Output

Year	Month	Sep91	Sep95	Sep94	Nov95	Feb07	Jul93	Dec95	D08on
2029	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2029	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2029	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2029	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2029	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2029	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2029	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2029	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2029	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2029	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2029	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2029	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2030	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2030	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2030	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2030	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2030	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2030	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2030	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2030	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2030	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2030	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2030	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2030	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2031	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2031	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2031	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2031	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2031	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2031	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2031	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2031	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2031	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2031	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2031	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359

Residential Model Output

Year	Month	Sep91	Sep95	Sep94	Nov95	Feb07	Jul93	Dec95	D08on
2031	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2032	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2032	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2032	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2032	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2032	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2032	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2032	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2032	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2032	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2032	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2032	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2032	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2033	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2033	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2033	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2033	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2033	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2033	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2033	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2033	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2033	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2033	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2033	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2033	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2034	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2034	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2034	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2034	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2034	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2034	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2034	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2034	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2034	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2034	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359

Residential Model Output

Year	Month	Sep91	Sep95	Sep94	Nov95	Feb07	Jul93	Dec95	D08on
2034	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2034	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2035	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2035	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2035	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2035	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2035	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2035	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2035	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2035	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2035	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2035	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2035	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2035	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2036	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2036	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2036	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2036	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2036	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2036	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2036	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2036	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2036	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2036	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2036	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2036	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2037	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2037	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2037	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2037	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2037	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2037	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2037	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2037	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2037	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359

Residential Model Output

Year	Month	Sep91	Sep95	Sep94	Nov95	Feb07	Jul93	Dec95	D08on
2037	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2037	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2037	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2038	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2038	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2038	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2038	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2038	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2038	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2038	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2038	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2038	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2038	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2038	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359
2038	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,671.359

Residential Model Output

Year	Month	Heat	Cool	Lighting	Other	Total	Actual
1994	1	862,636.474	0.000	291,039.90	883,210.707	2,036,887.079	2014658
1994	2	823,550.206	0.000	250,153.18	705,991.691	1,779,695.073	1549663
1994	3	459,782.106	83.481	236,789.61	676,437.843	1,373,093.037	1391875
1994	4	248,113.710	5,556.389	230,568.00	589,968.497	1,074,206.598	974338.4
1994	5	32,394.364	40,576.045	209,768.09	578,418.358	861,156.854	840995.2
1994	6	4,244.161	119,247.918	195,040.18	649,691.517	968,223.772	1093106
1994	7	0.000	330,539.048	184,723.05	766,679.594	1,281,941.692	1301922
1994	8	0.000	261,932.366	184,071.38	756,128.512	1,202,132.254	1136390
1994	9	0.000	156,944.782	205,154.93	455,664.730	817,764.444	817764.4
1994	10	10,392.815	37,698.892	220,402.86	583,845.063	852,339.634	931766.3
1994	11	77,165.278	3,848.280	238,696.81	653,053.692	972,764.062	1147881
1994	12	289,834.217	1,696.207	275,728.98	827,272.150	1,394,531.558	1533025
1995	1	623,038.614	0.000	290,391.45	891,572.088	1,805,002.154	1844398
1995	2	747,910.927	0.000	249,317.69	712,654.285	1,709,882.900	1596350
1995	3	504,369.762	0.000	235,923.54	682,741.975	1,423,035.277	1254742
1995	4	191,411.447	5,686.061	229,446.85	595,605.815	1,022,150.176	968155.4
1995	5	67,971.350	22,880.511	208,738.96	583,843.718	883,434.538	905534.4
1995	6	4,519.025	107,022.290	194,124.44	655,224.250	960,890.001	960439.6
1995	7	0.000	250,266.698	183,867.60	772,019.953	1,206,154.254	1379927
1995	8	0.000	375,161.398	183,177.71	761,093.756	1,319,432.861	1533807
1995	9	551.708	306,376.381	204,145.55	404,901.765	915,975.408	915975.4
1995	10	14,402.745	55,612.564	219,258.92	589,018.479	878,292.708	895857.5
1995	11	214,211.445	5,091.551	237,622.74	1,041,956.733	1,498,882.470	1498882
1995	12	575,426.576	379.264	274,693.56	1,117,401.750	1,967,901.147	1967901
1996	1	934,596.301	0.000	288,834.93	897,351.778	2,120,783.009	2076799
1996	2	832,359.732	0.000	248,851.15	720,094.483	1,801,305.364	1961230
1996	3	564,550.817	0.000	234,824.87	688,209.172	1,487,584.858	1540774
1996	4	400,722.550	6,541.627	228,590.91	601,765.704	1,237,620.794	1352304
1996	5	87,107.385	64,957.157	208,082.00	590,185.213	950,331.756	960242.2
1996	6	12,434.717	145,157.160	193,529.61	661,667.479	1,012,788.965	988971.1
1996	7	0.000	274,882.835	183,412.50	778,679.818	1,236,975.152	1190706
1996	8	0.000	242,826.963	182,857.54	767,966.122	1,193,650.627	1142381
1996	9	0.000	217,861.000	203,744.37	690,850.970	1,112,456.345	1112762
1996	10	26,601.513	39,060.204	219,086.70	596,948.602	881,697.015	879169.4
1996	11	214,087.213	5,467.959	237,341.32	666,518.551	1,123,415.045	1080485

Residential Model Output

Year	Month	Heat	Cool	Lighting	Other	Total	Actual
1996	12	589,751.102	1,429.251	274,457.93	842,975.152	1,708,613.439	1639880
1997	1	672,589.945	764.508	289,223.42	908,351.705	1,870,929.577	1872862
1997	2	726,526.992	564.606	248,652.62	728,410.191	1,704,154.405	1697515
1997	3	395,240.259	2,374.946	235,507.08	698,776.342	1,331,898.623	1310970
1997	4	260,203.039	5,593.491	229,527.20	613,334.083	1,108,657.816	1181396
1997	5	118,755.239	6,382.250	208,893.81	601,397.344	935,428.641	971922.6
1997	6	18,634.593	48,899.788	194,273.13	673,107.311	934,914.824	898196.5
1997	7	0.000	227,364.590	184,225.50	790,173.620	1,201,763.713	1173408
1997	8	0.000	269,034.803	183,514.88	778,396.137	1,230,945.822	1213288
1997	9	0.000	151,317.249	204,635.73	702,392.562	1,058,345.544	1055187
1997	10	19,092.813	46,543.444	220,068.23	608,452.358	894,156.847	861173.1
1997	11	257,091.183	13,054.567	230,515.42	655,771.333	1,156,432.504	1110993
1997	12	564,102.276	0.000	280,189.93	868,046.040	1,712,338.251	1748101
1998	1	621,252.813	0.000	290,575.19	921,803.436	1,833,631.438	1816033
1998	2	588,836.852	0.000	250,074.87	741,089.044	1,580,000.768	1553672
1998	3	465,425.181	29.549	236,453.75	710,079.026	1,411,987.504	1393329
1998	4	279,443.314	38,548.876	229,863.44	623,078.027	1,170,933.658	1159164
1998	5	41,462.419	21,404.285	209,569.59	612,168.833	884,605.128	927021.1
1998	6	955.619	127,852.778	195,017.95	684,559.993	1,008,386.338	1003710
1998	7	410.635	270,712.129	184,622.95	800,135.886	1,255,881.603	1243693
1998	8	0.000	268,448.734	183,968.74	788,154.994	1,240,572.464	1250203
1998	9	0.000	270,220.949	205,354.72	713,468.467	1,189,044.132	1219362
1998	10	7,719.030	161,913.334	220,517.03	618,402.837	1,008,552.233	994519.2
1998	11	154,651.809	11,841.063	238,959.39	688,285.317	1,093,737.577	1079236
1998	12	325,618.466	2,761.134	276,429.79	867,630.883	1,472,440.277	1459520
1999	1	859,219.921	1,207.994	290,943.78	932,977.277	2,084,348.972	1996281
1999	2	535,661.326	0.000	250,123.53	750,279.331	1,536,064.185	1466155
1999	3	631,264.380	0.000	236,466.81	718,981.931	1,586,713.120	1560207
1999	4	336,114.803	8,773.957	229,913.99	632,285.077	1,207,087.831	1223541
1999	5	40,243.256	29,501.171	209,399.98	620,501.459	899,645.866	866545.2
1999	6	0.000	142,672.601	194,779.20	692,773.012	1,030,224.816	977527.9
1999	7	0.000	327,777.154	184,495.48	808,456.972	1,320,729.606	1267808
1999	8	0.000	391,076.573	183,912.73	796,397.148	1,371,386.450	1387451
1999	9	167.207	206,467.414	205,102.77	721,638.621	1,133,376.008	1126779
1999	10	18,220.323	42,013.745	220,348.08	626,874.065	907,456.216	900664.9

Residential Model Output

Year	Month	Heat	Cool	Lighting	Other	Total	Actual
1999	11	150,669.688	2,330.506	238,751.93	696,883.585	1,088,635.711	1048741
1999	12	404,978.815	0.000	276,224.07	877,276.004	1,558,478.892	1501399
2000	1	764,727.135	0.000	290,657.71	942,760.785	1,998,145.629	1922441
2000	2	905,843.032	0.000	249,789.37	758,691.122	1,914,323.520	1921955
2000	3	347,360.003	1,832.438	236,353.33	727,827.648	1,313,373.417	1315910
2000	4	197,589.323	4,383.293	230,198.63	642,512.558	1,074,683.800	1075373
2000	5	73,077.798	47,408.930	209,452.51	629,820.144	959,759.384	998023.8
2000	6	173,530	137,749.627	194,926.37	702,690.235	1,035,539.758	1048147
2000	7	0.000	248,374.387	184,647.90	818,148.907	1,251,171.192	1220916
2000	8	0.000	209,505.301	184,022.80	805,532.997	1,199,061.099	1185967
2000	9	855.799	188,614.012	205,206.83	731,234.965	1,125,911.606	1146884
2000	10	46,223.871	63,766.623	220,484.75	636,386.451	966,861.700	981004.3
2000	11	157,310.928	8,782.230	239,016.50	706,730.708	1,111,840.368	1034520
2000	12	763,844.605	0.000	276,232.96	887,456.840	1,927,534.403	1842379
2001	1	#####	0.000	290,903.05	952,900.206	2,426,754.354	2442094
2001	2	819,078.645	0.000	250,090.60	767,863.635	1,837,032.881	1814616
2001	3	565,623.557	0.000	236,758.89	737,125.306	1,539,507.748	1520046
2001	4	399,321.966	35,408.720	230,328.98	651,115.570	1,316,175.232	1325045
2001	5	60,668.024	78,242.440	209,616.34	638,337.591	986,864.389	979761.4
2001	6	3,723.548	87,400.847	195,121.10	711,417.342	997,662.838	977736.7
2001	7	0.000	215,425.975	185,005.21	827,201.743	1,227,632.933	1193278
2001	8	0.000	301,820.062	184,430.18	814,405.842	1,300,656.083	1290725
2001	9	175.108	243,246.385	205,661.27	740,681.759	1,189,764.519	1220538
2001	10	35,605.150	58,258.878	221,218.09	646,586.151	961,668.271	976700.7
2001	11	170,484.916	17,088.932	239,782.42	717,006.998	1,144,363.264	1151266
2001	12	243,494.891	593.191	277,346.59	899,589.786	1,421,024.460	1414092
2002	1	850,748.403	0.000	292,014.37	970,200.504	2,112,963.277	2073170
2002	2	627,545.336	0.000	251,166.57	783,660.981	1,662,372.891	1672432
2002	3	550,550.044	1,063.902	237,680.27	752,354.921	1,541,649.135	1604874
2002	4	303,067.652	16,672.509	231,220.46	666,629.456	1,217,590.076	1295820
2002	5	79,968.984	47,116.679	210,699.59	654,532.559	992,317.817	946106
2002	6	47,875.417	128,646.877	196,018.39	727,651.122	1,100,191.805	1103276
2002	7	0.000	291,504.404	185,718.33	842,528.393	1,319,751.125	1356212
2002	8	0.000	355,952.384	185,157.95	829,123.415	1,370,233.750	1425291
2002	9	0.000	325,907.802	206,533.24	756,413.039	1,288,854.078	1301869

Residential Model Output

Year	Month	Heat	Cool	Lighting	Other	Total	Actual
2002	10	17,312.840	128,879.894	221,855.51	661,147.603	1,029,195.847	1006367
2002	11	211,177.104	12,698.659	240,488.04	731,537.473	1,195,901.275	1119832
2002	12	693,717.081	1,839.188	278,156.43	915,756.313	1,889,469.009	1840687
2003	1	854,934.491	0.000	292,547.51	982,015.169	2,129,497.171	2194398
2003	2	#####	0.000	251,533.64	793,878.797	2,113,485.244	2098001
2003	3	710,950.562	0.000	238,100.28	762,590.553	1,711,641.395	1707985
2003	4	193,497.528	14,277.374	231,831.58	677,712.027	1,117,318.510	1143625
2003	5	41,486.428	35,261.471	211,066.28	664,749.533	952,563.710	934722
2003	6	0.000	49,869.776	196,453.71	738,481.914	984,805.398	947952.6
2003	7	0.000	207,880.872	186,405.41	854,220.972	1,248,507.249	1211800
2003	8	0.000	235,958.643	183,813.27	832,395.524	1,252,167.438	1243867
2003	9	0.000	237,019.874	207,940.07	770,745.400	1,215,705.339	1260932
2003	10	48,607.581	33,693.793	222,814.24	673,570.684	978,686.295	967079.4
2003	11	132,512.521	7,829.404	239,879.01	739,147.090	1,119,368.022	1060486
2003	12	510,755.770	977.548	277,306.66	923,885.605	1,712,925.588	1727644
2004	1	858,047.430	798.345	292,983.80	994,432.201	2,146,261.778	2228905
2004	2	987,445.009	237.700	251,718.19	804,380.514	2,043,781.413	2116279
2004	3	565,878.734	2,110.763	238,368.64	773,237.732	1,579,595.872	1593278
2004	4	326,973.694	12,226.452	235,663.30	700,311.592	1,275,175.042	1292408
2004	5	78,563.006	65,967.691	210,298.30	671,923.690	1,026,752.689	1010219
2004	6	5,726.126	190,343.623	197,930.54	754,739.196	1,148,739.481	1153825
2004	7	0.000	239,937.026	186,984.50	866,753.066	1,293,674.597	1290174
2004	8	0.000	226,237.072	185,153.70	847,364.026	1,258,754.802	1207890
2004	9	0.000	203,427.672	204,326.56	767,755.362	1,175,509.591	1160798
2004	10	13,451.614	60,080.818	223,390.11	685,707.333	982,629.880	977278.1
2004	11	85,080.858	11,766.195	239,554.34	748,305.192	1,084,706.589	1000908
2004	12	437,975.833	1,908.610	281,285.78	947,098.850	1,668,269.068	1636978
2005	1	756,608.107	0.000	291,500.27	1,001,937.881	2,050,046.260	2070073
2005	2	815,051.610	0.000	251,640.65	814,637.687	1,881,329.945	1949463
2005	3	691,828.068	0.000	240,020.01	788,799.366	1,720,647.447	1771888
2005	4	333,898.001	5,464.434	235,814.11	711,556.842	1,286,733.383	1308931
2005	5	93,037.056	19,401.990	208,959.99	677,439.110	998,838.149	1021338
2005	6	13,264.114	118,438.119	195,542.20	755,743.809	1,082,988.238	1069231
2005	7	0.000	332,639.741	184,881.46	868,292.829	1,385,814.029	1333321
2005	8	0.000	415,806.318	187,770.49	867,935.421	1,471,512.233	1460081

Residential Model Output

Year	Month	Heat	Cool	Lighting	Other	Total	Actual
2005	9	0.000	320,387.408	206,578.42	786,623.172	1,313,588.999	1336066
2005	10	7,924.746	142,888.402	219,994.28	684,573.883	1,055,381.308	1033744
2005	11	201,313.000	9,069.196	242,304.93	767,431.888	1,220,119.019	1120136
2005	12	738,865.250	1,444.546	275,713.16	942,125.459	1,958,148.413	1900439
2006	1	761,084.529	0.000	294,236.79	1,009,447.439	2,064,768.759	2207723
2006	2	578,459.101	0.000	252,801.66	817,791.392	1,649,052.150	1804836
2006	3	636,176.460	1,194.808	235,567.00	774,288.171	1,647,226.437	1626827
2006	4	331,732.512	14,445.253	223,606.49	670,660.041	1,240,444.298	1262416
2006	5	28,257.276	25,275.962	213,823.24	694,756.949	962,113.424	940154.6
2006	6	5,577.973	97,676.530	195,433.99	754,901.169	1,053,589.661	1057778
2006	7	0.000	239,462.909	185,717.75	871,568.236	1,296,748.896	1271277
2006	8	0.000	362,082.434	184,634.32	855,033.363	1,401,750.115	1424174
2006	9	1,316.260	240,524.728	207,581.83	790,383.175	1,239,805.988	1255082
2006	10	53,728.934	33,398.632	224,530.73	700,164.920	1,011,823.214	971237.9
2006	11	288,397.691	2,244.732	239,099.14	757,433.052	1,287,174.617	1232087
2006	12	497,505.065	2,566.459	275,278.32	940,880.565	1,716,230.414	1774978
2007	1	550,429.687	290.972	287,659.62	1,008,900.026	1,847,280.303	1894407
2007	2	985,387.749	0.000	246,183.98	983,081.354	2,214,653.080	2214653
2007	3	827,473.568	1,975.210	235,143.96	789,505.890	1,854,098.627	1845838
2007	4	302,131.688	27,183.099	235,063.07	726,016.245	1,290,394.100	1270903
2007	5	110,744.646	45,838.522	209,902.56	697,109.437	1,063,595.166	1045100
2007	6	4,627.911	164,635.323	190,823.87	752,755.615	1,112,842.723	1145912
2007	7	0.000	263,360.515	179,770.92	862,369.323	1,305,500.762	1271358
2007	8	0.000	304,042.134	183,460.70	865,800.989	1,353,303.819	1344389
2007	9	0.000	345,223.784	203,223.14	790,251.034	1,338,697.957	1445614
2007	10	9,198.468	156,304.245	217,934.75	693,620.817	1,077,058.276	1068750
2007	11	182,257.105	26,891.900	241,712.83	782,199.852	1,233,061.687	1140306
2007	12	555,794.696	0.000	272,558.61	950,800.432	1,779,153.743	1690171
2008	1	773,876.934	0.000	283,551.75	1,036,288.554	2,093,717.242	2114912
2008	2	842,040.532	0.000	243,139.25	842,638.382	1,927,818.163	2006611
2008	3	716,622.604	0.000	232,324.36	818,094.871	1,767,041.836	1805065
2008	4	338,012.797	1,307.859	230,278.06	747,904.752	1,317,503.471	1341179
2008	5	71,660.260	16,273.406	201,915.65	704,876.432	994,725.744	961256.3
2008	6	5,152.041	101,443.042	189,461.46	785,080.462	1,081,137.006	1065973
2008	7	0.000	208,283.178	179,114.80	897,182.448	1,284,580.430	1245206

Residential Model Output

Year	Month	Heat	Cool	Lighting	Other	Total	Actual
2008	8	0.000	247,669.066	182,355.04	898,579.702	1,328,603.810	1302138
2008	9	0.000	233,611.157	199,502.88	813,760.124	1,246,874.159	1237861
2008	10	11,955.005	88,554.970	213,790.79	716,798.881	1,031,099.648	992899.5
2008	11	195,023.345	10,510.109	232,058.22	788,969.649	1,226,561.320	0
2008	12	553,609.376	1,655.352	268,150.52	976,720.423	1,800,135.671	0
2009	1	898,384.209	355.358	276,031.80	1,036,939.847	2,211,711.211	
2009	2	877,156.874	39.447	237,151.29	844,602.436	1,958,950.051	
2009	3	630,498.894	1,062.936	224,435.35	812,650.433	1,668,647.614	
2009	4	325,867.805	11,033.665	218,325.62	727,459.430	1,282,686.519	
2009	5	81,998.108	36,829.727	198,720.97	713,469.445	1,031,018.250	
2009	6	9,145.946	117,920.257	184,834.99	786,732.057	1,098,633.251	
2009	7	46.525	247,965.886	174,959.74	899,556.959	1,322,529.108	
2009	8	0.000	289,319.984	174,237.77	884,074.453	1,347,632.206	
2009	9	350.273	234,572.061	194,171.60	813,438.363	1,242,532.301	
2009	10	32,023.577	74,430.509	208,564.21	718,308.664	1,033,326.961	
2009	11	194,274.066	10,378.436	225,961.75	789,111.831	1,219,726.079	
2009	12	551,590.923	1,634.868	261,142.53	977,000.115	1,791,368.440	
2010	1	897,082.131	351.881	260,377.43	1,038,180.291	2,195,991.733	
2010	2	876,292.328	39.078	223,804.10	845,972.206	1,946,107.713	
2010	3	630,273.854	1,053.501	211,911.97	814,251.636	1,657,490.957	
2010	4	326,487.172	10,959.890	206,394.72	729,986.766	1,273,828.549	
2010	5	82,151.000	36,582.410	187,855.99	715,868.886	1,022,458.282	
2010	6	9,162.293	117,120.969	174,717.89	789,042.374	1,090,043.528	
2010	7	46.674	246,643.261	165,477.77	902,262.817	1,314,430.524	
2010	8	0.000	287,828.925	164,826.36	886,777.301	1,339,432.590	
2010	9	351.552	233,410.392	183,726.32	816,551.503	1,234,039.765	
2010	10	32,170.355	74,130.768	197,413.61	721,672.550	1,025,387.288	
2010	11	195,152.107	10,336.079	213,869.16	792,499.585	1,211,856.926	
2010	12	554,240.412	1,628.582	247,230.17	980,950.280	1,784,049.447	
2011	1	901,902.931	351.076	247,031.41	1,042,541.944	2,191,827.362	
2011	2	881,300.881	39.002	212,431.82	850,213.546	1,943,985.252	
2011	3	633,073.228	1,050.171	200,837.60	817,260.323	1,652,221.321	
2011	4	327,828.745	10,922.095	195,539.46	732,825.602	1,267,115.903	
2011	5	82,517.550	36,469.579	178,057.41	718,967.427	1,016,011.965	
2011	6	9,204.957	116,779.647	165,634.19	792,249.205	1,083,868.000	

Residential Model Output

Year	Month	Heat	Cool	Lighting	Other	Total	Actual
2011	7	46,924	246,072.657	156,984.40	905,850.239	1,308,954.217	
2011	8	0.000	287,221.777	156,399.44	890,337.523	1,333,958.740	
2011	9	353,499	232,913.528	174,329.95	820,345.680	1,227,942.653	
2011	10	32,362.465	73,995.613	187,392.73	725,588.912	1,019,339.724	
2011	11	196,295.785	10,316.247	202,988.86	796,353.819	1,205,954.714	
2011	12	557,428.740	1,625.307	234,625.81	985,113.394	1,778,793.252	
2012	1	907,183.187	350.702	234,304.14	1,047,359.729	2,189,197.762	
2012	2	886,329.375	38,956	201,457.41	854,387.925	1,942,213.667	
2012	3	636,592.092	1,048.782	190,434.28	821,255.795	1,649,330.951	
2012	4	329,596.387	10,906.002	185,392.81	736,861.722	1,262,756.925	
2012	5	82,953.218	36,412.280	168,798.73	722,825.764	1,010,989.988	
2012	6	9,252.508	116,584.590	157,003.49	796,070.711	1,078,911.302	
2012	7	47,152	245,590.042	148,780.75	909,481.686	1,303,899.626	
2012	8	0.000	286,641.657	148,215.98	893,784.416	1,328,642.053	
2012	9	355,174	232,429.850	165,197.00	823,962.319	1,221,944.342	
2012	10	32,506.302	73,820.659	177,545.02	729,009.680	1,012,881.657	
2012	11	197,158.414	10,291.398	192,311.61	799,751.255	1,199,512.680	
2012	12	559,852.314	1,621.324	222,273.53	988,804.484	1,772,551.655	
2013	1	910,789.050	350.059	224,354.30	1,050,649.357	2,186,142.767	
2013	2	889,651.129	38,877	192,866.97	857,203.714	1,939,760.688	
2013	3	638,829.704	1,046.479	182,279.73	823,917.302	1,646,073.212	
2013	4	330,567.097	10,876.384	177,388.53	739,358.551	1,258,190.561	
2013	5	83,179.074	36,307.070	161,482.64	725,155.687	1,006,124.470	
2013	6	9,275.424	116,225.351	150,169.69	798,295.956	1,073,966.417	
2013	7	47,245	244,725.788	142,257.01	911,472.993	1,298,503.033	
2013	8	0.000	285,584.529	141,693.25	895,630.253	1,322,908.031	
2013	9	355,730	231,536.838	157,902.81	825,856.442	1,215,651.815	
2013	10	32,544.981	73,513.499	169,660.52	730,690.198	1,006,409.201	
2013	11	197,357.981	10,247.183	183,746.86	801,362.188	1,192,714.213	
2013	12	560,310.043	1,614.117	212,343.26	990,443.696	1,764,711.120	
2014	1	911,404.256	348.844	213,460.29	1,052,776.249	2,177,989.636	
2014	2	890,276.291	38,743	183,507.17	859,120.539	1,932,942.739	
2014	3	639,299.639	1,042.907	173,439.50	825,834.234	1,639,616.275	
2014	4	330,781.594	10,838.294	168,779.40	741,330.953	1,251,730.237	
2014	5	83,236.253	36,181.172	153,651.08	727,101.793	1,000,170.297	

Residential Model Output

Year	Month	Heat	Cool	Lighting	Other	Total	Actual
2014	6	9,282.278	115,827.494	142,893.40	800,282.114	1,068,285.288	
2014	7	47.279	243,881.438	135,364.73	913,469.708	1,292,763.159	
2014	8	0.000	284,612.545	134,834.87	897,603.516	1,317,050.935	
2014	9	356.024	230,759.622	150,267.12	827,976.866	1,209,359.637	
2014	10	32,571.196	73,264.427	161,456.41	732,737.830	1,000,029.862	
2014	11	197,526.742	10,212.903	174,869.49	803,426.668	1,186,035.807	
2014	12	560,818.892	1,608.791	202,094.00	992,695.947	1,757,217.632	
2015	1	912,165.755	348.056	205,793.79	1,055,233.194	2,173,540.794	
2015	2	891,042.337	38.657	176,921.12	861,337.927	1,929,340.045	
2015	3	639,866.196	1,040.603	167,219.48	828,049.354	1,636,175.630	
2015	4	331,064.588	10,814.030	162,725.78	743,640.818	1,248,245.211	
2015	5	83,309.580	36,101.127	148,144.22	729,387.624	996,942.554	
2015	6	9,290.683	115,574.319	137,776.03	802,626.146	1,065,267.180	
2015	7	47.320	243,337.033	130,514.69	915,815.667	1,289,714.710	
2015	8	0.000	283,984.564	130,007.45	899,901.527	1,313,893.537	
2015	9	356.344	230,256.225	144,891.10	830,405.528	1,205,909.192	
2015	10	32,599.907	73,103.903	155,681.68	735,092.456	996,477.947	
2015	11	197,704.744	10,190.789	168,619.70	805,775.926	1,182,291.157	
2015	12	561,336.009	1,605.351	194,876.88	995,242.177	1,753,060.416	
2016	1	913,011.834	347.737	199,702.81	1,058,336.164	2,171,398.547	
2016	2	891,912.186	38.623	171,692.92	864,146.866	1,927,790.598	
2016	3	640,522.819	1,039.750	162,285.93	830,859.404	1,634,707.900	
2016	4	331,429.487	10,805.968	157,935.79	746,616.348	1,246,787.595	
2016	5	83,405.681	36,075.962	143,790.40	732,350.835	995,622.874	
2016	6	9,301.963	115,500.164	133,734.27	805,701.642	1,064,238.034	
2016	7	47.382	243,202.802	126,698.10	918,970.865	1,288,919.153	
2016	8	0.000	283,844.215	126,212.84	902,990.710	1,313,047.763	
2016	9	356.857	230,155.601	140,669.98	833,658.507	1,204,840.942	
2016	10	32,649.646	73,077.706	151,160.93	738,311.850	995,200.127	
2016	11	198,019.563	10,187.737	163,732.72	808,996.603	1,180,936.622	
2016	12	562,269.172	1,604.969	189,240.31	998,770.518	1,751,884.968	
2017	1	914,031.236	347.932	193,149.26	1,061,652.052	2,169,180.484	
2017	2	892,955.737	38.647	166,066.02	867,147.224	1,926,207.629	
2017	3	641,311.093	1,040.434	156,975.08	833,859.901	1,633,186.510	
2017	4	331,848.578	10,813.321	152,775.83	749,774.130	1,245,211.854	

Residential Model Output

Year	Month	Heat	Cool	Lighting	Other	Total	Actual
2017	5	83,515.936	36,102.220	139,098.87	735,500.629	994,217.649	
2017	6	9,314.762	115,589.348	129,376.35	808,976.886	1,063,257.346	
2017	7	47,447	243,389.295	122,572.07	922,264.725	1,288,273.535	
2017	8	0.000	284,073.607	122,107.48	906,202.200	1,312,383.285	
2017	9	357,386	230,350.889	136,099.67	837,021.937	1,203,829.878	
2017	10	32,697.699	73,138.154	146,249.18	741,568.328	993,653.362	
2017	11	198,320.393	10,196.534	158,418.05	812,241.358	1,179,176.330	
2017	12	563,149.224	1,606.410	183,103.83	1,002,316.300	1,750,175.760	
2018	1	915,598.266	348.613	186,952.19	1,065,825.166	2,168,724.230	
2018	2	894,515.061	38.723	160,741.45	870,901.182	1,926,196.418	
2018	3	642,450.748	1,042.518	151,945.27	837,585.659	1,633,024.193	
2018	4	332,424.502	10,834.445	147,876.07	753,611.495	1,244,746.508	
2018	5	83,663.028	36,173.403	134,640.14	739,311.793	993,788.360	
2018	6	9,331.426	115,819.526	125,231.64	812,932.911	1,063,315.501	
2018	7	47,531	243,865.403	118,643.84	926,206.564	1,288,763.335	
2018	8	0.000	284,637.273	118,197.33	910,028.193	1,312,862.796	
2018	9	358,044	230,814.408	131,745.02	841,009.178	1,203,926.646	
2018	10	32,757.753	73,284.071	141,570.87	745,445.614	993,058.305	
2018	11	198,694.064	10,217.225	153,355.48	816,099.000	1,178,365.769	
2018	12	564,236.959	1,609.724	177,258.09	1,006,538.342	1,749,643.117	
2019	1	917,460.856	349.621	181,076.66	1,070,557.738	2,169,444.876	
2019	2	896,373.523	38.836	155,694.30	875,161.761	1,927,268.417	
2019	3	643,812.997	1,045.595	147,178.59	841,815.669	1,633,852.847	
2019	4	333,133.522	10,866.427	143,241.05	758,010.947	1,245,251.942	
2019	5	83,844.598	36,281.107	130,423.23	743,689.184	994,238.116	
2019	6	9,351.927	116,166.364	121,311.50	817,484.354	1,064,314.150	
2019	7	47,636	244,596.635	114,932.89	930,767.343	1,290,344.499	
2019	8	0.000	285,493.859	114,501.68	914,437.748	1,314,433.287	
2019	9	358,848	231,511.570	127,627.29	845,586.989	1,205,084.696	
2019	10	32,831.593	73,505.481	137,148.99	749,916.256	993,402.319	
2019	11	199,144.922	10,248.170	148,566.81	820,529.334	1,178,489.233	
2019	12	565,522.528	1,614.604	171,723.79	1,011,374.939	1,750,235.864	
2020	1	919,795.430	350.519	175,619.05	1,075,894.032	2,171,659.033	
2020	2	898,673.663	38.937	151,004.13	879,955.714	1,929,672.448	
2020	3	645,473.483	1,048.306	142,746.52	846,561.792	1,635,830.100	

Residential Model Output

Year	Month	Heat	Cool	Lighting	Other	Total	Actual
2020	4	333,999.038	10,894.774	138,930.23	762,943.856	1,246,767.894	
2020	5	84,063.101	36,375.953	126,499.16	748,587.319	995,525.530	
2020	6	9,376.382	116,470.837	117,662.65	822,575.058	1,066,084.927	
2020	7	47,761	245,239.801	111,477.06	935,861.845	1,292,626.471	
2020	8	0.000	286,246.323	111,059.76	919,360.184	1,316,666.267	
2020	9	359,794	232,122.783	123,791.65	850,677.982	1,206,952.212	
2020	10	32,918.467	73,700.263	133,027.46	754,858.180	994,504.370	
2020	11	199,672.463	10,275.372	144,103.12	825,411.836	1,179,462.791	
2020	12	567,020.620	1,618.894	166,565.21	1,016,687.606	1,751,892.332	
2021	1	922,582.663	351.835	172,594.12	1,081,116.554	2,176,645.168	
2021	2	901,423.214	39.084	148,407.34	884,652.643	1,934,522.279	
2021	3	647,468.614	1,052.295	140,295.85	851,220.725	1,640,037.486	
2021	4	335,049.053	10,936.762	136,549.58	767,789.628	1,250,325.028	
2021	5	84,330.338	36,517.240	124,335.54	753,413.912	998,597.027	
2021	6	9,406.540	116,926.924	115,654.10	827,608.753	1,069,596.322	
2021	7	47,918	246,219.020	109,579.49	940,922.037	1,296,768.470	
2021	8	0.000	287,396.392	109,172.33	924,257.846	1,320,826.573	
2021	9	361.000	233,060.523	121,690.90	855,752.529	1,210,864.947	
2021	10	33,031.898	74,004.779	130,777.85	759,828.460	997,642.984	
2021	11	200,363.912	10,317.993	141,668.99	830,331.073	1,182,681.969	
2021	12	568,995.925	1,625.640	163,755.30	1,022,057.624	1,756,434.492	
2022	1	925,712.574	353.600	170,649.88	1,087,179.513	2,183,895.562	
2022	2	904,493.806	39.280	146,737.94	890,093.726	1,941,364.748	
2022	3	649,683.908	1,057.603	138,720.08	856,604.640	1,646,066.228	
2022	4	336,219.438	10,992.704	135,021.68	773,389.593	1,255,623.419	
2022	5	84,626.282	36,704.576	122,946.53	758,981.162	1,003,258.551	
2022	6	9,439.741	117,528.917	114,364.51	833,407.994	1,074,741.166	
2022	7	48,090	247,496.632	108,360.67	946,721.318	1,302,626.705	
2022	8	0.000	288,892.623	107,960.18	929,859.483	1,326,712.286	
2022	9	362,302	234,277.377	120,341.87	861,548.575	1,216,530.125	
2022	10	33,150.920	74,390.829	129,327.74	765,453.871	1,002,323.360	
2022	11	201,088.891	10,371.972	140,100.57	835,897.200	1,187,458.628	
2022	12	571,064.891	1,634.172	161,945.55	1,028,138.014	1,762,782.632	
2023	1	928,899.930	355.639	169,208.11	1,093,639.502	2,192,103.182	
2023	2	907,613.715	39.507	145,499.62	895,886.343	1,949,039.185	

Residential Model Output

Year	Month	Heat	Cool	Lighting	Other	Total	Actual
2023	3	651,930.551	1,063.720	137,550.97	862,331.308	1,652,876.548	
2023	4	337,364.152	11,055.685	133,879.09	779,278.272	1,261,577.203	
2023	5	84,915.644	36,915.370	121,908.01	764,835.753	1,008,574.781	
2023	6	9,472.195	118,205.835	113,400.55	839,508.445	1,080,587.029	
2023	7	48,253	248,909.886	107,444.35	952,773.074	1,309,175.561	
2023	8	0.000	290,548.030	107,049.52	935,705.397	1,333,302.948	
2023	9	363.548	235,624.618	119,329.34	867,598.643	1,222,916.149	
2023	10	33,264.259	74,816.636	128,238.54	771,323.626	1,007,643.060	
2023	11	201,782.317	10,431.590	138,924.08	841,710.740	1,192,848.729	
2023	12	573,052.971	1,643.609	160,589.99	1,034,498.521	1,769,785.087	
2024	1	932,024.473	357.870	168,021.99	1,100,683.677	2,201,088.006	
2024	2	910,671.165	39.755	144,480.36	902,201.237	1,957,392.515	
2024	3	654,128.969	1,070.401	136,587.84	868,569.981	1,660,357.186	
2024	4	338,500.008	11,125.051	132,941.65	785,725.958	1,268,292.665	
2024	5	85,201.788	37,147.060	121,054.78	771,241.224	1,014,644.853	
2024	6	9,504.111	118,947.645	112,606.92	846,176.257	1,087,234.929	
2024	7	48.415	250,472.742	106,693.21	959,422.446	1,316,636.814	
2024	8	0.000	292,371.855	106,301.09	942,113.811	1,340,786.757	
2024	9	364.774	237,103.520	118,495.11	874,215.641	1,230,179.047	
2024	10	33,376.740	75,287.030	127,344.21	777,774.559	1,013,782.542	
2024	11	202,464.257	10,497.153	137,955.07	848,083.176	1,198,999.658	
2024	12	574,987.183	1,653.932	159,469.33	1,041,452.782	1,777,563.229	
2025	1	935,187.212	360.279	166,986.66	1,107,523.680	2,210,057.834	
2025	2	913,759.016	40.023	143,589.92	908,330.799	1,965,719.755	
2025	3	656,344.413	1,077.599	135,745.70	874,622.653	1,667,790.365	
2025	4	339,640.806	11,199.689	132,122.32	791,985.649	1,274,948.465	
2025	5	85,488.527	37,396.126	120,308.32	777,458.656	1,020,651.629	
2025	6	9,536.024	119,744.379	111,911.90	852,648.682	1,093,840.981	
2025	7	48.576	252,137.786	106,031.98	965,852.065	1,324,070.403	
2025	8	0.000	294,313.329	105,641.60	948,306.473	1,348,261.399	
2025	9	365.974	238,676.591	117,759.35	880,599.987	1,237,401.902	
2025	10	33,483.696	75,780.041	126,546.25	783,935.373	1,019,745.361	
2025	11	203,111.673	10,565.826	137,089.83	854,161.171	1,204,928.503	
2025	12	576,820.709	1,664.739	158,467.96	1,048,077.325	1,785,030.732	
2026	1	938,126.893	362.737	166,006.65	1,114,792.093	2,219,288.370	

Residential Model Output

Year	Month	Heat	Cool	Lighting	Other	Total	Actual
2026	2	916,628.993	40,296	142,746.90	914,843.647	1,974,259.832	
2026	3	658,403.343	1,084.943	134,948.26	881,052.285	1,675,488.830	
2026	4	340,674.014	11,274.945	131,337.96	798,578.395	1,281,865.317	
2026	5	85,748.316	37,647.284	119,593.83	784,009.370	1,026,998.797	
2026	6	9,564.948	120,547.943	111,246.76	859,471.870	1,100,831.516	
2026	7	48,719	253,811.264	105,396.77	972,610.454	1,331,867.204	
2026	8	0.000	296,265.044	105,008.22	954,816.495	1,356,089.761	
2026	9	367,053	240,258.189	117,052.86	887,310.007	1,244,988.113	
2026	10	33,580.777	76,278.546	125,783.87	790,438.067	1,026,081.258	
2026	11	203,699.409	10,635.274	136,263.31	860,575.686	1,211,173.682	
2026	12	578,485.458	1,675.669	157,511.58	1,055,069.990	1,792,742.698	
2027	1	940,887.335	365.250	165,046.92	1,122,159.660	2,228,459.168	
2027	2	919,327.565	40.575	141,921.93	921,448.763	1,982,738.837	
2027	3	660,342.139	1,092.460	134,168.50	887,575.676	1,683,178.778	
2027	4	341,678.948	11,353.110	130,580.31	805,326.768	1,288,939.138	
2027	5	86,001.431	37,908.330	118,904.25	790,719.808	1,033,533.816	
2027	6	9,593.188	121,383.838	110,605.44	866,468.760	1,108,051.228	
2027	7	48,864	255,573.626	104,790.33	979,587.897	1,340,000.721	
2027	8	0.000	298,322.155	104,404.12	961,539.195	1,364,265.465	
2027	9	368,141	241,926.513	116,379.63	894,240.636	1,252,914.916	
2027	10	33,680.978	76,809.700	125,062.11	797,187.472	1,032,740.259	
2027	11	204,307.431	10,709.334	135,481.59	867,237.036	1,217,735.390	
2027	12	580,212.293	1,687.337	156,608.01	1,062,340.254	1,800,847.899	
2028	1	943,678.113	367.814	164,133.92	1,129,999.203	2,238,179.053	
2028	2	922,075.238	40.860	141,139.56	928,485.751	1,991,741.410	
2028	3	662,330.732	1,100.168	133,431.38	894,534.110	1,691,396.389	
2028	4	342,727.746	11,433.829	129,868.31	812,543.292	1,296,573.175	
2028	5	86,267.529	38,178.601	118,258.35	797,904.695	1,040,609.172	
2028	6	9,623.123	122,251.804	110,007.00	873,971.369	1,115,853.298	
2028	7	49,019	257,412.787	104,227.47	987,079.600	1,348,768.879	
2028	8	0.000	300,474.935	103,845.45	968,765.533	1,373,085.918	
2028	9	369,327	243,676.944	115,759.13	901,706.006	1,261,511.407	
2028	10	33,791.155	77,368.852	124,400.56	804,481.024	1,040,041.587	
2028	11	204,980.602	10,787.494	134,767.44	874,450.722	1,224,986.255	
2028	12	582,138.736	1,699.686	155,785.59	1,070,236.126	1,809,860.133	

Residential Model Output

Year	Month	Heat	Cool	Lighting	Other	Total	Actual
2029	1	946,879.085	370.555	163,308.66	1,137,633.398	2,248,191.693	
2029	2	925,230.338	41.166	140,433.23	935,340.172	2,001,044.907	
2029	3	664,616.862	1,108.420	132,766.73	901,313.686	1,699,805.700	
2029	4	343,922.818	11,519.917	129,225.86	819,565.104	1,304,233.704	
2029	5	86,571.103	38,467.028	117,676.32	804,897.615	1,047,612.069	
2029	6	9,657.318	123,178.691	109,468.53	881,275.761	1,123,580.297	
2029	7	49.195	259,376.338	103,721.73	994,371.184	1,357,518.443	
2029	8	0.000	302,774.754	103,344.17	975,800.353	1,381,919.277	
2029	9	370.683	245,548.041	115,203.11	908,979.530	1,270,101.366	
2029	10	33,917.127	77,966.605	123,808.52	811,591.670	1,047,283.918	
2029	11	205,751.175	10,871.098	134,129.17	881,489.436	1,232,240.879	
2029	12	584,346.657	1,712.902	155,051.61	1,077,949.289	1,819,060.457	
2030	1	950,598.880	373.479	163,016.88	1,145,891.902	2,259,881.141	
2030	2	928,891.538	41.492	140,185.35	942,749.727	2,011,868.107	
2030	3	667,265.638	1,117.216	132,535.16	908,636.844	1,709,554.863	
2030	4	345,307.310	11,611.722	129,004.03	827,137.258	1,313,060.323	
2030	5	86,922.222	38,774.491	117,477.03	812,432.958	1,055,606.700	
2030	6	9,696.794	124,166.298	109,285.74	889,140.020	1,132,288.852	
2030	7	49.398	261,464.022	103,551.30	1,002,197.893	1,367,262.615	
2030	8	0.000	305,219.006	103,176.74	983,346.878	1,391,742.623	
2030	9	372.235	247,535.919	115,018.99	916,785.923	1,279,713.068	
2030	10	34,060.083	78,599.435	123,612.53	819,202.376	1,055,474.429	
2030	11	206,624.529	10,959.589	133,919.85	889,027.239	1,240,531.211	
2030	12	586,845.328	1,726.887	154,813.26	1,086,215.391	1,829,600.869	
2031	1	954,953.348	376.470	162,349.22	1,153,685.475	2,271,364.513	
2031	2	933,157.588	41.824	139,612.38	949,735.858	2,022,547.646	
2031	3	670,337.121	1,126.180	131,994.37	915,534.980	1,718,992.647	
2031	4	346,900.196	11,704.969	128,478.03	834,255.101	1,321,338.299	
2031	5	87,324.224	39,086.209	116,999.09	819,510.345	1,062,919.865	
2031	6	9,741.736	125,165.369	108,841.89	896,519.022	1,140,268.018	
2031	7	49.628	263,570.952	103,131.03	1,009,530.615	1,376,282.225	
2031	8	0.000	307,680.371	102,758.62	990,409.845	1,400,848.836	
2031	9	373.973	249,533.655	114,553.61	924,081.616	1,288,542.855	
2031	10	34,219.913	79,235.541	123,113.98	826,317.550	1,062,886.987	
2031	11	207,595.775	11,048.341	133,380.44	896,063.417	1,248,087.969	

Residential Model Output

Year	Month	Heat	Cool	Lighting	Other	Total	Actual
2031	12	589,607.677	1,740.878	154,190.30	1,093,916.681	1,839,455.537	
2032	1	959,512.978	379.544	161,699.95	1,161,701.732	2,283,294.202	
2032	2	937,615.059	42.166	139,054.23	956,916.449	2,033,627.905	
2032	3	673,539.350	1,135.376	131,466.63	922,619.848	1,728,761.204	
2032	4	348,575.400	11,801.145	127,968.17	841,589.730	1,329,934.448	
2032	5	87,745.935	39,407.348	116,534.81	826,796.942	1,070,485.035	
2032	6	9,788.754	126,193.361	108,409.71	904,109.416	1,148,501.240	
2032	7	49.870	265,746.428	102,724.39	1,017,096.034	1,385,616.724	
2032	8	0.000	310,218.572	102,353.05	997,689.326	1,410,260.945	
2032	9	375.790	251,591.264	114,101.13	931,595.340	1,297,663.522	
2032	10	34,387.690	79,892.412	122,631.49	833,664.920	1,070,576.513	
2032	11	208,612.516	11,139.876	132,857.08	903,323.555	1,255,933.027	
2032	12	592,491.076	1,755.289	153,584.28	1,101,857.701	1,849,688.349	
2033	1	964,272.421	382.709	161,069.38	1,169,972.578	2,295,697.085	
2033	2	942,266.394	42.517	138,512.02	964,323.111	2,045,144.038	
2033	3	676,880.068	1,144.842	130,953.84	929,925.875	1,738,904.625	
2033	4	350,319.239	11,900.030	127,473.32	849,154.261	1,338,846.847	
2033	5	88,184.863	39,737.504	116,084.11	834,310.546	1,078,317.025	
2033	6	9,837.695	127,250.230	107,990.16	911,935.758	1,157,013.845	
2033	7	50.122	267,986.417	102,330.38	1,024,899.207	1,395,266.124	
2033	8	0.000	312,832.042	101,960.03	1,005,195.719	1,419,987.792	
2033	9	377.686	253,709.830	113,662.59	939,342.633	1,307,092.736	
2033	10	34,563.104	80,569.530	122,163.91	841,240.186	1,078,536.734	
2033	11	209,675.618	11,234.231	132,349.82	910,808.661	1,264,068.329	
2033	12	595,506.739	1,770.145	152,996.90	1,110,046.299	1,860,320.080	
2034	1	969,276.431	385.980	160,459.74	1,178,506.693	2,308,628.846	
2034	2	947,159.180	42.881	137,987.98	971,964.735	2,057,154.781	
2034	3	680,396.434	1,154.627	130,458.48	937,463.135	1,749,472.681	
2034	4	352,164.137	12,002.577	126,996.19	856,960.352	1,348,123.258	
2034	5	88,649.570	40,080.008	115,649.81	842,064.004	1,086,443.394	
2034	6	9,889.566	128,347.184	107,586.24	920,013.051	1,165,836.045	
2034	7	50.390	270,315.230	101,950.86	1,032,944.962	1,405,261.445	
2034	8	0.000	315,550.281	101,581.70	1,012,934.486	1,430,066.464	
2034	9	379.705	255,914.163	113,240.64	947,330.189	1,316,864.698	
2034	10	34,750.684	81,276.027	121,714.83	849,053.634	1,086,795.169	

Residential Model Output

Year	Month	Heat	Cool	Lighting	Other	Total	Actual
2034	11	210,813.216	11,332.706	131,862.65	918,528.561	1,272,537.132	
2034	12	598,736.809	1,785.656	152,433.00	1,118,493.252	1,871,448.719	
2035	1	974,635.063	389.393	159,870.86	1,187,285.390	2,322,180.709	
2035	2	952,390.680	43.260	137,480.49	979,816.286	2,069,730.718	
2035	3	684,150.591	1,164.824	129,977.55	945,198.692	1,760,491.653	
2035	4	354,128.636	12,109.300	126,529.55	864,945.196	1,357,712.686	
2035	5	89,143.550	40,436.100	115,223.79	849,984.828	1,094,788.263	
2035	6	9,944.608	129,486.498	107,188.83	928,254.175	1,174,874.113	
2035	7	50.672	272,728.059	101,575.03	1,041,130.670	1,415,484.432	
2035	8	0.000	318,363.801	101,205.93	1,020,798.289	1,440,368.022	
2035	9	381.831	258,193.591	112,820.37	955,438.027	1,326,833.824	
2035	10	34,946.364	82,002.445	121,261.94	856,944.198	1,095,154.945	
2035	11	211,998.347	11,433.874	131,370.17	926,316.916	1,281,119.312	
2035	12	602,097.264	1,801.578	151,861.60	1,127,006.273	1,882,766.711	
2036	1	980,177.062	392.885	159,271.10	1,196,116.482	2,335,957.525	
2036	2	957,795.089	43.647	136,962.59	987,707.831	2,082,509.153	
2036	3	688,024.536	1,175.238	129,485.81	952,967.245	1,771,652.827	
2036	4	356,145.180	12,217.944	126,050.86	872,953.784	1,367,367.767	
2036	5	89,650.124	40,798.395	114,786.07	857,923.517	1,103,158.105	
2036	6	10,000.996	130,644.976	106,779.89	936,507.702	1,183,933.560	
2036	7	50.961	275,174.959	101,188.09	1,049,328.445	1,425,742.456	
2036	8	0.000	321,215.873	100,818.68	1,028,670.516	1,450,705.069	
2036	9	383.997	260,503.347	112,386.85	963,551.231	1,336,825.428	
2036	10	35,145.765	82,738.882	120,799.11	864,872.399	1,103,556.160	
2036	11	213,205.379	11,536.411	130,866.61	934,140.168	1,289,748.564	
2036	12	605,517.860	1,817.711	151,276.96	1,135,554.351	1,894,166.887	
2037	1	985,801.830	396.419	158,661.79	1,205,012.358	2,349,872.400	
2037	2	963,280.861	44.039	136,436.58	995,657.325	2,095,418.800	
2037	3	691,957.439	1,185.784	128,986.54	960,793.223	1,782,922.984	
2037	4	358,188.752	12,327.840	125,568.15	881,046.025	1,377,130.772	
2037	5	90,163.605	41,164.916	114,344.88	865,945.820	1,111,619.218	
2037	6	10,058.168	131,817.171	106,367.90	944,849.037	1,193,092.279	
2037	7	51.254	277,650.414	100,800.38	1,057,632.727	1,436,134.776	
2037	8	0.000	324,101.992	100,430.96	1,036,647.187	1,461,180.136	
2037	9	386.193	262,841.251	111,953.12	971,774.905	1,346,955.468	

Residential Model Output

Year	Month	Heat	Cool	Lighting	Other	Total	Actual
2037	10	35,347.187	83,482.314	120,334.60	872,897.958	1,112,062.057	
2037	11	214,425.349	11,639.959	130,361.75	942,063.388	1,298,490.446	
2037	12	608,977.122	1,834.009	150,691.48	1,144,216.133	1,905,718.746	
2038	1	991,424.627	399.963	158,033.96	1,213,910.456	2,363,769.009	
2038	2	968,767.680	44.433	135,895.13	1,003,611.708	2,108,318.952	
2038	3	695,893.257	1,196.363	128,473.16	968,627.088	1,794,189.870	
2038	4	360,233.979	12,438.089	125,071.94	889,148.959	1,386,892.965	
2038	5	90,677.709	41,532.702	113,891.71	873,980.703	1,120,082.826	
2038	6	10,115.435	132,993.714	105,945.12	953,205.375	1,202,259.641	
2038	7	51.547	280,134.755	100,402.54	1,065,953.847	1,446,542.690	
2038	8	0.000	326,999.126	100,033.43	1,044,642.576	1,471,675.136	
2038	9	388.394	265,188.509	111,508.74	980,020.300	1,357,105.939	
2038	10	35,548.890	84,228.382	119,858.58	880,944.250	1,120,580.104	
2038	11	215,647.288	11,743.890	129,844.72	950,008.788	1,307,244.687	
2038	12	612,442.717	1,850.370	150,092.26	1,152,903.516	1,917,288.866	

Residential Model Output

Year	Month	Usage							Customers
		Heat	Cool	Lighting	Other	Total	Customers		
1994	1	862,636.474	0.000	291,039.90	860981.441799825	2,014,657.814	137.06		
1994	2	823,550.206	0.000	250,153.18	475959.309963754	1,549,662.692	137.12		
1994	3	459,782.106	83.481	236,789.61	695219.532639376	1,391,874.726	136.98		
1994	4	248,113.710	5,556.389	230,568.00	490100.270608526	974,338.371	136.90		
1994	5	32,394.364	40,576.045	209,768.09	558256.735506725	840,995.231	136.93		
1994	6	4,244.161	119,247.918	195,040.18	774573.457494038	1,093,105.712	137.07		
1994	7	0.000	330,539.048	184,723.05	786659.746501840	1,301,921.844	137.26		
1994	8	0.000	261,932.366	184,071.38	690386.351008727	1,136,390.093	137.44		
1994	9	0.000	156,944.782	205,154.93	455664.730468623	817,764.444	137.66		
1994	10	10,392.815	37,698.892	220,402.86	663271.704131591	931,766.275	137.92		
1994	11	77,165.278	3,848.280	238,696.81	828170.382570076	1,147,880.752	138.23		
1994	12	289,834.217	1,696.207	275,728.98	965765.210633997	1,533,024.618	138.64		
1995	1	623,038.614	0.000	290,391.45	930967.451578997	1,844,397.518	138.75		
1995	2	747,910.927	0.000	249,317.69	599121.712907315	1,596,350.328	139.08		
1995	3	504,369.762	0.000	235,923.54	514448.309973394	1,254,741.612	139.04		
1995	4	191,411.447	5,686.061	229,446.85	541611.026404523	968,155.387	138.96		
1995	5	67,971.350	22,880.511	208,738.96	605943.592844931	905,534.413	139.00		
1995	6	4,519.025	107,022.290	194,124.44	654773.841293504	960,439.592	139.13		
1995	7	0.000	250,266.698	183,867.60	945792.727533240	1,379,927.028	139.23		
1995	8	0.000	375,161.398	183,177.71	975467.882261519	1,533,806.987	139.48		
1995	9	551.708	306,376.381	204,145.55	404901.765360054	915,975.408	139.72		
1995	10	14,402.745	55,612.564	219,258.92	606583.234421407	895,857.464	139.87		
1995	11	214,211.445	5,091.551	237,622.74	1041956.732773590	1,498,882.470	140.04		
1995	12	575,426.576	379.264	274,693.56	1117401.750456050	1,967,901.147	140.41		
1996	1	934,596.301	0.000	288,834.93	853367.386887009	2,076,798.618	140.80		
1996	2	832,359.732	0.000	248,851.15	880018.798823296	1,961,229.680	140.27		
1996	3	564,550.817	0.000	234,824.87	741397.905956414	1,540,773.592	140.89		
1996	4	400,722.550	6,541.627	228,590.91	716449.393357269	1,352,304.483	140.59		
1996	5	87,107.385	64,957.157	208,082.00	600095.639017871	960,242.182	140.51		
1996	6	12,434.717	145,157.160	193,529.61	637849.662742561	988,971.149	140.62		
1996	7	0.000	274,882.835	183,412.50	732410.917544196	1,190,706.251	140.66		
1996	8	0.000	242,826.963	182,857.54	716696.187573770	1,142,380.693	140.73		
1996	9	0.000	217,861.000	203,744.37	691156.271310467	1,112,761.646	141.00		
1996	10	26,601.513	39,060.204	219,086.70	594421.011672787	879,169.425	141.08		
1996	11	214,087.213	5,467.959	237,341.32	623588.735125758	1,080,485.229	141.36		

Residential Model Output

Year	Month	Usage								Customers
		Heat	Cool	Lighting	Other	Total				
1996	12	589,751.102	1,429.251	274,457.93	774241.981117668	1,639,880.269			141.65	
1997	1	672,589.945	764.508	289,223.42	910284.237200082	1,872,862.110			141.83	
1997	2	726,526.992	564.606	248,652.62	721771.242979032	1,697,515.458			141.84	
1997	3	395,240.259	2,374.946	235,507.08	677847.247268729	1,310,969.528			141.57	
1997	4	260,203.039	5,593.491	229,527.20	686072.689839651	1,181,396.423			141.36	
1997	5	118,755.239	6,382.250	208,893.81	637891.346425771	971,922.643			141.35	
1997	6	18,634.593	48,899.788	194,273.13	636389.029588617	898,196.542			141.48	
1997	7	0.000	227,364.590	184,225.50	761817.785750469	1,173,407.879			141.52	
1997	8	0.000	269,034.803	183,514.88	760738.557761898	1,213,288.243			141.81	
1997	9	0.000	151,317.249	204,635.73	699234.109194693	1,055,187.091			141.92	
1997	10	19,092.813	46,543.444	220,068.23	575468.582420409	861,173.071			141.99	
1997	11	257,091.183	13,054.567	230,515.42	610331.887523795	1,110,993.059			151.13	
1997	12	564,102.276	0.000	280,189.93	903808.617291911	1,748,100.828			138.58	
1998	1	621,252.813	0.000	290,575.19	904205.317810892	1,816,033.319			142.74	
1998	2	588,836.852	0.000	250,074.87	714760.532234516	1,553,672.256			142.47	
1998	3	465,425.181	29.549	236,453.75	691420.339850062	1,393,328.818			142.61	
1998	4	279,443.314	38,548.876	229,863.44	611308.190130591	1,159,163.822			142.77	
1998	5	41,462.419	21,404.285	209,569.59	654584.797351694	927,021.092			142.28	
1998	6	955.619	127,852.778	195,017.95	679883.953662134	1,003,710.299			142.26	
1998	7	410.635	270,712.129	184,622.95	787946.860620443	1,243,692.578			142.40	
1998	8	0.000	268,448.734	183,968.74	797785.065484491	1,250,202.536			142.60	
1998	9	0.000	270,220.949	205,354.72	743785.894278549	1,219,361.560			142.46	
1998	10	7,719.030	161,913.334	220,517.03	604369.844320480	994,519.240			142.64	
1998	11	154,651.809	11,841.063	238,959.39	673783.715675348	1,079,235.976			142.90	
1998	12	325,618.466	2,761.134	276,429.79	854710.515645736	1,459,519.909			143.05	
1999	1	859,219.921	1,207.994	290,943.78	844909.358199986	1,996,281.053			143.20	
1999	2	535,661.326	0.000	250,123.53	680370.299158057	1,466,155.153			143.17	
1999	3	631,264.380	0.000	236,466.81	692475.805713527	1,560,206.995			143.34	
1999	4	336,114.803	8,773.957	229,913.99	648738.696023838	1,223,541.450			143.20	
1999	5	40,243.256	29,501.171	209,399.98	587400.797047350	866,545.205			142.92	
1999	6	0.000	142,672.601	194,779.20	640076.055166230	977,527.859			142.95	
1999	7	0.000	327,777.154	184,495.48	755535.732182948	1,267,808.366			142.96	
1999	8	0.000	391,076.573	183,912.73	812462.064521636	1,387,451.367			143.05	
1999	9	167.207	206,467.414	205,102.77	715041.311893779	1,126,778.699			143.10	
1999	10	18,220.323	42,013.745	220,348.08	620082.795873732	900,664.947			143.24	

Residential Model Output

Year	Month	Usage								Customers
		Heat	Cool	Lighting	Other	Total	Customers			
1999	11	150,669.688	2,330.506	238,751.93	656988.435498136	1,048,740.561	143.40			
1999	12	404,978.815	0.000	276,224.07	820196.153524564	1,501,399.042	143.57			
2000	1	764,727.135	0.000	290,657.71	867056.251868500	1,922,441.096	143.87			
2000	2	905,843.032	0.000	249,789.37	766322.254373950	1,921,954.653	143.93			
2000	3	347,360.003	1,832.438	236,353.33	730364.422593370	1,315,910.192	143.86			
2000	4	197,589.323	4,383.293	230,198.63	643201.765136059	1,075,373.007	143.46			
2000	5	73,077.798	47,408.930	209,452.51	668084.547679771	998,023.788	143.43			
2000	6	173,530	137,749.627	194,926.37	715297.166383499	1,048,146.689	143.30			
2000	7	0.000	248,374.387	184,647.90	787893.344978999	1,220,915.630	143.30			
2000	8	0.000	209,505.301	184,022.80	792438.859211676	1,185,966.961	143.44			
2000	9	855.799	188,614.012	205,206.83	752207.023490241	1,146,883.664	143.54			
2000	10	46,223.871	63,766.623	220,484.75	650529.011170876	981,004.260	143.67			
2000	11	157,310.928	8,782.230	239,016.50	629410.518974036	1,034,520.179	143.79			
2000	12	763,844.605	0.000	276,232.96	802301.057686917	1,842,378.621	144.23			
2001	1	#####	0.000	290,903.05	968240.109219193	2,442,094.257	144.22			
2001	2	819,078.645	0.000	250,090.60	745446.364281074	1,814,615.611	144.27			
2001	3	565,623.557	0.000	236,758.89	717663.616767094	1,520,046.059	144.12			
2001	4	399,321.966	35,408.720	230,328.98	659985.601538953	1,325,045.264	143.98			
2001	5	60,668.024	78,242.440	209,616.34	631234.581804166	979,761.380	143.93			
2001	6	3,723.548	87,400.847	195,121.10	691491.186815960	977,736.682	143.85			
2001	7	0.000	215,425.975	185,005.21	792846.426947892	1,193,277.617	143.85			
2001	8	0.000	301,820.062	184,430.18	804474.324798098	1,290,724.566	143.91			
2001	9	175.108	243,246.385	205,661.27	771455.611964909	1,220,538.372	144.01			
2001	10	35,605.150	58,258.878	221,218.09	661618.618392811	976,700.738	144.14			
2001	11	170,484.916	17,088.932	239,782.42	723909.810849340	1,151,266.077	144.21			
2001	12	243,494.891	593.191	277,346.59	892657.651022117	1,414,092.325	144.45			
2002	1	850,748.403	0.000	292,014.37	930406.902465792	2,073,169.676	144.78			
2002	2	627,545.336	0.000	251,166.57	793720.066907706	1,672,431.977	144.64			
2002	3	550,550.044	1,063.902	237,680.27	815579.286398109	1,604,873.501	144.57			
2002	4	303,067.652	16,672.509	231,220.46	744859.205942314	1,295,819.825	144.47			
2002	5	79,968.984	47,116.679	210,699.59	608320.761158914	946,106.019	144.10			
2002	6	47,875.417	128,646.877	196,018.39	730735.753830163	1,103,276.438	144.17			
2002	7	0.000	291,504.404	185,718.33	878989.270388716	1,356,212.003	144.16			
2002	8	0.000	355,952.384	185,157.95	884180.205227841	1,425,290.540	144.24			
2002	9	0.000	325,907.802	206,533.24	769427.480506692	1,301,868.519	144.23			

Residential Model Output

Year	Month	Usage								Customers
		Heat	Cool	Lighting	Other	Total	Customers			
2002	10	17,312.840	128,879.894	221,855.51	638318.834398441	1,006,367.079	144.28			
2002	11	211,177.104	12,698.659	240,488.04	655468.149070093	1,119,831.951	144.47			
2002	12	693,717.081	1,839.188	278,156.43	866974.372311268	1,840,687.068	144.70			
2003	1	854,934.491	0.000	292,547.51	1046915.725942140	2,194,397.728	144.90			
2003	2	#####	0.000	251,533.64	778394.816506051	2,098,001.263	144.85			
2003	3	710,950.562	0.000	238,100.28	758934.009877095	1,707,984.851	144.70			
2003	4	193,497.528	14,277.374	231,831.58	704018.520446928	1,143,625.004	144.42			
2003	5	41,486.428	35,261.471	211,066.28	646907.853366261	934,722.031	144.25			
2003	6	0.000	49,869.776	196,453.71	701629.108978770	947,952.593	144.18			
2003	7	0.000	207,880.872	186,405.41	817514.221822741	1,211,800.500	144.13			
2003	8	0.000	235,958.643	183,813.27	824094.999710590	1,243,866.914	144.29			
2003	9	0.000	237,019.874	207,940.07	815972.455309336	1,260,932.394	144.41			
2003	10	48,607.581	33,693.793	222,814.24	661963.818272965	967,079.429	144.41			
2003	11	132,512.521	7,829.404	239,879.01	680264.787534331	1,060,485.720	144.47			
2003	12	510,755.770	977.548	277,306.66	938604.449563786	1,727,644.432	144.85			
2004	1	858,047.430	798.345	292,983.80	1077075.747272020	2,228,905.325	145.10			
2004	2	987,445.009	237.700	251,718.19	876877.844867660	2,116,278.744	144.85			
2004	3	565,878.734	2,110.763	238,368.64	786919.387194648	1,593,277.528	144.79			
2004	4	326,973.694	12,226.452	235,663.30	717544.436607829	1,292,407.887	144.67			
2004	5	78,563.006	65,967.691	210,298.30	655389.990279884	1,010,218.989	144.36			
2004	6	5,726.126	190,343.623	197,930.54	759824.925892840	1,153,825.211	144.12			
2004	7	0.000	239,937.026	186,984.50	863252.528471335	1,290,174.059	144.04			
2004	8	0.000	226,237.072	185,153.70	796499.434200011	1,207,890.210	144.07			
2004	9	0.000	203,427.672	204,326.56	753043.550575824	1,160,797.780	144.08			
2004	10	13,451.614	60,080.818	223,390.11	680355.590916567	977,278.137	144.16			
2004	11	85,080.858	11,766.195	239,554.34	664506.541699222	1,000,907.938	144.36			
2004	12	437,975.833	1,908.610	281,285.78	915807.344233311	1,636,977.562	144.62			
2005	1	756,608.107	0.000	291,500.27	1021964.568244010	2,070,072.947	144.90			
2005	2	815,051.610	0.000	251,640.65	882770.318532136	1,949,462.577	144.42			
2005	3	691,828.068	0.000	240,020.01	840039.719308775	1,771,887.800	145.26			
2005	4	333,898.001	5,464.434	235,814.11	733754.085150958	1,308,930.627	144.96			
2005	5	93,037.056	19,401.990	208,959.99	699938.461756231	1,021,337.501	144.30			
2005	6	13,264.114	118,438.119	195,542.20	741986.994304332	1,069,231.423	144.34			
2005	7	0.000	332,639.741	184,881.46	815799.654554376	1,333,320.855	144.27			
2005	8	0.000	415,806.318	187,770.49	856504.051450748	1,460,080.863	144.23			

Residential Model Output

Year	Month	Usage							Customers
		Heat	Cool	Lighting	Other	Total	Customers		
2005	9	0.000	320,387.408	206,578.42	809099.925910332		1,336,065.753	144.19	
2005	10	7,924.746	142,888.402	219,994.28	662936.527188102		1,033,743.952	144.22	
2005	11	201,313.000	9,069.196	242,304.93	667449.119000989		1,120,136.249	144.42	
2005	12	738,865.250	1,444.546	275,713.16	884416.285813703		1,900,439.239	144.64	
2006	1	761,084.529	0.000	294,236.79	1152402.135577370		2,207,723.455	144.83	
2006	2	578,459.101	0.000	252,801.66	973575.649096354		1,804,836.408	144.53	
2006	3	636,176.460	1,194.808	235,567.00	753889.218867332		1,626,827.484	145.01	
2006	4	331,732.512	14,445.253	223,606.49	692631.362658680		1,262,415.620	144.56	
2006	5	28,257.276	25,275.962	213,823.24	672798.109503158		940,154.584	144.26	
2006	6	5,577.973	97,676.530	195,433.99	759089.582177139		1,057,778.074	144.12	
2006	7	0.000	239,462.909	185,717.75	846096.127161729		1,271,276.787	144.12	
2006	8	0.000	362,082.434	184,634.32	877456.823561938		1,424,173.576	144.25	
2006	9	1,316.260	240,524.728	207,581.83	805659.047583289		1,255,081.861	144.27	
2006	10	53,728.934	33,398.632	224,530.73	659579.646988666		971,237.941	144.31	
2006	11	288,397.691	2,244.732	239,099.14	702345.888454291		1,232,087.454	144.55	
2006	12	497,505.065	2,566.459	275,278.32	999627.869207884		1,774,977.718	144.55	
2007	1	550,429.687	290.972	287,659.62	1056026.579793600		1,894,406.857	144.82	
2007	2	985,387.749	0.000	246,183.98	983081.353545005		2,214,653.080	144.84	
2007	3	827,473.568	1,975.210	235,143.96	781245.636465433		1,845,838.374	144.49	
2007	4	302,131.688	27,183.099	235,063.07	706525.022659841		1,270,902.878	144.18	
2007	5	110,744.646	45,838.522	209,902.56	678614.381287887		1,045,100.111	143.84	
2007	6	4,627.911	164,635.323	190,823.87	785824.797477690		1,145,911.905	143.74	
2007	7	0.000	263,360.515	179,770.92	828226.091701994		1,271,357.531	143.67	
2007	8	0.000	304,042.134	183,460.70	856885.882694867		1,344,388.713	143.97	
2007	9	0.000	345,223.784	203,223.14	897167.150928638		1,445,614.073	144.12	
2007	10	9,198.468	156,304.245	217,934.75	685312.601131377		1,068,750.061	144.09	
2007	11	182,257.105	26,891.900	241,712.83	689443.898591369		1,140,305.734	144.18	
2007	12	555,794.696	0.000	272,558.61	861817.214190626		1,690,170.525	144.54	
2008	1	773,876.934	0.000	283,551.75	1057483.612605460		2,114,912.301	144.83	
2008	2	842,040.532	0.000	243,139.25	921431.621952459		2,006,611.404	144.69	
2008	3	716,622.604	0.000	232,324.36	856118.099747319		1,805,065.064	144.37	
2008	4	338,012.797	1,307.859	230,278.06	771580.497053014		1,341,179.216	143.99	
2008	5	71,660.260	16,273.406	201,915.65	671407.011834967		961,256.323	143.80	
2008	6	5,152.041	101,443.042	189,461.46	769916.408595419		1,065,972.952	143.71	
2008	7	0.000	208,283.178	179,114.80	857807.938039090		1,245,205.920	143.79	

Residential Model Output

Year	Month	Usage							Customers
		Heat	Cool	Lighting	Other	Total	Customers		
2008	8	0.000	247,669.066	182,355.04	872113.573796516			1,302,137.681	143.83
2008	9	0.000	233,611.157	199,502.88	804747.130705746			1,237,861.166	143.86
2008	10	11,955.005	88,554.970	213,790.79	678598.713859242			992,899.482	143.88
2008	11	195,023.345	10,510.109	232,058.22	788969.648574988			1,226,561.320	144.02
2008	12	553,609.376	1,655.352	268,150.52	976720.422539111			1,800,135.671	144.28
2009	1	898,384.209	355.358	276,031.80	1036939.847257610			2,211,711.211	144.48
2009	2	877,156.874	39.447	237,151.29	844602.436355630			1,958,950.051	144.47
2009	3	630,498.894	1,062.936	224,435.35	812650.432519565			1,668,647.614	144.14
2009	4	325,867.805	11,033.665	218,325.62	727459.430356504			1,282,686.519	143.82
2009	5	81,998.108	36,829.727	198,720.97	713469.445044578			1,031,018.250	143.60
2009	6	9,145.946	117,920.257	184,834.99	786732.057222968			1,098,633.251	143.53
2009	7	46.525	247,965.886	174,959.74	899556.959160632			1,322,529.108	143.57
2009	8	0.000	289,319.984	174,237.77	884074.452808581			1,347,632.206	143.69
2009	9	350.273	234,572.061	194,171.60	813438.363493564			1,242,532.301	143.78
2009	10	32,023.577	74,430.509	208,564.21	718308.664345828			1,033,326.961	143.75
2009	11	194,274.066	10,378.436	225,961.75	789111.831217890			1,219,726.079	143.89
2009	12	551,590.923	1,634.868	261,142.53	977000.114853072			1,791,368.440	144.17
2010	1	897,082.131	351.881	260,377.43	1038180.290577850			2,195,991.733	144.41
2010	2	876,292.328	39.078	223,804.10	845972.206096903			1,946,107.713	144.35
2010	3	630,273.854	1,053.501	211,911.97	814251.635570242			1,657,490.957	144.01
2010	4	326,487.172	10,959.890	206,394.72	729986.766096278			1,273,828.549	143.68
2010	5	82,151.000	36,582.410	187,855.99	715868.886489748			1,022,458.282	143.46
2010	6	9,162.293	117,120.969	174,717.89	789042.373892137			1,090,043.528	143.39
2010	7	46.674	246,643.261	165,477.77	902262.816836186			1,314,430.524	143.45
2010	8	0.000	287,828.925	164,826.36	886777.301220584			1,339,432.590	143.56
2010	9	351.552	233,410.392	183,726.32	816551.503467828			1,234,039.765	143.61
2010	10	32,170.355	74,130.768	197,413.61	721672.550431729			1,025,387.288	143.62
2010	11	195,152.107	10,336.079	213,869.16	792499.585471705			1,211,856.926	143.76
2010	12	554,240.412	1,628.582	247,230.17	980950.279774816			1,784,049.447	144.01
2011	1	901,902.931	351.076	247,031.41	1042541.944129090			2,191,827.362	144.26
2011	2	881,300.881	39.002	212,431.82	850213.546330340			1,943,985.252	144.06
2011	3	633,073.228	1,050.171	200,837.60	817260.322881554			1,652,221.321	144.10
2011	4	327,828.745	10,922.095	195,539.46	732825.602048840			1,267,115.903	143.82
2011	5	82,517.550	36,469.579	178,057.41	718967.426523451			1,016,011.965	143.49
2011	6	9,204.957	116,779.647	165,634.19	792249.205042927			1,083,868.000	143.41

Residential Model Output

Year	Month	Usage							Customers
		Heat	Cool	Lighting	Other	Total	Customers		
2011	7	46.924	246,072.657	156,984.40	905850.238706384			1,308,954.217	143.39
2011	8	0.000	287,221.777	156,399.44	890337.522807925			1,333,958.740	143.49
2011	9	353.499	232,913.528	174,329.95	820345.680236826			1,227,942.653	143.54
2011	10	32,362.465	73,995.613	187,392.73	725588.912405169			1,019,339.724	143.58
2011	11	196,295.785	10,316.247	202,988.86	796353.819232176			1,205,954.714	143.75
2011	12	557,428.740	1,625.307	234,625.81	985113.393700412			1,778,793.252	144.03
2012	1	907,183.187	350.702	234,304.14	1047359.729259380			2,189,197.762	144.31
2012	2	886,329.375	38.956	201,457.41	854387.925053244			1,942,213.667	144.13
2012	3	636,592.092	1,048.782	190,434.28	821255.795263664			1,649,330.951	144.20
2012	4	329,596.387	10,906.002	185,392.81	736861.721899222			1,262,756.925	143.95
2012	5	82,953.218	36,412.280	168,798.73	722825.763707976			1,010,989.988	143.63
2012	6	9,252.508	116,584.590	157,003.49	796070.710696167			1,078,911.302	143.58
2012	7	47.152	245,590.042	148,780.75	909481.686130201			1,303,899.626	143.57
2012	8	0.000	286,641.657	148,215.98	893784.415698712			1,328,642.053	143.69
2012	9	355.174	232,429.850	165,197.00	823962.319100035			1,221,944.342	143.75
2012	10	32,506.302	73,820.659	177,545.02	729009.679650264			1,012,881.657	143.80
2012	11	197,158.414	10,291.398	192,311.61	799751.255455244			1,199,512.680	143.99
2012	12	559,852.314	1,621.324	222,273.53	988804.484054891			1,772,551.655	144.28
2013	1	910,789.050	350.059	224,354.30	1050649.356940360			2,186,142.767	144.56
2013	2	889,651.129	38.877	192,866.97	857203.713518738			1,939,760.688	144.39
2013	3	638,829.704	1,046.479	182,279.73	823917.301903200			1,646,073.212	144.47
2013	4	330,567.097	10,876.384	177,388.53	739358.551006245			1,258,190.561	144.22
2013	5	83,179.074	36,307.070	161,482.64	725155.686807195			1,006,124.470	143.91
2013	6	9,275.424	116,225.351	150,169.69	798295.9566414841			1,073,966.417	143.85
2013	7	47.245	244,725.788	142,257.01	911472.992903512			1,298,503.033	143.85
2013	8	0.000	285,584.529	141,693.25	895630.253238241			1,322,908.031	143.97
2013	9	355.730	231,536.838	157,902.81	825856.441614394			1,215,651.815	144.03
2013	10	32,544.981	73,513.499	169,660.52	730690.197624676			1,006,409.201	144.08
2013	11	197,357.981	10,247.183	183,746.86	801362.187542771			1,192,714.213	144.26
2013	12	560,310.043	1,614.117	212,343.26	990443.696352462			1,764,711.120	144.56
2014	1	911,404.256	348.844	213,460.29	1052776.248902870			2,177,989.636	144.83
2014	2	890,276.291	38.743	183,507.17	859120.538884673			1,932,942.739	144.66
2014	3	639,299.639	1,042.907	173,439.50	825834.233822904			1,639,616.275	144.74
2014	4	330,781.594	10,838.294	168,779.40	741330.952506019			1,251,730.237	144.48
2014	5	83,236.253	36,181.172	153,651.08	727101.792574895			1,000,170.297	144.17

Residential Model Output

Year	Month	Usage							Customers
		Heat	Cool	Lighting	Other	Total	Customers		
2014	6	9,282.278	115,827.494	142,893.40	800282.114167843	1,068,285.288	144.11		
2014	7	47.279	243,881.438	135,364.73	913469.708152767	1,292,763.159	144.10		
2014	8	0.000	284,612.545	134,834.87	897603.516241239	1,317,050.935	144.22		
2014	9	356.024	230,759.622	150,267.12	827976.866157310	1,209,359.637	144.28		
2014	10	32,571.196	73,264.427	161,456.41	732737.830304711	1,000,029.862	144.32		
2014	11	197,526.742	10,212.903	174,869.49	803426.668204242	1,186,035.807	144.50		
2014	12	560,818.892	1,608.791	202,094.00	992695.946813505	1,757,217.632	144.79		
2015	1	912,165.755	348.056	205,793.79	1055233.194132640	2,173,540.794	145.06		
2015	2	891,042.337	38.657	176,921.12	861337.926627406	1,929,340.045	144.88		
2015	3	639,866.196	1,040.603	167,219.48	828049.354235931	1,636,175.630	144.96		
2015	4	331,064.588	10,814.030	162,725.78	743640.817774728	1,248,245.211	144.69		
2015	5	83,309.580	36,101.127	148,144.22	729387.624480294	996,942.554	144.37		
2015	6	9,290.683	115,574.319	137,776.03	802626.146175055	1,065,267.180	144.31		
2015	7	47.320	243,337.033	130,514.69	915815.666625869	1,289,714.710	144.30		
2015	8	0.000	283,984.564	130,007.45	899901.527218252	1,313,893.537	144.41		
2015	9	356.344	230,256.225	144,891.10	830405.528020323	1,205,909.192	144.47		
2015	10	32,599.907	73,103.903	155,681.68	735092.456105824	996,477.947	144.51		
2015	11	197,704.744	10,190.789	168,619.70	805775.926063676	1,182,291.157	144.68		
2015	12	561,336.009	1,605.351	194,876.88	995242.176542409	1,753,060.416	144.97		
2016	1	913,011.834	347.737	199,702.81	1058336.163857510	2,171,398.547	145.24		
2016	2	891,912.186	38.623	171,692.92	864146.865906545	1,927,790.598	145.06		
2016	3	640,522.819	1,039.750	162,285.93	830859.404072026	1,634,707.900	145.12		
2016	4	331,429.487	10,805.968	157,935.79	746616.347967929	1,246,787.595	144.86		
2016	5	83,405.681	36,075.962	143,790.40	732350.835240896	995,622.874	144.54		
2016	6	9,301.963	115,500.164	133,734.27	805701.642279004	1,064,238.034	144.47		
2016	7	47.382	243,202.802	126,698.10	918970.865283548	1,288,919.153	144.46		
2016	8	0.000	283,844.215	126,212.84	902990.709637093	1,313,047.763	144.57		
2016	9	356.857	230,155.601	140,669.98	833658.507440391	1,204,840.942	144.62		
2016	10	32,649.646	73,077.706	151,160.93	738311.849684915	995,200.127	144.65		
2016	11	198,019.563	10,187.737	163,732.72	808996.603027600	1,180,936.622	144.82		
2016	12	562,269.172	1,604.969	189,240.31	998770.517664317	1,751,884.968	145.11		
2017	1	914,031.236	347.932	193,149.26	1061652.051766300	2,169,180.484	145.37		
2017	2	892,955.737	38.647	166,066.02	867147.223719893	1,926,207.629	145.19		
2017	3	641,311.093	1,040.434	156,975.08	833859.901292133	1,633,186.510	145.25		
2017	4	331,848.578	10,813.321	152,775.83	749774.129755943	1,245,211.854	144.98		

Residential Model Output

Year	Month	Usage							Customers
		Heat	Cool	Lighting	Other	Total	Customers		
2017	5	83,515.936	36,102.220	139,098.87	735500.628501500	994,217.649	144.66	144.66	
2017	6	9,314.762	115,589.348	129,376.35	808976.886346309	1,063,257.346	144.59	144.59	
2017	7	47.447	243,389.295	122,572.07	922264.724972197	1,288,273.535	144.57	144.57	
2017	8	0.000	284,073.607	122,107.48	906202.199919604	1,312,383.285	144.68	144.68	
2017	9	357.386	230,350.889	136,099.67	837021.937418950	1,203,829.878	144.73	144.73	
2017	10	32,697.699	73,138.154	146,249.18	741568.327887779	993,653.362	144.76	144.76	
2017	11	198,320.393	10,196.534	158,418.05	812241.357599303	1,179,176.330	144.93	144.93	
2017	12	563,149.224	1,606.410	183,103.83	1002316.299863210	1,750,175.760	145.21	145.21	
2018	1	915,598.266	348.613	186,952.19	1065825.166220950	2,168,724.230	145.47	145.47	
2018	2	894,515.061	38.723	160,741.45	870901.181727502	1,926,196.418	145.29	145.29	
2018	3	642,450.748	1,042.518	151,945.27	837585.658919761	1,633,024.193	145.35	145.35	
2018	4	332,424.502	10,834.445	147,876.07	753611.494763376	1,244,746.508	145.08	145.08	
2018	5	83,663.028	36,173.403	134,640.14	739311.792520546	993,788.360	144.75	144.75	
2018	6	9,331.426	115,819.526	125,231.64	812932.911313523	1,063,315.501	144.68	144.68	
2018	7	47.531	243,865.403	118,643.84	926206.563756401	1,288,763.335	144.66	144.66	
2018	8	0.000	284,637.273	118,197.33	910028.192677212	1,312,862.796	144.77	144.77	
2018	9	358.044	230,814.408	131,745.02	841009.178408923	1,203,926.646	144.81	144.81	
2018	10	32,757.753	73,284.071	141,570.87	745445.614166739	993,058.305	144.84	144.84	
2018	11	198,694.064	10,217.225	153,355.48	816099.000309385	1,178,365.769	145.01	145.01	
2018	12	564,236.959	1,609.724	177,258.09	1006538.341621830	1,749,643.117	145.28	145.28	
2019	1	917,460.856	349.621	181,076.66	1070557.737751340	2,169,444.876	145.55	145.55	
2019	2	896,373.523	38.836	155,694.30	875161.761361366	1,927,268.417	145.36	145.36	
2019	3	643,812.997	1,045.595	147,178.59	841815.669049830	1,633,852.847	145.42	145.42	
2019	4	333,133.522	10,866.427	143,241.05	758010.946706781	1,245,251.942	145.14	145.14	
2019	5	83,844.598	36,281.107	130,423.23	743689.184116763	994,238.116	144.81	144.81	
2019	6	9,351.927	116,166.364	121,311.50	817484.353847920	1,064,314.150	144.74	144.74	
2019	7	47.636	244,596.635	114,932.89	930767.343136445	1,290,344.499	144.71	144.71	
2019	8	0.000	285,493.859	114,501.68	914437.747891448	1,314,433.287	144.81	144.81	
2019	9	358.848	231,511.570	127,627.29	845586.989396977	1,205,084.696	144.86	144.86	
2019	10	32,831.593	73,505.481	137,148.99	749916.255699946	993,402.319	144.88	144.88	
2019	11	199,144.922	10,248.170	148,566.81	820529.333982640	1,178,489.233	145.05	145.05	
2019	12	565,522.528	1,614.604	171,723.79	1011374.938856960	1,750,235.864	145.32	145.32	
2020	1	919,795.430	350.519	175,619.05	1075894.032282660	2,171,659.033	145.58	145.58	
2020	2	898,673.663	38.937	151,004.13	879955.714439926	1,929,672.448	145.39	145.39	
2020	3	645,473.483	1,048.306	142,746.52	846561.792402988	1,635,830.100	145.45	145.45	

Residential Model Output

Year	Month	Usage								Customers
		Heat	Cool	Lighting	Other	Total	Customers			
2020	4	333,999.038	10,894.774	138,930.23	762943.856089334	1,246,767.894	145.17			
2020	5	84,063.101	36,375.953	126,499.16	748587.319176530	995,525.530	144.84			
2020	6	9,376.382	116,470.837	117,662.65	822575.058342163	1,066,084.927	144.76			
2020	7	47.761	245,239.801	111,477.06	935861.845440620	1,292,626.471	144.73			
2020	8	0.000	286,246.323	111,059.76	919360.183536089	1,316,666.267	144.83			
2020	9	359.794	232,122.783	123,791.65	850677.982174261	1,206,952.212	144.87			
2020	10	32,918.467	73,700.263	133,027.46	754858.180061780	994,504.370	144.90			
2020	11	199,672.463	10,275.372	144,103.12	825411.835792492	1,179,462.791	145.06			
2020	12	567,020.620	1,618.894	166,565.21	1016687.605720320	1,751,892.332	145.33			
2021	1	922,582.663	351.835	172,594.12	1081116.554196530	2,176,645.168	145.59			
2021	2	901,423.214	39.084	148,407.34	884652.642905695	1,934,522.279	145.40			
2021	3	647,468.614	1,052.295	140,295.85	851220.724532788	1,640,037.486	145.45			
2021	4	335,049.053	10,936.762	136,549.58	767789.628457583	1,250,325.028	145.17			
2021	5	84,330.338	36,517.240	124,335.54	753413.912185121	998,597.027	144.84			
2021	6	9,406.540	116,926.924	115,654.10	827608.752720007	1,069,596.322	144.76			
2021	7	47.918	246,219.020	109,579.49	940922.036728246	1,296,768.470	144.73			
2021	8	0.000	287,396.392	109,172.33	924257.846487485	1,320,826.573	144.82			
2021	9	361.000	233,060.523	121,690.90	855752.529425131	1,210,864.947	144.86			
2021	10	33,031.898	74,004.779	130,777.85	759828.460010861	997,642.984	144.88			
2021	11	200,363.912	10,317.993	141,668.99	830331.073209061	1,182,681.969	145.04			
2021	12	568,995.925	1,625.640	163,755.30	1022057.623969640	1,756,434.492	145.31			
2022	1	925,712.574	353.600	170,649.88	1087179.513170320	2,183,895.562	145.57			
2022	2	904,493.806	39.280	146,737.94	890093.725905159	1,941,364.748	145.37			
2022	3	649,683.908	1,057.603	138,720.08	856604.640105869	1,646,066.228	145.42			
2022	4	336,219.438	10,992.704	135,021.68	773389.592814945	1,255,623.419	145.14			
2022	5	84,626.282	36,704.576	122,946.53	758981.162333583	1,003,258.551	144.80			
2022	6	9,439.741	117,528.917	114,364.51	833407.994092913	1,074,741.166	144.72			
2022	7	48.090	247,496.632	108,360.67	946721.317951275	1,302,626.705	144.69			
2022	8	0.000	288,892.623	107,960.18	929859.482911156	1,326,712.286	144.79			
2022	9	362.302	234,277.377	120,341.87	861548.574634831	1,216,530.125	144.82			
2022	10	33,150.920	74,390.829	129,327.74	765453.871284376	1,002,323.360	144.84			
2022	11	201,088.891	10,371.972	140,100.57	835897.199611244	1,187,458.628	145.00			
2022	12	571,064.891	1,634.172	161,945.55	1028138.014466040	1,762,782.632	145.27			
2023	1	928,899.930	355.639	169,208.11	1093639.501653390	2,192,103.182	145.52			
2023	2	907,613.715	39.507	145,499.62	895886.342598326	1,949,039.185	145.32			

Residential Model Output

Year	Month	Usage							Total	Customers
		Heat	Cool	Lighting	Other					
2023	3	651,930.551	1,063.720	137,550.97	862331.308179788			1,652,876.548	145.37	
2023	4	337,364.152	11,055.685	133,879.09	779278.272246941			1,261,577.203	145.09	
2023	5	84,915.644	36,915.370	121,908.01	764835.753322456			1,008,574.781	144.75	
2023	6	9,472.195	118,205.835	113,400.55	839508.444824401			1,080,587.029	144.67	
2023	7	48,253	248,909.886	107,444.35	952773.074206690			1,309,175.561	144.63	
2023	8	0.000	290,548.030	107,049.52	935705.396979870			1,333,302.948	144.72	
2023	9	363.548	235,624.618	119,329.34	867598.643374025			1,222,916.149	144.76	
2023	10	33,264.259	74,816.636	128,238.54	771323.625884512			1,007,643.060	144.78	
2023	11	201,782.317	10,431.590	138,924.08	841710.740387457			1,192,848.729	144.93	
2023	12	573,052.971	1,643.609	160,589.99	1034498.521311570			1,769,785.087	145.20	
2024	1	932,024.473	357.870	168,021.99	1100683.676531400			2,201,088.006	145.44	
2024	2	910,671.165	39.755	144,480.36	902201.237279886			1,957,392.515	145.25	
2024	3	654,128.969	1,070.401	136,587.84	868569.980815784			1,660,357.186	145.29	
2024	4	338,500.008	11,125.051	132,941.65	785725.957846059			1,268,292.665	145.01	
2024	5	85,201.788	37,147.060	121,054.78	771241.224310532			1,014,644.853	144.67	
2024	6	9,504.111	118,947.645	112,606.92	846176.257331995			1,087,234.929	144.58	
2024	7	48.415	250,472.742	106,693.21	959422.445761799			1,316,636.814	144.55	
2024	8	0.000	292,371.855	106,301.09	942113.810541129			1,340,786.757	144.64	
2024	9	364.774	237,103.520	118,495.11	874215.640871462			1,230,179.047	144.67	
2024	10	33,376.740	75,287.030	127,344.21	777774.559364080			1,013,782.542	144.68	
2024	11	202,464.257	10,497.153	137,955.07	848083.175698247			1,198,999.658	144.83	
2024	12	574,987.183	1,653.932	159,469.33	1041452.782485740			1,777,563.229	145.10	
2025	1	935,187.212	360.279	166,986.66	1107523.680350100			2,210,057.834	145.35	
2025	2	913,759.016	40.023	143,589.92	908330.799290139			1,965,719.755	145.15	
2025	3	656,344.413	1,077.599	135,745.70	874622.653279787			1,667,790.365	145.19	
2025	4	339,640.806	11,199.689	132,122.32	791985.649311645			1,274,948.465	144.90	
2025	5	85,488.527	37,396.126	120,308.32	777458.655512730			1,020,651.629	144.56	
2025	6	9,536.024	119,744.379	111,911.90	852648.682457080			1,093,840.981	144.48	
2025	7	48.576	252,137.786	106,031.98	965852.064766583			1,324,070.403	144.44	
2025	8	0.000	294,313.329	105,641.60	948306.472605479			1,348,261.399	144.53	
2025	9	365.974	238,676.591	117,759.35	880599.987395037			1,237,401.902	144.56	
2025	10	33,483.696	75,780.041	126,546.25	783935.373372703			1,019,745.361	144.57	
2025	11	203,111.673	10,565.826	137,089.83	854161.171100872			1,204,928.503	144.72	
2025	12	576,820.709	1,664.739	158,467.96	1048077.324652940			1,785,030.732	144.99	
2026	1	938,126.893	362.737	166,006.65	1114792.093446310			2,219,288.370	145.23	

Residential Model Output

Year	Month	Usage							Total	Customers
		Heat	Cool	Lighting	Other	Other	Other	Other		
2026	2	916,628.993	40,296	142,746.90	914843.646544959				1,974,259.832	145.03
2026	3	658,403.343	1,084.943	134,948.26	881052.284826820				1,675,488.830	145.08
2026	4	340,674.014	11,274.945	131,337.96	798578.394788694				1,281,865.317	144.79
2026	5	85,748.316	37,647.284	119,593.83	784009.369516682				1,026,998.797	144.44
2026	6	9,564.948	120,547.943	111,246.76	859471.870314103				1,100,831.516	144.36
2026	7	48,719	253,811.264	105,396.77	972610.453807878				1,331,867.204	144.32
2026	8	0.000	296,265.044	105,008.22	954816.494541170				1,356,089.761	144.41
2026	9	367,053	240,258.189	117,052.86	887310.006896064				1,244,988.113	144.44
2026	10	33,580.777	76,278.546	125,783.87	790438.066959106				1,026,081.258	144.45
2026	11	203,699.409	10,635.274	136,263.31	860575.685950415				1,211,173.682	144.60
2026	12	578,485.458	1,675.669	157,511.58	1055069.990126790				1,792,742.698	144.86
2027	1	940,887.335	365.250	165,046.92	1122159.660223110				2,228,459.168	145.10
2027	2	919,327.565	40,575	141,921.93	921448.763149405				1,982,738.837	144.90
2027	3	660,342.139	1,092.460	134,168.50	887575.675648488				1,683,178.778	144.95
2027	4	341,678.948	11,353.110	130,580.31	805326.767629259				1,288,939.138	144.65
2027	5	86,001.431	37,908.330	118,904.25	790719.807629816				1,033,533.816	144.31
2027	6	9,593.188	121,383.838	110,605.44	866468.759740414				1,108,051.228	144.22
2027	7	48,864	255,573.626	104,790.33	979587.896655961				1,340,000.721	144.18
2027	8	0.000	298,322.155	104,404.12	961539.194562391				1,364,265.465	144.27
2027	9	368,141	241,926.513	116,379.63	894240.636037913				1,252,914.916	144.30
2027	10	33,680.978	76,809.700	125,062.11	797187.472077773				1,032,740.259	144.31
2027	11	204,307.431	10,709.334	135,481.59	867237.035937845				1,217,735.390	144.46
2027	12	580,212.293	1,687.337	156,608.01	1062340.254310340				1,800,847.899	144.72
2028	1	943,678.113	367.814	164,133.92	1129999.202921450				2,238,179.053	144.96
2028	2	922,075.238	40,860	141,139.56	928485.751030036				1,991,741.410	144.76
2028	3	662,330.732	1,100.168	133,431.38	894534.109688577				1,691,396.389	144.80
2028	4	342,727.746	11,433.829	129,868.31	812543.292130798				1,296,573.175	144.51
2028	5	86,267.529	38,178.601	118,258.35	797904.695459818				1,040,609.172	144.16
2028	6	9,623.123	122,251.804	110,007.00	873971.3686659637				1,115,853.298	144.07
2028	7	49,019	257,412.787	104,227.47	987079.599950894				1,348,768.879	144.03
2028	8	0.000	300,474.935	103,845.45	968765.533081166				1,373,085.918	144.11
2028	9	369,327	243,676.944	115,759.13	901706.005999918				1,261,511.407	144.14
2028	10	33,791.155	77,368.852	124,400.56	804481.023740221				1,040,041.587	144.15
2028	11	204,980.602	10,787.494	134,767.44	874450.722099422				1,224,986.255	144.30
2028	12	582,138.736	1,699.686	155,785.59	1070236.125732670				1,809,860.133	144.56

Residential Model Output

Year	Month	Usage							Customers
		Heat	Cool	Lighting	Other	Total	Customers		
2029	1	946,879.085	370.555	163,308.66	1137633.397	666380		2,248,191.693	144.80
2029	2	925,230.338	41.166	140,433.23	935340.172	206583		2,001,044.907	144.60
2029	3	664,616.862	1,108.420	132,766.73	901313.685	539589		1,699,805.700	144.64
2029	4	343,922.818	11,519.917	129,225.86	819565.104	195265		1,304,233.704	144.35
2029	5	86,571.103	38,467.028	117,676.32	804897.615	011706		1,047,612.069	144.00
2029	6	9,657.318	123,178.691	109,468.53	881275.760	936280		1,123,580.297	143.91
2029	7	49.195	259,376.338	103,721.73	994371.183	3834750		1,357,518.443	143.87
2029	8	0.000	302,774.754	103,344.17	975800.353	3090435		1,381,919.277	143.95
2029	9	370.683	245,548.041	115,203.11	908979.529	504132		1,270,101.366	143.98
2029	10	33,917.127	77,966.605	123,808.52	811591.670	0051209		1,047,283.918	143.99
2029	11	205,751.175	10,871.098	134,129.17	881489.436	292636		1,232,240.879	144.14
2029	12	584,346.657	1,712.902	155,051.61	1077949.288	566400		1,819,060.457	144.40
2030	1	950,598.880	373.479	163,016.88	1145891.902	2214130		2,259,881.141	144.64
2030	2	928,891.538	41.492	140,185.35	942749.726	546363		2,011,868.107	144.44
2030	3	667,265.638	1,117.216	132,535.16	908636.843	9993926		1,709,554.863	144.48
2030	4	345,307.310	11,611.722	129,004.03	827137.257	917657		1,313,060.323	144.19
2030	5	86,922.222	38,774.491	117,477.03	812432.957	826148		1,055,606.700	143.84
2030	6	9,696.794	124,166.298	109,285.74	889140.020	361407		1,132,288.852	143.75
2030	7	49.398	261,464.022	103,551.30	1002197.893	390790		1,367,262.615	143.71
2030	8	0.000	305,219.006	103,176.74	983346.878	126838		1,391,742.623	143.79
2030	9	372.235	247,535.919	115,018.99	916785.923	453829		1,279,713.068	143.82
2030	10	34,060.083	78,599.435	123,612.53	819202.376	368827		1,055,474.429	143.83
2030	11	206,624.529	10,959.589	133,919.85	889027.238	686585		1,240,531.211	143.98
2030	12	586,845.328	1,726.887	154,813.26	1086215.391	354860		1,829,600.869	144.24
2031	1	954,953.348	376.470	162,349.22	1153685.474	504410		2,271,364.513	144.48
2031	2	933,157.588	41.824	139,612.38	949735.858	235552		2,022,547.646	144.27
2031	3	670,337.121	1,126.180	131,994.37	915534.980	436561		1,718,992.647	144.31
2031	4	346,900.196	11,704.969	128,478.03	834255.101	110808		1,321,338.299	144.02
2031	5	87,324.224	39,086.209	116,999.09	819510.344	993180		1,062,919.865	143.67
2031	6	9,741.736	125,165.369	108,841.89	896519.022	440456		1,140,268.018	143.58
2031	7	49.628	263,570.952	103,131.03	1009530.615	048190		1,376,282.225	143.54
2031	8	0.000	307,680.371	102,758.62	990409.845	115041		1,400,848.836	143.62
2031	9	373.973	249,533.655	114,553.61	924081.616	319172		1,288,542.855	143.65
2031	10	34,219.913	79,235.541	123,113.98	826317.549	826127		1,062,886.987	143.66
2031	11	207,595.775	11,048.341	133,380.44	896063.416	964237		1,248,087.969	143.80

Residential Model Output

Year	Month	Usage								Customers
		Heat	Cool	Lighting	Other	Total	Customers			
2031	12	589,607.677	1,740.878	154,190.30	1093916.680840970	1,839,455.537			144.06	
2032	1	959,512.978	379.544	161,699.95	1161701.731581210	2,283,294.202			144.30	
2032	2	937,615.059	42.166	139,054.23	956916.448597910	2,033,627.905			144.10	
2032	3	673,539.350	1,135.376	131,466.63	922619.848091336	1,728,761.204			144.13	
2032	4	348,575.400	11,801.145	127,968.17	841589.730293100	1,329,934.448			143.84	
2032	5	87,745.935	39,407.348	116,534.81	826796.942083830	1,070,485.035			143.49	
2032	6	9,788.754	126,193.361	108,409.71	904109.416213901	1,148,501.240			143.40	
2032	7	49.870	265,746.428	102,724.39	1017096.034365550	1,385,616.724			143.36	
2032	8	0.000	310,218.572	102,353.05	997689.325951372	1,410,260.945			143.44	
2032	9	375.790	251,591.264	114,101.13	931595.339931388	1,297,663.522			143.46	
2032	10	34,387.690	79,892.412	122,631.49	833664.920449495	1,070,576.513			143.47	
2032	11	208,612.516	11,139.876	132,857.08	903323.555243060	1,255,933.027			143.62	
2032	12	592,491.076	1,755.289	153,584.28	1101857.701231710	1,849,688.349			143.88	
2033	1	964,272.421	382.709	161,069.38	1169972.577951380	2,295,697.085			144.12	
2033	2	942,266.394	42.517	138,512.02	964323.110767812	2,045,144.038			143.91	
2033	3	676,880.068	1,144.842	130,953.84	929925.874829008	1,738,904.625			143.95	
2033	4	350,319.239	11,900.030	127,473.32	849154.261013811	1,338,846.847			143.65	
2033	5	88,184.863	39,737.504	116,084.11	834310.545872125	1,078,317.025			143.30	
2033	6	9,837.695	127,250.230	107,990.16	911935.758477070	1,157,013.845			143.21	
2033	7	50.122	267,986.417	102,330.38	1024899.206824830	1,395,266.124			143.17	
2033	8	0.000	312,832.042	101,960.03	1005195.719250040	1,419,987.792			143.25	
2033	9	377.686	253,709.830	113,662.59	939342.633182976	1,307,092.736			143.27	
2033	10	34,563.104	80,569.530	122,163.91	841240.185703503	1,078,536.734			143.28	
2033	11	209,675.618	11,234.231	132,349.82	910808.661153843	1,264,068.329			143.43	
2033	12	595,506.739	1,770.145	152,996.90	1110046.298678910	1,860,320.080			143.69	
2034	1	969,276.431	385.980	160,459.74	1178506.692558530	2,308,628.846			143.92	
2034	2	947,159.180	42.881	137,987.98	971964.735219261	2,057,154.781			143.72	
2034	3	680,396.434	1,154.627	130,458.48	937463.135341970	1,749,472.681			143.76	
2034	4	352,164.137	12,002.577	126,996.19	856960.351508355	1,348,123.258			143.46	
2034	5	88,649.570	40,080.008	115,649.81	842064.004251917	1,086,443.394			143.11	
2034	6	9,889.566	128,347.184	107,586.24	920013.050953600	1,165,836.045			143.02	
2034	7	50.390	270,315.230	101,950.86	1032944.961937020	1,405,261.445			142.98	
2034	8	0.000	315,550.281	101,581.70	1012934.485629670	1,430,066.464			143.06	
2034	9	379.705	255,914.163	113,240.64	947330.188597739	1,316,864.698			143.09	
2034	10	34,750.684	81,276.027	121,714.83	849053.633526019	1,086,795.169			143.10	

Residential Model Output

Year	Month	Usage								Customers
		Heat	Cool	Lighting	Other	Total	Customers			
2034	11	210,813.216	11,332.706	131,862.65	918528.560923902	1,272,537.132			143.25	
2034	12	598,736.809	1,785.656	152,433.00	1118493.251930450	1,871,448.719			143.51	
2035	1	974,635.063	389.393	159,870.86	1187285.389636040	2,322,180.709			143.75	
2035	2	952,390.680	43.260	137,480.49	979816.286462238	2,069,730.718			143.54	
2035	3	684,150.591	1,164.824	129,977.55	945198.692402710	1,760,491.653			143.59	
2035	4	354,128.636	12,109.300	126,529.55	864945.196443733	1,357,712.686			143.30	
2035	5	89,143.550	40,436.100	115,223.79	849984.827600960	1,094,788.263			142.95	
2035	6	9,944.608	129,486.498	107,188.83	928254.174871926	1,174,874.113			142.86	
2035	7	50.672	272,728.059	101,575.03	1041130.669576610	1,415,484.432			142.82	
2035	8	0.000	318,363.801	101,205.93	1020798.288930980	1,440,368.022			142.91	
2035	9	381.831	258,193.591	112,820.37	955438.027366283	1,326,833.824			142.94	
2035	10	34,946.364	82,002.445	121,261.94	856944.198495430	1,095,154.945			142.95	
2035	11	211,998.347	11,433.874	131,370.17	926316.916201116	1,281,119.312			143.10	
2035	12	602,097.264	1,801.578	151,861.60	1127006.273322520	1,882,766.711			143.37	
2036	1	980,177.062	392.885	159,271.10	1196116.481686520	2,335,957.525			143.62	
2036	2	957,795.089	43.647	136,962.59	987707.830833879	2,082,509.153			143.42	
2036	3	688,024.536	1,175.238	129,485.81	952967.244500115	1,771,652.827			143.46	
2036	4	356,145.180	12,217.944	126,050.86	872953.784230054	1,367,367.767			143.17	
2036	5	89,650.124	40,798.395	114,786.07	857923.516949693	1,103,158.105			142.83	
2036	6	10,000.996	130,644.976	106,779.89	936507.701855646	1,183,933.560			142.75	
2036	7	50.961	275,174.959	101,188.09	1049328.444945060	1,425,742.456			142.71	
2036	8	0.000	321,215.873	100,818.68	1028670.516131890	1,450,705.069			142.81	
2036	9	383.997	260,503.347	112,386.85	963551.230655100	1,336,825.428			142.84	
2036	10	35,145.765	82,738.882	120,799.11	864872.398807386	1,103,556.160			142.86	
2036	11	213,205.379	11,536.411	130,866.61	934140.168006123	1,289,748.564			143.01	
2036	12	605,517.860	1,817.711	151,276.96	1135554.351091510	1,894,166.887			143.28	
2037	1	985,801.830	396.419	158,661.79	1205012.357768360	2,349,872.400			143.53	
2037	2	963,280.861	44.039	136,436.58	995657.325011112	2,095,418.800			143.34	
2037	3	691,957.439	1,185.784	128,986.54	960793.223450850	1,782,922.984			143.39	
2037	4	358,188.752	12,327.840	125,568.15	881046.025177471	1,377,130.772			143.11	
2037	5	90,163.605	41,164.916	114,344.88	865945.820412935	1,111,619.218			142.77	
2037	6	10,058.168	131,817.171	106,367.90	944849.036813022	1,193,092.279			142.69	
2037	7	51.254	277,650.414	100,800.38	1057632.726680330	1,436,134.776			142.66	
2037	8	0.000	324,101.992	100,430.96	1036647.186966970	1,461,180.136			142.75	
2037	9	386.193	262,841.251	111,953.12	971774.904822509	1,346,955.468			142.79	

Residential Model Output

Year	Month	Usage							Total	Customers
		Heat	Cool	Lighting	Other					
2037	10	35,347.187	83,482.314	120,334.60	872897.958005394				1,112,062.057	142.81
2037	11	214,425.349	11,639.959	130,361.75	942063.387937143				1,298,490.446	142.97
2037	12	608,977.122	1,834.009	150,691.48	1144216.133066110				1,905,718.746	143.24
2038	1	991,424.627	399.963	158,033.96	1213910.455543930				2,363,769.009	143.50
2038	2	968,767.680	44.433	135,895.13	1003611.708322010				2,108,318.952	143.31
2038	3	695,893.257	1,196.363	128,473.16	968627.087963093				1,794,189.870	143.36
2038	4	360,233.979	12,438.089	125,071.94	889148.958872517				1,386,892.965	143.08
2038	5	90,677.709	41,532.702	113,891.71	873980.703127673				1,120,082.826	142.75
2038	6	10,115.435	132,993.714	105,945.12	953205.374856588				1,202,259.641	142.67
2038	7	51.547	280,134.755	100,402.54	1065953.846637570				1,446,542.690	142.65
2038	8	0.000	326,999.126	100,033.43	1044642.576115010				1,471,675.136	142.74
2038	9	388.394	265,188.509	111,508.74	980020.299500497				1,357,105.939	142.79
2038	10	35,548.890	84,228.382	119,858.58	880944.249694636				1,120,580.104	142.81
2038	11	215,647.288	11,743.890	129,844.72	950008.787962241				1,307,244.687	142.97
2038	12	612,442.717	1,850.370	150,092.26	1152903.516447520				1,917,288.866	143.25

Residential Model Output

Year	Month	Energy						Total
		Heat	Cool	Lighting	Other			
1994	1	118233	0	39889.93	118006.1			276129
1994	2	112921.1	0	34299.75	65261.16			212482
1994	3	62980.95	11.43524	32435.44	95231.17			190659
1994	4	33966.02	760.653	31564.07	67093.26			133384
1994	5	4435.857	5556.2	28724.17	76443.77			115160
1994	6	581.7472	16345.31	26734.16	106170.8			149832
1994	7	0	45371.11	25355.82	107980.1			178707
1994	8	0	36001.03	25299.51	94889.46			156190
1994	9	0	21604.55	28241.01	62725.44			112571
1994	10	1433.408	5199.544	30398.62	91480.42			128512
1994	11	10666.79	531.9593	32995.78	114480.5			158675
1994	12	40182.33	235.1605	38226.79	133892.7			212537
1995	1	86447.23	0	40292.1	129172.7			255912
1995	2	104020.2	0	34675.35	83326.45			222022
1995	3	70125.05	0	32801.63	71526.32			174453
1995	4	26597.77	790.1123	31883.02	75260.1			134531
1995	5	9448.222	3180.46	29015.34	84227.98			125872
1995	6	628.7274	14889.9	27008.34	91098.03			133625
1995	7	0	34845.13	25600.25	131684.6			192130
1995	8	0	52328.64	25550.18	136061.2			213940
1995	9	77.08518	42807.21	28523.42	56573.28			127981
1995	10	2014.454	7778.307	30666.87	84840.37			125300
1995	11	29998.39	713.0259	33276.93	145916.7			209905
1995	12	80795.65	53.25248	38569.72	156894.4			276313
1996	1	131588.4	0	40667.09	120151.6			292407
1996	2	116750.9	0	34905.11	123435.8			275091.9
1996	3	79537.87	0	33083.77	104453.3			217075
1996	4	56335.98	919.6611	32136.68	100722.8			190115.1
1996	5	12239.46	9127.13	29237.6	84319.44			134923.6
1996	6	1748.533	20411.56	27213.55	89692.51			139066.2
1996	7	0	38665.29	25798.99	103021.7			167485.9
1996	8	0	34171.82	25732.63	100857.1			160761.5
1996	9	0	30717.53	28727.14	97450.27			156894.9
1996	10	3752.862	5510.496	30908.09	83859.13			124030.6
1996	11	30262.51	772.9288	33549.62	88148.01			152733.1

Residential Model Output

Year	Month	Energy						Total
		Heat	Cool	Lighting	Other	Other	Total	
1996	12	83538.83	202.4548	38877.24	109672.2		232290.7	
1997	1	95393.43	108.4301	41020.56	129105.6		265628	
1997	2	103049.9	80.08308	35268.64	102375.3		240773.9	
1997	3	55954.95	336.2259	33341.21	95964.19		185596.6	
1997	4	36783.34	790.7183	32446.88	96985.98		167006.9	
1997	5	16785.46	902.0991	29526.1	90162.75		137376.4	
1997	6	2636.348	6918.146	27484.99	90033.77		127073.3	
1997	7	0	32175.5	26070.67	107808.6		166054.8	
1997	8	0	38152.09	26024.43	107881.1		172057.6	
1997	9	0	21474.94	29041.9	99235.3		149752.2	
1997	10	2710.95	6608.61	31247.05	81709.63		122276.2	
1997	11	38852.91	1972.871	34836.64	92236.41		167898.8	
1997	12	78174.42	0	38829.28	125251.6		242255.3	
1998	1	88677.63	0	41476.7	129066.3		259220.6	
1998	2	83892.18	0	35628.42	101832.6		221353.2	
1998	3	66376.15	4.214111	33721.61	98606.22		198708.2	
1998	4	39896.4	5503.662	32817.83	87277.08		165495	
1998	5	5899.273	3045.402	29817.56	93134.32		131896.6	
1998	6	135.9435	18187.95	27742.67	96718.25		142784.8	
1998	7	58.47322	38548.59	26289.75	112201.3		177098.1	
1998	8	0	38281.33	26234.31	113765.7		178281.4	
1998	9	0	38494.33	29253.81	105956		173704.2	
1998	10	1101.066	23095.8	31455.21	86209.13		141861.2	
1998	11	22099.12	1692.041	34146.34	96281		154218.5	
1998	12	46579.07	394.9747	39542.73	122264.6		208781.4	
1999	1	123037.7	172.9811	41662.28	120988.5		285861.5	
1999	2	76689.56	0	35809.69	97407.25		209906.5	
1999	3	90483.54	0	33894.44	99257.4		223635.4	
1999	4	48129.96	1256.387	32922.53	92896.14		175205	
1999	5	5751.445	4216.219	29926.82	83949.56		123844	
1999	6	0	20395.19	27843.88	91499.51		139738.6	
1999	7	0	46857.38	26374.55	108007.6		181239.5	
1999	8	0	55943.5	26308.72	116222.7		198474.9	
1999	9	23.92709	29545.28	29350	102321.7		161240.9	
1999	10	2609.934	6018.175	31563.32	88822.52		129013.9	

Residential Model Output

Year	Month	Energy						Total
		Heat	Cool	Lighting	Other	Other	Total	
1999	11	21605.73	334.1899	34236.55	94210.83		150387.3	
1999	12	58144.43	0	39658.6	117758.8		215561.9	
2000	1	110020.5	0	41816.63	124742.5		276579.7	
2000	2	130381.6	0	35953.18	110299.8		276634.6	
2000	3	49971.9	263.6181	34002.26	105071.7		189309.5	
2000	4	28346.36	628.8316	33024.53	92274.37		154274.1	
2000	5	10481.84	6800.052	30042.61	95826.04		143150.5	
2000	6	24.86743	19739.93	27933.53	102504.2		150202.6	
2000	7	0	35591.55	26459.67	112903.5		174954.8	
2000	8	0	30051.02	26395.86	113665.8		170112.7	
2000	9	122.8423	27073.84	29455.59	107972.5		164624.8	
2000	10	6641.076	9161.478	31677.49	93462.8		140942.8	
2000	11	22619.9	1262.806	34368.42	90503.57		148754.7	
2000	12	110166.3	0	39839.97	115712.7		265718.9	
2001	1	170608.8	0	41954.91	139642.5		352206.2	
2001	2	118170.9	0	36081.32	107547.8		261800	
2001	3	81517.1	0	34121.45	103429		219067.5	
2001	4	57493.58	5098.077	33162.31	95023.41		190777.4	
2001	5	8732.07	11261.59	30170.5	90854.86		141019	
2001	6	535.6287	12572.52	28067.98	99470.32		140646.4	
2001	7	0	30989.67	26613.56	114053.3		171656.6	
2001	8	0	43435.23	26541.53	115772.7		185749.5	
2001	9	25.21772	35030.4	29617.69	111098.9		175772.2	
2001	10	5132.055	8397.318	31885.93	95364.38		140779.7	
2001	11	24586.31	2464.463	34579.98	104397.9		166028.7	
2001	12	35172.11	85.68462	40061.88	128941.7		204261.4	
2002	1	123168	0	42276.67	134700.6		300145.2	
2002	2	90765.02	0	36327.48	114799.7		241892.2	
2002	3	79593.02	153.8083	34361.44	117908.3		232016.6	
2002	4	43784.49	2408.694	33404.65	107610.6		187208.4	
2002	5	11523.29	6789.372	30361.18	87657.2		136331	
2002	6	6902.199	18547.02	28259.97	105350.2		159059.4	
2002	7	0	42024.15	26773.71	126717.7		195515.6	
2002	8	0	51340.79	26706.26	127529.7		205576.8	
2002	9	0	47006.99	29789.11	110977.6		187773.7	

Residential Model Output

Year	Month	Energy						Total
		Heat	Cool	Lighting	Other			
2002	10	2497.845	18594.4	32008.65	92094.73			145195.6
2002	11	30508.76	1834.575	34743.31	94695.48			161782.1
2002	12	100378.1	266.1232	40248.12	125447.7			266340.1
2003	1	123882.6	0	42391.01	151701.2			317974.8
2003	2	154708.2	0	36434.14	112748.9			303891.3
2003	3	102874.5	0	34453.11	109817.8			247145.4
2003	4	27943.95	2061.867	33479.96	101670.8			165156.6
2003	5	5984.417	5086.467	30446.31	93316.46			134833.7
2003	6	0	7190.075	28324.11	101158.8			136673
2003	7	0	29961.87	26866.61	117828.3			174656.8
2003	8	0	34046.47	26522.42	118908.7			179477.6
2003	9	0	34228.28	30028.83	117835.4			182092.5
2003	10	7019.226	4865.586	32175.71	95591.55			139652.1
2003	11	19143.55	1131.083	34654.36	98275.13			153204.1
2003	12	73982.97	141.5979	40167.87	135956.9			250249.3
2004	1	124499.2	115.8367	42510.78	156279.4			323405.2
2004	2	143027.5	34.42988	36460.37	127012.2			306534.5
2004	3	81933.02	305.6152	34513.16	113937.3			230689.1
2004	4	47303.28	1768.801	34093.41	103807.2			186972.6
2004	5	11341.28	9523.03	30358.45	94611.44			145834.2
2004	6	825.2321	27431.75	28525.16	109503.7			166285.8
2004	7	0	34559.81	26932.69	124340.3			185832.8
2004	8	0	32593.07	26674.35	114748.5			174015.9
2004	9	0	29310.06	29439.57	108499.3			167248.9
2004	10	1939.171	8661.191	32203.7	98079.38			140883.4
2004	11	12282.27	1698.568	34582.06	95928.16			144491.1
2004	12	63341.38	276.0288	40680.39	132446.8			236744.6
2005	1	109632.5	0	42238.39	148082.7			299953.6
2005	2	117705.7	0	36340.68	127485.3			281531.6
2005	3	100494.3	0	34865.07	122023.3			257382.7
2005	4	48400.18	792.0971	34182.43	106361.3			189736
2005	5	13425.43	2799.746	30153.34	101002.5			147381
2005	6	1914.569	17095.59	28224.95	107099.9			154335
2005	7	0	47991.27	26673.59	117698.7			192363.5
2005	8	0	59972.16	27082.33	123534.4			210588.9

Residential Model Output

Year	Month	Energy						Total
		Heat	Cool	Lighting	Other			
2005	9	0	46196.98	29786.75	116664.9		192648.7	
2005	10	1142.931	20607.79	31728.23	95610.69		149089.7	
2005	11	29073.42	1309.764	34993.44	96392.33		161769	
2005	12	106870.2	208.9406	39879.43	127922.9		274881.4	
2006	1	110227.9	0	42614.31	166902.4		319744.6	
2006	2	83604.69	0	36537.42	140710.9		260853	
2006	3	92253.86	173.2628	34160.28	109323.7		235911.1	
2006	4	47955.25	2088.206	32324.55	100126.8		182494.8	
2006	5	4076.338	3646.26	30845.71	97056.51		135624.8	
2006	6	803.8974	14077.14	28165.95	109400		152447	
2006	7	0	34510.92	26765.27	121937.7		183213.9	
2006	8	0	52229.67	26633.13	126571.4		205434.2	
2006	9	189.8955	34700.26	29947.62	116231.6		181069.4	
2006	10	7753.784	4819.857	32402.7	95185.92		140162.3	
2006	11	41686.44	324.4648	34560.59	101520.6		178092.1	
2006	12	71916.35	370.9919	39792.58	144500.2		256580.1	
2007	1	79710.48	42.13705	41657.43	152928.5		274338.5	
2007	2	142726.5	0	35658.03	142392.5		320777	
2007	3	119565	285.406	33976.89	112885.3		266712.6	
2007	4	43561.04	3919.232	33891.16	101866.1		183237.5	
2007	5	15929.62	6593.459	30192.59	97612.57		150328.2	
2007	6	665.2299	23665.18	27429.6	112956.8		164716.8	
2007	7	0	37835.95	25826.97	118987.9		182650.9	
2007	8	0	43772.95	26412.84	123365.9		193551.6	
2007	9	0	49752.96	29288.11	129297.9		208339	
2007	10	1325.38	22521.41	31401.56	98744.64		153993	
2007	11	26278.01	3877.301	34850.4	99404.71		164410.4	
2007	12	80335.68	0	39396.17	124568.8		244300.6	
2008	1	112076.7	0	41065.38	153150.1		306292.2	
2008	2	121834.8	0	35179.82	133321.9		290336.6	
2008	3	103455.2	0	33539.51	123593.5		260588.2	
2008	4	48669.79	188.316	33157.28	111098.3		193113.7	
2008	5	10304.67	2340.1	29035.27	96547.66		138227.7	
2008	6	740.3999	14578.38	27227.51	110644.7		153191	
2008	7	0	29948.83	25754.74	123343.3		179046.9	

Residential Model Output

Year	Month	Energy						Total
		Heat	Cool	Lighting	Other			
2008	8	0	35622.74	26228.49	125437.8		187289.1	
2008	9	0	33606.13	28699.49	115766.9		178072.5	
2008	10	1720.134	12741.64	30761.07	97639.5		142862.3	
2008	11	28088.13	1513.712	33422.05	113630.9		176654.8	
2008	12	79873.5	238.8304	38688.15	140919		259719.5	
2009	1	129798.6	51.34213	39881.09	149817.1		319548.1	
2009	2	126722.8	5.698971	34261.23	122019.7		283009.4	
2009	3	90881.11	153.2133	32350.47	117136.7		240521.5	
2009	4	46866.68	1586.874	31399.84	104624		184477.4	
2009	5	11775.21	5288.874	28537.01	102456.6		148057.7	
2009	6	1312.722	16925.15	26529.45	112920		157687.3	
2009	7	6.679742	35601.16	25119.46	129151.9		189879.2	
2009	8	0	41573.62	25036.97	127036.4		193647	
2009	9	50.36161	33726.3	27917.6	116954.5		178648.8	
2009	10	4603.51	10699.67	29981.89	103259.6		148544.7	
2009	11	27954.22	1493.36	32513.78	113545.8		175507.2	
2009	12	79521.37	235.6944	37648.21	140851.5		258256.7	
2010	1	129550.7	50.81632	37601.99	149927.2		317130.7	
2010	2	126488.9	5.640665	32305.13	122112.3		280912	
2010	3	90768.79	151.7198	30518.47	117264.3		238703.3	
2010	4	46908.83	1574.689	29654.26	104882.6		183020.4	
2010	5	11785.5	5248.166	26950.1	102699.6		146683.4	
2010	6	1313.799	16794.21	25053.15	113142.4		156303.5	
2010	7	6.695559	35381.72	23738.29	129432.3		188559	
2010	8	0	41321.69	23663.03	127308.7		192293.5	
2010	9	50.48573	33519.67	26384.63	117263.6		177218.4	
2010	10	4620.172	10646.35	28351.72	103643.6		147261.8	
2010	11	28054.36	1485.877	30745.05	113926.9		174212.1	
2010	12	79817.16	234.535	35604.06	141268.4		256924.2	
2011	1	130106.5	50.64548	35636.2	150394.8		316188.1	
2011	2	126957.3	5.618545	30602.24	122479		280044.2	
2011	3	91226.97	151.3315	28941.05	117768.7		238088	
2011	4	47148.9	1570.835	28122.83	105396.3		182238.8	
2011	5	11840.23	5232.927	25549	103162.8		145785	
2011	6	1320.092	16747.49	23753.77	113617.3		155438.6	

Residential Model Output

Year	Month	Energy						Total
		Heat	Cool	Lighting	Other			
2011	7	6.72826	35283.79	22509.63	129887.8			187687.9
2011	8	0	41214.13	22442.13	127756.6			191412.9
2011	9	50.74085	33432.1	25023.09	117751.3			176257.3
2011	10	4646.452	10623.95	26904.98	104176.7			146352.1
2011	11	28217.02	1482.934	29179.13	114473.8			173352.9
2011	12	80288.6	234.0993	33794.06	141889.7			256206.4
2012	1	130912.7	50.60863	33811.69	151141.2			315916.2
2012	2	127748.8	5.614777	29036.54	123145			279936
2012	3	91798.85	151.2381	27461.3	118428			237839.4
2012	4	47443.91	1569.87	26686.46	106067.9			181768.1
2012	5	11914.8	5229.996	24245.02	103821.4			145211.3
2012	6	1328.452	16738.93	22542.17	114297.8			154907.4
2012	7	6.769631	35259.53	21360.55	130574.9			187201.8
2012	8	0	41188.01	21297.4	128429.3			190914.8
2012	9	51.05771	33412.7	23747.72	118447.8			175659.3
2012	10	4674.472	10615.56	25531.33	104833.1			145654.4
2012	11	28387.93	1481.811	27690.06	115152.5			172712.3
2012	12	80777.08	233.9292	32070.26	142667.5			255748.8
2013	1	131666	50.60541	32433.23	151884.6			316034.4
2013	2	128460.9	5.613677	27848.97	123775.7			280091.2
2013	3	92293.23	151.1873	26334.38	119033.3			237812.1
2013	4	47673.45	1568.561	25582.47	106628.2			181452.7
2013	5	11970.07	5224.851	23238.53	104355.2			144788.6
2013	6	1334.315	16719.58	21602.63	114838.7			154495.3
2013	7	6.796166	35203.37	20463.42	131113.8			186787.4
2013	8	0	41115.43	20399.49	128943.4			190458.3
2013	9	51.23641	33348.69	22743.04	118949.7			175092.6
2013	10	4689.025	10591.7	24444.4	105276.6			145001.7
2013	11	28470.85	1478.258	26507.31	115604.5			172060.9
2013	12	80996.02	233.3299	30695.43	143174.3			255099.1
2014	1	132001.1	50.52402	30916.02	152476.4			315444.1
2014	2	128789.3	5.604702	26546.54	124282.2			279623.6
2014	3	92530.36	150.9473	25103.13	119528.8			237313.3
2014	4	47790.82	1565.9	24384.99	107106.4			180848.1
2014	5	11999.78	5216.068	22151.15	104822.8			144189.8

Residential Model Output

Year	Month	Energy							Total
		Heat	Cool	Lighting	Other	Lighting	Other	Total	
2014	6	1337.665	16691.85	20592.3	115328.3				153950.1
2014	7	6.812919	35143.11	19505.94	131630.2				186286.1
2014	8	0	41045.85	19445.43	129449.3				189940.6
2014	9	51.36559	33292.94	21679.85	119456.7				174480.9
2014	10	4700.598	10573.35	23301.01	105747				144321.9
2014	11	28541.66	1475.715	25267.79	116091.3				171376.4
2014	12	81199.23	232.9318	29260.56	143729.4				254422.1
2015	1	132318.3	50.48882	29852.34	153071.6				315292.7
2015	2	129098.3	5.600779	25633.15	124794.6				279531.7
2015	3	92752.02	150.841	24239.35	120030.2				237172.4
2015	4	47902.47	1564.706	23545.15	107599				180611.4
2015	5	12027.78	5212.084	21388.26	105305				143933.1
2015	6	1340.78	16679.05	19883.08	115830.6				153733.5
2015	7	6.828232	35113.45	18833.23	132151.9				186105.4
2015	8	0	41011	18774.73	129957.3				189743
2015	9	51.48004	33264.5	20932.03	119966.5				174214.5
2015	10	4710.859	10563.9	22496.83	106224.7				143996.3
2015	11	28603.65	1474.39	24395.67	116578.6				171052.3
2015	12	81374.8	232.7218	28250.58	144276.6				254134.7
2016	1	132601.5	50.50371	29003.88	153707.7				315363.5
2016	2	129377.9	5.602566	24905.22	125350.3				279639.1
2016	3	92955.2	150.8927	23551.58	120577.6				237235.3
2016	4	48010.04	1565.325	22878.18	108153				180606.5
2016	5	12055.16	5214.293	20782.96	105851.4				143903.8
2016	6	1343.884	16686.67	19321.01	116402.3				153753.8
2016	7	6.844551	35131.9	18302.19	132750.1				186191
2016	8	0	41033.97	18245.97	130541				189820.9
2016	9	51.60739	33284.32	20343.21	120560.9				174240
2016	10	4722.815	10570.79	21865.63	106797.8				143957
2016	11	28677.49	1475.404	23712.02	117160.1				171025
2016	12	81588.66	232.8907	27459.92	144927.7				254209.1
2017	1	132874.3	50.57945	28078.44	154334.2				315337.5
2017	2	129648.3	5.611111	24111.13	125901.1				279666.2
2017	3	93153.05	151.1272	22801.27	121121.5				237227
2017	4	48112.91	1567.764	22150.13	108705.6				180536.4

Residential Model Output

Year	Month	Energy						Total
		Heat	Cool	Lighting	Other			
2017	5	12081.46	5222.566	20122.11	106397.9			143824
2017	6	1346.861	16713.55	18707.07	116973.4			153740.9
2017	7	6.859602	35187.61	17720.65	133334.9			186250
2017	8	0	41099.91	17666.57	131109.8			189876.2
2017	9	51.72413	33338.5	19697.59	121141.5			174229.3
2017	10	4733.362	10587.57	21171.22	107350.4			143842.6
2017	11	28742.36	1477.773	22959.36	117717.3			170896.8
2017	12	81775.42	233.2683	26588.68	145547.3			254144.6
2018	1	133195.9	50.71415	27196.71	155050			315493.3
2018	2	129964.1	5.626097	23354.14	126533.3			279857.2
2018	3	93381.32	151.5317	22085.51	121744.5			237362.9
2018	4	48228.03	1571.857	21453.81	109333.7			180587.4
2018	5	12110.49	5236.214	19489.58	107017.7			143854
2018	6	1350.112	16757.28	18119.07	117618.7			153845.2
2018	7	6.875857	35277.76	17163.11	133985.8			186433.5
2018	8	0	41205.58	17110.86	131740.4			190056.9
2018	9	51.84879	33424.53	19078.17	121787.6			174342.2
2018	10	4744.655	10614.51	20505.22	107970.8			143835.2
2018	11	28811.75	1481.555	22237.4	118338.9			170869.6
2018	12	81975.15	233.8688	25752.94	146234.9			254196.9
2019	1	133531.9	50.88557	26354.81	155814.4			315752
2019	2	130295	5.64517	22631.4	127211.7			280143.7
2019	3	93621.07	152.0468	21402.2	122413.9			237589.3
2019	4	48351.44	1577.168	20790.2	110018.7			180737.5
2019	5	12141.68	5253.931	18886.82	107694.9			143977.4
2019	6	1353.598	16813.92	17558.62	118322.7			154048.8
2019	7	6.893544	35396.4	16632.32	134694.5			186730.1
2019	8	0	41343.74	16581.54	132424.1			190349.4
2019	9	51.98201	33536.3	18487.83	122490			174566.1
2019	10	4756.785	10649.8	19870.74	108651.1			143928.5
2019	11	28885.25	1486.46	21549.08	119014.8			170935.6
2019	12	82183.35	234.6389	24955.39	146975.9			254349.3
2020	1	133904.1	51.02868	25566.68	156629			316150.8
2020	2	130658.7	5.66103	21954.58	127937.3			280556.2
2020	3	93882.01	152.4726	20762.01	123129.6			237926.1

Residential Model Output

Year	Month	Energy						Total
		Heat	Cool	Lighting	Other			
2020	4	48486.34	1581.585	20168.38	110755.9			180992.2
2020	5	12175.46	5268.591	18321.78	108423.3			144189.1
2020	6	1357.354	16860.68	17033.21	119078.5			154329.8
2020	7	6.912639	35494.58	16134.54	135451.2			187087.2
2020	8	0	41458.03	16085.16	133154.1			190697.2
2020	9	52.12496	33628.63	17934.23	123241.4			174856.4
2020	10	4769.837	10679.06	19275.48	109377.8			144102.2
2020	11	28964.16	1490.528	20903.36	119732.9			171090.9
2020	12	82406.64	235.2783	24207.37	147758			254607.2
2021	1	134316.9	51.22285	25127.61	157397.5			316893.2
2021	2	131063.3	5.68263	21577.83	128624.9			281271.7
2021	3	94174.24	153.0562	20406.02	123810			238543.3
2021	4	48639	1587.687	19822.87	111459.9			181509.4
2021	5	12214.02	5288.99	18008.19	109121			144632.2
2021	6	1361.681	16926.22	16741.96	119803.8			154833.6
2021	7	6.935112	35634.63	15859.15	136177.2			187677.9
2021	8	0	41621.9	15810.77	133854.7			191287.4
2021	9	52.29533	33761.71	17628.43	123966.4			175408.8
2021	10	4785.79	10722.1	18947.6	110086.9			144542.4
2021	11	29061	1496.533	20547.82	120432.1			171537.5
2021	12	82682.42	236.2263	23795.75	148518.1			255232.5
2022	1	134751.8	51.47194	24840.74	158255.8			317899.9
2022	2	131487.2	5.710238	21331.45	129393.9			282218.3
2022	3	94478.7	153.7994	20173.03	124569.6			239375.2
2022	4	48798.94	1595.483	19597.07	112249.9			182241.4
2022	5	12254.19	5314.953	17803.09	109903.2			145275.4
2022	6	1366.165	17009.35	16551.38	120614.8			155541.7
2022	7	6.958145	35810.59	15678.84	136982.3			188478.6
2022	8	0	41827.55	15631.1	134630.5			192089.1
2022	9	52.46935	33928.57	17428.18	124771.4			176180.6
2022	10	4801.637	10774.9	18732.06	110869.7			145178.3
2022	11	29157.29	1503.905	20314.16	121202.6			172178
2022	12	82956.82	237.3912	23525.33	149354.4			256074
2023	1	135171.2	51.75169	24622.75	159143.7			318989.5
2023	2	131895.5	5.741235	21144.17	130191.2			283236.6

Residential Model Output

Year	Month	Energy						Total
		Heat	Cool	Lighting	Other			
2023	3	94771.59	154.6337	19995.88	125357.7		240279.8	
2023	4	48946.89	1604.028	19424.01	113062.5		183037.5	
2023	5	12291.33	5343.411	17645.89	110708.1		145988.8	
2023	6	1370.313	17100.47	16405.31	121449.1		156325.2	
2023	7	6.978851	36000.13	15539.8	137800.7		189347.6	
2023	8	0	42049.2	15492.61	135418.8		192960.6	
2023	9	52.62654	34108.58	17273.89	125591.9		177027	
2023	10	4815.85	10831.62	18565.8	111668.8		145882	
2023	11	29244.04	1511.836	20134.08	121988		172878	
2023	12	83205.26	238.6462	23317.1	150205.5		256966.5	
2024	1	135558.2	52.0504	24437.93	160088.8		320136.9	
2024	2	132271.5	5.774302	20985.23	131041.3		284303.9	
2024	3	95040.74	155.5223	19845.34	126197.6		241239.3	
2024	4	49084.82	1613.209	19277.45	113935.7		183911.1	
2024	5	12325.8	5373.916	17512.51	111572.4		146784.6	
2024	6	1374.134	17197.82	16281.06	122342.8		157195.8	
2024	7	6.998224	36204.63	15421.99	138679.9		190313.5	
2024	8	0	42287.37	15374.92	136263.2		193925.5	
2024	9	52.77102	34301.25	17142.43	126470.9		177967.3	
2024	10	4829.053	10892.77	18424.57	112530.9		146677.3	
2024	11	29323.78	1520.349	19980.64	122831.6		173656.4	
2024	12	83430.77	239.986	23139.04	151115		257924.8	
2025	1	135926.5	52.36545	24270.99	160975.1		321225	
2025	2	132628.9	5.809165	20841.58	131841		285317.4	
2025	3	95296.08	156.459	19709.21	126988.4		242150.1	
2025	4	49215.34	1622.881	19145.06	114761.9		184745.2	
2025	5	12358.38	5406.053	17391.99	112390.9		147547.3	
2025	6	1377.742	17300.38	16168.76	123188.6		158035.5	
2025	7	7.016178	36418.4	15315.1	139506.2		191246.7	
2025	8	0	42536.42	15268.14	137056.5		194861.1	
2025	9	52.90482	34502.79	17023.15	127298.5		178877.3	
2025	10	4840.839	10955.75	18295.17	113335.9		147427.7	
2025	11	29394.94	1529.119	19840.06	123616.8		174380.9	
2025	12	83631.96	241.3669	22975.92	151958.4		258807.7	
2026	1	136247.3	52.68151	24109.7	161905		322314.6	

Residential Model Output

Year	Month	Energy							Total
		Heat	Cool	Lighting	Other	Other	Other	Total	
2026	2	132940.4	5.84416	20702.85	132681.5			286330.6	
2026	3	95518.84	157.3997	19577.82	127820			243074	
2026	4	49325.21	1632.467	19016.05	115623.9			185597.6	
2026	5	12385.8	5437.912	17274.57	113245.2			148343.5	
2026	6	1380.779	17402.09	16059.39	124071.9			158914.1	
2026	7	7.031062	36629.48	15210.63	140365			192212.1	
2026	8	0	42782.36	15163.78	137880.9			195827.1	
2026	9	53.01554	34701.81	16906.59	128159.1			179820.5	
2026	10	4850.689	11018.31	18169.28	114177.5			148215.8	
2026	11	29454.35	1537.83	19703.28	124436.8			175132.2	
2026	12	83799.75	242.7385	22817.22	152838.1			259697.8	
2027	1	136527.2	52.99949	23949.1	162830.7			323360.1	
2027	2	133212.4	5.879378	20564.77	133519.8			287302.8	
2027	3	95713.49	158.3469	19447.09	128649.9			243968.9	
2027	4	49425.41	1642.279	18889.03	116494.2			186450.9	
2027	5	12410.84	5470.54	17159.04	114108.5			149149	
2027	6	1383.558	17506.33	15951.84	124964.7			159806.4	
2027	7	7.045211	36848.89	15108.79	141238.1			193202.8	
2027	8	0	43038.24	15062.14	138719			196819.4	
2027	9	53.12138	34909.06	16793.13	129035.5			180790.8	
2027	10	4860.423	11084.23	18047.42	115040.3			149032.3	
2027	11	29513.24	1547.017	19571	125276.8			175908	
2027	12	83966.67	244.1867	22663.87	153738.9			260613.6	
2028	1	136795.6	53.3183	23792.85	163804.7			324446.4	
2028	2	133475.9	5.914791	20430.79	134403.8			288316.4	
2028	3	95904.14	159.3021	19320.59	129526.7			244910.8	
2028	4	49526.23	1652.257	18766.76	117417.4			187362.7	
2028	5	12436.33	5503.83	17048.13	115026			150014.3	
2028	6	1386.424	17613.08	15848.95	125914.9			160763.4	
2028	7	7.060115	37074.99	15011.81	142168.4			194262.2	
2028	8	0	43302.9	14965.67	139613.5			197882.1	
2028	9	53.23568	35124.16	16685.79	129974			181837.2	
2028	10	4871.096	11152.95	17932.71	115968.3			149925.1	
2028	11	29578.6	1556.63	19446.88	126182.8			176764.9	
2028	12	84154.44	245.7079	22520.49	154714.2			261634.8	

Residential Model Output

Year	Month	Energy						Total
		Heat	Cool	Lighting	Other			
2029	1	137110.9	53.65751	23647.58	164732.7		325544.8	
2029	2	133786.6	5.952522	20306.39	135248.5		289347.5	
2029	3	96129.88	160.3214	19203.32	130365.6		245859.1	
2029	4	49644.26	1662.866	18653.38	118301.8		188262.3	
2029	5	12466.29	5539.274	16945.46	115905.7		150856.7	
2029	6	1389.806	17726.91	15753.85	126826.3		161696.9	
2029	7	7.077695	37316.2	14922.34	143059.1		195304.8	
2029	8	0	43585.68	14876.82	140470.5		198933	
2029	9	53.37148	35354.32	16587.09	130876		182870.8	
2029	10	4883.788	11226.55	17827.41	116862.5		150800.3	
2029	11	29656.6	1566.941	19333.14	127056.3		177613	
2029	12	84379.28	247.342	22389.35	155655.2		262671.2	
2030	1	137496	54.02062	23579	165743.5		326872.5	
2030	2	134166	5.992925	20247.91	136167.6		290587.5	
2030	3	96405.19	161.4131	19148.41	131278		246993	
2030	4	49788.31	1674.242	18600.51	119261.2		189324.3	
2030	5	12502.8	5577.283	16897.78	116859.5		151837.4	
2030	6	1393.919	17848.97	15709.88	127814.4		162767.1	
2030	7	7.098906	37574.26	14881.07	144023		196485.5	
2030	8	0	43888.12	14836.01	141397.6		200121.8	
2030	9	53.53459	35600.42	16541.94	131851.4		184047.3	
2030	10	4898.838	11304.9	17779.1	117825.3		151808.2	
2030	11	29748.82	1577.91	19281.15	127997.9		178605.8	
2030	12	84644.22	249.0793	22329.65	156671.4		263894.3	
2031	1	137969.2	54.39146	23455.8	166681.5		328160.9	
2031	2	134628.5	6.03408	20142.16	137020.3		291797	
2031	3	96738.13	162.5221	19048.46	132123.3		248072.4	
2031	4	49960.29	1685.74	18503.31	120148.8		190298.1	
2031	5	12546.02	5615.584	16809.46	117740.5		152711.5	
2031	6	1398.742	17971.54	15627.78	128724.3		163722.4	
2031	7	7.123513	37832.43	14803.22	144905.9		197548.7	
2031	8	0	44189.65	14758.39	142244.6		201192.6	
2031	9	53.72039	35844.98	16455.38	132742.4		185096.5	
2031	10	4915.926	11382.73	17686.17	118706.2		152691	
2031	11	29852.64	1588.771	19180.34	128855.5		179477.3	

Residential Model Output

Year	Month	Energy						Total
		Heat	Cool	Lighting	Other			
2031	12	84939.74	250.7934	22212.88	157591.2			264994.6
2032	1	138459.5	54.76892	23333.59	167635.7			329483.5
2032	2	135105.9	6.075903	20037.06	137887.1			293036.2
2032	3	97080.52	163.6473	18948.93	132981.7			249174.8
2032	4	50139.25	1697.482	18407	121054.7			191298.4
2032	5	12590.84	5654.64	16721.82	118638.8			153606.1
2032	6	1403.724	18096.34	15546.14	129650.8			164697
2032	7	7.149129	38096.44	14726.2	145807.2			198637
2032	8	0	44497.58	14681.46	143108			202287
2032	9	53.91253	36094.42	16369.46	133650.9			186168.7
2032	10	4933.695	11462.38	17594.27	119608.2			153598.5
2032	11	29960.26	1599.873	19080.51	129732.4			180373.1
2032	12	85245.06	252.5435	22097.04	158530.5			266125.2
2033	1	138966.4	55.15427	23212.56	168611			330845.1
2033	2	135599.7	6.118609	19933	138773.9			294312.7
2033	3	97434.83	164.7965	18850.41	133860			250310
2033	4	50324.08	1709.464	18311.8	121982.8			192328.1
2033	5	12637.17	5694.509	16635.22	119559.3			154526.2
2033	6	1408.879	18223.81	15465.53	130600.5			165698.7
2033	7	7.175754	38366.73	14650.3	146731.4			199755.6
2033	8	0	44813.02	14605.72	143993.8			203412.5
2033	9	54.11273	36350.08	16284.92	134583.6			187272.7
2033	10	4952.282	11544.19	17503.93	120534.8			154535.2
2033	11	30073	1611.284	18982.45	130633.9			181300.7
2033	12	85565.45	254.3435	21983.37	159497.1			267300.3
2034	1	139503.1	55.55211	23094.17	169616.6			332269.4
2034	2	136123.8	6.162753	19831.36	139688.9			295650.2
2034	3	97811.88	165.9859	18754.35	134767.1			251499.3
2034	4	50522.49	1721.924	18219.24	122942			193405.7
2034	5	12687.05	5736.034	16551.18	120511.6			155485.9
2034	6	1414.449	18356.78	15387.46	131584.3			166743
2034	7	7.204689	38649.66	14576.93	147690.4			200924.2
2034	8	0	45143.85	14532.67	144914.4			204590.9
2034	9	54.33196	36618.71	16203.58	135553.3			188429.9
2034	10	4972.817	11630.59	17417.37	121499.4			155520.2

Residential Model Output

Year	Month	Energy							Total
		Heat	Cool	Lighting	Other	Other	Other	Total	
2034	11	30198.09	1623.362	18888.76	131575.3				182285.5
2034	12	85922.56	256.2531	21875.11	160510.9				268564.8
2035	1	140102.7	55.97487	22981.26	170671				333810.9
2035	2	136710.5	6.209716	19734.57	140647.3				297098.5
2035	3	98234.59	167.2527	18662.98	135717.5				252782.3
2035	4	50744.93	1735.205	18131.08	123942.5				194553.7
2035	5	12743.08	5780.345	16471.25	121505.4				156500.1
2035	6	1420.717	18498.84	15313.33	132613.3				167846.1
2035	7	7.237166	38951.68	14507.19	148696.8				202162.9
2035	8	0	45497.4	14463.35	145882.4				205843.1
2035	9	54.57884	36906.11	16126.51	136570				189657.2
2035	10	4995.716	11722.56	17334.86	122503.4				156556.6
2035	11	30337.76	1636.23	18799.57	132559.4				183333
2035	12	86321.74	258.2895	21772.16	161577.1				269929.3
2036	1	140768.4	56.42423	22873.77	171780.6				335479.2
2036	2	137362.4	6.259669	19642.52	141652.3				298663.4
2036	3	98704.75	168.601	18576.18	136713.7				254163.2
2036	4	50990.93	1749.299	18047.27	124984.8				195772.3
2036	5	12805.07	5827.392	16395.34	122540.5				157568.3
2036	6	1427.654	18649.72	15242.95	133687.6				169007.9
2036	7	7.272912	39271.59	14441.06	149754.9				203474.8
2036	8	0	45871.9	14397.62	146901.4				207170.9
2036	9	54.85045	37210.56	16053.45	137634.6				190953.5
2036	10	5020.91	11820.05	17257.32	123555.3				157653.6
2036	11	30491.35	1649.868	18715.75	133595.1				184452.1
2036	12	86760.39	260.447	21675.41	162705.6				271401.8
2037	1	141496.3	56.89972	22773.4	172960.5				337287.1
2037	2	138075.2	6.312531	19556.6	142716				300354
2037	3	99218.78	170.0279	18495.19	137766.8				255650.8
2037	4	51259.04	1764.191	17969.58	126083.2				197076
2037	5	12872.63	5877.101	16324.98	123630.8				158705.5
2037	6	1435.21	18809.13	15177.74	134821.5				170243.5
2037	7	7.311783	39609.27	14380.06	150880.6				204877.2
2037	8	0	46267.1	14337	147986.3				208590.4
2037	9	55.14547	37531.76	15986.07	138762.2				192335.1

Residential Model Output

Year	Month	Energy						Total
		Heat	Cool	Lighting	Other	Other	Total	
2037	10	5048.098	11922.5	17185.55	124662.7			158818.8
2037	11	30656.94	1664.195	18638.15	134689.2			185648.5
2037	12	87232.92	262.7126	21585.8	163903.2			272984.7
2038	1	142269.3	57.39461	22677.86	174196			339200.6
2038	2	138831.9	6.367539	19474.82	143825.3			302138.3
2038	3	99764.19	171.5122	18418.09	138863.7			257217.5
2038	4	51543.18	1779.673	17895.61	127221.7			198440.1
2038	5	12944.19	5928.767	16257.97	124760.2			159891.1
2038	6	1443.211	18974.76	15115.63	135997.7			171531.3
2038	7	7.352876	39959.87	14321.94	152053.2			206342.3
2038	8	0	46677.29	14279.21	149116.9			210073.4
2038	9	55.45698	37865.02	15921.81	139932.5			193774.8
2038	10	5076.753	12028.69	17117.06	125808			160030.5
2038	11	30831.35	1679.038	18564.06	135823.9			186898.3
2038	12	87730.26	265.059	21500.19	165149.4			274644.9

LONG-TERM COMMERCIAL

Commercial Model Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
1996	1	113,206.02	195.34	0	11,979.16	1.00	0.00	0.00	0.00	0.00	0.00
1996	2	109,167.28	175.01	0	10,793.80	0.00	1.00	0.00	0.00	0.00	0.00
1996	3	95,628.28	118.44	0	10,595.89	0.00	0.00	1.00	0.00	0.00	0.00
1996	4	91,701.17	84.30	6.62552228	10,932.02	0.00	0.00	0.00	1.00	0.00	0.00
1996	5	98,296.37	18.27	65.58922244	10,802.31	0.00	0.00	0.00	0.00	1.00	0.00
1996	6	85,395.12	2.64	148.2573174	11,358.40	0.00	0.00	0.00	0.00	0.00	1.00
1996	7	98,462.36	0.00	280.3495321	11,226.99	0.00	0.00	0.00	0.00	0.00	0.00
1996	8	97,278.15	0.00	245.1543636	10,689.93	0.00	0.00	0.00	0.00	0.00	0.00
1996	9	98,444.86	0.00	221.979438	11,173.43	0.00	0.00	0.00	0.00	0.00	0.00
1996	10	82,694.94	5.67	40.09875214	11,010.23	0.00	0.00	0.00	0.00	0.00	0.00
1996	11	87,310.54	45.63	5.616978401	10,921.13	0.00	0.00	0.00	0.00	0.00	0.00
1996	12	105,129.33	125.03	1.460610124	11,940.38	0.00	0.00	0.00	0.00	0.00	0.00
1997	1	113,474.39	137.80	0.781362667	12,298.97	1.00	0.00	0.00	0.00	0.00	0.00
1997	2	102,454.94	150.00	0.581590559	11,081.73	0.00	1.00	0.00	0.00	0.00	0.00
1997	3	90,988.45	81.23	2.435567127	10,885.77	0.00	0.00	1.00	0.00	0.00	0.00
1997	4	84,898.02	53.72	5.763645427	11,278.97	0.00	0.00	0.00	1.00	0.00	0.00
1997	5	80,429.33	24.44	6.556196431	11,143.36	0.00	0.00	0.00	0.00	1.00	0.00
1997	6	83,911.03	3.88	50.81651279	11,717.88	0.00	0.00	0.00	0.00	0.00	1.00
1997	7	102,380.74	0.00	236.1940863	11,603.91	0.00	0.00	0.00	0.00	0.00	0.00
1997	8	100,758.81	0.00	276.8344254	11,048.64	0.00	0.00	0.00	0.00	0.00	0.00
1997	9	98,072.33	0.00	157.0487649	11,549.11	0.00	0.00	0.00	0.00	0.00	0.00
1997	10	86,935.31	3.99	48.59369809	11,364.57	0.00	0.00	0.00	0.00	0.00	0.00
1997	11	76,773.36	55.21	14.01078894	11,271.82	0.00	0.00	0.00	0.00	0.00	0.00
1997	12	117,639.99	115.81	0	12,328.68	0.00	0.00	0.00	0.00	0.00	0.00
1998	1	107,446.68	124.65	0	12,667.79	1.00	0.00	0.00	0.00	0.00	0.00
1998	2	99,409.46	118.93	0	11,412.00	0.00	1.00	0.00	0.00	0.00	0.00
1998	3	85,160.54	93.63	0.030732736	11,201.19	0.00	0.00	1.00	0.00	0.00	0.00
1998	4	95,019.60	56.45	40.26805818	11,565.44	0.00	0.00	0.00	1.00	0.00	0.00
1998	5	87,043.62	8.34	22.2562549	11,425.01	0.00	0.00	0.00	0.00	1.00	0.00
1998	6	93,873.46	0.19	134.4089852	12,012.80	0.00	0.00	0.00	0.00	0.00	1.00
1998	7	109,127.90	0.08	284.3513809	11,860.59	0.00	0.00	0.00	0.00	0.00	0.00
1998	8	103,820.23	0.00	279.2439502	11,293.42	0.00	0.00	0.00	0.00	0.00	0.00
1998	9	108,251.82	0.00	283.3215054	11,806.82	0.00	0.00	0.00	0.00	0.00	0.00
1998	10	95,623.33	1.57	170.8332409	11,596.90	0.00	0.00	0.00	0.00	0.00	0.00
1998	11	89,644.24	31.53	12.50162855	11,506.27	0.00	0.00	0.00	0.00	0.00	0.00
1998	12	105,092.93	66.01	2.898505322	12,576.44	0.00	0.00	0.00	0.00	0.00	0.00

Commercial Model Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
1999	1	117,449.21	168.32	1.265350387	12,911.29	1.00	0.00	0.00	0.00	0.00	0.00
1999	2	99,527.09	105.71	0	11,628.67	0.00	1.00	0.00	0.00	0.00	0.00
1999	3	103,864.94	124.11	0	11,415.61	0.00	0.00	1.00	0.00	0.00	0.00
1999	4	94,106.93	66.29	9.257151034	11,766.32	0.00	0.00	0.00	1.00	0.00	0.00
1999	5	87,169.35	7.90	30.99494894	11,617.86	0.00	0.00	0.00	0.00	1.00	0.00
1999	6	97,019.42	0.00	151.6064792	12,215.45	0.00	0.00	0.00	0.00	0.00	1.00
1999	7	109,599.40	0.00	346.9565512	12,031.43	0.00	0.00	0.00	0.00	0.00	0.00
1999	8	111,619.74	0.00	409.7841001	11,454.81	0.00	0.00	0.00	0.00	0.00	0.00
1999	9	100,983.54	0.03	218.1842345	11,972.89	0.00	0.00	0.00	0.00	0.00	0.00
1999	10	95,125.92	3.60	44.48693719	11,722.79	0.00	0.00	0.00	0.00	0.00	0.00
1999	11	87,415.28	29.79	2.467189912	11,619.01	0.00	0.00	0.00	0.00	0.00	0.00
1999	12	106,592.84	79.62	0	12,704.70	0.00	0.00	0.00	0.00	0.00	0.00
2000	1	116,047.53	145.01	0	13,012.71	1.00	0.00	0.00	0.00	0.00	0.00
2000	2	114,186.45	173.10	0	11,721.06	0.00	1.00	0.00	0.00	0.00	0.00
2000	3	97,738.70	66.08	1.933202078	11,504.74	0.00	0.00	1.00	0.00	0.00	0.00
2000	4	89,933.02	37.59	4.625746617	11,852.51	0.00	0.00	0.00	1.00	0.00	0.00
2000	5	92,491.05	13.86	49.87251499	11,705.77	0.00	0.00	0.00	0.00	1.00	0.00
2000	6	104,856.51	0.03	146.4637033	12,304.35	0.00	0.00	0.00	0.00	0.00	1.00
2000	7	108,139.36	0.00	263.5460122	12,147.48	0.00	0.00	0.00	0.00	0.00	0.00
2000	8	108,808.60	0.00	220.122896	11,566.33	0.00	0.00	0.00	0.00	0.00	0.00
2000	9	111,962.57	0.16	199.9307566	12,093.19	0.00	0.00	0.00	0.00	0.00	0.00
2000	10	96,372.65	8.89	68.09063811	11,906.83	0.00	0.00	0.00	0.00	0.00	0.00
2000	11	91,910.57	30.26	9.379700658	11,811.70	0.00	0.00	0.00	0.00	0.00	0.00
2000	12	116,962.00	146.16	0	12,910.27	0.00	0.00	0.00	0.00	0.00	0.00
2001	1	133,855.10	220.22	0	13,311.89	1.00	0.00	0.00	0.00	0.00	0.00
2001	2	113,502.99	153.68	0	11,997.06	0.00	1.00	0.00	0.00	0.00	0.00
2001	3	102,783.44	105.64	0	11,781.17	0.00	0.00	1.00	0.00	0.00	0.00
2001	4	100,194.17	75.11	38.39393004	12,204.90	0.00	0.00	0.00	1.00	0.00	0.00
2001	5	97,747.04	11.37	84.57283532	12,056.68	0.00	0.00	0.00	0.00	1.00	0.00
2001	6	100,454.10	0.71	95.53144047	12,682.39	0.00	0.00	0.00	0.00	0.00	1.00
2001	7	109,764.20	0.00	235.6642687	12,568.37	0.00	0.00	0.00	0.00	0.00	0.00
2001	8	113,401.69	0.00	326.8106206	11,965.04	0.00	0.00	0.00	0.00	0.00	0.00
2001	9	113,736.60	0.03	265.7033961	12,509.13	0.00	0.00	0.00	0.00	0.00	0.00
2001	10	95,920.90	6.78	64.05714614	12,321.29	0.00	0.00	0.00	0.00	0.00	0.00
2001	11	95,928.18	32.46	18.78279651	12,213.93	0.00	0.00	0.00	0.00	0.00	0.00
2001	12	104,780.73	46.10	0.648440179	13,352.65	0.00	0.00	0.00	0.00	0.00	0.00

Commercial Model Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2002	1	123,908.85	156.43	0	13,749.62	1.00	0.00	0.00	0.00	0.00	0.00
2002	2	108,018.63	116.20	0	12,384.99	0.00	1.00	0.00	0.00	0.00	0.00
2002	3	107,309.83	101.49	1.175411619	12,159.14	0.00	0.00	1.00	0.00	0.00	0.00
2002	4	102,537.20	56.20	18.5317701	12,570.72	0.00	0.00	0.00	1.00	0.00	0.00
2002	5	95,971.43	14.76	52.15469462	12,418.59	0.00	0.00	0.00	0.00	1.00	0.00
2002	6	105,281.48	8.94	144.0562166	13,062.39	0.00	0.00	0.00	0.00	0.00	1.00
2002	7	117,418.61	0.00	326.4475899	12,912.45	0.00	0.00	0.00	0.00	0.00	0.00
2002	8	119,368.15	0.00	394.6317436	12,296.09	0.00	0.00	0.00	0.00	0.00	0.00
2002	9	119,695.34	0.00	364.360398	12,853.05	0.00	0.00	0.00	0.00	0.00	0.00
2002	10	104,899.31	3.25	145.1332116	12,634.02	0.00	0.00	0.00	0.00	0.00	0.00
2002	11	96,109.99	39.63	14.30705369	12,536.51	0.00	0.00	0.00	0.00	0.00	0.00
2002	12	117,232.40	129.45	2.060595762	13,703.15	0.00	0.00	0.00	0.00	0.00	0.00
2003	1	126,690.48	155.44	0	14,096.26	1.00	0.00	0.00	0.00	0.00	0.00
2003	2	122,779.65	195.62	0	12,697.47	0.00	1.00	0.00	0.00	0.00	0.00
2003	3	110,450.62	129.59	0	12,465.16	0.00	0.00	1.00	0.00	0.00	0.00
2003	4	98,087.84	35.38	16.23407923	12,871.46	0.00	0.00	0.00	1.00	0.00	0.00
2003	5	98,693.05	7.56	39.95781512	12,715.59	0.00	0.00	0.00	0.00	1.00	0.00
2003	6	102,213.92	0.00	57.14415949	13,374.13	0.00	0.00	0.00	0.00	0.00	1.00
2003	7	112,755.64	0.00	239.5773283	13,320.12	0.00	0.00	0.00	0.00	0.00	0.00
2003	8	112,586.73	0.00	268.5414014	12,515.20	0.00	0.00	0.00	0.00	0.00	0.00
2003	9	120,287.93	0.00	268.19287	13,082.20	0.00	0.00	0.00	0.00	0.00	0.00
2003	10	101,482.94	8.99	38.78904916	12,972.42	0.00	0.00	0.00	0.00	0.00	0.00
2003	11	96,076.45	24.40	8.974521406	12,721.83	0.00	0.00	0.00	0.00	0.00	0.00
2003	12	116,012.15	93.72	1.116834768	13,931.88	0.00	0.00	0.00	0.00	0.00	0.00
2004	1	131,261.21	153.48	0.919969305	14,386.79	1.00	0.00	0.00	0.00	0.00	0.00
2004	2	125,201.65	176.35	0.273508412	12,831.65	0.00	1.00	0.00	0.00	0.00	0.00
2004	3	109,248.07	101.41	2.437512662	12,706.22	0.00	0.00	1.00	0.00	0.00	0.00
2004	4	106,039.03	58.84	14.17978432	13,338.24	0.00	0.00	0.00	1.00	0.00	0.00
2004	5	102,893.62	14.10	76.29028937	12,921.16	0.00	0.00	0.00	0.00	1.00	0.00
2004	6	117,520.06	1.03	220.3673115	13,603.34	0.00	0.00	0.00	0.00	0.00	1.00
2004	7	118,976.06	0.00	276.7186403	13,364.83	0.00	0.00	0.00	0.00	0.00	0.00
2004	8	114,443.78	0.00	262.1358793	12,827.24	0.00	0.00	0.00	0.00	0.00	0.00
2004	9	117,319.08	0.00	234.8028973	13,104.28	0.00	0.00	0.00	0.00	0.00	0.00
2004	10	105,855.61	2.43	70.10964815	13,163.37	0.00	0.00	0.00	0.00	0.00	0.00
2004	11	98,814.81	15.27	13.6153091	12,807.27	0.00	0.00	0.00	0.00	0.00	0.00
2004	12	117,815.55	78.41	2.203302213	14,257.65	0.00	0.00	0.00	0.00	0.00	0.00

Commercial Model Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2005	1	129,923.75	132.02	0	14,407.45	1.00	0.00	0.00	0.00	0.00	0.00
2005	2	124,572.17	143.73	0	13,067.30	0.00	1.00	0.00	0.00	0.00	0.00
2005	3	117,738.85	121.86	0	12,982.00	0.00	0.00	1.00	0.00	0.00	0.00
2005	4	108,703.50	58.64	6.372079658	13,440.68	0.00	0.00	0.00	1.00	0.00	0.00
2005	5	100,091.47	16.22	22.45970797	12,868.02	0.00	0.00	0.00	0.00	1.00	0.00
2005	6	112,547.88	2.36	139.9072756	13,733.07	0.00	0.00	0.00	0.00	0.00	1.00
2005	7	123,433.60	0.00	389.0004643	13,409.42	0.00	0.00	0.00	0.00	0.00	0.00
2005	8	128,530.45	0.00	479.7967968	12,963.72	0.00	0.00	0.00	0.00	0.00	0.00
2005	9	129,452.72	0.00	376.326647	13,491.10	0.00	0.00	0.00	0.00	0.00	0.00
2005	10	112,861.11	1.39	166.6821988	12,974.65	0.00	0.00	0.00	0.00	0.00	0.00
2005	11	105,939.34	35.79	10.71103428	13,237.72	0.00	0.00	0.00	0.00	0.00	0.00
2005	12	127,394.44	130.01	1.688547242	14,167.52	0.00	0.00	0.00	0.00	0.00	0.00
2006	1	135,491.87	130.83	0	14,643.92	1.00	0.00	0.00	0.00	0.00	0.00
2006	2	120,935.03	100.47	0	13,216.28	0.00	1.00	0.00	0.00	0.00	0.00
2006	3	113,477.41	109.25	1.395074662	12,693.80	0.00	0.00	1.00	0.00	0.00	0.00
2006	4	104,629.62	57.14	16.91660196	12,776.33	0.00	0.00	0.00	1.00	0.00	0.00
2006	5	103,898.11	4.85	29.48139856	13,246.99	0.00	0.00	0.00	0.00	1.00	0.00
2006	6	112,025.55	0.97	115.1140658	13,670.54	0.00	0.00	0.00	0.00	0.00	1.00
2006	7	121,843.93	0.00	281.3442	13,523.43	0.00	0.00	0.00	0.00	0.00	0.00
2006	8	125,800.38	0.00	416.9543863	12,713.84	0.00	0.00	0.00	0.00	0.00	0.00
2006	9	127,451.38	0.23	283.8553419	13,613.31	0.00	0.00	0.00	0.00	0.00	0.00
2006	10	107,090.52	9.11	38.50846009	13,098.65	0.00	0.00	0.00	0.00	0.00	0.00
2006	11	105,875.30	50.04	2.64809192	13,057.94	0.00	0.00	0.00	0.00	0.00	0.00
2006	12	121,307.33	84.64	2.968887245	14,007.22	0.00	0.00	0.00	0.00	0.00	0.00
2007	1	127,171.78	92.92	0.341560719	14,676.07	1.00	0.00	0.00	0.00	0.00	0.00
2007	2	132,079.58	166.30	0	13,057.12	0.00	1.00	0.00	0.00	0.00	0.00
2007	3	122,153.43	139.04	2.307756253	12,933.78	0.00	0.00	1.00	0.00	0.00	0.00
2007	4	112,596.65	51.01	31.90923025	13,725.91	0.00	0.00	0.00	1.00	0.00	0.00
2007	5	109,476.17	18.75	53.95074297	13,378.16	0.00	0.00	0.00	0.00	1.00	0.00
2007	6	117,861.06	0.78	193.1625052	13,548.15	0.00	0.00	0.00	0.00	0.00	1.00
2007	7	122,280.24	0.00	311.7395063	13,443.27	0.00	0.00	0.00	0.00	0.00	0.00
2007	8	125,107.34	0.00	356.0089676	13,095.40	0.00	0.00	0.00	0.00	0.00	0.00
2007	9	135,178.77	0.00	406.4555496	13,555.85	0.00	0.00	0.00	0.00	0.00	0.00
2007	10	116,735.40	1.56	184.5601688	13,247.54	0.00	0.00	0.00	0.00	0.00	0.00
2007	11	108,929.70	30.94	31.7467275	13,439.25	0.00	0.00	0.00	0.00	0.00	0.00
2007	12	122,828.83	93.96	0	14,340.87	0.00	0.00	0.00	0.00	0.00	0.00

Commercial Model Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2008	1	135,988.54	129.50	0	14,946.19	1.00	0.00	0.00	0.00	0.00	0.00
2008	2	128,780.73	140.25	0	13,262.25	0.00	1.00	0.00	0.00	0.00	0.00
2008	3	122,687.26	120.32	0	13,306.09	0.00	0.00	1.00	0.00	0.00	0.00
2008	4	112,736.81	55.82	1.535440288	13,696.37	0.00	0.00	0.00	1.00	0.00	0.00
2008	5	103,319.37	11.97	19.33389103	13,231.56	0.00	0.00	0.00	0.00	1.00	0.00
2008	6	114,938.69	0.86	120.4835194	13,869.54	0.00	0.00	0.00	0.00	0.00	1.00
2008	7	122,829.36	0.00	247.2486932	13,664.02	0.00	0.00	0.00	0.00	0.00	0.00
2008	8	124,863.56	0.00	293.9783687	13,419.71	0.00	0.00	0.00	0.00	0.00	0.00
2008	9	127,141.73	0.00	277.6592982	13,661.48	0.00	0.00	0.00	0.00	0.00	0.00
2008	10	111,421.47	1.98	104.4864306	13,205.46	0.00	0.00	0.00	0.00	0.00	0.00
2008	11		32.73	12.53332973	13,253.85	0.00	0.00	0.00	0.00	0.00	0.00
2008	12		92.40	1.963218548	14,474.72	0.00	0.00	0.00	0.00	0.00	0.00
2009	1		146.85	0.421875139	14,768.19	1.00	0.00	0.00	0.00	0.00	0.00
2009	2		144.51	0.047197745	13,296.34	0.00	1.00	0.00	0.00	0.00	0.00
2009	3		103.35	1.265221416	13,040.22	0.00	0.00	1.00	0.00	0.00	0.00
2009	4		53.46	13.14417491	13,409.43	0.00	0.00	0.00	1.00	0.00	0.00
2009	5		13.41	43.72435771	13,242.44	0.00	0.00	0.00	0.00	1.00	0.00
2009	6		1.51	141.5742581	13,919.33	0.00	0.00	0.00	0.00	0.00	1.00
2009	7		0.01	296.698327	13,702.44	0.00	0.00	0.00	0.00	0.00	0.00
2009	8		0.00	342.7538672	13,035.32	0.00	0.00	0.00	0.00	0.00	0.00
2009	9		0.06	280.3619455	13,619.80	0.00	0.00	0.00	0.00	0.00	0.00
2009	10		5.29	89.28169807	13,346.63	0.00	0.00	0.00	0.00	0.00	0.00
2009	11		32.11	12.45391134	13,234.12	0.00	0.00	0.00	0.00	0.00	0.00
2009	12		90.71	1.951797847	14,460.73	0.00	0.00	0.00	0.00	0.00	0.00
2010	1		146.54	0.416993052	14,860.49	1.00	0.00	0.00	0.00	0.00	0.00
2010	2		144.30	0.046681497	13,388.02	0.00	1.00	0.00	0.00	0.00	0.00
2010	3		103.31	1.25274945	13,144.48	0.00	0.00	1.00	0.00	0.00	0.00
2010	4		53.66	13.06833318	13,572.45	0.00	0.00	0.00	1.00	0.00	0.00
2010	5		13.46	43.47831266	13,405.35	0.00	0.00	0.00	0.00	1.00	0.00
2010	6		1.52	140.7890336	14,091.71	0.00	0.00	0.00	0.00	0.00	1.00
2010	7		0.01	295.807789	13,907.63	0.00	0.00	0.00	0.00	0.00	0.00
2010	8		0.00	341.8686592	13,236.08	0.00	0.00	0.00	0.00	0.00	0.00
2010	9		0.06	279.7293114	13,834.08	0.00	0.00	0.00	0.00	0.00	0.00
2010	10		5.34	89.19647188	13,574.31	0.00	0.00	0.00	0.00	0.00	0.00
2010	11		32.39	12.44240312	13,460.29	0.00	0.00	0.00	0.00	0.00	0.00
2010	12		91.53	1.950862447	14,714.41	0.00	0.00	0.00	0.00	0.00	0.00

Commercial Model Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2011	1		147.61	0.419802049	15,156.16	1.00	0.00	0.00	0.00	0.00	0.00
2011	2		145.35	0.04699461	13,654.00	0.00	1.00	0.00	0.00	0.00	0.00
2011	3		104.05	1.261094263	13,405.00	0.00	0.00	1.00	0.00	0.00	0.00
2011	4		54.00	13.14418919	13,829.67	0.00	0.00	0.00	1.00	0.00	0.00
2011	5		13.54	43.73523932	13,660.83	0.00	0.00	0.00	0.00	1.00	0.00
2011	6		1.53	141.6735805	14,365.60	0.00	0.00	0.00	0.00	0.00	1.00
2011	7		0.01	297.553471	14,172.58	0.00	0.00	0.00	0.00	0.00	0.00
2011	8		0.00	344.0296698	13,493.86	0.00	0.00	0.00	0.00	0.00	0.00
2011	9		0.06	281.5092097	14,104.10	0.00	0.00	0.00	0.00	0.00	0.00
2011	10		5.37	89.75681058	13,838.14	0.00	0.00	0.00	0.00	0.00	0.00
2011	11		32.61	12.52232924	13,723.84	0.00	0.00	0.00	0.00	0.00	0.00
2011	12		92.19	1.963703466	15,004.87	0.00	0.00	0.00	0.00	0.00	0.00
2012	1		148.97	0.423621733	15,433.85	1.00	0.00	0.00	0.00	0.00	0.00
2012	2		146.68	0.047421012	13,903.83	0.00	1.00	0.00	0.00	0.00	0.00
2012	3		105.01	1.272503717	13,649.91	0.00	0.00	1.00	0.00	0.00	0.00
2012	4		54.45	13.25182847	14,070.37	0.00	0.00	0.00	1.00	0.00	0.00
2012	5		13.66	44.09376581	13,898.71	0.00	0.00	0.00	0.00	1.00	0.00
2012	6		1.54	142.8363329	14,615.89	0.00	0.00	0.00	0.00	0.00	1.00
2012	7		0.01	299.8678963	14,413.36	0.00	0.00	0.00	0.00	0.00	0.00
2012	8		0.00	346.7241101	13,723.85	0.00	0.00	0.00	0.00	0.00	0.00
2012	9		0.06	283.7276229	14,345.17	0.00	0.00	0.00	0.00	0.00	0.00
2012	10		5.42	90.46213904	14,074.36	0.00	0.00	0.00	0.00	0.00	0.00
2012	11		32.87	12.62139521	13,958.84	0.00	0.00	0.00	0.00	0.00	0.00
2012	12		92.93	1.979355112	15,262.71	0.00	0.00	0.00	0.00	0.00	0.00
2013	1		150.39	0.427730408	15,719.95	1.00	0.00	0.00	0.00	0.00	0.00
2013	2		148.02	0.047863256	14,156.33	0.00	1.00	0.00	0.00	0.00	0.00
2013	3		105.92	1.283883146	13,892.53	0.00	0.00	1.00	0.00	0.00	0.00
2013	4		54.92	13.36856557	14,318.56	0.00	0.00	0.00	1.00	0.00	0.00
2013	5		13.77	44.46584636	14,138.67	0.00	0.00	0.00	0.00	1.00	0.00
2013	6		1.55	143.9822591	14,862.11	0.00	0.00	0.00	0.00	0.00	1.00
2013	7		0.01	302.1988449	14,652.54	0.00	0.00	0.00	0.00	0.00	0.00
2013	8		0.00	349.2836627	13,946.17	0.00	0.00	0.00	0.00	0.00	0.00
2013	9		0.06	285.7225127	14,572.48	0.00	0.00	0.00	0.00	0.00	0.00
2013	10		5.45	91.0628781	14,291.84	0.00	0.00	0.00	0.00	0.00	0.00
2013	11		33.08	12.70070037	14,169.50	0.00	0.00	0.00	0.00	0.00	0.00
2013	12		93.46	1.99100128	15,486.89	0.00	0.00	0.00	0.00	0.00	0.00

Commercial Model Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2014	1		151.42	0.43078427	15,989.00	1.00	0.00	0.00	0.00	0.00	0.00
2014	2		149.03	0.04820574	14,398.84	0.00	1.00	0.00	0.00	0.00	0.00
2014	3		106.65	1.29309073	14,130.75	0.00	0.00	1.00	0.00	0.00	0.00
2014	4		55.29	13.46304054	14,562.58	0.00	0.00	0.00	1.00	0.00	0.00
2014	5		13.86	44.78063257	14,379.80	0.00	0.00	0.00	0.00	1.00	0.00
2014	6		1.56	145.0035368	15,115.78	0.00	0.00	0.00	0.00	0.00	1.00
2014	7		0.01	304.2991196	14,900.52	0.00	0.00	0.00	0.00	0.00	0.00
2014	8		0.00	351.7141594	14,182.31	0.00	0.00	0.00	0.00	0.00	0.00
2014	9		0.06	287.7129044	14,819.34	0.00	0.00	0.00	0.00	0.00	0.00
2014	10		5.49	91.68329678	14,531.73	0.00	0.00	0.00	0.00	0.00	0.00
2014	11		33.29	12.78724951	14,407.37	0.00	0.00	0.00	0.00	0.00	0.00
2014	12		94.07	2.004572186	15,746.89	0.00	0.00	0.00	0.00	0.00	0.00
2015	1		152.08	0.431789198	16,265.12	1.00	0.00	0.00	0.00	0.00	0.00
2015	2		149.68	0.048315732	14,646.76	0.00	1.00	0.00	0.00	0.00	0.00
2015	3		107.11	1.295973497	14,373.30	0.00	0.00	1.00	0.00	0.00	0.00
2015	4		55.52	13.4915164	14,810.85	0.00	0.00	0.00	1.00	0.00	0.00
2015	5		13.92	44.87291092	14,624.16	0.00	0.00	0.00	0.00	1.00	0.00
2015	6		1.57	145.2935121	15,371.71	0.00	0.00	0.00	0.00	0.00	1.00
2015	7		0.01	304.8960818	15,152.23	0.00	0.00	0.00	0.00	0.00	0.00
2015	8		0.00	352.3822322	14,421.00	0.00	0.00	0.00	0.00	0.00	0.00
2015	9		0.06	288.2433621	15,067.91	0.00	0.00	0.00	0.00	0.00	0.00
2015	10		5.51	91.85667901	14,776.18	0.00	0.00	0.00	0.00	0.00	0.00
2015	11		33.42	12.81067248	14,648.85	0.00	0.00	0.00	0.00	0.00	0.00
2015	12		94.43	2.008111365	16,009.77	0.00	0.00	0.00	0.00	0.00	0.00
2016	1		152.50	0.431973134	16,537.86	1.00	0.00	0.00	0.00	0.00	0.00
2016	2		150.09	0.048335449	14,892.10	0.00	1.00	0.00	0.00	0.00	0.00
2016	3		107.40	1.2964786	14,613.79	0.00	0.00	1.00	0.00	0.00	0.00
2016	4		55.68	13.49918751	15,061.35	0.00	0.00	0.00	1.00	0.00	0.00
2016	5		13.96	44.89745834	14,871.18	0.00	0.00	0.00	0.00	1.00	0.00
2016	6		1.57	145.369494	15,630.99	0.00	0.00	0.00	0.00	0.00	1.00
2016	7		0.01	305.1010188	15,410.11	0.00	0.00	0.00	0.00	0.00	0.00
2016	8		0.00	352.6100549	14,666.05	0.00	0.00	0.00	0.00	0.00	0.00
2016	9		0.06	288.4231055	15,323.60	0.00	0.00	0.00	0.00	0.00	0.00
2016	10		5.52	91.92347365	15,028.47	0.00	0.00	0.00	0.00	0.00	0.00
2016	11		33.52	12.81967735	14,898.61	0.00	0.00	0.00	0.00	0.00	0.00
2016	12		94.71	2.00946865	16,282.30	0.00	0.00	0.00	0.00	0.00	0.00

Commercial Model Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2017	1		152.71	0.431557676	16,796.84	1.00	0.00	0.00	0.00	0.00	0.00
2017	2		150.29	0.048287705	15,124.91	0.00	1.00	0.00	0.00	0.00	0.00
2017	3		107.54	1.295163438	14,841.86	0.00	0.00	1.00	0.00	0.00	0.00
2017	4		55.75	13.48485013	15,295.67	0.00	0.00	0.00	1.00	0.00	0.00
2017	5		13.98	44.84854319	15,102.13	0.00	0.00	0.00	0.00	1.00	0.00
2017	6		1.58	145.2066652	15,873.25	0.00	0.00	0.00	0.00	0.00	1.00
2017	7		0.01	304.7167076	15,646.76	0.00	0.00	0.00	0.00	0.00	0.00
2017	8		0.00	352.1554968	14,890.83	0.00	0.00	0.00	0.00	0.00	0.00
2017	9		0.06	288.0436791	15,558.05	0.00	0.00	0.00	0.00	0.00	0.00
2017	10		5.53	91.78249695	15,255.08	0.00	0.00	0.00	0.00	0.00	0.00
2017	11		33.55	12.79966664	15,122.84	0.00	0.00	0.00	0.00	0.00	0.00
2017	12		94.78	2.006270864	16,526.85	0.00	0.00	0.00	0.00	0.00	0.00
2018	1		152.63	0.42947007	17,033.30	1.00	0.00	0.00	0.00	0.00	0.00
2018	2		150.21	0.048052744	15,337.39	0.00	1.00	0.00	0.00	0.00	0.00
2018	3		107.48	1.28882361	15,049.92	0.00	0.00	1.00	0.00	0.00	0.00
2018	4		55.71	13.41615821	15,507.00	0.00	0.00	0.00	1.00	0.00	0.00
2018	5		13.97	44.61879898	15,310.34	0.00	0.00	0.00	0.00	1.00	0.00
2018	6		1.58	144.45817	16,091.57	0.00	0.00	0.00	0.00	0.00	1.00
2018	7		0.01	303.1087655	15,860.02	0.00	0.00	0.00	0.00	0.00	0.00
2018	8		0.00	350.2863817	15,093.33	0.00	0.00	0.00	0.00	0.00	0.00
2018	9		0.06	286.5069127	15,769.18	0.00	0.00	0.00	0.00	0.00	0.00
2018	10		5.52	91.28988245	15,461.60	0.00	0.00	0.00	0.00	0.00	0.00
2018	11		33.51	12.73061222	15,327.14	0.00	0.00	0.00	0.00	0.00	0.00
2018	12		94.67	1.995384833	16,749.60	0.00	0.00	0.00	0.00	0.00	0.00
2019	1		152.73	0.428011519	17,253.77	1.00	0.00	0.00	0.00	0.00	0.00
2019	2		150.30	0.047888138	15,535.45	0.00	1.00	0.00	0.00	0.00	0.00
2019	3		107.54	1.28436997	15,243.81	0.00	0.00	1.00	0.00	0.00	0.00
2019	4		55.74	13.37031136	15,707.38	0.00	0.00	0.00	1.00	0.00	0.00
2019	5		13.97	44.46504093	15,507.73	0.00	0.00	0.00	0.00	1.00	0.00
2019	6		1.58	143.9557234	16,298.51	0.00	0.00	0.00	0.00	0.00	1.00
2019	7		0.01	302.0568967	16,064.11	0.00	0.00	0.00	0.00	0.00	0.00
2019	8		0.00	349.0602248	15,287.08	0.00	0.00	0.00	0.00	0.00	0.00
2019	9		0.06	285.4962841	15,971.18	0.00	0.00	0.00	0.00	0.00	0.00
2019	10		5.53	90.96518302	15,659.20	0.00	0.00	0.00	0.00	0.00	0.00
2019	11		33.53	12.68498224	15,522.60	0.00	0.00	0.00	0.00	0.00	0.00
2019	12		94.71	1.988171795	16,962.67	0.00	0.00	0.00	0.00	0.00	0.00

Commercial Model Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2020	1		153.04	0.426452441	17,462.72	1.00	0.00	0.00	0.00	0.00	0.00
2020	2		150.61	0.047714213	15,723.76	0.00	1.00	0.00	0.00	0.00	0.00
2020	3		107.76	1.27971931	15,428.75	0.00	0.00	1.00	0.00	0.00	0.00
2020	4		55.86	13.32203973	15,898.11	0.00	0.00	0.00	1.00	0.00	0.00
2020	5		14.00	44.3049703	15,696.21	0.00	0.00	0.00	0.00	1.00	0.00
2020	6		1.58	143.4391722	16,496.79	0.00	0.00	0.00	0.00	0.00	1.00
2020	7		0.01	300.9810487	16,259.97	0.00	0.00	0.00	0.00	0.00	0.00
2020	8		0.00	347.8207385	15,473.64	0.00	0.00	0.00	0.00	0.00	0.00
2020	9		0.06	284.4852687	16,166.24	0.00	0.00	0.00	0.00	0.00	0.00
2020	10		5.54	90.64775012	15,851.27	0.00	0.00	0.00	0.00	0.00	0.00
2020	11		33.60	12.64084145	15,713.15	0.00	0.00	0.00	0.00	0.00	0.00
2020	12		94.92	1.981275199	17,171.09	0.00	0.00	0.00	0.00	0.00	0.00
2021	1		153.54	0.425890783	17,683.31	1.00	0.00	0.00	0.00	0.00	0.00
2021	2		151.12	0.047654588	15,923.46	0.00	1.00	0.00	0.00	0.00	0.00
2021	3		108.14	1.278208526	15,625.79	0.00	0.00	1.00	0.00	0.00	0.00
2021	4		56.05	13.30744974	16,102.52	0.00	0.00	0.00	1.00	0.00	0.00
2021	5		14.05	44.25948216	15,899.11	0.00	0.00	0.00	0.00	1.00	0.00
2021	6		1.59	143.3028766	16,711.32	0.00	0.00	0.00	0.00	0.00	1.00
2021	7		0.01	300.7161784	16,472.57	0.00	0.00	0.00	0.00	0.00	0.00
2021	8		0.00	347.5402736	15,677.12	0.00	0.00	0.00	0.00	0.00	0.00
2021	9		0.06	284.2746206	16,379.91	0.00	0.00	0.00	0.00	0.00	0.00
2021	10		5.56	90.58357818	16,061.30	0.00	0.00	0.00	0.00	0.00	0.00
2021	11		33.73	12.63274846	15,922.43	0.00	0.00	0.00	0.00	0.00	0.00
2021	12		95.31	1.98015614	17,401.10	0.00	0.00	0.00	0.00	0.00	0.00
2022	1		154.16	0.425492228	17,908.63	1.00	0.00	0.00	0.00	0.00	0.00
2022	2		151.73	0.047612727	16,127.28	0.00	1.00	0.00	0.00	0.00	0.00
2022	3		108.58	1.277160935	15,826.73	0.00	0.00	1.00	0.00	0.00	0.00
2022	4		56.28	13.29614829	16,309.11	0.00	0.00	0.00	1.00	0.00	0.00
2022	5		14.11	44.2244697	16,104.02	0.00	0.00	0.00	0.00	1.00	0.00
2022	6		1.59	143.1988384	16,927.80	0.00	0.00	0.00	0.00	0.00	1.00
2022	7		0.01	300.4930102	16,685.70	0.00	0.00	0.00	0.00	0.00	0.00
2022	8		0.00	347.3041262	15,880.95	0.00	0.00	0.00	0.00	0.00	0.00
2022	9		0.06	284.0974013	16,593.81	0.00	0.00	0.00	0.00	0.00	0.00
2022	10		5.58	90.52674561	16,270.97	0.00	0.00	0.00	0.00	0.00	0.00
2022	11		33.88	12.62554963	16,131.21	0.00	0.00	0.00	0.00	0.00	0.00
2022	12		95.73	1.979154778	17,630.40	0.00	0.00	0.00	0.00	0.00	0.00

Commercial Model Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2023	1		154.61	0.425545351	18,141.06	1.00	0.00	0.00	0.00	0.00	0.00
2023	2		152.18	0.047619748	16,336.96	0.00	1.00	0.00	0.00	0.00	0.00
2023	3		108.91	1.277378861	16,032.87	0.00	0.00	1.00	0.00	0.00	0.00
2023	4		56.45	13.29812234	16,521.16	0.00	0.00	0.00	1.00	0.00	0.00
2023	5		14.15	44.23205616	16,313.79	0.00	0.00	0.00	0.00	1.00	0.00
2023	6		1.60	143.227101	17,148.75	0.00	0.00	0.00	0.00	0.00	1.00
2023	7		0.01	300.5516852	16,903.44	0.00	0.00	0.00	0.00	0.00	0.00
2023	8		0.00	347.3806138	16,088.59	0.00	0.00	0.00	0.00	0.00	0.00
2023	9		0.06	284.1663224	16,811.15	0.00	0.00	0.00	0.00	0.00	0.00
2023	10		5.60	90.5497886	16,484.28	0.00	0.00	0.00	0.00	0.00	0.00
2023	11		33.99	12.62905371	16,343.07	0.00	0.00	0.00	0.00	0.00	0.00
2023	12		96.03	1.979754834	17,862.40	0.00	0.00	0.00	0.00	0.00	0.00
2024	1		155.05	0.427238848	18,374.72	1.00	0.00	0.00	0.00	0.00	0.00
2024	2		152.60	0.047807584	16,546.81	0.00	1.00	0.00	0.00	0.00	0.00
2024	3		109.20	1.282371488	16,238.23	0.00	0.00	1.00	0.00	0.00	0.00
2024	4		56.60	13.34953687	16,732.08	0.00	0.00	0.00	1.00	0.00	0.00
2024	5		14.19	44.40148358	16,521.47	0.00	0.00	0.00	0.00	1.00	0.00
2024	6		1.60	143.769972	17,366.36	0.00	0.00	0.00	0.00	0.00	1.00
2024	7		0.01	301.6698914	17,116.75	0.00	0.00	0.00	0.00	0.00	0.00
2024	8		0.00	348.6594733	16,290.98	0.00	0.00	0.00	0.00	0.00	0.00
2024	9		0.06	285.2025189	17,022.04	0.00	0.00	0.00	0.00	0.00	0.00
2024	10		5.61	90.87239193	16,689.67	0.00	0.00	0.00	0.00	0.00	0.00
2024	11		34.07	12.67358939	16,546.10	0.00	0.00	0.00	0.00	0.00	0.00
2024	12		96.25	1.986656252	18,083.59	0.00	0.00	0.00	0.00	0.00	0.00
2025	1		155.47	0.428569795	18,598.81	1.00	0.00	0.00	0.00	0.00	0.00
2025	2		153.01	0.047954776	16,748.00	0.00	1.00	0.00	0.00	0.00	0.00
2025	3		109.49	1.286271879	16,435.05	0.00	0.00	1.00	0.00	0.00	0.00
2025	4		56.75	13.38887557	16,933.29	0.00	0.00	0.00	1.00	0.00	0.00
2025	5		14.23	44.53068034	16,719.53	0.00	0.00	0.00	0.00	1.00	0.00
2025	6		1.60	144.1823438	17,573.82	0.00	0.00	0.00	0.00	0.00	1.00
2025	7		0.01	302.5074394	17,319.64	0.00	0.00	0.00	0.00	0.00	0.00
2025	8		0.00	349.6136045	16,483.43	0.00	0.00	0.00	0.00	0.00	0.00
2025	9		0.06	285.972835	17,222.51	0.00	0.00	0.00	0.00	0.00	0.00
2025	10		5.63	91.10973251	16,884.73	0.00	0.00	0.00	0.00	0.00	0.00
2025	11		34.14	12.7062272	16,738.87	0.00	0.00	0.00	0.00	0.00	0.00
2025	12		96.46	1.991691498	18,293.53	0.00	0.00	0.00	0.00	0.00	0.00

Commercial Model Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2026	1		155.94	0.430153726	18,808.39	1.00	0.00	0.00	0.00	0.00	0.00
2026	2		153.48	0.048130702	16,936.26	0.00	1.00	0.00	0.00	0.00	0.00
2026	3		109.82	1.290954721	16,619.34	0.00	0.00	1.00	0.00	0.00	0.00
2026	4		56.91	13.43681182	17,122.13	0.00	0.00	0.00	1.00	0.00	0.00
2026	5		14.27	44.6888654	16,905.52	0.00	0.00	0.00	0.00	1.00	0.00
2026	6		1.61	144.690146	17,768.77	0.00	0.00	0.00	0.00	0.00	1.00
2026	7		0.01	303.5545861	17,510.72	0.00	0.00	0.00	0.00	0.00	0.00
2026	8		0.00	350.8134353	16,664.79	0.00	0.00	0.00	0.00	0.00	0.00
2026	9		0.06	286.9466649	17,411.54	0.00	0.00	0.00	0.00	0.00	0.00
2026	10		5.64	91.41495885	17,069.12	0.00	0.00	0.00	0.00	0.00	0.00
2026	11		34.23	12.74844908	16,921.21	0.00	0.00	0.00	0.00	0.00	0.00
2026	12		96.72	1.998249457	18,492.24	0.00	0.00	0.00	0.00	0.00	0.00
2027	1		156.46	0.43155669	19,009.09	1.00	0.00	0.00	0.00	0.00	0.00
2027	2		153.98	0.048287131	17,116.78	0.00	1.00	0.00	0.00	0.00	0.00
2027	3		110.18	1.295135322	16,796.29	0.00	0.00	1.00	0.00	0.00	0.00
2027	4		57.10	13.48006294	17,304.09	0.00	0.00	0.00	1.00	0.00	0.00
2027	5		14.32	44.83221147	17,084.99	0.00	0.00	0.00	0.00	1.00	0.00
2027	6		1.61	145.1523035	17,957.16	0.00	0.00	0.00	0.00	0.00	1.00
2027	7		0.01	304.5199659	17,696.13	0.00	0.00	0.00	0.00	0.00	0.00
2027	8		0.00	351.9247621	16,841.04	0.00	0.00	0.00	0.00	0.00	0.00
2027	9		0.06	287.8524897	17,595.49	0.00	0.00	0.00	0.00	0.00	0.00
2027	10		5.66	91.70261068	17,249.28	0.00	0.00	0.00	0.00	0.00	0.00
2027	11		34.34	12.78841881	17,099.61	0.00	0.00	0.00	0.00	0.00	0.00
2027	12		97.02	2.004489123	18,686.97	0.00	0.00	0.00	0.00	0.00	0.00
2028	1		156.89	0.43226268	19,204.12	1.00	0.00	0.00	0.00	0.00	0.00
2028	2		154.40	0.048367074	17,292.74	0.00	1.00	0.00	0.00	0.00	0.00
2028	3		110.49	1.297305585	16,969.29	0.00	0.00	1.00	0.00	0.00	0.00
2028	4		57.26	13.50289856	17,482.65	0.00	0.00	0.00	1.00	0.00	0.00
2028	5		14.36	44.90905096	17,261.62	0.00	0.00	0.00	0.00	1.00	0.00
2028	6		1.62	145.4043141	18,143.22	0.00	0.00	0.00	0.00	0.00	1.00
2028	7		0.01	305.0483001	17,879.47	0.00	0.00	0.00	0.00	0.00	0.00
2028	8		0.00	352.5428014	17,015.87	0.00	0.00	0.00	0.00	0.00	0.00
2028	9		0.06	288.3634649	17,778.49	0.00	0.00	0.00	0.00	0.00	0.00
2028	10		5.68	91.86393514	17,428.40	0.00	0.00	0.00	0.00	0.00	0.00
2028	11		34.44	12.81116368	17,277.51	0.00	0.00	0.00	0.00	0.00	0.00
2028	12		97.30	2.008097395	18,881.79	0.00	0.00	0.00	0.00	0.00	0.00

Commercial Model Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2029	1		157.27	0.433051582	19,399.51	1.00	0.00	0.00	0.00	0.00	0.00
2029	2		154.79	0.048457201	17,469.36	0.00	1.00	0.00	0.00	0.00	0.00
2029	3		110.77	1.299773974	17,143.28	0.00	0.00	1.00	0.00	0.00	0.00
2029	4		57.40	13.528529	17,661.82	0.00	0.00	0.00	1.00	0.00	0.00
2029	5		14.39	44.99603904	17,439.20	0.00	0.00	0.00	0.00	1.00	0.00
2029	6		1.62	145.6922737	18,330.66	0.00	0.00	0.00	0.00	0.00	1.00
2029	7		0.01	305.6604604	18,064.66	0.00	0.00	0.00	0.00	0.00	0.00
2029	8		0.00	353.2649576	17,192.84	0.00	0.00	0.00	0.00	0.00	0.00
2029	9		0.06	288.9649045	17,964.05	0.00	0.00	0.00	0.00	0.00	0.00
2029	10		5.69	92.05995048	17,611.15	0.00	0.00	0.00	0.00	0.00	0.00
2029	11		34.54	12.83898817	17,459.35	0.00	0.00	0.00	0.00	0.00	0.00
2029	12		97.58	2.012544118	19,081.32	0.00	0.00	0.00	0.00	0.00	0.00
2030	1		157.64	0.433448532	19,596.20	1.00	0.00	0.00	0.00	0.00	0.00
2030	2		155.16	0.048503036	17,646.99	0.00	1.00	0.00	0.00	0.00	0.00
2030	3		111.03	1.301042388	17,318.12	0.00	0.00	1.00	0.00	0.00	0.00
2030	4		57.54	13.54253383	17,843.00	0.00	0.00	0.00	1.00	0.00	0.00
2030	5		14.43	45.04395443	17,618.62	0.00	0.00	0.00	0.00	1.00	0.00
2030	6		1.63	145.852254	18,519.87	0.00	0.00	0.00	0.00	0.00	1.00
2030	7		0.01	306.0183845	18,252.45	0.00	0.00	0.00	0.00	0.00	0.00
2030	8		0.00	353.6898144	17,372.12	0.00	0.00	0.00	0.00	0.00	0.00
2030	9		0.06	289.3206243	18,151.89	0.00	0.00	0.00	0.00	0.00	0.00
2030	10		5.71	92.18037776	17,796.67	0.00	0.00	0.00	0.00	0.00	0.00
2030	11		34.63	12.85615481	17,643.77	0.00	0.00	0.00	0.00	0.00	0.00
2030	12		97.85	2.01529995	19,283.50	0.00	0.00	0.00	0.00	0.00	0.00
2031	1		158.20	0.434774736	19,821.17	1.00	0.00	0.00	0.00	0.00	0.00
2031	2		155.71	0.048651416	17,849.57	0.00	1.00	0.00	0.00	0.00	0.00
2031	3		111.43	1.305021912	17,516.91	0.00	0.00	1.00	0.00	0.00	0.00
2031	4		57.75	13.58418915	18,048.13	0.00	0.00	0.00	1.00	0.00	0.00
2031	5		14.48	45.18247754	17,821.16	0.00	0.00	0.00	0.00	1.00	0.00
2031	6		1.63	146.3006935	18,732.76	0.00	0.00	0.00	0.00	0.00	1.00
2031	7		0.01	306.9569658	18,462.12	0.00	0.00	0.00	0.00	0.00	0.00
2031	8		0.00	354.7743406	17,571.66	0.00	0.00	0.00	0.00	0.00	0.00
2031	9		0.06	290.2075785	18,360.38	0.00	0.00	0.00	0.00	0.00	0.00
2031	10		5.73	92.46017761	18,000.53	0.00	0.00	0.00	0.00	0.00	0.00
2031	11		34.75	12.8951683	17,845.88	0.00	0.00	0.00	0.00	0.00	0.00
2031	12		98.20	2.021413958	19,504.37	0.00	0.00	0.00	0.00	0.00	0.00

Commercial Model Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2032	1		158.75	0.436072406	20,048.38	1.00	0.00	0.00	0.00	0.00	0.00
2032	2		156.25	0.048795624	18,053.82	0.00	1.00	0.00	0.00	0.00	0.00
2032	3		111.81	1.308862575	17,716.97	0.00	0.00	1.00	0.00	0.00	0.00
2032	4		57.95	13.62352577	18,253.40	0.00	0.00	0.00	1.00	0.00	0.00
2032	5		14.53	45.31235841	18,023.47	0.00	0.00	0.00	0.00	1.00	0.00
2032	6		1.64	146.7177814	18,944.97	0.00	0.00	0.00	0.00	0.00	1.00
2032	7		0.01	307.8198695	18,670.53	0.00	0.00	0.00	0.00	0.00	0.00
2032	8		0.00	355.7635607	17,769.61	0.00	0.00	0.00	0.00	0.00	0.00
2032	9		0.06	291.0108301	18,566.84	0.00	0.00	0.00	0.00	0.00	0.00
2032	10		5.75	92.71416342	18,202.56	0.00	0.00	0.00	0.00	0.00	0.00
2032	11		34.87	12.93031903	18,045.79	0.00	0.00	0.00	0.00	0.00	0.00
2032	12		98.51	2.026876563	19,722.40	0.00	0.00	0.00	0.00	0.00	0.00
2033	1		159.27	0.437251773	20,273.72	1.00	0.00	0.00	0.00	0.00	0.00
2033	2		156.75	0.048927128	18,256.56	0.00	1.00	0.00	0.00	0.00	0.00
2033	3		112.17	1.31237715	17,915.76	0.00	0.00	1.00	0.00	0.00	0.00
2033	4		58.13	13.66021521	18,458.36	0.00	0.00	0.00	1.00	0.00	0.00
2033	5		14.58	45.43395334	18,225.67	0.00	0.00	0.00	0.00	1.00	0.00
2033	6		1.64	147.109919	19,157.30	0.00	0.00	0.00	0.00	0.00	1.00
2033	7		0.01	308.6461681	18,880.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	8		0.00	356.7149038	17,968.79	0.00	0.00	0.00	0.00	0.00	0.00
2033	9		0.06	291.7863436	18,774.78	0.00	0.00	0.00	0.00	0.00	0.00
2033	10		5.76	92.96234951	18,406.65	0.00	0.00	0.00	0.00	0.00	0.00
2033	11		34.98	12.96481109	18,247.95	0.00	0.00	0.00	0.00	0.00	0.00
2033	12		98.83	2.032262173	19,943.13	0.00	0.00	0.00	0.00	0.00	0.00
2034	1		159.78	0.438429981	20,502.58	1.00	0.00	0.00	0.00	0.00	0.00
2034	2		157.25	0.0490593	18,462.78	0.00	1.00	0.00	0.00	0.00	0.00
2034	3		112.53	1.315931623	18,118.26	0.00	0.00	1.00	0.00	0.00	0.00
2034	4		58.32	13.69796603	18,668.01	0.00	0.00	0.00	1.00	0.00	0.00
2034	5		14.62	45.55983285	18,432.81	0.00	0.00	0.00	0.00	1.00	0.00
2034	6		1.65	147.5186614	19,375.18	0.00	0.00	0.00	0.00	0.00	1.00
2034	7		0.01	309.5291955	19,096.30	0.00	0.00	0.00	0.00	0.00	0.00
2034	8		0.00	357.7382209	18,174.79	0.00	0.00	0.00	0.00	0.00	0.00
2034	9		0.06	292.6254241	18,990.15	0.00	0.00	0.00	0.00	0.00	0.00
2034	10		5.78	93.23930978	18,619.72	0.00	0.00	0.00	0.00	0.00	0.00
2034	11		35.10	13.00352928	18,459.31	0.00	0.00	0.00	0.00	0.00	0.00
2034	12		99.17	2.03834749	20,174.29	0.00	0.00	0.00	0.00	0.00	0.00

Commercial Model Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2035	1		160.35	0.439786913	20,743.52	1.00	0.00	0.00	0.00	0.00	0.00
2035	2		157.82	0.049211195	18,679.76	0.00	1.00	0.00	0.00	0.00	0.00
2035	3		112.94	1.32000751	18,331.22	0.00	0.00	1.00	0.00	0.00	0.00
2035	4		58.54	13.74160476	18,889.09	0.00	0.00	0.00	1.00	0.00	0.00
2035	5		14.68	45.70503749	18,651.13	0.00	0.00	0.00	0.00	1.00	0.00
2035	6		1.66	147.9890416	19,604.69	0.00	0.00	0.00	0.00	0.00	1.00
2035	7		0.01	310.535312	19,323.70	0.00	0.00	0.00	0.00	0.00	0.00
2035	8		0.00	358.9015705	18,391.25	0.00	0.00	0.00	0.00	0.00	0.00
2035	9		0.06	293.5774185	19,216.34	0.00	0.00	0.00	0.00	0.00	0.00
2035	10		5.81	93.54551556	18,842.08	0.00	0.00	0.00	0.00	0.00	0.00
2035	11		35.23	13.04625238	18,679.78	0.00	0.00	0.00	0.00	0.00	0.00
2035	12		99.55	2.045047698	20,415.28	0.00	0.00	0.00	0.00	0.00	0.00
2036	1		160.96	0.441235534	20,992.66	1.00	0.00	0.00	0.00	0.00	0.00
2036	2		158.42	0.049373094	18,904.05	0.00	1.00	0.00	0.00	0.00	0.00
2036	3		113.37	1.324344714	18,551.24	0.00	0.00	1.00	0.00	0.00	0.00
2036	4		58.76	13.78662417	19,115.63	0.00	0.00	0.00	1.00	0.00	0.00
2036	5		14.73	45.85458504	18,874.74	0.00	0.00	0.00	0.00	1.00	0.00
2036	6		1.66	148.4725813	19,839.64	0.00	0.00	0.00	0.00	0.00	1.00
2036	7		0.01	311.5408755	19,554.71	0.00	0.00	0.00	0.00	0.00	0.00
2036	8		0.00	360.0621825	18,611.03	0.00	0.00	0.00	0.00	0.00	0.00
2036	9		0.06	294.5256368	19,445.91	0.00	0.00	0.00	0.00	0.00	0.00
2036	10		5.83	93.84433922	19,066.50	0.00	0.00	0.00	0.00	0.00	0.00
2036	11		35.36	13.08787607	18,902.19	0.00	0.00	0.00	0.00	0.00	0.00
2036	12		99.92	2.051563362	20,658.26	0.00	0.00	0.00	0.00	0.00	0.00
2037	1		161.55	0.44262048	21,242.75	1.00	0.00	0.00	0.00	0.00	0.00
2037	2		159.00	0.049527835	19,129.17	0.00	1.00	0.00	0.00	0.00	0.00
2037	3		113.78	1.328489043	18,772.07	0.00	0.00	1.00	0.00	0.00	0.00
2037	4		58.97	13.82902105	19,342.13	0.00	0.00	0.00	1.00	0.00	0.00
2037	5		14.79	45.99537987	19,098.29	0.00	0.00	0.00	0.00	1.00	0.00
2037	6		1.67	148.9276716	20,074.52	0.00	0.00	0.00	0.00	0.00	1.00
2037	7		0.01	312.4794877	19,785.18	0.00	0.00	0.00	0.00	0.00	0.00
2037	8		0.00	361.1451016	18,830.28	0.00	0.00	0.00	0.00	0.00	0.00
2037	9		0.06	295.4100736	19,674.90	0.00	0.00	0.00	0.00	0.00	0.00
2037	10		5.85	94.12067383	19,289.90	0.00	0.00	0.00	0.00	0.00	0.00
2037	11		35.49	13.12635182	19,123.58	0.00	0.00	0.00	0.00	0.00	0.00
2037	12		100.26	2.057583562	20,900.11	0.00	0.00	0.00	0.00	0.00	0.00

Commercial Model Data

Year	Month	Sales	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2038	1		162.14	0.444016088	21,497.37	1.00	0.00	0.00	0.00	0.00	0.00
2038	2		159.58	0.049683913	19,358.42	0.00	1.00	0.00	0.00	0.00	0.00
2038	3		114.19	1.332673173	18,997.00	0.00	0.00	1.00	0.00	0.00	0.00
2038	4		59.18	13.87187819	19,572.92	0.00	0.00	0.00	1.00	0.00	0.00
2038	5		14.84	46.13784314	19,326.14	0.00	0.00	0.00	0.00	1.00	0.00
2038	6		1.67	149.3886623	20,313.97	0.00	0.00	0.00	0.00	0.00	1.00
2038	7		0.01	313.4318767	20,020.23	0.00	0.00	0.00	0.00	0.00	0.00
2038	8		0.00	362.2451626	19,053.95	0.00	0.00	0.00	0.00	0.00	0.00
2038	9		0.06	296.3094252	19,908.58	0.00	0.00	0.00	0.00	0.00	0.00
2038	10		5.87	94.40222169	19,517.97	0.00	0.00	0.00	0.00	0.00	0.00
2038	11		35.61	13.16559665	19,349.65	0.00	0.00	0.00	0.00	0.00	0.00
2038	12		100.61	2.063731658	21,147.14	0.00	0.00	0.00	0.00	0.00	0.00

Commercial Model Data

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on
1996	1	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1996	2	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1996	3	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1996	4	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1996	5	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1996	6	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1996	7	1.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1996	8	0.00	1.00	0.00	0.00	0	0.00	0.00	0.00	0
1996	9	0.00	0.00	1.00	0.00	0	0.00	0.00	0.00	0
1996	10	0.00	0.00	0.00	1.00	0	0.00	0.00	0.00	0
1996	11	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0
1996	12	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1997	1	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1997	2	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1997	3	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1997	4	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1997	5	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1997	6	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1997	7	1.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1997	8	0.00	1.00	0.00	0.00	0	0.00	0.00	0.00	0
1997	9	0.00	0.00	1.00	0.00	0	0.00	0.00	0.00	0
1997	10	0.00	0.00	0.00	1.00	0	0.00	0.00	0.00	0
1997	11	0.00	0.00	0.00	0.00	1	1.00	0.00	0.00	0
1997	12	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1998	1	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1998	2	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1998	3	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1998	4	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1998	5	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1998	6	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1998	7	1.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1998	8	0.00	1.00	0.00	0.00	0	0.00	0.00	0.00	0
1998	9	0.00	0.00	1.00	0.00	0	0.00	0.00	0.00	0
1998	10	0.00	0.00	0.00	1.00	0	0.00	0.00	0.00	0
1998	11	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0
1998	12	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0

Commercial Model Data

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on
1999	1	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1999	2	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1999	3	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1999	4	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1999	5	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1999	6	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1999	7	1.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
1999	8	0.00	1.00	0.00	0.00	0	0.00	0.00	0.00	0
1999	9	0.00	0.00	1.00	0.00	0	0.00	0.00	0.00	0
1999	10	0.00	0.00	0.00	1.00	0	0.00	0.00	0.00	0
1999	11	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0
1999	12	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
2000	1	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2000	2	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2000	3	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2000	4	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2000	5	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2000	6	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2000	7	1.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2000	8	0.00	1.00	0.00	0.00	0	0.00	0.00	0.00	1
2000	9	0.00	0.00	1.00	0.00	0	0.00	0.00	0.00	1
2000	10	0.00	0.00	0.00	1.00	0	0.00	0.00	0.00	1
2000	11	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	1
2000	12	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2001	1	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2001	2	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2001	3	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2001	4	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2001	5	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2001	6	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2001	7	1.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2001	8	0.00	1.00	0.00	0.00	0	0.00	0.00	0.00	1
2001	9	0.00	0.00	1.00	0.00	0	0.00	0.00	0.00	1
2001	10	0.00	0.00	0.00	1.00	0	0.00	0.00	0.00	1
2001	11	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	1
2001	12	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1

Commercial Model Data

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on
2002	1	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2002	2	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2002	3	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2002	4	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2002	5	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2002	6	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2002	7	1.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2002	8	0.00	1.00	0.00	0.00	0	0.00	0.00	0.00	1
2002	9	0.00	0.00	1.00	0.00	0	0.00	0.00	0.00	1
2002	10	0.00	0.00	0.00	1.00	0	0.00	0.00	0.00	1
2002	11	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	1
2002	12	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2003	1	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2003	2	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2003	3	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2003	4	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2003	5	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2003	6	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2003	7	1.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2003	8	0.00	1.00	0.00	0.00	0	0.00	0.00	0.00	1
2003	9	0.00	0.00	1.00	0.00	0	0.00	0.00	0.00	1
2003	10	0.00	0.00	0.00	1.00	0	0.00	0.00	0.00	1
2003	11	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	1
2003	12	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2004	1	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2004	2	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2004	3	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2004	4	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2004	5	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2004	6	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2004	7	1.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1
2004	8	0.00	1.00	0.00	0.00	0	0.00	0.00	0.00	1
2004	9	0.00	0.00	1.00	0.00	0	0.00	0.00	0.00	1
2004	10	0.00	0.00	0.00	1.00	0	0.00	0.00	0.00	1
2004	11	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	1
2004	12	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	1

Commercial Model Data

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on
2005	1	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2005	2	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2005	3	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2005	4	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2005	5	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2005	6	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2005	7	1.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2005	8	0.00	1.00	0.00	0.00	0	0.00	1.00	0.00	1
2005	9	0.00	0.00	1.00	0.00	0	0.00	1.00	0.00	1
2005	10	0.00	0.00	0.00	1.00	0	0.00	1.00	0.00	1
2005	11	0.00	0.00	0.00	0.00	1	0.00	1.00	0.00	1
2005	12	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2006	1	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2006	2	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2006	3	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2006	4	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2006	5	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2006	6	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2006	7	1.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2006	8	0.00	1.00	0.00	0.00	0	0.00	1.00	0.00	1
2006	9	0.00	0.00	1.00	0.00	0	0.00	1.00	0.00	1
2006	10	0.00	0.00	0.00	1.00	0	0.00	1.00	0.00	1
2006	11	0.00	0.00	0.00	0.00	1	0.00	1.00	0.00	1
2006	12	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2007	1	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2007	2	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2007	3	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2007	4	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2007	5	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2007	6	0.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2007	7	1.00	0.00	0.00	0.00	0	0.00	1.00	0.00	1
2007	8	0.00	1.00	0.00	0.00	0	0.00	1.00	0.00	1
2007	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2007	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2007	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2007	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1

Commercial Model Data

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on
2008	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2008	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2008	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2008	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2008	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2008	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2008	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2008	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2008	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2008	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2008	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2008	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2009	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2009	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2009	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2009	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2009	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2009	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2009	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2009	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2009	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2009	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2009	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2009	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2010	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2010	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2010	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2010	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2010	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2010	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2010	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2010	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2010	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2010	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2010	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2010	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1

Commercial Model Data

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on
2011	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2011	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2011	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2011	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2011	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2011	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2011	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2011	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2011	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2011	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2011	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2011	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2012	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2012	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2012	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2012	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2012	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2012	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2012	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2012	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2012	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2012	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2012	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2012	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2013	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2013	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2013	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2013	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2013	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2013	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2013	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2013	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2013	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2013	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2013	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2013	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1

Commercial Model Data

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on
2014	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2014	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2014	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2014	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2014	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2014	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2014	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2014	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2014	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2014	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2014	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2014	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2015	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2015	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2015	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2015	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2015	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2015	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2015	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2015	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2015	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2015	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2015	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2015	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2016	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2016	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2016	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2016	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2016	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2016	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2016	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2016	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2016	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2016	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2016	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2016	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1

Commercial Model Data

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on
2017	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2017	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2017	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2017	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2017	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2017	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2017	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2017	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2017	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2017	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2017	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2017	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2018	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2018	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2018	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2018	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2018	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2018	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2018	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2018	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2018	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2018	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2018	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2018	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2019	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2019	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2019	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2019	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2019	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2019	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2019	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2019	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2019	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2019	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2019	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2019	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1

Commercial Model Data

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on
2020	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2020	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2020	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2020	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2020	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2020	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2020	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2020	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2020	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2020	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2020	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2020	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2021	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2021	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2021	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2021	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2021	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2021	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2021	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2021	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2021	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2021	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2021	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2021	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2022	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2022	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2022	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2022	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2022	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2022	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2022	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2022	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2022	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2022	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2022	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2022	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1

Commercial Model Data

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on
2023	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2023	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2023	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2023	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2023	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2023	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2023	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2023	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2023	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2023	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2023	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2023	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2024	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2024	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2024	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2024	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2024	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2024	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2024	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2024	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2024	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2024	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2024	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2024	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2025	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2025	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2025	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2025	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2025	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2025	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2025	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2025	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2025	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2025	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2025	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2025	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1

Commercial Model Data

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on
2026	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2026	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2026	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2026	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2026	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2026	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2026	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2026	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2026	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2026	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2026	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2026	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2027	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2027	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2027	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2027	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2027	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2027	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2027	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2027	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2027	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2027	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2027	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2027	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2028	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2028	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2028	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2028	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2028	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2028	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2028	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2028	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2028	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2028	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2028	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2028	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1

Commercial Model Data

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on
2029	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2029	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2029	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2029	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2029	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2029	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2029	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2029	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2029	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2029	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2029	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2029	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2030	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2030	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2030	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2030	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2030	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2030	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2030	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2030	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2030	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2030	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2030	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2030	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2031	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2031	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2031	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2031	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2031	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2031	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2031	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2031	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2031	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2031	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2031	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2031	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1

Commercial Model Data

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on
2032	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2032	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2032	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2032	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2032	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2032	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2032	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2032	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2032	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2032	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2032	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2032	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2033	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2033	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2033	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2033	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2033	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2033	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2033	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2033	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2033	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2033	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2033	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2033	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2034	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2034	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2034	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2034	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2034	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2034	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2034	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2034	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2034	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2034	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2034	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2034	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1

Commercial Model Data

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on
2035	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2035	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2035	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2035	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2035	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2035	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2035	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2035	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2035	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2035	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2035	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2035	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2036	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2036	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2036	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2036	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2036	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2036	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2036	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2036	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2036	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2036	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2036	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2036	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2037	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2037	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2037	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2037	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2037	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2037	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2037	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2037	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2037	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2037	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2037	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2037	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1

Commercial Model Data

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on
2038	1	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2038	2	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2038	3	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2038	4	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2038	5	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2038	6	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2038	7	1.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1
2038	8	0.00	1.00	0.00	0.00	0	0.00	1.00	1.00	1
2038	9	0.00	0.00	1.00	0.00	0	0.00	1.00	1.00	1
2038	10	0.00	0.00	0.00	1.00	0	0.00	1.00	1.00	1
2038	11	0.00	0.00	0.00	0.00	1	0.00	1.00	1.00	1
2038	12	0.00	0.00	0.00	0.00	0	0.00	1.00	1.00	1

Commercial Model Coefficients

CommercialVars.XHeat	153.674	12.903	11.910	0.00%	Commercial Heating Component
CommercialVars.XCool	55.892	5.821	9.601	0.00%	Commercial Cooling Component
CommercialVars.XOther	7.281	0.122	59.776	0.00%	Commercial Other Component
BinaryVars.Jan	-754.685	1282.497	-0.588	55.72%	January
BinaryVars.Feb	1054.964	1294.121	0.815	41.64%	February
BinaryVars.Mar	-968.188	1072.994	-0.902	36.85%	March
BinaryVars.Apr	-2977.095	1131.737	-2.631	0.95%	April
BinaryVars.May	370.524	1436.410	0.258	79.68%	May
BinaryVars.Jun	-176.714	1746.614	-0.101	91.96%	June
BinaryVars.Jul	2574.838	2271.877	1.133	25.91%	July
BinaryVars.Aug	5148.395	2403.279	2.142	3.40%	August
BinaryVars.Sep	5891.727	2218.109	2.656	0.89%	September
BinaryVars.Oct	2222.995	1589.992	1.398	16.44%	October
BinaryVars.Nov	-1547.405	1308.365	-1.183	23.90%	November
BinaryVars.Nov97	-13018.647	2895.017	-4.497	0.00%	Binary-Novmeber 1997
BinaryVars.D05on	3507.871	623.667	5.625	0.00%	Binary-2005 On
BinaryVars.Sep07on	1251.635	884.535	1.415	15.94%	Binary-September 2007 On
BinaryVars.D00on	2047.706	573.899	3.568	0.05%	Binary-2000 On

Commercial Model Statistics

Regression Statistics		Forecast Statistics	
Iterations	1	Forecast Observations	0
Adjusted Observations	154	Mean Abs. Dev. (MAD)	0.00
Deg. of Freedom for Error	136	Mean Abs. % Err. (MAPE)	0.00%
R-Squared	0.961	Avg. Forecast Error	0.00
Adjusted R-Squared	0.956	Mean % Error	0.00%
Durbin-Watson Statistic	1.946	Root Mean-Square Error	0.000
Durbin-H Statistic	#NA	Theil's Inequality Coefficient	0.0000
AIC	15.938	-- Bias Proportion	0.00%
BIC	16.293	-- Variance Proportion	0.00%
F-Statistic	183.798	-- Covariance Proportion	0.00%
Prob (F-Statistic)	0.0000		
Log-Likelihood	-1427.77		
Model Sum of Squares	24774950540		
Sum of Squared Errors	1018445002		
Mean Squared Error	7488566.19		
Std. Error of Regression	2736.52		
Mean Abs. Dev. (MAD)	1776.57		
Mean Abs. % Err. (MAPE)	1.69%		
Ljung-Box Statistic	18.97		
Prob (Ljung-Box)	0.7535		
Skewness	0.815		
Kurtosis	8.288		
Jarque-Bera	196.5		
Prob (Jarque-Bera)	0.0000		

Commercial Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
1996	1	116,485.148	30,018.052	0.000	87,221.781	-754.685	0.000	0.000	0.000	0.000	0.000
1996	2	106,541.137	26,895.130	0.000	78,591.043	0.000	1,054.964	0.000	0.000	0.000	0.000
1996	3	94,383.476	18,201.664	0.000	77,150.000	0.000	0.000	-968.188	0.000	0.000	0.000
1996	4	89,944.998	12,954.380	370.316	79,597.396	0.000	0.000	0.000	-2,977.095	0.000	0.000
1996	5	85,496.316	2,806.889	3,665.940	78,652.963	0.000	0.000	0.000	0.000	370.524	0.000
1996	6	91,216.943	405.242	8,286.460	82,701.955	0.000	0.000	0.000	0.000	0.000	-176.714
1996	7	99,989.406	0.000	15,669.413	81,745.155	0.000	0.000	0.000	0.000	0.000	0.000
1996	8	96,685.419	0.000	13,702.270	77,834.755	0.000	0.000	0.000	0.000	0.000	0.000
1996	9	99,653.829	0.000	12,406.967	81,355.135	0.000	0.000	0.000	0.000	0.000	0.000
1996	10	85,501.932	870.874	2,241.216	80,166.846	0.000	0.000	0.000	0.000	0.000	0.000
1996	11	85,297.009	7,012.318	313.946	79,518.149	0.000	0.000	0.000	0.000	0.000	0.000
1996	12	106,235.555	19,214.472	81.637	86,939.446	0.000	0.000	0.000	0.000	0.000	0.000
1997	1	110,016.055	21,176.718	43.672	89,550.350	-754.685	0.000	0.000	0.000	0.000	0.000
1997	2	104,825.948	23,050.987	32.507	80,687.491	0.000	1,054.964	0.000	0.000	0.000	0.000
1997	3	90,911.010	12,482.432	136.130	79,260.635	0.000	0.000	-968.188	0.000	0.000	0.000
1997	4	87,724.114	8,255.462	322.144	82,123.602	0.000	0.000	0.000	-2,977.095	0.000	0.000
1997	5	85,628.632	3,755.438	366.442	81,136.229	0.000	0.000	0.000	0.000	370.524	0.000
1997	6	88,578.955	596.035	2,840.258	85,319.376	0.000	0.000	0.000	0.000	0.000	-176.714
1997	7	100,265.833	0.000	13,201.458	84,489.536	0.000	0.000	0.000	0.000	0.000	0.000
1997	8	101,067.884	0.000	15,472.945	80,446.544	0.000	0.000	0.000	0.000	0.000	0.000
1997	9	98,760.104	0.000	8,777.835	84,090.542	0.000	0.000	0.000	0.000	0.000	0.000
1997	10	88,298.960	613.098	2,716.019	82,746.848	0.000	0.000	0.000	0.000	0.000	0.000
1997	11	76,773.356	8,484.779	783.097	82,071.532	0.000	0.000	0.000	0.000	0.000	0.000
1997	12	107,563.109	17,796.446	0.000	89,766.663	0.000	0.000	0.000	0.000	0.000	0.000
1998	1	110,635.988	19,154.893	0.000	92,235.780	-754.685	0.000	0.000	0.000	0.000	0.000
1998	2	102,423.841	18,276.663	0.000	83,092.215	0.000	1,054.964	0.000	0.000	0.000	0.000
1998	3	94,978.840	14,388.018	1.718	81,557.291	0.000	0.000	-968.188	0.000	0.000	0.000
1998	4	92,157.678	8,674.683	2,250.679	84,209.411	0.000	0.000	0.000	-2,977.095	0.000	0.000
1998	5	86,082.410	1,280.961	1,243.956	83,186.969	0.000	0.000	0.000	0.000	370.524	0.000
1998	6	94,832.252	29.844	7,512.443	87,466.680	0.000	0.000	0.000	0.000	0.000	-176.714
1998	7	104,839.190	12.811	15,893.086	86,358.455	0.000	0.000	0.000	0.000	0.000	0.000
1998	8	102,984.851	0.000	15,607.619	82,228.838	0.000	0.000	0.000	0.000	0.000	0.000
1998	9	107,694.222	0.000	15,835.523	85,966.972	0.000	0.000	0.000	0.000	0.000	0.000
1998	10	96,451.541	241.758	9,548.283	84,438.506	0.000	0.000	0.000	0.000	0.000	0.000
1998	11	87,775.761	4,845.845	698.746	83,778.575	0.000	0.000	0.000	0.000	0.000	0.000
1998	12	101,876.124	10,143.453	162.004	91,570.667	0.000	0.000	0.000	0.000	0.000	0.000

Commercial Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
1999	1	119,191.067	25,866.311	70.723	94,008.718	-754.685	0.000	0.000	0.000	0.000	0.000
1999	2	101,969.405	16,244.649	0.000	84,669.792	0.000	1,054.964	0.000	0.000	0.000	0.000
1999	3	101,222.627	19,072.340	0.000	83,118.475	0.000	0.000	-968.188	0.000	0.000	0.000
1999	4	93,399.813	10,187.419	517.405	85,672.085	0.000	0.000	0.000	-2,977.095	0.000	0.000
1999	5	87,908.456	1,214.448	1,732.383	84,591.101	0.000	0.000	0.000	0.000	370.524	0.000
1999	6	97,239.165	0.000	8,473.652	88,942.227	0.000	0.000	0.000	0.000	0.000	-176.714
1999	7	109,569.467	0.000	19,392.240	87,602.389	0.000	0.000	0.000	0.000	0.000	0.000
1999	8	111,456.149	0.000	22,903.823	83,403.931	0.000	0.000	0.000	0.000	0.000	0.000
1999	9	105,267.753	5.072	12,194.844	87,176.111	0.000	0.000	0.000	0.000	0.000	0.000
1999	10	90,618.329	553.734	2,486.482	85,355.117	0.000	0.000	0.000	0.000	0.000	0.000
1999	11	87,767.700	4,577.705	137.897	84,599.502	0.000	0.000	0.000	0.000	0.000	0.000
1999	12	104,739.642	12,235.094	0.000	92,504.548	0.000	0.000	0.000	0.000	0.000	0.000
2000	1	118,324.837	22,284.608	0.000	94,747.209	-754.685	0.000	0.000	0.000	0.000	0.000
2000	2	115,046.413	26,601.213	0.000	85,342.531	0.000	1,054.964	0.000	0.000	0.000	0.000
2000	3	95,109.536	10,154.521	108.051	83,767.446	0.000	0.000	-968.188	0.000	0.000	0.000
2000	4	91,406.010	5,777.200	258.544	86,299.655	0.000	0.000	0.000	-2,977.095	0.000	0.000
2000	5	92,566.492	2,129.599	2,787.495	85,231.168	0.000	0.000	0.000	0.000	370.524	0.000
2000	6	99,651.870	5.111	8,186.210	89,589.557	0.000	0.000	0.000	0.000	0.000	-176.714
2000	7	107,800.117	0.000	14,730.223	88,447.350	0.000	0.000	0.000	0.000	0.000	0.000
2000	8	103,715.203	0.000	12,303.200	84,215.902	0.000	0.000	0.000	0.000	0.000	0.000
2000	9	107,191.213	25.115	11,174.613	88,052.053	0.000	0.000	0.000	0.000	0.000	0.000
2000	10	96,137.797	1,366.225	3,805.750	86,695.122	0.000	0.000	0.000	0.000	0.000	0.000
2000	11	91,676.809	4,649.755	524.254	86,002.499	0.000	0.000	0.000	0.000	0.000	0.000
2000	12	118,510.778	22,461.752	0.000	94,001.320	0.000	0.000	0.000	0.000	0.000	0.000
2001	1	132,060.378	33,841.795	0.000	96,925.563	-754.685	0.000	0.000	0.000	0.000	0.000
2001	2	114,070.757	23,616.016	0.000	87,352.071	0.000	1,054.964	0.000	0.000	0.000	0.000
2001	3	103,093.576	16,233.858	0.000	85,780.201	0.000	0.000	-968.188	0.000	0.000	0.000
2001	4	101,624.252	11,542.311	2,145.930	88,865.402	0.000	0.000	0.000	-2,977.095	0.000	0.000
2001	5	96,679.161	1,747.755	4,726.980	87,786.196	0.000	0.000	0.000	0.000	370.524	0.000
2001	6	99,660.992	108.448	5,339.483	92,342.069	0.000	0.000	0.000	0.000	0.000	-176.714
2001	7	109,306.300	0.000	13,171.845	91,511.911	0.000	0.000	0.000	0.000	0.000	0.000
2001	8	112,581.302	0.000	18,266.235	87,118.966	0.000	0.000	0.000	0.000	0.000	0.000
2001	9	113,875.859	5.094	14,850.805	91,080.529	0.000	0.000	0.000	0.000	0.000	0.000
2001	10	98,606.157	1,042.317	3,580.309	89,712.831	0.000	0.000	0.000	0.000	0.000	0.000
2001	11	95,469.681	4,988.378	1,049.816	88,931.187	0.000	0.000	0.000	0.000	0.000	0.000
2001	12	106,390.887	7,084.592	36.243	97,222.347	0.000	0.000	0.000	0.000	0.000	0.000

Commercial Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2002	1	125,445.465	24,039.747	0.000	100,112.698	-754.685	0.000	0.000	0.000	0.000	0.000
2002	2	111,136.750	17,857.432	0.000	90,176.649	0.000	1,054.964	0.000	0.000	0.000	0.000
2002	3	105,274.095	15,596.626	65.697	88,532.254	0.000	0.000	-968.188	0.000	0.000	0.000
2002	4	100,271.511	8,636.139	1,035.785	91,528.976	0.000	0.000	0.000	-2,977.095	0.000	0.000
2002	5	98,023.476	2,268.904	2,915.052	90,421.291	0.000	0.000	0.000	0.000	370.524	0.000
2002	6	106,405.368	1,373.786	8,051.650	95,108.941	0.000	0.000	0.000	0.000	0.000	-176.714
2002	7	116,885.661	0.000	18,245.945	94,017.173	0.000	0.000	0.000	0.000	0.000	0.000
2002	8	118,782.381	0.000	22,056.922	89,529.359	0.000	0.000	0.000	0.000	0.000	0.000
2002	9	121,889.080	0.000	20,364.983	93,584.665	0.000	0.000	0.000	0.000	0.000	0.000
2002	10	104,871.650	499.220	8,111.846	91,989.884	0.000	0.000	0.000	0.000	0.000	0.000
2002	11	98,670.661	6,090.769	799.656	91,279.935	0.000	0.000	0.000	0.000	0.000	0.000
2002	12	121,830.607	19,893.400	115.172	99,774.330	0.000	0.000	0.000	0.000	0.000	0.000
2003	1	127,816.836	23,887.161	0.000	102,636.654	-754.685	0.000	0.000	0.000	0.000	0.000
2003	2	125,616.446	30,061.931	0.000	92,451.846	0.000	1,054.964	0.000	0.000	0.000	0.000
2003	3	111,755.046	19,915.156	0.000	90,760.372	0.000	0.000	-968.188	0.000	0.000	0.000
2003	4	99,132.911	5,436.233	907.362	93,718.706	0.000	0.000	0.000	-2,977.095	0.000	0.000
2003	5	98,396.744	1,161.370	2,233.339	92,583.806	0.000	0.000	0.000	0.000	370.524	0.000
2003	6	102,443.624	0.000	3,193.925	97,378.707	0.000	0.000	0.000	0.000	0.000	-176.714
2003	7	114,998.585	0.000	13,390.556	96,985.486	0.000	0.000	0.000	0.000	0.000	0.000
2003	8	113,330.273	0.000	15,009.428	91,124.745	0.000	0.000	0.000	0.000	0.000	0.000
2003	9	118,182.509	0.000	14,989.947	95,253.130	0.000	0.000	0.000	0.000	0.000	0.000
2003	10	102,274.018	1,381.453	2,168.014	94,453.851	0.000	0.000	0.000	0.000	0.000	0.000
2003	11	97,380.681	3,749.556	501.608	92,629.217	0.000	0.000	0.000	0.000	0.000	0.000
2003	12	117,952.941	14,403.034	62.423	101,439.778	0.000	0.000	0.000	0.000	0.000	0.000
2004	1	129,682.770	23,586.265	51.419	104,752.064	-754.685	0.000	0.000	0.000	0.000	0.000
2004	2	123,647.027	27,100.180	15.287	93,428.891	0.000	1,054.964	0.000	0.000	0.000	0.000
2004	3	109,315.897	15,584.560	136.238	92,515.581	0.000	0.000	-968.188	0.000	0.000	0.000
2004	4	106,023.096	9,042.503	792.542	97,117.440	0.000	0.000	0.000	-2,977.095	0.000	0.000
2004	5	102,929.223	2,166.362	4,264.049	94,080.583	0.000	0.000	0.000	0.000	370.524	0.000
2004	6	113,393.541	158.058	12,316.861	99,047.630	0.000	0.000	0.000	0.000	0.000	-176.714
2004	7	117,400.032	0.000	15,466.473	97,311.015	0.000	0.000	0.000	0.000	0.000	0.000
2004	8	115,244.222	0.000	14,651.408	93,396.715	0.000	0.000	0.000	0.000	0.000	0.000
2004	9	116,477.036	0.000	13,123.701	95,413.902	0.000	0.000	0.000	0.000	0.000	0.000
2004	10	104,407.570	374.148	3,918.598	95,844.123	0.000	0.000	0.000	0.000	0.000	0.000
2004	11	96,859.137	2,346.498	760.993	93,251.345	0.000	0.000	0.000	0.000	0.000	0.000
2004	12	118,032.016	12,049.398	123.148	103,811.764	0.000	0.000	0.000	0.000	0.000	0.000

Commercial Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2005	1	129,991.611	20,288.248	0.000	104,902.471	-754.685	0.000	0.000	0.000	0.000	0.000
2005	2	123,842.205	22,086.977	0.000	95,144.687	0.000	1,054.964	0.000	0.000	0.000	0.000
2005	3	117,837.699	18,726.732	0.000	94,523.578	0.000	0.000	-968.188	0.000	0.000	0.000
2005	4	109,809.353	9,011.432	356.151	97,863.289	0.000	0.000	0.000	-2,977.095	0.000	0.000
2005	5	103,367.636	2,492.520	1,255.327	93,693.688	0.000	0.000	0.000	0.000	370.524	0.000
2005	6	113,553.428	362.591	7,819.756	99,992.219	0.000	0.000	0.000	0.000	0.000	-176.714
2005	7	127,508.297	0.000	21,742.176	97,635.707	0.000	0.000	0.000	0.000	0.000	0.000
2005	8	131,911.465	0.000	26,817.002	94,390.491	0.000	0.000	0.000	0.000	0.000	0.000
2005	9	130,711.475	0.000	21,033.806	98,230.366	0.000	0.000	0.000	0.000	0.000	0.000
2005	10	111,778.812	213.874	9,316.271	94,470.095	0.000	0.000	0.000	0.000	0.000	0.000
2005	11	106,492.650	5,500.283	598.666	96,385.529	0.000	0.000	0.000	0.000	0.000	0.000
2005	12	128,784.598	19,979.154	94.377	103,155.489	0.000	0.000	0.000	0.000	0.000	0.000
2006	1	131,530.270	20,105.135	0.000	106,624.243	-754.685	0.000	0.000	0.000	0.000	0.000
2006	2	118,279.394	15,439.447	0.000	96,229.406	0.000	1,054.964	0.000	0.000	0.000	0.000
2006	3	113,879.829	16,789.329	77.974	92,425.136	0.000	0.000	-968.188	0.000	0.000	0.000
2006	4	105,330.564	8,780.528	945.510	93,026.044	0.000	0.000	0.000	-2,977.095	0.000	0.000
2006	5	104,771.818	744.939	1,647.787	96,452.992	0.000	0.000	0.000	0.000	370.524	0.000
2006	6	111,498.396	148.589	6,434.003	99,536.942	0.000	0.000	0.000	0.000	0.000	-176.714
2006	7	122,321.234	0.000	15,725.007	98,465.812	0.000	0.000	0.000	0.000	0.000	0.000
2006	8	126,579.665	0.000	23,304.588	92,571.105	0.000	0.000	0.000	0.000	0.000	0.000
2006	9	126,468.036	35.111	15,865.361	99,120.260	0.000	0.000	0.000	0.000	0.000	0.000
2006	10	106,704.006	1,400.197	2,152.331	95,372.906	0.000	0.000	0.000	0.000	0.000	0.000
2006	11	106,922.186	7,689.481	148.008	95,076.524	0.000	0.000	0.000	0.000	0.000	0.000
2006	12	120,717.409	13,007.530	165.938	101,988.364	0.000	0.000	0.000	0.000	0.000	0.000
2007	1	125,957.043	14,278.719	19.091	106,858.341	-754.685	0.000	0.000	0.000	0.000	0.000
2007	2	127,237.402	25,556.321	0.000	95,070.540	0.000	1,054.964	0.000	0.000	0.000	0.000
2007	3	120,255.578	21,366.754	128.986	94,172.448	0.000	0.000	-968.188	0.000	0.000	0.000
2007	4	112,140.687	7,838.650	1,783.484	99,940.071	0.000	0.000	0.000	-2,977.095	0.000	0.000
2007	5	109,230.374	2,880.737	3,015.437	97,408.099	0.000	0.000	0.000	0.000	370.524	0.000
2007	6	114,940.959	120.008	10,796.319	98,645.770	0.000	0.000	0.000	0.000	0.000	-176.714
2007	7	123,436.433	0.000	17,423.874	97,882.144	0.000	0.000	0.000	0.000	0.000	0.000
2007	8	125,951.425	0.000	19,898.201	95,349.252	0.000	0.000	0.000	0.000	0.000	0.000
2007	9	134,118.578	0.000	22,717.783	98,701.856	0.000	0.000	0.000	0.000	0.000	0.000
2007	10	116,042.763	240.050	10,315.514	96,456.992	0.000	0.000	0.000	0.000	0.000	0.000
2007	11	109,642.115	4,755.068	1,774.401	97,852.839	0.000	0.000	0.000	0.000	0.000	0.000
2007	12	125,663.680	14,438.785	0.000	104,417.682	0.000	0.000	0.000	0.000	0.000	0.000

Commercial Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2008	1	134,777.931	19,900.315	0.000	108,825.089	-754.685	0.000	0.000	0.000	0.000	0.000
2008	2	125,978.914	21,552.606	0.000	96,564.133	0.000	1,054.964	0.000	0.000	0.000	0.000
2008	3	121,212.615	18,490.240	0.000	96,883.350	0.000	0.000	-968.188	0.000	0.000	0.000
2008	4	112,218.555	8,577.629	85.819	99,724.989	0.000	0.000	0.000	-2,977.095	0.000	0.000
2008	5	106,439.237	1,840.230	1,080.618	96,340.653	0.000	0.000	0.000	0.000	370.524	0.000
2008	6	114,482.780	132.278	6,734.115	100,985.889	0.000	0.000	0.000	0.000	0.000	-176.714
2008	7	122,690.839	0.000	13,819.327	99,489.461	0.000	0.000	0.000	0.000	0.000	0.000
2008	8	126,097.368	0.000	16,431.161	97,710.600	0.000	0.000	0.000	0.000	0.000	0.000
2008	9	127,688.962	0.000	15,519.049	99,470.975	0.000	0.000	0.000	0.000	0.000	0.000
2008	10	111,325.870	305.041	5,839.999	96,150.623	0.000	0.000	0.000	0.000	0.000	0.000
2008	11	107,492.662	5,029.352	700.518	96,502.984	0.000	0.000	0.000	0.000	0.000	0.000
2008	12	126,509.042	14,199.837	109.729	105,392.263	0.000	0.000	0.000	0.000	0.000	0.000
2009	1	136,172.550	22,567.362	23.580	107,529.082	-754.685	0.000	0.000	0.000	0.000	0.000
2009	2	126,884.135	22,206.992	2.638	96,812.329	0.000	1,054.964	0.000	0.000	0.000	0.000
2009	3	116,738.695	15,881.494	70.716	94,947.460	0.000	0.000	-968.188	0.000	0.000	0.000
2009	4	110,415.472	8,214.931	734.660	97,635.764	0.000	0.000	0.000	-2,977.095	0.000	0.000
2009	5	108,101.464	2,060.002	2,443.860	96,419.866	0.000	0.000	0.000	0.000	370.524	0.000
2009	6	116,124.154	232.362	7,912.927	101,348.366	0.000	0.000	0.000	0.000	0.000	-176.714
2009	7	125,735.588	1.178	16,583.186	99,769.173	0.000	0.000	0.000	0.000	0.000	0.000
2009	8	126,024.729	0.000	19,157.342	94,911.780	0.000	0.000	0.000	0.000	0.000	0.000
2009	9	127,545.352	8.860	15,670.106	99,167.446	0.000	0.000	0.000	0.000	0.000	0.000
2009	10	112,011.970	813.085	4,990.170	97,178.508	0.000	0.000	0.000	0.000	0.000	0.000
2009	11	107,249.651	4,934.438	696.079	96,359.326	0.000	0.000	0.000	0.000	0.000	0.000
2009	12	126,145.805	13,939.139	109.091	105,290.363	0.000	0.000	0.000	0.000	0.000	0.000
2010	1	136,796.934	22,519.997	23.307	108,201.104	-754.685	0.000	0.000	0.000	0.000	0.000
2010	2	127,519.287	22,174.606	2.609	97,479.896	0.000	1,054.964	0.000	0.000	0.000	0.000
2010	3	117,491.304	15,875.656	70.019	95,706.604	0.000	0.000	-968.188	0.000	0.000	0.000
2010	4	111,629.039	8,245.812	730.421	98,822.689	0.000	0.000	0.000	-2,977.095	0.000	0.000
2010	5	109,281.914	2,068.043	2,430.108	97,606.026	0.000	0.000	0.000	0.000	370.524	0.000
2010	6	117,336.320	233.288	7,869.039	102,603.495	0.000	0.000	0.000	0.000	0.000	-176.714
2010	7	127,179.871	1.186	16,533.412	101,263.223	0.000	0.000	0.000	0.000	0.000	0.000
2010	8	127,437.034	0.000	19,107.865	96,373.562	0.000	0.000	0.000	0.000	0.000	0.000
2010	9	129,070.309	8.925	15,634.747	100,727.698	0.000	0.000	0.000	0.000	0.000	0.000
2010	10	113,671.973	820.094	4,985.406	98,836.266	0.000	0.000	0.000	0.000	0.000	0.000
2010	11	108,938.475	4,977.129	695.436	98,006.103	0.000	0.000	0.000	0.000	0.000	0.000
2010	12	128,119.694	14,065.993	109.038	107,137.450	0.000	0.000	0.000	0.000	0.000	0.000

Commercial Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2011	1	139,114.471	22,684.587	23.464	110,353.894	-754.685	0.000	0.000	0.000	0.000	0.000
2011	2	129,617.356	22,336.030	2.627	99,416.523	0.000	1,054.964	0.000	0.000	0.000	0.000
2011	3	119,503.520	15,990.492	70.486	97,603.518	0.000	0.000	-968.188	0.000	0.000	0.000
2011	4	113,558.770	8,298.390	734.660	100,695.602	0.000	0.000	0.000	-2,977.095	0.000	0.000
2011	5	111,169.889	2,081.446	2,444.468	99,466.238	0.000	0.000	0.000	0.000	370.524	0.000
2011	6	119,381.635	234.888	7,918.479	104,597.771	0.000	0.000	0.000	0.000	0.000	-176.714
2011	7	129,206.551	1.193	16,630.982	103,192.325	0.000	0.000	0.000	0.000	0.000	0.000
2011	8	129,434.753	0.000	19,228.649	98,250.497	0.000	0.000	0.000	0.000	0.000	0.000
2011	9	131,135.849	8.987	15,734.230	102,693.694	0.000	0.000	0.000	0.000	0.000	0.000
2011	10	115,629.896	825.715	5,016.725	100,757.249	0.000	0.000	0.000	0.000	0.000	0.000
2011	11	110,896.670	5,011.948	699.903	99,925.011	0.000	0.000	0.000	0.000	0.000	0.000
2011	12	130,335.949	14,166.628	109.756	109,252.353	0.000	0.000	0.000	0.000	0.000	0.000
2012	1	141,344.985	22,892.967	23.677	112,375.814	-754.685	0.000	0.000	0.000	0.000	0.000
2012	2	131,640.972	22,540.643	2.650	101,235.503	0.000	1,054.964	0.000	0.000	0.000	0.000
2012	3	121,433.455	16,136.557	71.123	99,386.750	0.000	0.000	-968.188	0.000	0.000	0.000
2012	4	115,385.990	8,367.070	740.677	102,448.126	0.000	0.000	0.000	-2,977.095	0.000	0.000
2012	5	112,939.157	2,098.691	2,464.507	101,198.223	0.000	0.000	0.000	0.000	370.524	0.000
2012	6	121,270.926	236.836	7,983.468	106,420.125	0.000	0.000	0.000	0.000	0.000	-176.714
2012	7	131,089.104	1.203	16,760.341	104,945.510	0.000	0.000	0.000	0.000	0.000	0.000
2012	8	131,259.913	0.000	19,379.248	99,925.058	0.000	0.000	0.000	0.000	0.000	0.000
2012	9	133,015.222	9.059	15,858.222	104,449.003	0.000	0.000	0.000	0.000	0.000	0.000
2012	10	117,395.830	832.276	5,056.148	102,477.200	0.000	0.000	0.000	0.000	0.000	0.000
2012	11	112,653.376	5,052.034	705.440	101,636.094	0.000	0.000	0.000	0.000	0.000	0.000
2012	12	132,328.314	14,280.777	110.631	111,129.694	0.000	0.000	0.000	0.000	0.000	0.000
2013	1	143,645.985	23,110.649	23.907	114,458.902	-754.685	0.000	0.000	0.000	0.000	0.000
2013	2	133,685.411	22,746.568	2.675	103,073.991	0.000	1,054.964	0.000	0.000	0.000	0.000
2013	3	123,341.806	16,277.792	71.759	101,153.231	0.000	0.000	-968.188	0.000	0.000	0.000
2013	4	117,271.736	8,439.186	747.201	104,255.231	0.000	0.000	0.000	-2,977.095	0.000	0.000
2013	5	114,724.476	2,116.001	2,485.304	102,945.435	0.000	0.000	0.000	0.000	370.524	0.000
2013	6	123,129.568	238.691	8,047.516	108,212.863	0.000	0.000	0.000	0.000	0.000	-176.714
2013	7	132,960.890	1.212	16,890.624	106,687.004	0.000	0.000	0.000	0.000	0.000	0.000
2013	8	133,021.729	0.000	19,522.308	101,543.814	0.000	0.000	0.000	0.000	0.000	0.000
2013	9	134,781.833	9.121	15,969.722	106,104.052	0.000	0.000	0.000	0.000	0.000	0.000
2013	10	119,018.242	837.645	5,089.724	104,060.666	0.000	0.000	0.000	0.000	0.000	0.000
2013	11	114,222.422	5,082.821	709.873	103,169.922	0.000	0.000	0.000	0.000	0.000	0.000
2013	12	134,042.590	14,362.096	111.282	112,762.001	0.000	0.000	0.000	0.000	0.000	0.000

Commercial Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2014	1	145,763.482	23,268.960	24,078	116,417.918	-754.685	0.000	0.000	0.000	0.000	0.000
2014	2	135,607.407	22,902.744	2,694	104,839.793	0.000	1,054.964	0.000	0.000	0.000	0.000
2014	3	125,188.896	16,389.817	72,274	102,887.781	0.000	0.000	-968.188	0.000	0.000	0.000
2014	4	119,110.929	8,496.382	752,482	106,031.948	0.000	0.000	0.000	-2,977.095	0.000	0.000
2014	5	116,512.114	2,130.369	2,502.898	104,701.112	0.000	0.000	0.000	0.000	370.524	0.000
2014	6	125,035.292	240.315	8,104.598	110,059.881	0.000	0.000	0.000	0.000	0.000	-176.714
2014	7	134,883.843	1,220	17,008.013	108,492.560	0.000	0.000	0.000	0.000	0.000	0.000
2014	8	134,876.964	0.000	19,658.154	103,263.203	0.000	0.000	0.000	0.000	0.000	0.000
2014	9	136,690.567	9,181	16,080.969	107,901.478	0.000	0.000	0.000	0.000	0.000	0.000
2014	10	120,805.105	843.109	5,124.401	105,807.388	0.000	0.000	0.000	0.000	0.000	0.000
2014	11	115,992.345	5,115.986	714.710	104,901.841	0.000	0.000	0.000	0.000	0.000	0.000
2014	12	136,030.210	14,455.832	112,040	114,655.126	0.000	0.000	0.000	0.000	0.000	0.000
2015	1	147,875.834	23,370.768	24,134	118,428.405	-754.685	0.000	0.000	0.000	0.000	0.000
2015	2	137,511.552	23,001.778	2,700	106,644.897	0.000	1,054.964	0.000	0.000	0.000	0.000
2015	3	127,025.097	16,459.828	72,435	104,653.809	0.000	0.000	-968.188	0.000	0.000	0.000
2015	4	120,955.543	8,531.703	754,073	107,839.650	0.000	0.000	0.000	-2,977.095	0.000	0.000
2015	5	118,305.240	2,139.109	2,508.055	106,480.340	0.000	0.000	0.000	0.000	370.524	0.000
2015	6	126,915.960	241.286	8,120.805	111,923.371	0.000	0.000	0.000	0.000	0.000	-176.714
2015	7	136,749.980	1,225	17,041.379	110,325.326	0.000	0.000	0.000	0.000	0.000	0.000
2015	8	136,652.204	0.000	19,695.494	105,001.103	0.000	0.000	0.000	0.000	0.000	0.000
2015	9	138,530.104	9,217	16,110.618	109,711.331	0.000	0.000	0.000	0.000	0.000	0.000
2015	10	122,597.929	846.425	5,134.092	107,587.206	0.000	0.000	0.000	0.000	0.000	0.000
2015	11	117,771.736	5,135.802	716.019	106,660.107	0.000	0.000	0.000	0.000	0.000	0.000
2015	12	137,999.479	14,510.864	112,238	116,569.165	0.000	0.000	0.000	0.000	0.000	0.000
2016	1	149,925.568	23,434.626	24,144	120,414.271	-754.685	0.000	0.000	0.000	0.000	0.000
2016	2	139,360.324	23,064.215	2,702	108,431.232	0.000	1,054.964	0.000	0.000	0.000	0.000
2016	3	128,820.534	16,504.205	72,463	106,404.841	0.000	0.000	-968.188	0.000	0.000	0.000
2016	4	122,804.441	8,556.234	754,502	109,663.587	0.000	0.000	0.000	-2,977.095	0.000	0.000
2016	5	120,111.332	2,145.213	2,509.427	108,278.956	0.000	0.000	0.000	0.000	370.524	0.000
2016	6	128,808.706	241.969	8,125.052	113,811.188	0.000	0.000	0.000	0.000	0.000	-176.714
2016	7	138,639.030	1,229	17,052.833	112,202.918	0.000	0.000	0.000	0.000	0.000	0.000
2016	8	138,449.182	0.000	19,708.228	106,785.347	0.000	0.000	0.000	0.000	0.000	0.000
2016	9	140,401.904	9,244	16,120.664	111,573.057	0.000	0.000	0.000	0.000	0.000	0.000
2016	10	124,441.238	848.993	5,137.825	109,424.213	0.000	0.000	0.000	0.000	0.000	0.000
2016	11	119,606.247	5,151.260	716.523	108,478.657	0.000	0.000	0.000	0.000	0.000	0.000
2016	12	140,027.136	14,554.148	112,314	118,553.462	0.000	0.000	0.000	0.000	0.000	0.000

Commercial Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2017	1	151,844.315	23,467.734	24,121	122,299.933	-754.685	0.000	0.000	0.000	0.000	0.000
2017	2	141,087.449	23,096.198	2,699	110,126.376	0.000	1,054.964	0.000	0.000	0.000	0.000
2017	3	130,503.489	16,526.651	72,390	108,065.424	0.000	0.000	-968.188	0.000	0.000	0.000
2017	4	124,520.991	8,567.462	753,701	111,369.711	0.000	0.000	0.000	-2,977.095	0.000	0.000
2017	5	121,792.921	2,147.969	2,506.693	109,960.522	0.000	0.000	0.000	0.000	370.524	0.000
2017	6	130,563.848	242.272	8,115.951	115,575.127	0.000	0.000	0.000	0.000	0.000	-176.714
2017	7	140,340.649	1.230	17,031.353	113,926.016	0.000	0.000	0.000	0.000	0.000	0.000
2017	8	140,060.474	0.000	19,682.822	108,422.045	0.000	0.000	0.000	0.000	0.000	0.000
2017	9	142,087.791	9.254	16,099.457	113,280.142	0.000	0.000	0.000	0.000	0.000	0.000
2017	10	126,084.015	849.706	5,129.946	111,074.156	0.000	0.000	0.000	0.000	0.000	0.000
2017	11	121,241.987	5,155.444	715.404	110,111.331	0.000	0.000	0.000	0.000	0.000	0.000
2017	12	141,818.975	14,565.525	112,135	120,334.103	0.000	0.000	0.000	0.000	0.000	0.000
2018	1	153,553.046	23,454.903	24,004	124,021.612	-754.685	0.000	0.000	0.000	0.000	0.000
2018	2	142,621.258	23,082.910	2,686	111,673.486	0.000	1,054.964	0.000	0.000	0.000	0.000
2018	3	132,008.089	16,516.658	72,035	109,580.371	0.000	0.000	-968.188	0.000	0.000	0.000
2018	4	126,048.943	8,560.569	749.861	112,908.396	0.000	0.000	0.000	-2,977.095	0.000	0.000
2018	5	123,294.294	2,146.179	2,493.852	111,476.526	0.000	0.000	0.000	0.000	370.524	0.000
2018	6	132,111.443	242.063	8,074.116	117,164.767	0.000	0.000	0.000	0.000	0.000	-176.714
2018	7	141,803.553	1,229	16,941.481	115,478.793	0.000	0.000	0.000	0.000	0.000	0.000
2018	8	141,430.361	0.000	19,578.352	109,896.402	0.000	0.000	0.000	0.000	0.000	0.000
2018	9	143,539.127	9.244	16,013.564	114,817.380	0.000	0.000	0.000	0.000	0.000	0.000
2018	10	127,559.245	848.789	5,102.412	112,577.836	0.000	0.000	0.000	0.000	0.000	0.000
2018	11	122,719.945	5,149.738	711.545	111,598.855	0.000	0.000	0.000	0.000	0.000	0.000
2018	12	143,423.619	14,548.950	111.527	121,955.929	0.000	0.000	0.000	0.000	0.000	0.000
2019	1	155,173.394	23,470.073	23,923	125,626.871	-754.685	0.000	0.000	0.000	0.000	0.000
2019	2	144,077.598	23,097.159	2,677	113,115.586	0.000	1,054.964	0.000	0.000	0.000	0.000
2019	3	133,429.259	16,526.356	71,787	110,992.092	0.000	0.000	-968.188	0.000	0.000	0.000
2019	4	127,510.728	8,565.924	747.299	114,367.388	0.000	0.000	0.000	-2,977.095	0.000	0.000
2019	5	124,724.212	2,147.460	2,485.259	112,913.758	0.000	0.000	0.000	0.000	370.524	0.000
2019	6	133,590.242	242.199	8,046.033	118,671.511	0.000	0.000	0.000	0.000	0.000	-176.714
2019	7	143,230.750	1,229	16,882.690	116,964.781	0.000	0.000	0.000	0.000	0.000	0.000
2019	8	142,772.611	0.000	19,509.819	111,307.185	0.000	0.000	0.000	0.000	0.000	0.000
2019	9	144,953.453	9.249	15,957.077	116,288.188	0.000	0.000	0.000	0.000	0.000	0.000
2019	10	128,980.266	849.201	5,084.264	114,016.594	0.000	0.000	0.000	0.000	0.000	0.000
2019	11	124,142.882	5,152.096	708.994	113,021.984	0.000	0.000	0.000	0.000	0.000	0.000
2019	12	144,980.844	14,555.166	111.124	123,507.342	0.000	0.000	0.000	0.000	0.000	0.000

Commercial Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2020	1	156,742.381	23,517.771	23.835	127,148.247	-754.685	0.000	0.000	0.000	0.000	0.000
2020	2	145,495.866	23,144.347	2.667	114,486.676	0.000	1,054.964	0.000	0.000	0.000	0.000
2020	3	134,809.530	16,560.301	71.527	112,338.678	0.000	0.000	-968.188	0.000	0.000	0.000
2020	4	128,914.484	8,583.611	744.601	115,756.155	0.000	0.000	0.000	-2,977.095	0.000	0.000
2020	5	126,092.035	2,151.916	2,476.312	114,286.071	0.000	0.000	0.000	0.000	370.524	0.000
2020	6	135,005.572	242.705	8,017.162	120,115.208	0.000	0.000	0.000	0.000	0.000	-176.714
2020	7	144,596.705	1.232	16,822.558	118,390.865	0.000	0.000	0.000	0.000	0.000	0.000
2020	8	144,061.660	0.000	19,440.541	112,665.512	0.000	0.000	0.000	0.000	0.000	0.000
2020	9	146,317.220	9.269	15,900.569	117,708.443	0.000	0.000	0.000	0.000	0.000	0.000
2020	10	130,362.874	851.058	5,066.522	115,415.087	0.000	0.000	0.000	0.000	0.000	0.000
2020	11	125,539.153	5,163.410	706.527	114,409.408	0.000	0.000	0.000	0.000	0.000	0.000
2020	12	146,530.095	14,587.290	110.738	125,024.855	0.000	0.000	0.000	0.000	0.000	0.000
2021	1	158,426.642	23,595.881	23.804	128,754.429	-754.685	0.000	0.000	0.000	0.000	0.000
2021	2	147,028.365	23,222.785	2.664	115,940.740	0.000	1,054.964	0.000	0.000	0.000	0.000
2021	3	136,301.368	16,617.575	71.442	113,773.327	0.000	0.000	-968.188	0.000	0.000	0.000
2021	4	130,432.405	8,614.033	743.786	117,244.470	0.000	0.000	0.000	-2,977.095	0.000	0.000
2021	5	127,574.616	2,159.691	2,473.769	115,763.419	0.000	0.000	0.000	0.000	370.524	0.000
2021	6	136,560.868	243.600	8,009.544	121,677.225	0.000	0.000	0.000	0.000	0.000	-176.714
2021	7	146,129.924	1.237	16,807.754	119,938.883	0.000	0.000	0.000	0.000	0.000	0.000
2021	8	145,527.557	0.000	19,424.866	114,147.085	0.000	0.000	0.000	0.000	0.000	0.000
2021	9	147,861.235	9.305	15,888.795	119,264.196	0.000	0.000	0.000	0.000	0.000	0.000
2021	10	131,891.882	854.405	5,062.935	116,944.335	0.000	0.000	0.000	0.000	0.000	0.000
2021	11	127,083.138	5,184.070	706.075	115,933.185	0.000	0.000	0.000	0.000	0.000	0.000
2021	12	148,264.226	14,646.763	110.676	126,699.575	0.000	0.000	0.000	0.000	0.000	0.000
2022	1	160,161.620	23,690.330	23.782	130,394.981	-754.685	0.000	0.000	0.000	0.000	0.000
2022	2	148,606.686	23,317.080	2.661	117,424.769	0.000	1,054.964	0.000	0.000	0.000	0.000
2022	3	137,832.840	16,686.032	71.384	115,236.400	0.000	0.000	-968.188	0.000	0.000	0.000
2022	4	131,971.186	8,649.262	743.154	118,748.653	0.000	0.000	0.000	-2,977.095	0.000	0.000
2022	5	129,073.627	2,168.650	2,471.812	117,255.428	0.000	0.000	0.000	0.000	370.524	0.000
2022	6	138,132.334	244.627	8,003.729	123,253.481	0.000	0.000	0.000	0.000	0.000	-176.714
2022	7	147,669.232	1.242	16,795.280	121,490.659	0.000	0.000	0.000	0.000	0.000	0.000
2022	8	146,998.448	0.000	19,411.667	115,631.175	0.000	0.000	0.000	0.000	0.000	0.000
2022	9	149,408.769	9.345	15,878.890	120,821.595	0.000	0.000	0.000	0.000	0.000	0.000
2022	10	133,419.022	858.090	5,059.759	118,470.967	0.000	0.000	0.000	0.000	0.000	0.000
2022	11	128,625.587	5,206.728	705.672	117,453.380	0.000	0.000	0.000	0.000	0.000	0.000
2022	12	149,998.739	14,711.721	110.620	128,369.186	0.000	0.000	0.000	0.000	0.000	0.000

Commercial Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2023	1	161,923.910	23,760.282	23.785	132,087.316	-754.685	0.000	0.000	0.000	0.000	0.000
2023	2	150,202.754	23,386.458	2.662	118,951.458	0.000	1,054.964	0.000	0.000	0.000	0.000
2023	3	139,383.831	16,736.068	71.396	116,737.343	0.000	0.000	-968.188	0.000	0.000	0.000
2023	4	133,541.063	8,675.006	743.264	120,292.676	0.000	0.000	0.000	-2,977.095	0.000	0.000
2023	5	130,607.905	2,175.155	2,472.236	118,782.777	0.000	0.000	0.000	0.000	370.524	0.000
2023	6	139,743.356	245.367	8,005.309	124,862.182	0.000	0.000	0.000	0.000	0.000	-176.714
2023	7	149,257.949	1.246	16,798.560	123,076.094	0.000	0.000	0.000	0.000	0.000	0.000
2023	8	148,514.617	0.000	19,415.942	117,143.068	0.000	0.000	0.000	0.000	0.000	0.000
2023	9	150,995.146	9.374	15,882.742	122,404.091	0.000	0.000	0.000	0.000	0.000	0.000
2023	10	134,976.097	860.735	5,061.046	120,024.108	0.000	0.000	0.000	0.000	0.000	0.000
2023	11	130,184.491	5,222.899	705.868	118,995.916	0.000	0.000	0.000	0.000	0.000	0.000
2023	12	151,734.075	14,757.793	110.653	130,058.417	0.000	0.000	0.000	0.000	0.000	0.000
2024	1	163,691.679	23,826.591	23.879	133,788.682	-754.685	0.000	0.000	0.000	0.000	0.000
2024	2	151,795.166	23,450.904	2.672	120,479.413	0.000	1,054.964	0.000	0.000	0.000	0.000
2024	3	140,924.903	16,781.586	71.675	118,232.618	0.000	0.000	-968.188	0.000	0.000	0.000
2024	4	135,102.860	8,698.234	746.138	121,828.370	0.000	0.000	0.000	-2,977.095	0.000	0.000
2024	5	132,135.240	2,180.901	2,481.706	120,294.896	0.000	0.000	0.000	0.000	370.524	0.000
2024	6	141,358.790	246.005	8,035.651	126,446.636	0.000	0.000	0.000	0.000	0.000	-176.714
2024	7	150,873.578	1.249	16,861.059	124,629.220	0.000	0.000	0.000	0.000	0.000	0.000
2024	8	150,059.733	0.000	19,487.420	118,616.706	0.000	0.000	0.000	0.000	0.000	0.000
2024	9	152,588.584	9.397	15,940.658	123,939.590	0.000	0.000	0.000	0.000	0.000	0.000
2024	10	136,491.677	862.779	5,079.078	121,519.614	0.000	0.000	0.000	0.000	0.000	0.000
2024	11	131,677.532	5,235.111	708.358	120,474.256	0.000	0.000	0.000	0.000	0.000	0.000
2024	12	153,378.837	14,791.702	111.039	131,668.883	0.000	0.000	0.000	0.000	0.000	0.000
2025	1	165,388.438	23,891.689	23.954	135,420.269	-754.685	0.000	0.000	0.000	0.000	0.000
2025	2	153,323.246	23,514.123	2.680	121,944.267	0.000	1,054.964	0.000	0.000	0.000	0.000
2025	3	142,402.820	16,826.199	71.893	119,665.704	0.000	0.000	-968.188	0.000	0.000	0.000
2025	4	136,592.384	8,720.535	748.337	123,293.395	0.000	0.000	0.000	-2,977.095	0.000	0.000
2025	5	133,590.055	2,186.412	2,488.927	121,736.979	0.000	0.000	0.000	0.000	370.524	0.000
2025	6	142,892.990	246.617	8,058.700	127,957.176	0.000	0.000	0.000	0.000	0.000	-176.714
2025	7	152,397.665	1.252	16,907.872	126,106.491	0.000	0.000	0.000	0.000	0.000	0.000
2025	8	151,514.300	0.000	19,540.749	120,017.945	0.000	0.000	0.000	0.000	0.000	0.000
2025	9	154,091.324	9.419	15,983.713	125,399.254	0.000	0.000	0.000	0.000	0.000	0.000
2025	10	137,927.098	864.702	5,092.343	122,939.846	0.000	0.000	0.000	0.000	0.000	0.000
2025	11	133,094.406	5,246.588	710.182	121,877.829	0.000	0.000	0.000	0.000	0.000	0.000
2025	12	154,939.529	14,823.529	111.320	133,197.467	0.000	0.000	0.000	0.000	0.000	0.000

Commercial Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2026	1	166,987.478	23,964.643	24,042	136,946.266	-754.685	0.000	0.000	0.000	0.000	0.000
2026	2	154,765.206	23,585.283	2,690	123,315.057	0.000	1,054.964	0.000	0.000	0.000	0.000
2026	3	143,795.340	16,876.650	72,155	121,007.511	0.000	0.000	-968.188	0.000	0.000	0.000
2026	4	137,995.675	8,746.157	751.016	124,668.386	0.000	0.000	0.000	-2,977.095	0.000	0.000
2026	5	134,959.513	2,192.776	2,497.770	123,091.232	0.000	0.000	0.000	0.000	370.524	0.000
2026	6	144,341.560	247.327	8,087.082	129,376.653	0.000	0.000	0.000	0.000	0.000	-176.714
2026	7	153,847.470	1,255	16,966.399	127,497.765	0.000	0.000	0.000	0.000	0.000	0.000
2026	8	152,901.875	0.000	19,607.810	121,338.458	0.000	0.000	0.000	0.000	0.000	0.000
2026	9	155,522.147	9,445	16,038.142	126,775.621	0.000	0.000	0.000	0.000	0.000	0.000
2026	10	139,289.031	867.044	5,109.403	124,282.378	0.000	0.000	0.000	0.000	0.000	0.000
2026	11	134,438.430	5,260.654	712.542	123,205.427	0.000	0.000	0.000	0.000	0.000	0.000
2026	12	156,426.026	14,862.821	111.687	134,644.306	0.000	0.000	0.000	0.000	0.000	0.000
2027	1	168,527.577	24,043.383	24,121	138,407.546	-754.685	0.000	0.000	0.000	0.000	0.000
2027	2	156,156.846	23,662.507	2,699	124,629.464	0.000	1,054.964	0.000	0.000	0.000	0.000
2027	3	145,139.017	16,931.711	72,388	122,295.894	0.000	0.000	-968.188	0.000	0.000	0.000
2027	4	139,351.365	8,774.520	753.433	125,993.294	0.000	0.000	0.000	-2,977.095	0.000	0.000
2027	5	136,281.309	2,199.861	2,505.781	124,397.931	0.000	0.000	0.000	0.000	370.524	0.000
2027	6	145,739.908	248.123	8,112.913	130,748.375	0.000	0.000	0.000	0.000	0.000	-176.714
2027	7	155,251.451	1,259	17,020.357	128,847.785	0.000	0.000	0.000	0.000	0.000	0.000
2027	8	154,247.276	0.000	19,669.925	122,621.744	0.000	0.000	0.000	0.000	0.000	0.000
2027	9	156,912.180	9,475	16,088.771	128,114.995	0.000	0.000	0.000	0.000	0.000	0.000
2027	10	140,619.626	869.793	5,125.480	125,594.145	0.000	0.000	0.000	0.000	0.000	0.000
2027	11	135,756.271	5,277.274	714.776	124,504.413	0.000	0.000	0.000	0.000	0.000	0.000
2027	12	157,891.010	14,909.589	112.036	136,062.173	0.000	0.000	0.000	0.000	0.000	0.000
2028	1	170,013.773	24,109.476	24,160	139,827.610	-754.685	0.000	0.000	0.000	0.000	0.000
2028	2	157,503.533	23,728.018	2,703	125,910.636	0.000	1,054.964	0.000	0.000	0.000	0.000
2028	3	146,446.022	16,978.928	72,510	123,555.560	0.000	0.000	-968.188	0.000	0.000	0.000
2028	4	140,677.350	8,799.151	754.710	127,293.373	0.000	0.000	0.000	-2,977.095	0.000	0.000
2028	5	137,577.937	2,206.080	2,510.075	125,684.045	0.000	0.000	0.000	0.000	370.524	0.000
2028	6	147,109.404	248.830	8,126.998	132,103.079	0.000	0.000	0.000	0.000	0.000	-176.714
2028	7	156,615.839	1,263	17,049.887	130,182.639	0.000	0.000	0.000	0.000	0.000	0.000
2028	8	155,554.794	0.000	19,704.469	123,894.719	0.000	0.000	0.000	0.000	0.000	0.000
2028	9	158,273.218	9,502	16,117.331	129,447.447	0.000	0.000	0.000	0.000	0.000	0.000
2028	10	141,935.358	872.291	5,134.497	126,898.363	0.000	0.000	0.000	0.000	0.000	0.000
2028	11	137,068.132	5,292.534	716.047	125,799.743	0.000	0.000	0.000	0.000	0.000	0.000
2028	12	159,353.179	14,953.025	112.237	137,480.705	0.000	0.000	0.000	0.000	0.000	0.000

Commercial Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2029	1	171,495.459	24,168.430	24,204	141,250.298	-754.685	0.000	0.000	0.000	0.000	0.000
2029	2	158,848.428	23,786.950	2,708	127,196.593	0.000	1,054.964	0.000	0.000	0.000	0.000
2029	3	147,755.799	17,021.766	72,648	124,822.361	0.000	0.000	-968.188	0.000	0.000	0.000
2029	4	142,005.482	8,821.311	756.142	128,597.912	0.000	0.000	0.000	-2,977.095	0.000	0.000
2029	5	138,881.408	2,211.722	2,514.937	126,977.013	0.000	0.000	0.000	0.000	370.524	0.000
2029	6	148,490.934	249.477	8,143.093	133,467.866	0.000	0.000	0.000	0.000	0.000	-176.714
2029	7	157,998.465	1,266	17,084.102	131,531.047	0.000	0.000	0.000	0.000	0.000	0.000
2029	8	156,883.640	0.000	19,744.832	125,183.201	0.000	0.000	0.000	0.000	0.000	0.000
2029	9	159,657.955	9,528	16,150.947	130,798.542	0.000	0.000	0.000	0.000	0.000	0.000
2029	10	143,279.355	874.694	5,145.453	128,229.002	0.000	0.000	0.000	0.000	0.000	0.000
2029	11	138,408.422	5,307.313	717.602	127,123.699	0.000	0.000	0.000	0.000	0.000	0.000
2029	12	160,848.600	14,995.415	112,486	138,933.487	0.000	0.000	0.000	0.000	0.000	0.000
2030	1	172,984.278	24,225.094	24,226	142,682.430	-754.685	0.000	0.000	0.000	0.000	0.000
2030	2	160,198.293	23,843.416	2,711	128,489.990	0.000	1,054.964	0.000	0.000	0.000	0.000
2030	3	149,069.820	17,062.684	72,718	126,095.393	0.000	0.000	-968.188	0.000	0.000	0.000
2030	4	143,347.233	8,843.040	756.925	129,917.151	0.000	0.000	0.000	-2,977.095	0.000	0.000
2030	5	140,196.014	2,217.235	2,517.615	128,283.426	0.000	0.000	0.000	0.000	370.524	0.000
2030	6	149,878.171	250.107	8,152.035	134,845.532	0.000	0.000	0.000	0.000	0.000	-176.714
2030	7	159,385.826	1,270	17,104.107	132,898.399	0.000	0.000	0.000	0.000	0.000	0.000
2030	8	158,212.750	0.000	19,768.578	126,488.565	0.000	0.000	0.000	0.000	0.000	0.000
2030	9	161,045.524	9,553	16,170.829	132,166.204	0.000	0.000	0.000	0.000	0.000	0.000
2030	10	144,639.255	877.087	5,152.184	129,579.776	0.000	0.000	0.000	0.000	0.000	0.000
2030	11	139,766.902	5,321.991	718.562	128,466.542	0.000	0.000	0.000	0.000	0.000	0.000
2030	12	162,362.825	15,037.370	112,640	140,405.603	0.000	0.000	0.000	0.000	0.000	0.000
2031	1	174,708.785	24,311.556	24,301	144,320.401	-754.685	0.000	0.000	0.000	0.000	0.000
2031	2	161,758.374	23,928.505	2,719	129,964.974	0.000	1,054.964	0.000	0.000	0.000	0.000
2031	3	150,578.360	17,123.567	72,941	127,542.828	0.000	0.000	-968.188	0.000	0.000	0.000
2031	4	144,874.820	8,874.746	759.253	131,410.704	0.000	0.000	0.000	-2,977.095	0.000	0.000
2031	5	141,686.398	2,225.184	2,525.358	129,758.121	0.000	0.000	0.000	0.000	370.524	0.000
2031	6	151,454.170	251.003	8,177.099	136,395.570	0.000	0.000	0.000	0.000	0.000	-176.714
2031	7	160,964.935	1,274	17,156.566	134,425.045	0.000	0.000	0.000	0.000	0.000	0.000
2031	8	159,726.284	0.000	19,829.195	127,941.482	0.000	0.000	0.000	0.000	0.000	0.000
2031	9	162,613.176	9,587	16,220.403	133,684.247	0.000	0.000	0.000	0.000	0.000	0.000
2031	10	146,142.381	880.196	5,167.823	131,064.155	0.000	0.000	0.000	0.000	0.000	0.000
2031	11	141,259.475	5,340.852	720.742	129,938.073	0.000	0.000	0.000	0.000	0.000	0.000
2031	12	164,024.619	15,090.651	112,982	142,013.774	0.000	0.000	0.000	0.000	0.000	0.000

Commercial Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2032	1	176,448.194	24,396.504	24.373	145,974.790	-754.685	0.000	0.000	0.000	0.000	0.000
2032	2	163,328.628	24,011.622	2.727	131,452.103	0.000	1,054.964	0.000	0.000	0.000	0.000
2032	3	152,094.390	17,182.684	73.155	128,999.526	0.000	0.000	-968.188	0.000	0.000	0.000
2032	4	146,401.855	8,904.965	761.452	132,905.320	0.000	0.000	0.000	-2,977.095	0.000	0.000
2032	5	143,174.237	2,232.714	2,532.617	131,231.170	0.000	0.000	0.000	0.000	370.524	0.000
2032	6	153,023.466	251.847	8,200.411	137,940.710	0.000	0.000	0.000	0.000	0.000	-176.714
2032	7	162,530.600	1.278	17,204.796	135,942.475	0.000	0.000	0.000	0.000	0.000	0.000
2032	8	161,222.868	0.000	19,884.485	129,382.776	0.000	0.000	0.000	0.000	0.000	0.000
2032	9	164,161.333	9.619	16,265.298	135,187.478	0.000	0.000	0.000	0.000	0.000	0.000
2032	10	147,630.452	883.063	5,182.019	132,535.163	0.000	0.000	0.000	0.000	0.000	0.000
2032	11	142,734.324	5,358.131	722.707	131,393.679	0.000	0.000	0.000	0.000	0.000	0.000
2032	12	165,660.905	15,139.117	113.287	143,601.289	0.000	0.000	0.000	0.000	0.000	0.000
2033	1	178,167.386	24,474.910	24.439	147,615.510	-754.685	0.000	0.000	0.000	0.000	0.000
2033	2	164,881.800	24,088.561	2.735	132,928.328	0.000	1,054.964	0.000	0.000	0.000	0.000
2033	3	153,596.887	17,237.574	73.352	130,446.937	0.000	0.000	-968.188	0.000	0.000	0.000
2033	4	147,924.714	8,933.483	763.502	134,397.612	0.000	0.000	0.000	-2,977.095	0.000	0.000
2033	5	144,660.383	2,239.842	2,539.413	132,703.391	0.000	0.000	0.000	0.000	370.524	0.000
2033	6	154,592.182	252.648	8,222.329	139,486.707	0.000	0.000	0.000	0.000	0.000	-176.714
2033	7	164,101.983	1.282	17,250.980	137,467.670	0.000	0.000	0.000	0.000	0.000	0.000
2033	8	162,726.300	0.000	19,937.658	130,833.036	0.000	0.000	0.000	0.000	0.000	0.000
2033	9	165,718.780	9.649	16,308.644	136,701.549	0.000	0.000	0.000	0.000	0.000	0.000
2033	10	149,133.107	885.876	5,195.890	134,021.133	0.000	0.000	0.000	0.000	0.000	0.000
2033	11	144,225.205	5,375.153	724.635	132,865.610	0.000	0.000	0.000	0.000	0.000	0.000
2033	12	167,316.317	15,187.053	113.588	145,208.464	0.000	0.000	0.000	0.000	0.000	0.000
2034	1	179,912.245	24,553.324	24.505	149,281.889	-754.685	0.000	0.000	0.000	0.000	0.000
2034	2	166,460.646	24,165.902	2.742	134,429.825	0.000	1,054.964	0.000	0.000	0.000	0.000
2034	3	155,126.942	17,293.040	73.551	131,921.328	0.000	0.000	-968.188	0.000	0.000	0.000
2034	4	149,482.579	8,962.721	765.612	135,924.129	0.000	0.000	0.000	-2,977.095	0.000	0.000
2034	5	146,182.982	2,247.189	2,546.449	134,211.608	0.000	0.000	0.000	0.000	370.524	0.000
2034	6	156,202.278	253.479	8,245.174	141,073.127	0.000	0.000	0.000	0.000	0.000	-176.714
2034	7	165,726.235	1.287	17,300.335	139,042.564	0.000	0.000	0.000	0.000	0.000	0.000
2034	8	164,283.403	0.000	19,994.853	132,332.943	0.000	0.000	0.000	0.000	0.000	0.000
2034	9	167,333.854	9.682	16,355.542	138,269.692	0.000	0.000	0.000	0.000	0.000	0.000
2034	10	150,703.076	888.967	5,211.370	135,572.532	0.000	0.000	0.000	0.000	0.000	0.000
2034	11	145,785.139	5,393.943	726.799	134,404.589	0.000	0.000	0.000	0.000	0.000	0.000
2034	12	169,052.980	15,240.265	113.928	146,891.574	0.000	0.000	0.000	0.000	0.000	0.000

Commercial Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2035	1	181,755.088	24,641.825	24.581	151,036.154	-754.685	0.000	0.000	0.000	0.000	0.000
2035	2	168,127.679	24,253.036	2.751	136,009.717	0.000	1,054.964	0.000	0.000	0.000	0.000
2035	3	156,740.112	17,355.413	73.778	133,471.897	0.000	0.000	-968.188	0.000	0.000	0.000
2035	4	151,127.881	8,995.841	768.051	137,533.871	0.000	0.000	0.000	-2,977.095	0.000	0.000
2035	5	147,789.047	2,255.496	2,554.565	135,801.250	0.000	0.000	0.000	0.000	370.524	0.000
2035	6	157,900.631	254.416	8,271.465	142,744.252	0.000	0.000	0.000	0.000	0.000	-176.714
2035	7	167,438.220	1.292	17,356.569	140,698.310	0.000	0.000	0.000	0.000	0.000	0.000
2035	8	165,924.470	0.000	20,059.876	133,908.988	0.000	0.000	0.000	0.000	0.000	0.000
2035	9	169,034.035	9.718	16,408.751	139,916.627	0.000	0.000	0.000	0.000	0.000	0.000
2035	10	152,342.584	892.339	5,228.485	137,191.553	0.000	0.000	0.000	0.000	0.000	0.000
2035	11	147,413.262	5,414.414	729.187	136,009.854	0.000	0.000	0.000	0.000	0.000	0.000
2035	12	170,865.853	15,298.127	114.303	148,646.211	0.000	0.000	0.000	0.000	0.000	0.000
2036	1	183,662.965	24,735.551	24.662	152,850.226	-754.685	0.000	0.000	0.000	0.000	0.000
2036	2	169,852.874	24,345.184	2.760	137,642.754	0.000	1,054.964	0.000	0.000	0.000	0.000
2036	3	158,408.234	17,421.282	74.021	135,073.906	0.000	0.000	-968.188	0.000	0.000	0.000
2036	4	152,813.884	9,029.896	770.568	139,183.303	0.000	0.000	0.000	-2,977.095	0.000	0.000
2036	5	149,434.022	2,264.025	2,562.924	137,429.337	0.000	0.000	0.000	0.000	370.524	0.000
2036	6	159,639.280	255.377	8,298.491	144,454.913	0.000	0.000	0.000	0.000	0.000	-176.714
2036	7	169,176.421	1.296	17,412.772	142,380.303	0.000	0.000	0.000	0.000	0.000	0.000
2036	8	167,589.578	0.000	20,124.745	135,509.226	0.000	0.000	0.000	0.000	0.000	0.000
2036	9	170,758.548	9.755	16,461.749	141,588.105	0.000	0.000	0.000	0.000	0.000	0.000
2036	10	153,996.609	895.644	5,245.187	138,825.571	0.000	0.000	0.000	0.000	0.000	0.000
2036	11	149,055.023	5,434.447	731.513	137,629.255	0.000	0.000	0.000	0.000	0.000	0.000
2036	12	172,691.949	15,354.663	114.667	150,415.407	0.000	0.000	0.000	0.000	0.000	0.000
2037	1	185,574.210	24,825.793	24.739	154,671.150	-754.685	0.000	0.000	0.000	0.000	0.000
2037	2	171,580.696	24,433.889	2.768	139,281.862	0.000	1,054.964	0.000	0.000	0.000	0.000
2037	3	160,079.724	17,484.675	74.252	136,681.772	0.000	0.000	-968.188	0.000	0.000	0.000
2037	4	154,497.806	9,062.266	772.937	140,832.486	0.000	0.000	0.000	-2,977.095	0.000	0.000
2037	5	151,077.738	2,272.130	2,570.793	139,057.078	0.000	0.000	0.000	0.000	370.524	0.000
2037	6	161,375.807	256.290	8,323.927	146,165.092	0.000	0.000	0.000	0.000	0.000	-176.714
2037	7	170,906.987	1.301	17,465.234	144,058.403	0.000	0.000	0.000	0.000	0.000	0.000
2037	8	169,246.509	0.000	20,185.272	137,105.630	0.000	0.000	0.000	0.000	0.000	0.000
2037	9	172,475.367	9.789	16,511.183	143,255.456	0.000	0.000	0.000	0.000	0.000	0.000
2037	10	155,641.801	898.738	5,260.632	140,452.224	0.000	0.000	0.000	0.000	0.000	0.000
2037	11	150,687.887	5,453.192	733.664	139,241.224	0.000	0.000	0.000	0.000	0.000	0.000
2037	12	174,506.078	15,407.542	115.003	152,176.320	0.000	0.000	0.000	0.000	0.000	0.000

Commercial Model Output

Year	Month	Pred	XHeat	XCool	XOther	Jan	Feb	Mar	Apr	May	Jun
2038	1	187,519.136	24,916.720	24.817	156,525.072	-754.685	0.000	0.000	0.000	0.000	0.000
2038	2	173,339.372	24,523.338	2.777	140,951.081	0.000	1,054.964	0.000	0.000	0.000	0.000
2038	3	161,781.748	17,548.653	74.486	138,319.584	0.000	0.000	-968.188	0.000	0.000	0.000
2038	4	156,213.282	9,094.968	775.333	142,512.865	0.000	0.000	0.000	-2,977.095	0.000	0.000
2038	5	152,752.848	2,280.325	2,578.756	140,716.030	0.000	0.000	0.000	0.000	370.524	0.000
2038	6	163,145.962	257.214	8,349.693	147,908.557	0.000	0.000	0.000	0.000	0.000	-176.714
2038	7	172,671.648	1.306	17,518.465	145,769.828	0.000	0.000	0.000	0.000	0.000	0.000
2038	8	170,936.570	0.000	20,246.757	138,734.206	0.000	0.000	0.000	0.000	0.000	0.000
2038	9	174,227.059	9.824	16,561.450	144,956.847	0.000	0.000	0.000	0.000	0.000	0.000
2038	10	157,321.262	901.884	5,276.368	142,112.802	0.000	0.000	0.000	0.000	0.000	0.000
2038	11	152,355.202	5,472.273	735.857	140,887.264	0.000	0.000	0.000	0.000	0.000	0.000
2038	12	176,358.990	15,461.429	115.347	153,975.002	0.000	0.000	0.000	0.000	0.000	0.000

Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on	Heat
1996	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30,018.052
1996	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	26,895.130
1996	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18,201.664
1996	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12,954.380
1996	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,806.889
1996	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	405.242
1996	7	2,574.838	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	8	0.000	5,148.395	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	9	0.000	0.000	5,891.727	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1996	10	0.000	0.000	0.000	2,222.995	0.000	0.000	0.000	0.000	0.000	870.874
1996	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	0.000	0.000	0.000	7,012.318
1996	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	19,214.472
1997	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	21,176.718
1997	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	23,050.987
1997	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12,482.432
1997	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8,255.462
1997	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3,755.438
1997	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	596.035
1997	7	2,574.838	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	8	0.000	5,148.395	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	9	0.000	0.000	5,891.727	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1997	10	0.000	0.000	0.000	2,222.995	0.000	0.000	0.000	0.000	0.000	613.098
1997	11	0.000	0.000	0.000	0.000	-1,547.405	-13,018.647	0.000	0.000	0.000	8,484.779
1997	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17,796.446
1998	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	19,154.893
1998	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18,276.663
1998	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	14,388.018
1998	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8,674.683
1998	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,280.961
1998	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	29.844
1998	7	2,574.838	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.811
1998	8	0.000	5,148.395	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	9	0.000	0.000	5,891.727	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1998	10	0.000	0.000	0.000	2,222.995	0.000	0.000	0.000	0.000	0.000	241.758
1998	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	0.000	0.000	0.000	4,845.845
1998	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10,143.453

Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on	Heat
1999	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	25,866.311
1999	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16,244.649
1999	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	19,072.340
1999	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10,187.419
1999	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,214.448
1999	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	7	2,574.838	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	8	0.000	5,148.395	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1999	9	0.000	0.000	5,891.727	0.000	0.000	0.000	0.000	0.000	0.000	5.072
1999	10	0.000	0.000	0.000	2,222.995	0.000	0.000	0.000	0.000	0.000	553.734
1999	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	0.000	0.000	0.000	4,577.705
1999	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12,235.094
2000	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	22,284.608
2000	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	26,601.213
2000	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	10,154.521
2000	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	5,777.200
2000	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	2,129.599
2000	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	5.111
2000	7	2,574.838	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	0.000
2000	8	0.000	5,148.395	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	0.000
2000	9	0.000	0.000	5,891.727	0.000	0.000	0.000	0.000	0.000	2,047.706	25.115
2000	10	0.000	0.000	0.000	2,222.995	0.000	0.000	0.000	0.000	2,047.706	1,366.225
2000	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	0.000	0.000	2,047.706	4,649.755
2000	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	22,461.752
2001	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	33,841.795
2001	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	23,616.016
2001	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	16,233.858
2001	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	11,542.311
2001	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	1,747.755
2001	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	108.448
2001	7	2,574.838	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	0.000
2001	8	0.000	5,148.395	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	0.000
2001	9	0.000	0.000	5,891.727	0.000	0.000	0.000	0.000	0.000	2,047.706	5.094
2001	10	0.000	0.000	0.000	2,222.995	0.000	0.000	0.000	0.000	2,047.706	1,042.317
2001	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	0.000	0.000	2,047.706	4,988.378
2001	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	7,084.592

Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on	Heat
2002	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	24,039.747
2002	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	17,857.432
2002	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	15,596.626
2002	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	8,636.139
2002	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	2,268.904
2002	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	1,373.786
2002	7	2,574.838	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	0.000
2002	8	0.000	5,148.395	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	0.000
2002	9	0.000	0.000	5,891.727	0.000	0.000	0.000	0.000	0.000	2,047.706	0.000
2002	10	0.000	0.000	0.000	2,222.995	0.000	0.000	0.000	0.000	2,047.706	499.220
2002	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	0.000	0.000	2,047.706	6,090.769
2002	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	19,893.400
2003	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	23,887.161
2003	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	30,061.931
2003	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	19,915.156
2003	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	5,436.233
2003	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	1,161.370
2003	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	0.000
2003	7	2,574.838	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	0.000
2003	8	0.000	5,148.395	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	0.000
2003	9	0.000	0.000	5,891.727	0.000	0.000	0.000	0.000	0.000	2,047.706	0.000
2003	10	0.000	0.000	0.000	2,222.995	0.000	0.000	0.000	0.000	2,047.706	1,381.453
2003	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	0.000	0.000	2,047.706	3,749.556
2003	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	14,403.034
2004	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	23,586.265
2004	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	27,100.180
2004	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	15,584.560
2004	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	9,042.503
2004	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	2,166.362
2004	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	158.058
2004	7	2,574.838	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	0.000
2004	8	0.000	5,148.395	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	0.000
2004	9	0.000	0.000	5,891.727	0.000	0.000	0.000	0.000	0.000	2,047.706	0.000
2004	10	0.000	0.000	0.000	2,222.995	0.000	0.000	0.000	0.000	2,047.706	374.148
2004	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	0.000	0.000	2,047.706	2,346.498
2004	12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2,047.706	12,049.398

Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on	Heat
2005	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	20,288.248
2005	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	22,086.977
2005	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	18,726.732
2005	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	9,011.432
2005	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	2,492.520
2005	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	362.591
2005	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	0.000
2005	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	0.000
2005	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	0.000	2,047.706	0.000
2005	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	0.000	2,047.706	213.874
2005	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	0.000	2,047.706	5,500.283
2005	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	19,979.154
2006	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	20,105.135
2006	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	15,439.447
2006	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	16,789.329
2006	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	8,780.528
2006	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	744.939
2006	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	148.589
2006	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	0.000
2006	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	0.000
2006	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	0.000	2,047.706	35.111
2006	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	0.000	2,047.706	1,400.197
2006	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	0.000	2,047.706	7,689.481
2006	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	13,007.530
2007	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	14,278.719
2007	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	25,556.321
2007	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	21,366.754
2007	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	7,838.650
2007	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	2,880.737
2007	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	120.008
2007	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	0.000
2007	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	0.000	2,047.706	0.000
2007	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2007	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	240.050
2007	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	4,755.068
2007	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,438.785

Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on	Heat
2008	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	19,900.315
2008	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	21,552.606
2008	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	18,490.240
2008	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,577.629
2008	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1,840.230
2008	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	132.278
2008	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2008	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2008	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2008	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	305.041
2008	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,029.352
2008	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,199.837
2009	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	22,567.362
2009	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	22,206.992
2009	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	15,881.494
2009	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,214.931
2009	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,060.002
2009	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	232.362
2009	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.178
2009	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2009	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8.860
2009	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	813.085
2009	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	4,934.438
2009	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	13,939.139
2010	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	22,519.997
2010	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	22,174.606
2010	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	15,875.656
2010	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,245.812
2010	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,068.043
2010	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	233.288
2010	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.186
2010	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2010	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8.925
2010	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	820.094
2010	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	4,977.129
2010	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,065.993

Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on	Heat
2011	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	22,684.587
2011	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	22,336.030
2011	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	15,990.492
2011	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,298.390
2011	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,081.446
2011	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	234.888
2011	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.193
2011	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2011	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8.987
2011	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	825.715
2011	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,011.948
2011	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,166.628
2012	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	22,892.967
2012	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	22,540.643
2012	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,136.557
2012	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,367.070
2012	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,098.691
2012	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	236.836
2012	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.203
2012	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2012	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.059
2012	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	832.276
2012	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,052.034
2012	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,280.777
2013	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,110.649
2013	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	22,746.568
2013	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,277.792
2013	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,439.186
2013	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,116.001
2013	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	238.691
2013	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.212
2013	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2013	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.121
2013	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	837.645
2013	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,082.821
2013	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,362.096

Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on	Heat
2014	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,268.960
2014	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	22,902.744
2014	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,389.817
2014	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,496.382
2014	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,130.369
2014	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	240.315
2014	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.220
2014	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2014	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.181
2014	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	843.109
2014	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,115.986
2014	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,455.832
2015	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,370.768
2015	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,001.778
2015	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,459.828
2015	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,531.703
2015	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,139.109
2015	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	241.286
2015	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.225
2015	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2015	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.217
2015	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	846.425
2015	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,135.802
2015	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,510.864
2016	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,434.626
2016	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,064.215
2016	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,504.205
2016	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,556.234
2016	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,145.213
2016	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	241.969
2016	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.229
2016	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2016	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.244
2016	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	848.993
2016	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,151.260
2016	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,554.148

Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on	Heat
2017	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,467.734
2017	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,096.198
2017	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,526.651
2017	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,567.462
2017	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,147.969
2017	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	242.272
2017	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.230
2017	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2017	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.254
2017	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	849.706
2017	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,155.444
2017	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,565.525
2018	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,454.903
2018	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,082.910
2018	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,516.658
2018	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,560.569
2018	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,146.179
2018	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	242.063
2018	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.229
2018	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2018	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.244
2018	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	848.789
2018	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,149.738
2018	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,548.950
2019	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,470.073
2019	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,097.159
2019	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,526.356
2019	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,565.924
2019	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,147.460
2019	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	242.199
2019	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.229
2019	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2019	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.249
2019	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	849.201
2019	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,152.096
2019	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,555.166

Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on	Heat
2020	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,517.771
2020	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,144.347
2020	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,560.301
2020	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,583.611
2020	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,151.916
2020	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	242.705
2020	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.232
2020	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2020	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.269
2020	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	851.058
2020	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,163.410
2020	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,587.290
2021	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,595.881
2021	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,222.785
2021	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,617.575
2021	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,614.033
2021	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,159.691
2021	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	243.600
2021	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.237
2021	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2021	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.305
2021	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	854.405
2021	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,184.070
2021	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,646.763
2022	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,690.330
2022	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,317.080
2022	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,686.032
2022	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,649.262
2022	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,168.650
2022	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	244.627
2022	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.242
2022	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2022	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.345
2022	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	858.090
2022	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,206.728
2022	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,711.721

Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on	Heat
2023	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,760.282
2023	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,386.458
2023	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,736.068
2023	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,675.006
2023	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,175.155
2023	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	245.367
2023	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.246
2023	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2023	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.374
2023	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	860.735
2023	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,222.899
2023	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,757.793
2024	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,826.591
2024	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,450.904
2024	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,781.586
2024	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,698.234
2024	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,180.901
2024	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	246.005
2024	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.249
2024	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2024	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.397
2024	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	862.779
2024	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,235.111
2024	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,791.702
2025	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,891.689
2025	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,514.123
2025	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,826.199
2025	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,720.535
2025	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,186.412
2025	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	246.617
2025	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.252
2025	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2025	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.419
2025	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	864.702
2025	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,246.588
2025	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,823.529

Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on	Heat
2026	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,964.643
2026	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,585.283
2026	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,876.650
2026	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,746.157
2026	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,192.776
2026	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	247.327
2026	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.255
2026	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2026	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.445
2026	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	867.044
2026	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,260.654
2026	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,862.821
2027	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,043.383
2027	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,662.507
2027	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,931.711
2027	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,774.520
2027	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,199.861
2027	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	248.123
2027	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.259
2027	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2027	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.475
2027	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	869.793
2027	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,277.274
2027	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,909.589
2028	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,109.476
2028	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,728.018
2028	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	16,978.928
2028	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,799.151
2028	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,206.080
2028	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	248.830
2028	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.263
2028	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2028	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.502
2028	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	872.291
2028	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,292.534
2028	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,953.025

Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on	Heat
2029	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,168.430
2029	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,786.950
2029	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	17,021.766
2029	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,821.311
2029	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,211.722
2029	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	249.477
2029	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.266
2029	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2029	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.528
2029	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	874.694
2029	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,307.313
2029	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	14,995.415
2030	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,225.094
2030	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,843.416
2030	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	17,062.684
2030	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,843.040
2030	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,217.235
2030	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	250.107
2030	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.270
2030	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2030	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.553
2030	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	877.087
2030	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,321.991
2030	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	15,037.370
2031	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,311.556
2031	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	23,928.505
2031	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	17,123.567
2031	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,874.746
2031	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,225.184
2031	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	251.003
2031	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.274
2031	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2031	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.587
2031	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	880.196
2031	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,340.852
2031	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	15,090.651

Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on	Heat
2032	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,396.504
2032	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,011.622
2032	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	17,182.684
2032	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,904.965
2032	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,232.714
2032	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	251.847
2032	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.278
2032	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2032	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.619
2032	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	883.063
2032	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,358.131
2032	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	15,139.117
2033	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,474.910
2033	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,088.561
2033	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	17,237.574
2033	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,933.483
2033	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,239.842
2033	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	252.648
2033	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.282
2033	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2033	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.649
2033	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	885.876
2033	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,375.153
2033	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	15,187.053
2034	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,553.324
2034	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,165.902
2034	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	17,293.040
2034	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,962.721
2034	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,247.189
2034	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	253.479
2034	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.287
2034	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2034	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.682
2034	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	888.967
2034	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,393.943
2034	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	15,240.265

Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on	Heat
2035	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,641.825
2035	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,253.036
2035	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	17,355.413
2035	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	8,995.841
2035	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,255.496
2035	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	254.416
2035	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.292
2035	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2035	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.718
2035	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	892.339
2035	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,414.414
2035	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	15,298.127
2036	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,735.551
2036	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,345.184
2036	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	17,421.282
2036	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9,029.896
2036	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,264.025
2036	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	255.377
2036	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.296
2036	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2036	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.755
2036	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	895.644
2036	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,434.447
2036	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	15,354.663
2037	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,825.793
2037	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,433.889
2037	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	17,484.675
2037	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9,062.266
2037	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,272.130
2037	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	256.290
2037	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.301
2037	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2037	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.789
2037	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	898.738
2037	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,453.192
2037	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	15,407.542

Commercial Model Output

Year	Month	Jul	Aug	Sep	Oct	Nov	Nov97	D05on	Sep07on	D00on	Heat
2038	1	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,916.720
2038	2	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	24,523.338
2038	3	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	17,548.653
2038	4	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9,094.968
2038	5	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	2,280.325
2038	6	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	257.214
2038	7	2,574.838	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	1.306
2038	8	0.000	5,148.395	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	0.000
2038	9	0.000	0.000	5,891.727	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	9.824
2038	10	0.000	0.000	0.000	2,222.995	0.000	0.000	3,507.871	1,251.635	2,047.706	901.884
2038	11	0.000	0.000	0.000	0.000	-1,547.405	0.000	3,507.871	1,251.635	2,047.706	5,472.273
2038	12	0.000	0.000	0.000	0.000	0.000	0.000	3,507.871	1,251.635	2,047.706	15,461.429

Commercial Model Output

Year	Month	Cool	Other	Total	Actual	Heat	Cool
1996	1	0.000	86467.0959437579	116,485.148	113206	30,018.052	0.000
1996	2	0.000	79646.0064986602	106,541.137	109167.3	26,895.130	0.000
1996	3	0.000	76181.8119799855	94,383.476	95628.28	18,201.664	0.000
1996	4	370.316	76620.3013545527	89,944.998	91701.17	12,954.380	370.316
1996	5	3,665.940	79023.4864942842	85,496.316	98296.37	2,806.889	3,665.940
1996	6	8,286.460	82525.2409943409	91,216.943	85395.12	405.242	8,286.460
1996	7	15,669.413	84319.9930742495	99,989.406	98462.36	0.000	15,669.413
1996	8	13,702.270	82983.1492798109	96,685.419	97278.15	0.000	13,702.270
1996	9	12,406.967	87246.8620661369	99,653.829	98444.86	0.000	12,406.967
1996	10	2,241.216	82389.8410157774	85,501.932	82694.94	870.874	2,241.216
1996	11	313.946	77970.7443846832	85,297.009	87310.54	7,012.318	313.946
1996	12	81.637	86939.4457080421	106,235.555	105129.3	19,214.472	81.637
1997	1	43.672	88795.6643680968	110,016.055	113474.4	21,176.718	43.672
1997	2	32.507	81742.4547854524	104,825.948	102454.9	23,050.987	32.507
1997	3	136.130	78292.4475826630	90,911.010	90988.45	12,482.432	136.130
1997	4	322.144	79146.5073414022	87,724.114	84898.02	8,255.462	322.144
1997	5	366.442	81506.7527422982	85,628.632	80429.33	3,755.438	366.442
1997	6	2,840.258	85142.6616062718	88,578.955	83911.03	596.035	2,840.258
1997	7	13,201.458	87064.3745032812	100,265.833	102380.7	0.000	13,201.458
1997	8	15,472.945	85594.9387357449	101,067.884	100758.8	0.000	15,472.945
1997	9	8,777.835	89982.2689353121	98,760.104	98072.33	0.000	8,777.835
1997	10	2,716.019	84969.8426003317	88,298.960	86935.31	613.098	2,716.019
1997	11	783.097	67505.4805665358	76,773.356	76773.36	8,484.779	783.097
1997	12	0.000	89766.6630187422	107,563.109	117640	17,796.446	0.000
1998	1	0.000	91481.0950030637	110,635.988	107446.7	19,154.893	0.000
1998	2	0.000	84147.1784826588	102,423.841	99409.46	18,276.663	0.000
1998	3	1.718	80589.1037047772	94,978.840	85160.54	14,388.018	1.718
1998	4	2,250.679	81232.3156007826	92,157.678	95019.6	8,674.683	2,250.679
1998	5	1,243.956	83557.4928844253	86,082.410	87043.62	1,280.961	1,243.956
1998	6	7,512.443	87289.9657531055	94,832.252	93873.46	29.844	7,512.443
1998	7	15,893.086	88933.2929692949	104,839.190	109127.9	12.811	15,893.086
1998	8	15,607.619	87377.2323654905	102,984.851	103820.2	0.000	15,607.619
1998	9	15,835.523	91858.6985971288	107,694.222	108251.8	0.000	15,835.523
1998	10	9,548.283	86661.5003318521	96,451.541	95623.33	241.758	9,548.283
1998	11	698.746	82231.1700268369	87,775.761	89644.24	4,845.845	698.746
1998	12	162.004	91570.6671632109	101,876.124	105092.9	10,143.453	162.004

Commercial Model Output

Year	Month	Cool	Other	Total	Actual	Heat	Cool
1999	1	70.723	93254.0331483086	119,191.067	117449.2	25,866.311	70.723
1999	2	0.000	85724.7560142334	101,969.405	99527.09	16,244.649	0.000
1999	3	0.000	82150.2872859670	101,222.627	103864.9	19,072.340	0.000
1999	4	517.405	82694.9901099229	93,399.813	94106.93	10,187.419	517.405
1999	5	1,732.383	84961.6254261372	87,908.456	87169.35	1,214.448	1,732.383
1999	6	8,473.652	88765.5127364650	97,239.165	97019.42	0.000	8,473.652
1999	7	19,392.240	90177.2271044834	109,569.467	109599.4	0.000	19,392.240
1999	8	22,903.823	88552.3252011199	111,456.149	111619.7	0.000	22,903.823
1999	9	12,194.844	93067.8371199237	105,267.753	100983.5	0.000	12,194.844
1999	10	2,486.482	87578.1119870427	90,618.329	95125.92	5,072	2,486.482
1999	11	137.897	83052.0976556643	87,767.700	87415.28	4,577.705	137.897
1999	12	0.000	92504.5479193819	104,739.642	106592.8	12,235.094	0.000
2000	1	0.000	96040.2292200264	118,324.837	116047.5	22,284.608	0.000
2000	2	0.000	88445.2001114420	115,046.413	114186.4	26,601.213	0.000
2000	3	108.051	84846.9641131213	95,109.536	97738.7	10,154.521	108.051
2000	4	258.544	85370.2655848716	91,406.010	89933.02	5,777.200	258.544
2000	5	2,787.495	87649.3974732094	92,566.492	92491.05	2,129.599	2,787.495
2000	6	8,186.210	91460.5486530522	99,651.870	104856.5	5.111	8,186.210
2000	7	14,730.223	93069.8934599828	107,800.117	108139.4	0.000	14,730.223
2000	8	12,303.200	91412.0021232210	103,715.203	108808.6	0.000	12,303.200
2000	9	11,174.613	95991.4851657236	107,191.213	111962.6	25.115	11,174.613
2000	10	3,805.750	90965.8220388389	96,137.797	96372.65	1,366.225	3,805.750
2000	11	524.254	86502.7997562095	91,676.809	91910.57	4,649.755	524.254
2000	12	0.000	96049.0256270486	118,510.778	116962	22,461.752	0.000
2001	1	0.000	98218.5835439609	132,060.378	133855.1	33,841.795	0.000
2001	2	0.000	90454.7405534560	114,070.757	113503	23,616.016	0.000
2001	3	0.000	86859.7184985218	103,093.576	102783.4	16,233.858	0.000
2001	4	2,145.930	87936.0122228559	101,624.252	100194.2	11,542.311	2,145.930
2001	5	4,726.980	90204.4258765032	96,679.161	97747.04	1,747.755	4,726.980
2001	6	5,339.483	94213.0602960323	99,660.992	100454.1	108.448	5,339.483
2001	7	13,171.845	96134.4546471582	109,306.300	109764.2	0.000	13,171.845
2001	8	18,266.235	94315.0665876313	112,581.302	113401.7	0.000	18,266.235
2001	9	14,850.805	99019.9609283211	113,875.859	113736.6	5.094	14,850.805
2001	10	3,580.309	93983.5311471155	98,606.157	95920.9	1,042.317	3,580.309
2001	11	1,049.816	89431.4874790748	95,469.681	95928.18	4,988.378	1,049.816
2001	12	36.243	99270.0525500963	106,390.887	104780.7	7,084.592	36.243

Commercial Model Output

Year	Month	Cool	Other	Total	Actual	Heat	Cool
2002	1	0.000	101405.7180360040	125,445.465	123908.8	24,039.747	0.000
2002	2	0.000	93279.3181716291	111,136.750	108018.6	17,857.432	0.000
2002	3	65.697	89611.7721851712	105,274.095	107309.8	15,596.626	65.697
2002	4	1,035.785	90599.5865384626	100,271.511	102537.2	8,636.139	1,035.785
2002	5	2,915.052	92839.5202951248	98,023.476	95971.43	2,268.904	2,915.052
2002	6	8,051.650	96979.9321313671	106,405.368	105281.5	1,373.786	8,051.650
2002	7	18,245.945	98639.7162129655	116,885.661	117418.6	0.000	18,245.945
2002	8	22,056.922	96725.4593132725	118,782.381	119368.2	0.000	22,056.922
2002	9	20,364.983	101524.0972277490	121,889.080	119695.3	0.000	20,364.983
2002	10	8,111.846	96260.5839813792	104,871.650	104899.3	499.220	8,111.846
2002	11	799.656	91780.2356679120	98,670.661	96109.99	6,090.769	799.656
2002	12	115.172	101822.0354156040	121,830.607	117232.4	19,893.400	115.172
2003	1	0.000	103929.6747392120	127,816.836	126690.5	23,887.161	0.000
2003	2	0.000	95554.5150230854	125,616.446	122779.6	30,061.931	0.000
2003	3	0.000	91839.8897075251	111,755.046	110450.6	19,915.156	0.000
2003	4	907.362	92789.3163511697	99,132.911	98087.84	5,436.233	907.362
2003	5	2,233.339	95002.0358162761	98,396.744	98693.05	1,161.370	2,233.339
2003	6	3,193.925	99249.6985711571	102,443.624	102213.9	0.000	3,193.925
2003	7	13,390.556	101608.0297235300	114,998.585	112755.6	0.000	13,390.556
2003	8	15,009.428	98320.8450427951	113,330.273	112586.7	0.000	15,009.428
2003	9	14,989.947	103192.5617453240	118,182.509	120287.9	0.000	14,989.947
2003	10	2,168.014	98724.5508715560	102,274.018	101482.9	1,381.453	2,168.014
2003	11	501.608	93129.5174610953	97,380.681	96076.45	3,749.556	501.608
2003	12	62.423	103487.4837437130	117,952.941	116012.2	14,403.034	62.423
2004	1	51.419	106045.0848094870	129,682.770	131261.2	23,586.265	51.419
2004	2	15.287	96531.5608831257	123,647.027	125201.7	27,100.180	15.287
2004	3	136.238	93595.0985483140	109,315.897	109248.1	15,584.560	136.238
2004	4	792.542	96188.0502793012	106,023.096	106039	9,042.503	792.542
2004	5	4,264.049	96498.8128321791	102,929.223	102893.6	2,166.362	4,264.049
2004	6	12,316.861	100918.6213528290	113,393.541	117520.1	158.058	12,316.861
2004	7	15,466.473	101933.5583202720	117,400.032	118976.1	0.000	15,466.473
2004	8	14,651.408	100592.8147314610	115,244.222	114443.8	0.000	14,651.408
2004	9	13,123.701	103353.3344003450	116,477.036	117319.1	0.000	13,123.701
2004	10	3,918.598	100114.8234875280	104,407.570	105855.6	374.148	3,918.598
2004	11	760.993	93751.6459950691	96,859.137	98814.81	2,346.498	760.993
2004	12	123.148	105859.4699349160	118,032.016	117815.6	12,049.398	123.148

Commercial Model Output

Year	Month	Cool	Other	Total	Actual	Heat	Cool
2005	1	0.000	109703.3626322360	129,991.611	129923.7	20,288.248	0.000
2005	2	0.000	101755.2277334260	123,842.205	124572.2	22,086.977	0.000
2005	3	0.000	99110.9674702049	117,837.699	117738.9	18,726.732	0.000
2005	4	356.151	100441.7708968130	109,809.353	108703.5	9,011.432	356.151
2005	5	1,255.327	99619.7885805980	103,367.636	100091.5	2,492.520	1,255.327
2005	6	7,819.756	105371.0812189000	113,553.428	112547.9	362.591	7,819.756
2005	7	21,742.176	105766.1216561400	127,508.297	123433.6	0.000	21,742.176
2005	8	26,817.002	105094.4629363330	131,911.465	128530.4	0.000	26,817.002
2005	9	21,033.806	109677.6696053630	130,711.475	129452.7	0.000	21,033.806
2005	10	9,316.271	102248.6670944180	111,778.812	112861.1	213.874	9,316.271
2005	11	598.666	100393.7015980310	106,492.650	105939.3	5,500.283	598.666
2005	12	94.377	108711.0663560870	128,784.598	127394.4	19,979.154	94.377
2006	1	0.000	111425.1349350490	131,530.270	135491.9	20,105.135	0.000
2006	2	0.000	102839.9473558910	118,279.394	120935	15,439.447	0.000
2006	3	77.974	97012.5258280413	113,879.829	113477.4	16,789.329	77.974
2006	4	945.510	95604.5263164629	105,330.564	104629.6	8,780.528	945.510
2006	5	1,647.787	102379.0930105000	104,771.818	103898.1	744.939	1,647.787
2006	6	6,434.003	104915.8045290020	111,498.396	112025.5	148.589	6,434.003
2006	7	15,725.007	106596.2266139690	122,321.234	121843.9	0.000	15,725.007
2006	8	23,304.588	103275.0764732320	126,579.665	125800.4	0.000	23,304.588
2006	9	15,865.361	110567.5641071710	126,468.036	127451.4	35.111	15,865.361
2006	10	2,152.331	103151.4776761690	106,704.006	107090.5	1,400.197	2,152.331
2006	11	148.008	99084.6959658027	106,922.186	105875.3	7,689.481	148.008
2006	12	165.938	107543.9409506190	120,717.409	121307.3	13,007.530	165.938
2007	1	19.091	111659.2326602510	125,957.043	127171.8	14,278.719	19.091
2007	2	0.000	101681.0805031350	127,237.402	132079.6	25,556.321	0.000
2007	3	128.986	98759.8378077464	120,255.578	122153.4	21,366.754	128.986
2007	4	1,783.484	102518.5528286650	112,140.687	112596.6	7,838.650	1,783.484
2007	5	3,015.437	103334.1999201240	109,230.374	109476.2	2,880.737	3,015.437
2007	6	10,796.319	104024.6326271620	114,940.959	117861.1	120.008	10,796.319
2007	7	17,423.874	106012.5593114360	123,436.433	122280.2	0.000	17,423.874
2007	8	19,898.201	106053.2234937870	125,951.425	125107.3	0.000	19,898.201
2007	9	22,717.783	111400.7952390630	134,118.578	135178.8	0.000	22,717.783
2007	10	10,315.514	105487.1984615050	116,042.763	116735.4	240.050	10,315.514
2007	11	1,774.401	103112.6462781880	109,642.115	108929.7	4,755.068	1,774.401
2007	12	0.000	111224.8945632690	125,663.680	122828.8	14,438.785	0.000

Commercial Model Output

Year	Month	Cool	Other	Total	Actual	Heat	Cool
2008	1	0.000	114877.6157175180	134,777.931	135988.5	19,900.315	0.000
2008	2	0.000	104426.3086040020	125,978.914	128780.7	21,552.606	0.000
2008	3	0.000	102722.3749419200	121,212.615	122687.3	18,490.240	0.000
2008	4	85.819	103555.1065285710	112,218.555	112736.8	8,577.629	85.819
2008	5	1,080.618	103518.3895798230	106,439.237	103319.4	1,840.230	1,080.618
2008	6	6,734.115	107616.3868651590	114,482.780	114938.7	132.278	6,734.115
2008	7	13,819.327	108871.5116927850	122,690.839	122829.4	0.000	13,819.327
2008	8	16,431.161	109666.2062955080	126,097.368	124863.6	0.000	16,431.161
2008	9	15,519.049	112169.9132833660	127,688.962	127141.7	0.000	15,519.049
2008	10	5,839.999	105180.8300194750	111,325.870	111421.5	305.041	5,839.999
2008	11	700.518	101762.7917475270	107,492.662	0	5,029.352	700.518
2008	12	109.729	112199.4752893460	126,509.042		14,199.837	109.729
2009	1	23.580	113581.6091193630	136,172.550		22,567.362	23.580
2009	2	2.638	104674.5048082490	126,884.135		22,206.992	2.638
2009	3	70.716	100786.4846314820	116,738.695		15,881.494	70.716
2009	4	734.660	101465.8816159810	110,415.472		8,214.931	734.660
2009	5	2,443.860	103597.6020983290	108,101.464		2,060.002	2,443.860
2009	6	7,912.927	107978.8642474300	116,124.154		232.362	7,912.927
2009	7	16,583.186	109151.2233242360	125,735.588		1.178	16,583.186
2009	8	19,157.342	106867.3867668700	126,024.729		0.000	19,157.342
2009	9	15,670.106	111866.3852351440	127,545.352		8.860	15,670.106
2009	10	4,990.170	106208.7151348340	112,011.970		813.085	4,990.170
2009	11	696.079	101619.1339102410	107,249.651		4,934.438	696.079
2009	12	109.091	112097.5754235570	126,145.805		13,939.139	109.091
2010	1	23.307	114253.6308122850	136,796.934		22,519.997	23.307
2010	2	2.609	105342.0723138380	127,519.287		22,174.606	2.609
2010	3	70.019	101545.6282596790	117,491.304		15,875.656	70.019
2010	4	730.421	102652.8061005090	111,629.039		8,245.812	730.421
2010	5	2,430.108	104783.7626603250	109,281.914		2,068.043	2,430.108
2010	6	7,869.039	109233.9925733100	117,336.320		233.288	7,869.039
2010	7	16,533.412	110645.2736446570	127,179.871		1.186	16,533.412
2010	8	19,107.865	108329.1687284200	127,437.034		0.000	19,107.865
2010	9	15,634.747	113426.6367903660	129,070.309		8.925	15,634.747
2010	10	4,985.406	107866.4730129100	113,671.973		820.094	4,985.406
2010	11	695.436	103265.9105371520	108,938.475		4,977.129	695.436
2010	12	109.038	113944.6622005970	128,119.694		14,065.993	109.038

Commercial Model Output

Year	Month	Cool	Other	Total	Actual	Heat	Cool
2011	1	23.464	116406.4206932130	139,114.471		22,684.587	23.464
2011	2	2.627	107278.6992507590	129,617.356		22,336.030	2.627
2011	3	70.486	103442.5419896780	119,503.520		15,990.492	70.486
2011	4	734.660	104525.7196759520	113,558.770		8,298.390	734.660
2011	5	2,444.468	106643.9745611700	111,169.889		2,081.446	2,444.468
2011	6	7,918.479	111228.2689715890	119,381.635		234.888	7,918.479
2011	7	16,630.982	112574.3753715330	129,206.551		1.193	16,630.982
2011	8	19,228.649	110206.1036980610	129,434.753		0.000	19,228.649
2011	9	15,734.230	115392.6325432270	131,135.849		8.987	15,734.230
2011	10	5,016.725	109787.4557050590	115,629.896		825.715	5,016.725
2011	11	699.903	105184.8188962310	110,896.670		5,011.948	699.903
2011	12	109.756	116059.5648916570	130,335.949		14,166.628	109.756
2012	1	23.677	118428.3409324230	141,344.985		22,892.967	23.677
2012	2	2.650	109097.6787460530	131,640.972		22,540.643	2.650
2012	3	71.123	105225.7745602140	121,433.455		16,136.557	71.123
2012	4	740.677	106278.2434066120	115,385.990		8,367.070	740.677
2012	5	2,464.507	108375.9596291100	112,939.157		2,098.691	2,464.507
2012	6	7,983.468	113050.6224226520	121,270.926		236.836	7,983.468
2012	7	16,760.341	114327.5598484680	131,089.104		1.203	16,760.341
2012	8	19,379.248	111880.6649091670	131,259.913		0.000	19,379.248
2012	9	15,858.222	117147.9414932550	133,015.222		9.059	15,858.222
2012	10	5,056.148	111507.4071826370	117,395.830		832.276	5,056.148
2012	11	705.440	106895.9011160880	112,653.376		5,052.034	705.440
2012	12	110.631	117936.9063497430	132,328.314		14,280.777	110.631
2013	1	23.907	120511.4290198510	143,645.985		23,110.649	23.907
2013	2	2.675	110936.1675350620	133,685.411		22,746.568	2.675
2013	3	71.759	106992.2554825740	123,341.806		16,277.792	71.759
2013	4	747.201	108085.3483799690	117,271.736		8,439.186	747.201
2013	5	2,485.304	110123.1708847880	114,724.476		2,116.001	2,485.304
2013	6	8,047.516	114843.3604947170	123,129.568		238.691	8,047.516
2013	7	16,890.624	116069.0542349370	132,960.890		1.212	16,890.624
2013	8	19,522.308	113499.420773430	133,021.729		0.000	19,522.308
2013	9	15,969.722	118802.9910023160	134,781.833		9.121	15,969.722
2013	10	5,089.724	113090.873380450	119,018.242		837.645	5,089.724
2013	11	709.873	108429.7291112490	114,222.422		5,082.821	709.873
2013	12	111.282	119569.2128530380	134,042.590		14,362.096	111.282

Commercial Model Output

Year	Month	Cool	Other	Total	Actual	Heat	Cool
2014	1	24,078	122470.4449386920	145,763.482		23,268.960	24,078
2014	2	2,694	112701.9689073270	135,607.407		22,902.744	2,694
2014	3	72,274	108726.8056203720	125,188.896		16,389.817	72,274
2014	4	752,482	109862.0651859910	119,110.929		8,496.382	752,482
2014	5	2,502.898	111878.8482230180	116,512.114		2,130.369	2,502.898
2014	6	8,104.598	116690.3789793080	125,035.292		240.315	8,104.598
2014	7	17,008.013	117874.6101973970	134,883.843		1.220	17,008.013
2014	8	19,658.154	115218.8101086400	134,876.964		0.000	19,658.154
2014	9	16,080.969	120600.4164594880	136,690.567		9.181	16,080.969
2014	10	5,124.401	114837.5949379570	120,805.105		843.109	5,124.401
2014	11	714.710	110161.6487935990	115,992.345		5,115.986	714.710
2014	12	112,040	121462.3379803620	136,030.210		14,455.832	112,040
2015	1	24,134	124480.9321825320	147,875.834		23,370.768	24,134
2015	2	2,700	114507.0734174820	137,511.552		23,001.778	2,700
2015	3	72,435	110492.8335161820	127,025.097		16,459.828	72,435
2015	4	754,073	111669.7669547400	120,955.543		8,531.703	754,073
2015	5	2,508.055	113658.0763826410	118,305.240		2,139.109	2,508.055
2015	6	8,120.805	118553.8688810140	126,915.960		241.286	8,120.805
2015	7	17,041.379	119707.3765570650	136,749.980		1.225	17,041.379
2015	8	19,695.494	116956.7093091440	136,652.204		0.000	19,695.494
2015	9	16,110.618	122410.2694045320	138,530.104		9.217	16,110.618
2015	10	5,134.092	116617.4127151680	122,597.929		846.425	5,134.092
2015	11	716.019	111919.9147562450	117,771.736		5,135.802	716.019
2015	12	112,238	123376.3771860370	137,999.479		14,510.864	112,238
2016	1	24,144	126466.7979671330	149,925.568		23,434.626	24,144
2016	2	2,702	116293.4077911960	139,360.324		23,064.215	2,702
2016	3	72,463	112243.8656542490	128,820.534		16,504.205	72,463
2016	4	754,502	113493.7046298430	122,804.441		8,556.234	754,502
2016	5	2,509.427	115456.6919002940	120,111.332		2,145.213	2,509.427
2016	6	8,125.052	120441.6854128080	128,808.706		241.969	8,125.052
2016	7	17,052.833	121584.9680827140	138,639.030		1.229	17,052.833
2016	8	19,708.228	118740.9542218000	138,449.182		0.000	19,708.228
2016	9	16,120.664	124271.9956358830	140,401.904		9.244	16,120.664
2016	10	5,137.825	118454.4198732740	124,441.238		848.993	5,137.825
2016	11	716.523	113738.4641896450	119,606.247		5,151.260	716.523
2016	12	112,314	125360.6745960370	140,027.136		14,554.148	112,314

Commercial Model Output

Year	Month	Cool	Other	Total	Actual	Heat	Cool
2017	1	24,121	128352.4600950050	151,844.315		23,467.734	24,121
2017	2	2,699	117988.5517737230	141,087.449		23,096.198	2,699
2017	3	72,390	113904.4485340570	130,503.489		16,526.651	72,390
2017	4	753,701	115199.8285351920	124,520.991		8,567.462	753,701
2017	5	2,506.693	117138.2584242880	121,792.921		2,147.969	2,506.693
2017	6	8,115.951	122205.6246328860	130,563.848		242.272	8,115.951
2017	7	17,031.353	123308.0664600750	140,340.649		1.230	17,031.353
2017	8	19,682.822	120377.6519786050	140,060.474		0.000	19,682.822
2017	9	16,099.457	125979.0804546040	142,087.791		9.254	16,099.457
2017	10	5,129.946	120104.3633429820	126,084.015		849.706	5,129.946
2017	11	715.404	115371.1387914660	121,241.987		5,155.444	715.404
2017	12	112.135	127141.3149835200	141,818.975		14,565.525	112.135
2018	1	24,004	130074.1391638430	153,553.046		23,454.903	24,004
2018	2	2,686	119535.6625188150	142,621.258		23,082.910	2,686
2018	3	72,035	115419.3950498530	132,008.089		16,516.658	72,035
2018	4	749,861	116738.5127563820	126,048.943		8,560.569	749,861
2018	5	2,493.852	118654.2618164960	123,294.294		2,146.179	2,493.852
2018	6	8,074.116	123795.2643353240	132,111.443		242.063	8,074.116
2018	7	16,941.481	124860.8430020260	141,803.553		1.229	16,941.481
2018	8	19,578.352	121852.0083396030	141,430.361		0.000	19,578.352
2018	9	16,013.564	127516.3192650990	143,539.127		9.244	16,013.564
2018	10	5,102.412	121608.0434193650	127,559.245		848.789	5,102.412
2018	11	711.545	116858.6626824400	122,719.945		5,149.738	711.545
2018	12	111.527	128763.1415820600	143,423.619		14,548.950	111.527
2019	1	23,923	131679.3975692420	155,173.394		23,470.073	23,923
2019	2	2,677	120977.7618769160	144,077.598		23,097.159	2,677
2019	3	71,787	116831.1169486050	133,429.259		16,526.356	71,787
2019	4	747,299	118197.5048325270	127,510.728		8,565.924	747,299
2019	5	2,485.259	120091.4937101830	124,724.212		2,147.460	2,485.259
2019	6	8,046.033	125302.0092373440	133,590.242		242.199	8,046.033
2019	7	16,882.690	126346.8308040140	143,230.750		1.229	16,882.690
2019	8	19,509.819	123262.7913764980	142,772.611		0.000	19,509.819
2019	9	15,957.077	128987.1270751210	144,953.453		9.249	15,957.077
2019	10	5,084.264	123046.8008423740	128,980.266		849.201	5,084.264
2019	11	708.994	118281.7919412330	124,142.882		5,152.096	708.994
2019	12	111.124	130314.5545452800	144,980.844		14,555.166	111.124

Commercial Model Output

Year	Month	Cool	Other	Total	Actual	Heat	Cool
2020	1	23.835	133200.7743417070	156,742.381		23,517.771	23.835
2020	2	2.667	122348.8522359480	145,495.866		23,144.347	2.667
2020	3	71.527	118177.7024130620	134,809.530		16,560.301	71.527
2020	4	744.601	119586.2724419330	128,914.484		8,583.611	744.601
2020	5	2,476.312	121463.8071736970	126,092.035		2,151.916	2,476.312
2020	6	8,017.162	126745.7055887740	135,005.572		242.705	8,017.162
2020	7	16,822.558	127772.9154371340	144,596.705		1.232	16,822.558
2020	8	19,440.541	124621.1190634570	144,061.660		0.000	19,440.541
2020	9	15,900.569	130407.3820451640	146,317.220		9.269	15,900.569
2020	10	5,066.522	124445.2940678900	130,362.874		851.058	5,066.522
2020	11	706.527	119669.2154422280	125,539.153		5,163.410	706.527
2020	12	110.738	131832.0674912830	146,530.095		14,587.290	110.738
2021	1	23.804	134806.9563669710	158,426.642		23,595.881	23.804
2021	2	2.664	123802.9158305850	147,028.365		23,222.785	2.664
2021	3	71.442	119612.3517064080	136,301.368		16,617.575	71.442
2021	4	743.786	121074.5869830210	130,432.405		8,614.033	743.786
2021	5	2,473.769	122941.1550285200	127,574.616		2,159.691	2,473.769
2021	6	8,009.544	128307.7232922860	136,560.868		243.600	8,009.544
2021	7	16,807.754	129320.9333010920	146,129.924		1.237	16,807.754
2021	8	19,424.866	126102.6916774160	145,527.557		0.000	19,424.866
2021	9	15,888.795	131963.1349382170	147,861.235		9.305	15,888.795
2021	10	5,062.935	125974.5421921950	131,891.882		854.405	5,062.935
2021	11	706.075	121192.9921902490	127,083.138		5,184.070	706.075
2021	12	110.676	133506.7869816000	148,264.226		14,646.763	110.676
2022	1	23.782	136447.5083194840	160,161.620		23,690.330	23.782
2022	2	2.661	125286.9451850760	148,606.686		23,317.080	2.661
2022	3	71.384	121075.4245622720	137,832.840		16,686.032	71.384
2022	4	743.154	122578.7697544630	131,971.186		8,649.262	743.154
2022	5	2,471.812	124433.1646067940	129,073.627		2,168.650	2,471.812
2022	6	8,003.729	129883.9785964180	138,132.334		244.627	8,003.729
2022	7	16,795.280	130872.7095228700	147,669.232		1.242	16,795.280
2022	8	19,411.667	127586.7813207580	146,998.448		0.000	19,411.667
2022	9	15,878.890	133520.5341190770	149,408.769		9.345	15,878.890
2022	10	5,059.759	127501.1739965380	133,419.022		858.090	5,059.759
2022	11	705.672	122713.1873689470	128,625.587		5,206.728	705.672
2022	12	110.620	135176.3983281920	149,998.739		14,711.721	110.620

Commercial Model Output

Year	Month	Cool	Other	Total	Actual	Heat	Cool
2023	1	23.785	138139.8432431100	161,923.910		23,760.282	23.785
2023	2	2.662	126813.6339791180	150,202.754		23,386.458	2.662
2023	3	71.396	122576.3672085800	139,383.831		16,736.068	71.396
2023	4	743.264	124122.7931433770	133,541.063		8,675.006	743.264
2023	5	2,472.236	125960.5130620130	130,607.905		2,175.155	2,472.236
2023	6	8,005.309	131492.6801080420	139,743.356		245.367	8,005.309
2023	7	16,798.560	132458.1439010760	149,257.949		1.246	16,798.560
2023	8	19,415.942	129098.6747615840	148,514.617		0.000	19,415.942
2023	9	15,882.742	135103.0298328850	150,995.146		9.374	15,882.742
2023	10	5,061.046	129054.3151871430	134,976.097		860.735	5,061.046
2023	11	705.868	124255.7237088160	130,184.491		5,222.899	705.868
2023	12	110.653	136865.6287633570	151,734.075		14,757.793	110.653
2024	1	23.879	139841.2089219980	163,691.679		23,826.591	23.879
2024	2	2.672	128341.5892535850	151,795.166		23,450.904	2.672
2024	3	71.675	124071.6421229010	140,924.903		16,781.586	71.675
2024	4	746.138	125658.4873851760	135,102.860		8,698.234	746.138
2024	5	2,481.706	127472.6319091490	132,135.240		2,180.901	2,481.706
2024	6	8,035.651	133077.1340963830	141,358.790		246.005	8,035.651
2024	7	16,861.059	134011.2699990480	150,873.578		1.249	16,861.059
2024	8	19,487.420	130572.3125703830	150,059.733		0.000	19,487.420
2024	9	15,940.658	136638.5291060980	152,588.584		9.397	15,940.658
2024	10	5,079.078	130549.8205472650	136,491.677		862.779	5,079.078
2024	11	708.358	125734.0633835190	131,677.532		5,235.111	708.358
2024	12	111.039	138476.0953216640	153,378.837		14,791.702	111.039
2025	1	23.954	141472.7957622800	165,388.438		23,891.689	23.954
2025	2	2.680	129806.4426760490	153,323.246		23,514.123	2.680
2025	3	71.893	125504.7281106530	142,402.820		16,826.199	71.893
2025	4	748.337	127123.5126219280	136,592.384		8,720.535	748.337
2025	5	2,488.927	128914.7154960050	133,590.055		2,186.412	2,488.927
2025	6	8,058.700	134587.6736137610	142,892.990		246.617	8,058.700
2025	7	16,907.872	135488.5411726750	152,397.665		1.252	16,907.872
2025	8	19,540.749	131973.5514488720	151,514.300		0.000	19,540.749
2025	9	15,983.713	138098.1926982930	154,091.324		9.419	15,983.713
2025	10	5,092.343	131970.0527715380	137,927.098		864.702	5,092.343
2025	11	710.182	127137.6363358270	133,094.406		5,246.588	710.182
2025	12	111.320	140004.6789099960	154,939.529		14,823.529	111.320

Commercial Model Output

Year	Month	Cool	Other	Total	Actual	Heat	Cool
2026	1	24,042	142998.7925406430	166,987.478		23,964.643	24,042
2026	2	2,690	131177.2327070610	154,765.206		23,585.283	2,690
2026	3	72,155	126846.5351795000	143,795.340		16,876.650	72,155
2026	4	751,016	128498.5027819500	137,995.675		8,746.157	751,016
2026	5	2,497.770	130268.9680335960	134,959.513		2,192.776	2,497.770
2026	6	8,087.082	136007.1511109450	144,341.560		247.327	8,087.082
2026	7	16,966.399	136879.8156512340	153,847.470		1.255	16,966.399
2026	8	19,607.810	133294.0648221870	152,901.875		0.000	19,607.810
2026	9	16,038.142	139474.5596730220	155,522.147		9.445	16,038.142
2026	10	5,109.403	133312.5847560030	139,289.031		867.044	5,109.403
2026	11	712.542	128465.2346814030	134,438.430		5,260.654	712.542
2026	12	111.687	141451.5182599410	156,426.026		14,862.821	111.687
2027	1	24,121	144460.0727983560	168,527.577		24,043.383	24,121
2027	2	2,699	132491.6402622860	156,156.846		23,662.507	2,699
2027	3	72,388	128134.9180043430	145,139.017		16,931.711	72,388
2027	4	753,433	129823.4111932810	139,351.365		8,774.520	753,433
2027	5	2,505.781	131575.6668417800	136,281.309		2,199.861	2,505.781
2027	6	8,112.913	137378.8728519290	145,739.908		248.123	8,112.913
2027	7	17,020.357	138229.8352123380	155,251.451		1.259	17,020.357
2027	8	19,669.925	134577.3510881170	154,247.276		0.000	19,669.925
2027	9	16,088.771	140813.9340210640	156,912.180		9.475	16,088.771
2027	10	5,125.480	134624.3523751300	140,619.626		869.793	5,125.480
2027	11	714.776	129764.2206747410	135,756.271		5,277.274	714.776
2027	12	112,036	142869.3851468090	157,891.010		14,909.589	112,036
2028	1	24,160	145880.1369413390	170,013.773		24,109.476	24,160
2028	2	2,703	133772.8116762000	157,503.533		23,728.018	2,703
2028	3	72,510	129394.5843288310	146,446.022		16,978.928	72,510
2028	4	754,710	131123.4899893230	140,677.350		8,799.151	754,710
2028	5	2,510.075	132861.7812794600	137,577.937		2,206.080	2,510.075
2028	6	8,126.998	138733.5763085040	147,109.404		248.830	8,126.998
2028	7	17,049.887	139564.6895740690	156,615.839		1.263	17,049.887
2028	8	19,704.469	135850.3254363030	155,554.794		0.000	19,704.469
2028	9	16,117.331	142146.3854403450	158,273.218		9.502	16,117.331
2028	10	5,134.497	135928.5698031260	141,935.358		872.291	5,134.497
2028	11	716,047	131059.5504230040	137,068.132		5,292.534	716,047
2028	12	112,237	144287.9169542190	159,353.179		14,953.025	112,237

Commercial Model Output

Year	Month	Cool	Other	Total	Actual	Heat	Cool
2029	1	24,204	147302.8247947240	171,495.459		24,168.430	24,204
2029	2	2,708	135058.7689609600	158,848.428		23,786.950	2,708
2029	3	72,648	130661.3852014700	147,755.799		17,021.766	72,648
2029	4	756,142	132428.0287878590	142,005.482		8,821.311	756,142
2029	5	2,514.937	134154.7494275060	138,881.408		2,211.722	2,514.937
2029	6	8,143.093	140098.3639952300	148,490.934		249.477	8,143.093
2029	7	17,084.102	140913.0968718940	157,998.465		1.266	17,084.102
2029	8	19,744.832	137138.8076435100	156,883.640		0.000	19,744.832
2029	9	16,150.947	143497.4808114110	159,657.955		9.528	16,150.947
2029	10	5,145.453	137259.2085988600	143,279.355		874.694	5,145.453
2029	11	717.602	132383.5068559030	138,408.422		5,307.313	717.602
2029	12	112.486	145740.6994090160	160,848.600		14,995.415	112.486
2030	1	24,226	148734.9574498450	172,984.278		24,225.094	24,226
2030	2	2,711	136352.1660025140	160,198.293		23,843.416	2,711
2030	3	72,718	131934.4175843040	149,069.820		17,062.684	72,718
2030	4	756.925	133747.2677298920	143,347.233		8,843.040	756.925
2030	5	2,517.615	135461.1626620570	140,196.014		2,217.235	2,517.615
2030	6	8,152.035	141476.0295054060	149,878.171		250.107	8,152.035
2030	7	17,104.107	142280.4494346540	159,385.826		1.270	17,104.107
2030	8	19,768.578	138444.1714464290	158,212.750		0.000	19,768.578
2030	9	16,170.829	144865.1424146810	161,045.524		9.553	16,170.829
2030	10	5,152.184	138609.9833626270	144,639.255		877.087	5,152.184
2030	11	718.562	133726.3499774360	139,766.902		5,321.991	718.562
2030	12	112.640	147212.8154879980	162,362.825		15,037.370	112.640
2031	1	24,301	150372.9277427780	174,708.785		24,311.556	24,301
2031	2	2,719	137827.1495671420	161,758.374		23,928.505	2,719
2031	3	72,941	133381.8524146920	150,578.360		17,123.567	72,941
2031	4	759.253	135240.8212716760	144,874.820		8,874.746	759.253
2031	5	2,525.358	136935.8568270790	141,686.398		2,225.184	2,525.358
2031	6	8,177.099	143026.0675268160	151,454.170		251.003	8,177.099
2031	7	17,156.566	143807.0948569970	160,964.935		1.274	17,156.566
2031	8	19,829.195	139897.0888413290	159,726.284		0.000	19,829.195
2031	9	16,220.403	146383.1862383700	162,613.176		9.587	16,220.403
2031	10	5,167.823	140094.3615163460	146,142.381		880.196	5,167.823
2031	11	720.742	135197.8803796840	141,259.475		5,340.852	720.742
2031	12	112.982	148820.9866819340	164,024.619		15,090.651	112.982

Commercial Model Output

Year	Month	Cool	Other	Total	Actual	Heat	Cool
2032	1	24.373	152027.3171037900	176,448.194		24,396.504	24.373
2032	2	2.727	139314.2791208080	163,328.628		24,011.622	2.727
2032	3	73.155	134838.5505937770	152,094.390		17,182.684	73.155
2032	4	761.452	136735.4375213770	146,401.855		8,904.965	761.452
2032	5	2,532.617	138408.9056909470	143,174.237		2,232.714	2,532.617
2032	6	8,200.411	144571.2078989540	153,023.466		251.847	8,200.411
2032	7	17,204.796	145324.5252724250	162,530.600		1.278	17,204.796
2032	8	19,884.485	141338.3829739360	161,222.868		0.000	19,884.485
2032	9	16,265.298	147886.4164032820	164,161.333		9.619	16,265.298
2032	10	5,182.019	141565.3703604450	147,630.452		883.063	5,182.019
2032	11	722.707	136653.4868334510	142,734.324		5,358.131	722.707
2032	12	113.287	150408.5010810600	165,660.905		15,139.117	113.287
2033	1	24.439	153668.0373595270	178,167.386		24,474.910	24.439
2033	2	2.735	140790.5041440980	164,881.800		24,088.561	2.735
2033	3	73.352	136285.9614132980	153,596.887		17,237.574	73.352
2033	4	763.502	138227.7287130850	147,924.714		8,933.483	763.502
2033	5	2,539.413	139881.1270785690	144,660.383		2,239.842	2,539.413
2033	6	8,222.329	146117.2052299260	154,592.182		252.648	8,222.329
2033	7	17,250.980	146849.7205506570	164,101.983		1.282	17,250.980
2033	8	19,937.658	142788.6422578560	162,726.300		0.000	19,937.658
2033	9	16,308.644	149400.4876447550	165,718.780		9.649	16,308.644
2033	10	5,195.890	143051.3401186050	149,133.107		885.876	5,195.890
2033	11	724.635	138125.4179020510	144,225.205		5,375.153	724.635
2033	12	113.588	152015.6759889480	167,316.317		15,187.053	113.588
2034	1	24.505	155334.4162396790	179,912.245		24,553.324	24.505
2034	2	2.742	142292.0013640120	166,460.646		24,165.902	2.742
2034	3	73.551	137760.3521731460	155,126.942		17,293.040	73.551
2034	4	765.612	139754.2460782650	149,482.579		8,962.721	765.612
2034	5	2,546.449	141389.3440384320	146,182.982		2,247.189	2,546.449
2034	6	8,245.174	147703.6251418740	156,202.278		253.479	8,245.174
2034	7	17,300.335	148424.6139047500	165,726.235		1.287	17,300.335
2034	8	19,994.853	144288.5495300350	164,283.403		0.000	19,994.853
2034	9	16,355.542	150968.6303692540	167,333.854		9.682	16,355.542
2034	10	5,211.370	144602.7394365690	150,703.076		888.967	5,211.370
2034	11	726.799	139664.3968716040	145,785.139		5,393.943	726.799
2034	12	113.928	153698.7862692400	169,052.980		15,240.265	113.928

Commercial Model Output

Year	Month	Cool	Other	Total	Actual	Heat	Cool
2035	1	24,581	157088.6813903910	181,755.088		24,641.825	24,581
2035	2	2,751	143871.8926522360	168,127.679		24,253.036	2,751
2035	3	73,778	139310.9212892730	156,740.112		17,355.413	73,778
2035	4	768,051	141363.9883036360	151,127.881		8,995.841	768,051
2035	5	2,554.565	142978.9860017060	147,789.047		2,255.496	2,554.565
2035	6	8,271.465	149374.7497804880	157,900.631		254.416	8,271.465
2035	7	17,356.569	150080.3600846300	167,438.220		1.292	17,356.569
2035	8	20,059.876	145864.5943221250	165,924.470		0.000	20,059.876
2035	9	16,408.751	152615.5653075020	169,034.035		9.718	16,408.751
2035	10	5,228.485	146221.7598238680	152,342.584		892.339	5,228.485
2035	11	729.187	141269.6614869930	147,413.262		5,414.414	729.187
2035	12	114.303	155453.4233301200	170,865.853		15,298.127	114.303
2036	1	24,662	158902.7530098520	183,662.965		24,735.551	24,662
2036	2	2,760	145504.9303183500	169,852.874		24,345.184	2,760
2036	3	74,021	140912.9308385690	158,408.234		17,421.282	74,021
2036	4	770,568	143013.4199587750	152,813.884		9,029.896	770,568
2036	5	2,562.924	144607.0734958110	149,434.022		2,264.025	2,562.924
2036	6	8,298.491	151085.4110625940	159,639.280		255.377	8,298.491
2036	7	17,412.772	151762.3527654820	169,176.421		1.296	17,412.772
2036	8	20,124.745	147464.8327221980	167,589.578		0.000	20,124.745
2036	9	16,461.749	154287.0437460140	170,758.548		9.755	16,461.749
2036	10	5,245.187	147855.7774910520	153,996.609		895.644	5,245.187
2036	11	731.513	142889.0628172870	149,055.023		5,434.447	731.513
2036	12	114.667	157222.6194362760	172,691.949		15,354.663	114.667
2037	1	24,739	160723.6774716320	185,574.210		24,825.793	24,739
2037	2	2,768	147144.0384234420	171,580.696		24,433.889	2,768
2037	3	74,252	142520.7963753750	160,079.724		17,484.675	74,252
2037	4	772.937	144662.6029192820	154,497.806		9,062.266	772.937
2037	5	2,570.793	146234.8145938710	151,077.738		2,272.130	2,570.793
2037	6	8,323.927	152795.5897633320	161,375.807		256.290	8,323.927
2037	7	17,465.234	153440.4529745200	170,906.987		1.301	17,465.234
2037	8	20,185.272	149061.2370412020	169,246.509		0.000	20,185.272
2037	9	16,511.183	155954.3950731960	172,475.367		9.789	16,511.183
2037	10	5,260.632	149482.4307973840	155,641.801		898.738	5,260.632
2037	11	733.664	144501.0315342320	150,687.887		5,453.192	733.664
2037	12	115.003	158983.5320027900	174,506.078		15,407.542	115.003

Commercial Model Output

Year	Month	Cool	Other	Total	Actual	Heat	Cool
2038	1	24,817	162577.5994437500	187,519.136		24,916.720	24,817
2038	2	2,777	148813.2569999850	173,339.372		24,523.338	2,777
2038	3	74,486	144158.6087675850	161,781.748		17,548.653	74,486
2038	4	775,333	146342.9818580820	156,213.282		9,094.968	775,333
2038	5	2,578,756	147893.7665755890	152,752.848		2,280.325	2,578,756
2038	6	8,349,693	154539.0545159960	163,145.962		257.214	8,349,693
2038	7	17,518,465	155151.8780100090	172,671.648		1.306	17,518,465
2038	8	20,246,757	150689.8124455750	170,936.570		0.000	20,246,757
2038	9	16,561,450	157655.7857218670	174,227.059		9,824	16,561,450
2038	10	5,276,368	151143.0094232490	157,321.262		901,884	5,276,368
2038	11	735,857	146147.0710767990	152,355.202		5,472.273	735,857
2038	12	115,347	160782.2141039500	176,358.990		15,461,429	115,347

Commercial Model Output

Year	Month	Other	Total
1996	1	83187.9649749229	113,206.017
1996	2	82272.1466955832	109,167.277
1996	3	77426.6134102239	95,628.277
1996	4	78376.4698206297	91,701.166
1996	5	91823.5398929679	98,296.369
1996	6	76703.4192905902	85,395.121
1996	7	82792.9493170685	98,462.362
1996	8	83575.8823171502	97,278.152
1996	9	86037.8878994575	98,444.855
1996	10	79582.8464835970	82,694.937
1996	11	79984.2794442190	87,310.544
1996	12	85833.2185847171	105,129.328
1997	1	92253.9985335338	113,474.389
1997	2	79371.4473710934	102,454.941
1997	3	78369.8880606118	90,988.450
1997	4	76320.4156989429	84,898.022
1997	5	76307.4528286177	80,429.332
1997	6	80474.7359472363	83,911.029
1997	7	89179.2768616442	102,380.735
1997	8	85285.8651241769	100,758.810
1997	9	89294.4920963309	98,072.327
1997	10	83606.1927643782	86,935.310
1997	11	67505.4805665358	76,773.356
1997	12	99843.5395836922	117,639.986
1998	1	88291.7913861097	107,446.684
1998	2	81132.8009921488	99,409.464
1998	3	70770.8081219781	85,160.544
1998	4	84094.2327614314	95,019.595
1998	5	84518.7010577050	87,043.618
1998	6	86331.1733063985	93,873.460
1998	7	93222.0031689519	109,127.900
1998	8	88212.6089630405	103,820.228
1998	9	92416.2965508838	108,251.820
1998	10	85833.2892721767	95,623.330
1998	11	84099.6451494673	89,644.236
1998	12	94787.4677460339	105,092.925

Commercial Model Output

Year	Month	Other	Total
1999	1	91512.1799893996	117,449.214
1999	2	83282.4357331494	99,527.085
1999	3	84792.6008263650	103,864.941
1999	4	83402.1079463915	94,106.931
1999	5	84222.5215352479	87,169.352
1999	6	88545.7715928080	97,019.424
1999	7	90207.1620924624	109,599.402
1999	8	88715.9115931619	111,619.735
1999	9	88783.6248137827	100,983.541
1999	10	92085.7062401892	95,125.923
1999	11	82699.6748397639	87,415.277
1999	12	94357.7485583929	106,592.843
2000	1	93762.9183283944	116,047.526
2000	2	87585.2320058510	114,186.445
2000	3	87476.1256440580	97,738.698
2000	4	83897.2770607340	89,933.021
2000	5	87573.9588947214	92,491.053
2000	6	96665.1910332686	104,856.512
2000	7	93409.1326449458	108,139.356
2000	8	96505.3985200200	108,808.599
2000	9	100762.8428840060	111,962.571
2000	10	91200.6708770410	96,372.646
2000	11	86736.5605904816	91,910.570
2000	12	94500.2500870686	116,962.002
2001	1	100013.3042147400	133,855.099
2001	2	89886.9686237920	113,502.985
2001	3	86549.5810731418	102,783.439
2001	4	86505.9298178349	100,194.170
2001	5	91272.2998812823	97,747.035
2001	6	95006.1645659845	100,454.096
2001	7	96592.3556478552	109,764.201
2001	8	95135.4538286463	113,401.689
2001	9	98880.7005847142	113,736.599
2001	10	91298.2750960558	95,920.901
2001	11	89889.9811978073	95,928.175
2001	12	97659.8930952913	104,780.728

Commercial Model Output

Year	Month	Other	Total
2002	1	99869.1018204581	123,908.849
2002	2	90161.2004319371	108,018.632
2002	3	91647.5113416372	107,309.834
2002	4	92865.2739897456	102,537.198
2002	5	90787.4772062730	95,971.433
2002	6	95856.0442426611	105,281.480
2002	7	99172.6684931465	117,418.613
2002	8	97311.2294070755	119,368.151
2002	9	99330.3590484488	119,695.342
2002	10	96288.2387709482	104,899.305
2002	11	89219.5608829596	96,109.986
2002	12	97223.8241353062	117,232.396
2003	1	102803.3177088510	126,690.479
2003	2	92717.7144970394	122,779.645
2003	3	90535.4670459801	110,450.623
2003	4	91744.2443728736	98,087.839
2003	5	95298.3445542465	98,693.053
2003	6	99019.9898639851	102,213.915
2003	7	99365.0842941219	112,755.640
2003	8	97577.3032731811	112,586.731
2003	9	105297.9845354530	120,287.932
2003	10	97933.4773692570	101,482.944
2003	11	91825.2887645707	96,076.452
2003	12	101546.6959799630	116,012.153
2004	1	107623.5232121640	131,261.208
2004	2	98086.1854060647	125,201.652
2004	3	93527.2696174200	109,248.068
2004	4	96203.9812684882	106,039.027
2004	5	96463.2085914391	102,893.619
2004	6	105045.1366469250	117,520.056
2004	7	103509.5846347830	118,976.058
2004	8	99792.3733757840	114,443.781
2004	9	104195.378774130	117,319.080
2004	10	101562.8649270730	105,855.611
2004	11	95707.3162712596	98,814.807
2004	12	105643.0062487110	117,815.552

Commercial Model Output

Year	Month	Other	Total
2005	1	109635.4986822060	129,923.747
2005	2	102485.1966402550	124,572.174
2005	3	99012.1220712859	117,738.854
2005	4	99335.9204633503	108,703.503
2005	5	96343.6184457340	100,091.466
2005	6	104365.5356974760	112,547.882
2005	7	101691.4242122630	123,433.600
2005	8	101713.4468249470	128,530.449
2005	9	108418.9104801440	129,452.716
2005	10	103330.9660125050	112,861.111
2005	11	99840.3946655412	105,939.343
2005	12	107320.9068047810	127,394.438
2006	1	115386.7298381620	135,491.865
2006	2	105495.5792595040	120,935.026
2006	3	96610.1034341583	113,477.407
2006	4	94903.5768941659	104,629.615
2006	5	101505.3798929470	103,898.105
2006	6	105442.9561882400	112,025.548
2006	7	106118.9199225610	121,843.927
2006	8	102495.7919730370	125,800.380
2006	9	111550.9044351340	127,451.376
2006	10	103537.9888931240	107,090.517
2006	11	98037.8102930006	105,875.300
2006	12	108133.8657541850	121,307.334
2007	1	112873.970002680	127,171.780
2007	2	106523.2606429930	132,079.582
2007	3	100657.6849631290	122,153.425
2007	4	102974.5128517800	112,596.647
2007	5	103579.9995748990	109,476.174
2007	6	106944.7353906420	117,861.062
2007	7	104856.3698214220	122,280.244
2007	8	105209.1396689280	125,107.341
2007	9	112460.9823234800	135,178.765
2007	10	106179.8378398020	116,735.402
2007	11	102400.2301694960	108,929.699
2007	12	108390.0440062600	122,828.829

Commercial Model Output

Year	Month	Other	Total
2008	1	116088.2260677600	135,988.541
2008	2	107228.1264207850	128,780.732
2008	3	104197.0240439690	122,687.264
2008	4	104073.3590074660	112,736.807
2008	5	100398.5185754030	103,319.366
2008	6	108072.2935686300	114,938.687
2008	7	109010.0281783210	122,829.355
2008	8	108432.3977102580	124,863.559
2008	9	111622.6839916800	127,141.733
2008	10	105276.4261668410	111,421.466
2008	11	101762.7917475270	107,492.662
2008	12	112199.4752893460	126,509.042
2009	1	113581.6091193630	136,172.550
2009	2	104674.5048082490	126,884.135
2009	3	100786.4846314820	116,738.695
2009	4	101465.8816159810	110,415.472
2009	5	103597.6020983290	108,101.464
2009	6	107978.8642474300	116,124.154
2009	7	109151.2233242360	125,735.588
2009	8	106867.3867668700	126,024.729
2009	9	111866.3852351440	127,545.352
2009	10	106208.7151348340	112,011.970
2009	11	101619.1339102410	107,249.651
2009	12	112097.5754235570	126,145.805
2010	1	114253.6308122850	136,796.934
2010	2	105342.0723138380	127,519.287
2010	3	101545.6282596790	117,491.304
2010	4	102652.8061005090	111,629.039
2010	5	104783.7626603250	109,281.914
2010	6	109233.9925733100	117,336.320
2010	7	110645.2736446570	127,179.871
2010	8	108329.1687284200	127,437.034
2010	9	113426.6367903660	129,070.309
2010	10	107866.4730129100	113,671.973
2010	11	103265.9105371520	108,938.475
2010	12	113944.6622005970	128,119.694

Commercial Model Output

Year	Month	Other	Total
2011	1	116406.4206932130	139,114.471
2011	2	107278.6992507590	129,617.356
2011	3	103442.5419896780	119,503.520
2011	4	104525.7196759520	113,558.770
2011	5	106643.9745611700	111,169.889
2011	6	111228.2689715890	119,381.635
2011	7	112574.3753715330	129,206.551
2011	8	110206.1036980610	129,434.753
2011	9	115392.6325432270	131,135.849
2011	10	109787.4557050590	115,629.896
2011	11	105184.8188962310	110,896.670
2011	12	116059.5648916570	130,335.949
2012	1	118428.3409324230	141,344.985
2012	2	109097.6787460530	131,640.972
2012	3	105225.7745602140	121,433.455
2012	4	106278.2434066120	115,385.990
2012	5	108375.9596291100	112,939.157
2012	6	113050.6224226520	121,270.926
2012	7	114327.5598484680	131,089.104
2012	8	111880.6649091670	131,259.913
2012	9	117147.9414932550	133,015.222
2012	10	111507.4071826370	117,395.830
2012	11	106895.9011160880	112,653.376
2012	12	117936.9063497430	132,328.314
2013	1	120511.4290198510	143,645.985
2013	2	110936.1675350620	133,685.411
2013	3	106992.2554825740	123,341.806
2013	4	108085.3483799690	117,271.736
2013	5	110123.1708847880	114,724.476
2013	6	114843.3604947170	123,129.568
2013	7	116069.0542349370	132,960.890
2013	8	113499.420773430	133,021.729
2013	9	118802.9910023160	134,781.833
2013	10	113090.8733380450	119,018.242
2013	11	108429.7291112490	114,222.422
2013	12	119569.2128530380	134,042.590

Commercial Model Output

Year	Month	Other	Total
2014	1	122470.4449386920	145,763.482
2014	2	112701.9689073270	135,607.407
2014	3	108726.8056203720	125,188.896
2014	4	109862.0651859910	119,110.929
2014	5	111878.8482230180	116,512.114
2014	6	116690.3789793080	125,035.292
2014	7	117874.6101973970	134,883.843
2014	8	115218.8101086400	134,876.964
2014	9	120600.4164594880	136,690.567
2014	10	114837.5949379570	120,805.105
2014	11	110161.6487935990	115,992.345
2014	12	121462.3379803620	136,030.210
2015	1	124480.9321825320	147,875.834
2015	2	114507.0734174820	137,511.552
2015	3	110492.8335161820	127,025.097
2015	4	111669.7669547400	120,955.543
2015	5	113658.0763826410	118,305.240
2015	6	118553.8688810140	126,915.960
2015	7	119707.3765570650	136,749.980
2015	8	116956.7093091440	136,652.204
2015	9	122410.2694045320	138,530.104
2015	10	116617.4127151680	122,597.929
2015	11	111919.9147562450	117,771.736
2015	12	123376.3771860370	137,999.479
2016	1	126466.7979671330	149,925.568
2016	2	116293.4077911960	139,360.324
2016	3	112243.8656542490	128,820.534
2016	4	113493.7046298430	122,804.441
2016	5	115456.6919002940	120,111.332
2016	6	120441.6854128080	128,808.706
2016	7	121584.9680827140	138,639.030
2016	8	118740.9542218000	138,449.182
2016	9	124271.9956358830	140,401.904
2016	10	118454.4198732740	124,441.238
2016	11	113738.4641896450	119,606.247
2016	12	125360.6745960370	140,027.136

Commercial Model Output

Year	Month	Other	Total
2017	1	128352.4600950050	151,844.315
2017	2	117988.5517737230	141,087.449
2017	3	113904.4485340570	130,503.489
2017	4	115199.8285351920	124,520.991
2017	5	117138.2584242880	121,792.921
2017	6	122205.6246328860	130,563.848
2017	7	123308.0664600750	140,340.649
2017	8	120377.6519786050	140,060.474
2017	9	125979.0804546040	142,087.791
2017	10	120104.3633429820	126,084.015
2017	11	115371.1387914660	121,241.987
2017	12	127141.3149835200	141,818.975
2018	1	130074.1391638430	153,553.046
2018	2	119535.6625188150	142,621.258
2018	3	115419.3950498530	132,008.089
2018	4	116738.5127563820	126,048.943
2018	5	118654.2618164960	123,294.294
2018	6	123795.2643353240	132,111.443
2018	7	124860.8430020260	141,803.553
2018	8	121852.0083396030	141,430.361
2018	9	127516.3192650990	143,539.127
2018	10	121608.0434193650	127,559.245
2018	11	116858.6626824400	122,719.945
2018	12	128763.1415820600	143,423.619
2019	1	131679.3975692420	155,173.394
2019	2	120977.7618769160	144,077.598
2019	3	116831.1169486050	133,429.259
2019	4	118197.5048325270	127,510.728
2019	5	120091.4937101830	124,724.212
2019	6	125302.0092373440	133,590.242
2019	7	126346.8308040140	143,230.750
2019	8	123262.7913764980	142,772.611
2019	9	128987.1270751210	144,953.453
2019	10	123046.8008423740	128,980.266
2019	11	118281.7919412330	124,142.882
2019	12	130314.5545452800	144,980.844

Commercial Model Output

Year	Month	Other	Total
2020	1	133200.7743417070	156,742.381
2020	2	122348.8522359480	145,495.866
2020	3	118177.7024130620	134,809.530
2020	4	119586.2724419330	128,914.484
2020	5	121463.8071736970	126,092.035
2020	6	126745.7055887740	135,005.572
2020	7	127772.9154371340	144,596.705
2020	8	124621.1190634570	144,061.660
2020	9	130407.3820451640	146,317.220
2020	10	124445.2940678900	130,362.874
2020	11	119669.2154422280	125,539.153
2020	12	131832.0674912830	146,530.095
2021	1	134806.9563669710	158,426.642
2021	2	123802.9158305850	147,028.365
2021	3	119612.3517064080	136,301.368
2021	4	121074.5869830210	130,432.405
2021	5	122941.1550285200	127,574.616
2021	6	128307.7232922860	136,560.868
2021	7	129320.9333010920	146,129.924
2021	8	126102.6916774160	145,527.557
2021	9	131963.1349382170	147,861.235
2021	10	125974.5421921950	131,891.882
2021	11	121192.9921902490	127,083.138
2021	12	133506.7869816000	148,264.226
2022	1	136447.5083194840	160,161.620
2022	2	125286.9451850760	148,606.686
2022	3	121075.4245622720	137,832.840
2022	4	122578.7697544630	131,971.186
2022	5	124433.1646067940	129,073.627
2022	6	129883.9785964180	138,132.334
2022	7	130872.7095228700	147,669.232
2022	8	127586.7813207580	146,998.448
2022	9	133520.5341190770	149,408.769
2022	10	127501.1739965380	133,419.022
2022	11	122713.1873689470	128,625.587
2022	12	135176.3983281920	149,998.739

Commercial Model Output

Year	Month	Other	Total
2023	1	138139.8432431100	161,923.910
2023	2	126813.6339791180	150,202.754
2023	3	122576.3672085800	139,383.831
2023	4	124122.7931433770	133,541.063
2023	5	125960.5130620130	130,607.905
2023	6	131492.6801080420	139,743.356
2023	7	132458.1439010760	149,257.949
2023	8	129098.6747615840	148,514.617
2023	9	135103.0298328850	150,995.146
2023	10	129054.3151871430	134,976.097
2023	11	124255.7237088160	130,184.491
2023	12	136865.6287633570	151,734.075
2024	1	139841.2089219980	163,691.679
2024	2	128341.5892535850	151,795.166
2024	3	124071.6421229010	140,924.903
2024	4	125658.4873851760	135,102.860
2024	5	127472.6319091490	132,135.240
2024	6	133077.1340963830	141,358.790
2024	7	134011.2699990480	150,873.578
2024	8	130572.3125703830	150,059.733
2024	9	136638.5291060980	152,588.584
2024	10	130549.8205472650	136,491.677
2024	11	125734.0633835190	131,677.532
2024	12	138476.0953216640	153,378.837
2025	1	141472.7957622800	165,388.438
2025	2	129806.4426760490	153,323.246
2025	3	125504.7281106530	142,402.820
2025	4	127123.5126219280	136,592.384
2025	5	128914.7154960050	133,590.055
2025	6	134587.6736137610	142,892.990
2025	7	135488.5411726750	152,397.665
2025	8	131973.5514488720	151,514.300
2025	9	138098.1926982930	154,091.324
2025	10	131970.0527715380	137,927.098
2025	11	127137.6363358270	133,094.406
2025	12	140004.6789099960	154,939.529

Commercial Model Output

Year	Month	Other	Total
2026	1	142998.7925406430	166,987.478
2026	2	131177.2327070610	154,765.206
2026	3	126846.5351795000	143,795.340
2026	4	128498.5027819500	137,995.675
2026	5	130268.9680335960	134,959.513
2026	6	136007.1511109450	144,341.560
2026	7	136879.8156512340	153,847.470
2026	8	133294.0648221870	152,901.875
2026	9	139474.5596730220	155,522.147
2026	10	133312.5847560030	139,289.031
2026	11	128465.2346814030	134,438.430
2026	12	141451.5182599410	156,426.026
2027	1	144460.0727983560	168,527.577
2027	2	132491.6402622860	156,156.846
2027	3	128134.9180043430	145,139.017
2027	4	129823.411932810	139,351.365
2027	5	131575.6668417800	136,281.309
2027	6	137378.8728519290	145,739.908
2027	7	138229.8352123380	155,251.451
2027	8	134577.3510881170	154,247.276
2027	9	140813.9340210640	156,912.180
2027	10	134624.3523751300	140,619.626
2027	11	129764.2206747410	135,756.271
2027	12	142869.3851468090	157,891.010
2028	1	145880.1369413390	170,013.773
2028	2	133772.8116762000	157,503.533
2028	3	129394.5843288310	146,446.022
2028	4	131123.4899893230	140,677.350
2028	5	132861.7812794600	137,577.937
2028	6	138733.5763085040	147,109.404
2028	7	139564.6895740690	156,615.839
2028	8	135850.3254363030	155,554.794
2028	9	142146.3854403450	158,273.218
2028	10	135928.5698031260	141,935.358
2028	11	131059.5504230040	137,068.132
2028	12	144287.9169542190	159,353.179

Commercial Model Output

Year	Month	Other	Total
2029	1	147302.8247947240	171,495.459
2029	2	135058.7689609600	158,848.428
2029	3	130661.3852014700	147,755.799
2029	4	132428.0287878590	142,005.482
2029	5	134154.7494275060	138,881.408
2029	6	140098.3639952300	148,490.934
2029	7	140913.0968718940	157,998.465
2029	8	137138.8076435100	156,883.640
2029	9	143497.4808114110	159,657.955
2029	10	137259.2085988600	143,279.355
2029	11	132383.5068559030	138,408.422
2029	12	145740.6994090160	160,848.600
2030	1	148734.9574498450	172,984.278
2030	2	136352.1660025140	160,198.293
2030	3	131934.4175843040	149,069.820
2030	4	133747.2677298920	143,347.233
2030	5	135461.1626620570	140,196.014
2030	6	141476.0295054060	149,878.171
2030	7	142280.4494346540	159,385.826
2030	8	138444.1714464290	158,212.750
2030	9	144865.1424146810	161,045.524
2030	10	138609.9833626270	144,639.255
2030	11	133726.3499774360	139,766.902
2030	12	147212.8154879980	162,362.825
2031	1	150372.9277427780	174,708.785
2031	2	137827.1495671420	161,758.374
2031	3	133381.8524146920	150,578.360
2031	4	135240.8212716760	144,874.820
2031	5	136935.8568270790	141,686.398
2031	6	143026.0675268160	151,454.170
2031	7	143807.0948569970	160,964.935
2031	8	139897.0888413290	159,726.284
2031	9	146383.1862383700	162,613.176
2031	10	140094.3615163460	146,142.381
2031	11	135197.8803796840	141,259.475
2031	12	148820.9866819340	164,024.619

Commercial Model Output

Year	Month	Other	Total
2032	1	152027.3171037900	176,448.194
2032	2	139314.2791208080	163,328.628
2032	3	134838.5505937770	152,094.390
2032	4	136735.4375213770	146,401.855
2032	5	138408.9056909470	143,174.237
2032	6	144571.2078989540	153,023.466
2032	7	145324.5252724250	162,530.600
2032	8	141338.3829739360	161,222.868
2032	9	147886.4164032820	164,161.333
2032	10	141565.3703604450	147,630.452
2032	11	136653.4868334510	142,734.324
2032	12	150408.5010810600	165,660.905
2033	1	153668.0373595270	178,167.386
2033	2	140790.5041440980	164,881.800
2033	3	136285.9614132980	153,596.887
2033	4	138227.7287130850	147,924.714
2033	5	139881.1270785690	144,660.383
2033	6	146117.2052299260	154,592.182
2033	7	146849.7205506570	164,101.983
2033	8	142788.6422578560	162,726.300
2033	9	149400.4876447550	165,718.780
2033	10	143051.3401186050	149,133.107
2033	11	138125.4179020510	144,225.205
2033	12	152015.6759889480	167,316.317
2034	1	155334.4162396790	179,912.245
2034	2	142292.0013640120	166,460.646
2034	3	137760.3521731460	155,126.942
2034	4	139754.2460782650	149,482.579
2034	5	141389.3440384320	146,182.982
2034	6	147703.6251418740	156,202.278
2034	7	148424.6139047500	165,726.235
2034	8	144288.5495300350	164,283.403
2034	9	150968.6303692540	167,333.854
2034	10	144602.7394365690	150,703.076
2034	11	139664.3968716040	145,785.139
2034	12	153698.7862692400	169,052.980

Commercial Model Output

Year	Month	Other	Total
2035	1	157088.6813903910	181,755.088
2035	2	143871.8926522360	168,127.679
2035	3	139310.9212892730	156,740.112
2035	4	141363.9883036360	151,127.881
2035	5	142978.9860017060	147,789.047
2035	6	149374.7497804880	157,900.631
2035	7	150080.3600846300	167,438.220
2035	8	145864.5943221250	165,924.470
2035	9	152615.5653075020	169,034.035
2035	10	146221.7598238680	152,342.584
2035	11	141269.6614869930	147,413.262
2035	12	155453.4233301200	170,865.853
2036	1	158902.7530098520	183,662.965
2036	2	145504.9303183500	169,852.874
2036	3	140912.9308385690	158,408.234
2036	4	143013.4199587750	152,813.884
2036	5	144607.0734958110	149,434.022
2036	6	151085.4110625940	159,639.280
2036	7	151762.3527654820	169,176.421
2036	8	147464.8327221980	167,589.578
2036	9	154287.0437460140	170,758.548
2036	10	147855.7774910520	153,996.609
2036	11	142889.0628172870	149,055.023
2036	12	157222.6194362760	172,691.949
2037	1	160723.6774716320	185,574.210
2037	2	147144.0384234420	171,580.696
2037	3	142520.7963753750	160,079.724
2037	4	144662.6029192820	154,497.806
2037	5	146234.8145938710	151,077.738
2037	6	152795.5897633320	161,375.807
2037	7	153440.4529745200	170,906.987
2037	8	149061.2370412020	169,246.509
2037	9	155954.3950731960	172,475.367
2037	10	149482.4307973840	155,641.801
2037	11	144501.0315342320	150,687.887
2037	12	158983.5320027900	174,506.078

Commercial Model Output

Year	Month	Other	Total
2038	1	162577.5994437500	187,519.136
2038	2	148813.2569999850	173,339.372
2038	3	144158.6087675850	161,781.748
2038	4	146342.9818580820	156,213.282
2038	5	147893.7665755890	152,752.848
2038	6	154539.0545159960	163,145.962
2038	7	155151.8780100090	172,671.648
2038	8	150689.8124455750	170,936.570
2038	9	157655.7857218670	174,227.059
2038	10	151143.0094232490	157,321.262
2038	11	146147.0710767990	152,355.202
2038	12	160782.2141039500	176,358.990

LONG-TERM INDUSTRIAL

KENTUCKY POWER COMPANY
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

The MEANS Procedure

Variable	Label	Mean
Year	Year	2011.00
qtr	Qtr	2.5000000
eix_KPC	BILLED KWH	477.7607459

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 ENDOGENOUS VARIABLES

Obs	Year	qtr	eix_KPC
1	1984	1	394.166
2	1984	2	425.418
3	1984	3	416.813
4	1984	4	401.053
5	1985	1	404.892
6	1985	2	376.362
7	1985	3	380.363
8	1985	4	389.069
9	1986	1	369.196
10	1986	2	384.909
11	1986	3	371.79
12	1986	4	423.909
13	1987	1	416.029
14	1987	2	426.821
15	1987	3	439.361
16	1987	4	459.084
17	1988	1	465.237
18	1988	2	459.917
19	1988	3	461.157
20	1988	4	469.499
21	1989	1	432.185
22	1989	2	462.327
23	1989	3	466.852
24	1989	4	434.278
25	1990	1	451.081
26	1990	2	462.465
27	1990	3	474.41
28	1990	4	453.296
29	1991	1	419.746
30	1991	2	436.868
31	1991	3	457.964
32	1991	4	467.044
33	1992	1	453.359
34	1992	2	463.697
35	1992	3	418.721

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 ENDOGENOUS VARIABLES

Obs	Year	qtr	eix_KPC
36	1992	4	425.945
37	1993	1	410.493
38	1993	2	428.008
39	1993	3	422.856
40	1993	4	440.35
41	1994	1	406.928
42	1994	2	447.181
43	1994	3	452.597
44	1994	4	456.828
45	1995	1	461.172
46	1995	2	465.619
47	1995	3	480.358
48	1995	4	499.167
49	1996	1	466.5376
50	1996	2	505.1213
51	1996	3	496.91
52	1996	4	512.88
53	1997	1	485.0344
54	1997	2	518.5505
55	1997	3	502.702
56	1997	4	515.3001
57	1998	1	512.6638
58	1998	2	511.972
59	1998	3	498.6361
60	1998	4	512.4991
61	1999	1	493.3401
62	1999	2	514.1082
63	1999	3	509.3708
64	1999	4	486.1343
65	2000	1	514.6993
66	2000	2	525.2301
67	2000	3	520.6051
68	2000	4	423.2581
69	2001	1	574.7948
70	2001	2	506.3418

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 ENDOGENOUS VARIABLES

Obs	Year	qtr	eix_KPC
71	2001	3	511.0436
72	2001	4	503.2418
73	2002	1	484.0097
74	2002	2	514.0115
75	2002	3	521.1192
76	2002	4	517.8729
77	2003	1	462.9655
78	2003	2	451.5476
79	2003	3	464.6368
80	2003	4	472.0778
81	2004	1	479.6856
82	2004	2	525.6148
83	2004	3	534.2463
84	2004	4	562.3145
85	2005	1	539.9523
86	2005	2	556.0351
87	2005	3	554.2378
88	2005	4	592.5148
89	2006	1	558.8453
90	2006	2	557.4881
91	2006	3	558.1671
92	2006	4	538.6313
93	2007	1	538.0318
94	2007	2	571.7799
95	2007	3	541.3841
96	2007	4	495.2472
97	2008	1	558.1297
98	2008	2	564.079
99	2008	3	575.8731
100	2008	4	.
101	2009	1	.
102	2009	2	.
103	2009	3	.
104	2009	4	.
105	2010	1	.

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 ENDOGENOUS VARIABLES

Obs	Year	qtr	eix_KPC
106	2010	2	.
107	2010	3	.
108	2010	4	.
109	2011	1	.
110	2011	2	.
111	2011	3	.
112	2011	4	.
113	2012	1	.
114	2012	2	.
115	2012	3	.
116	2012	4	.
117	2013	1	.
118	2013	2	.
119	2013	3	.
120	2013	4	.
121	2014	1	.
122	2014	2	.
123	2014	3	.
124	2014	4	.
125	2015	1	.
126	2015	2	.
127	2015	3	.
128	2015	4	.
129	2016	1	.
130	2016	2	.
131	2016	3	.
132	2016	4	.
133	2017	1	.
134	2017	2	.
135	2017	3	.
136	2017	4	.
137	2018	1	.
138	2018	2	.
139	2018	3	.
140	2018	4	.

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 ENDOGENOUS VARIABLES

Obs	Year	qtr	eix_KPC
141	2019	1	.
142	2019	2	.
143	2019	3	.
144	2019	4	.
145	2020	1	.
146	2020	2	.
147	2020	3	.
148	2020	4	.
149	2021	1	.
150	2021	2	.
151	2021	3	.
152	2021	4	.
153	2022	1	.
154	2022	2	.
155	2022	3	.
156	2022	4	.
157	2023	1	.
158	2023	2	.
159	2023	3	.
160	2023	4	.
161	2024	1	.
162	2024	2	.
163	2024	3	.
164	2024	4	.
165	2025	1	.
166	2025	2	.
167	2025	3	.
168	2025	4	.
169	2026	1	.
170	2026	2	.
171	2026	3	.
172	2026	4	.
173	2027	1	.
174	2027	2	.
175	2027	3	.

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 ENDOGENOUS VARIABLES

Obs	Year	qtr	eix_KPC
176	2027	4	.
177	2028	1	.
178	2028	2	.
179	2028	3	.
180	2028	4	.
181	2029	1	.
182	2029	2	.
183	2029	3	.
184	2029	4	.
185	2030	1	.
186	2030	2	.
187	2030	3	.
188	2030	4	.
189	2031	1	.
190	2031	2	.
191	2031	3	.
192	2031	4	.
193	2032	1	.
194	2032	2	.
195	2032	3	.
196	2032	4	.
197	2033	1	.
198	2033	2	.
199	2033	3	.
200	2033	4	.
201	2034	1	.
202	2034	2	.
203	2034	3	.
204	2034	4	.
205	2035	1	.
206	2035	2	.
207	2035	3	.
208	2035	4	.
209	2036	1	.
210	2036	2	.

KENTUCKY POWER COMPANY
MANUFACTURING ENERGY SALES
ENDOGENOUS VARIABLES

Obs	Year	qtr	eix_KPC
211	2036	3	.
212	2036	4	.
213	2037	1	.
214	2037	2	.
215	2037	3	.
216	2037	4	.
217	2038	1	.
218	2038	2	.
219	2038	3	.
220	2038	4	.

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 EXOGENOUS VARIABLES

The MEANS Procedure

Variable	Label	Mean
Year	Year	2011.00
GPI_KY	KY IND. GAS PRICE, 1982 \$/MCF	4.7634545
qtr	Qtr	2.5000000
frb324	Petroleum and Coal Products (1997=100)	124.6113462
frb331	FRB IND. PROD.-PRIMARY METALS	128.4683954
PIX	AVE. MANUF. ELEC. PRICE, 1982 ¢/KWH	2.3360965
D030N	BINARY VARIABLE-2003 ON	0.6545455
d04q2on	BINARY VARIABLE-2004 2ND QTR ON	0.6318182
d054	BINARY VARIABLE-2004 4TH QTR	0.0045455
d004	BINARY VARIABLE-2000 4TH QTR	0.0045455
d011	BINARY VARIABLE-2001 1ST QTR	0.0045455

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 EXOGENOUS VARIABLES

Obs	Year	GPI_KY	qtr	frb324	frb331	PIX	D030N	d04q2on	d054	d004	d011
1	1984	4.23	1	84.2253	93.493	2.87770	0	0	0	0	0
2	1984	4.23	2	83.4318	96.496	2.91994	0	0	0	0	0
3	1984	4.23	3	82.0437	91.344	2.84804	0	0	0	0	0
4	1984	4.23	4	81.8625	87.761	3.13456	0	0	0	0	0
5	1985	4.25	1	80.7550	87.099	3.30031	0	0	0	0	0
6	1985	4.25	2	82.7271	85.157	3.36236	0	0	0	0	0
7	1985	4.25	3	81.5678	83.644	3.39482	0	0	0	0	0
8	1985	4.25	4	81.6296	84.954	3.32855	0	0	0	0	0
9	1986	3.92	1	81.0705	86.235	3.51845	0	0	0	0	0
10	1986	3.92	2	81.8698	83.651	3.40717	0	0	0	0	0
11	1986	3.92	3	80.9560	81.111	3.56977	0	0	0	0	0
12	1986	3.92	4	80.9876	81.750	3.41088	0	0	0	0	0
13	1987	3.30	1	82.6348	81.428	3.22470	0	0	0	0	0
14	1987	3.30	2	84.6848	87.546	3.15654	0	0	0	0	0
15	1987	3.30	3	85.6659	90.238	2.99131	0	0	0	0	0
16	1987	3.30	4	87.4304	99.427	2.85620	0	0	0	0	0
17	1988	3.22	1	88.6171	99.072	2.74171	0	0	0	0	0
18	1988	3.22	2	87.6291	99.418	2.80633	0	0	0	0	0
19	1988	3.22	3	86.8951	100.987	2.75214	0	0	0	0	0
20	1988	3.22	4	87.7231	101.209	2.80887	0	0	0	0	0
21	1989	3.29	1	87.6112	101.494	2.66097	0	0	0	0	0
22	1989	3.29	2	86.3572	99.006	2.62164	0	0	0	0	0
23	1989	3.29	3	86.9632	96.964	2.48684	0	0	0	0	0
24	1989	3.29	4	86.3099	94.213	2.82235	0	0	0	0	0
25	1990	3.10	1	88.3312	94.746	2.62396	0	0	0	0	0
26	1990	3.10	2	85.5846	97.651	2.63963	0	0	0	0	0
27	1990	3.10	3	88.3237	98.834	2.55552	0	0	0	0	0
28	1990	3.10	4	85.3838	95.516	2.55603	0	0	0	0	0
29	1991	2.77	1	85.2712	88.479	2.79624	0	0	0	0	0
30	1991	2.77	2	86.0310	88.217	2.70861	0	0	0	0	0
31	1991	2.77	3	86.2141	93.214	2.58220	0	0	0	0	0
32	1991	2.77	4	85.1291	93.146	2.42293	0	0	0	0	0
33	1992	2.76	1	84.9442	93.693	2.63219	0	0	0	0	0
34	1992	2.76	2	86.0572	93.352	2.60228	0	0	0	0	0
35	1992	2.76	3	84.3821	92.326	2.59599	0	0	0	0	0

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 EXOGENOUS VARIABLES

Obs	Year	GPI_KY	qtr	frb324	frb331	PIX	D030N	d04q2on	d054	d004	d011
36	1992	2.76	4	85.7026	92.609	2.50802	0	0	0	0	0
37	1993	3.08	1	85.1824	95.886	2.33207	0	0	0	0	0
38	1993	3.08	2	85.3543	96.721	2.27445	0	0	0	0	0
39	1993	3.08	3	85.1750	97.666	2.35946	0	0	0	0	0
40	1993	3.08	4	87.6652	99.622	2.36819	0	0	0	0	0
41	1994	3.02	1	85.8520	101.332	2.34858	0	0	0	0	0
42	1994	3.02	2	88.9181	105.043	2.31289	0	0	0	0	0
43	1994	3.02	3	88.4299	104.635	2.27947	0	0	0	0	0
44	1994	3.02	4	89.7957	108.497	2.32415	0	0	0	0	0
45	1995	2.61	1	90.3952	108.488	2.18430	0	0	0	0	0
46	1995	2.61	2	89.2151	105.335	2.16831	0	0	0	0	0
47	1995	2.61	3	90.3388	104.409	2.13669	0	0	0	0	0
48	1995	2.61	4	89.3493	105.883	2.19503	0	0	0	0	0
49	1996	3.03	1	90.8324	106.376	2.16042	0	0	0	0	0
50	1996	3.03	2	91.2961	108.080	2.09041	0	0	0	0	0
51	1996	3.03	3	92.1729	109.660	2.15384	0	0	0	0	0
52	1996	3.03	4	93.4979	110.382	2.05030	0	0	0	0	0
53	1997	3.28	1	93.6254	109.647	2.06727	0	0	0	0	0
54	1997	3.28	2	96.2501	111.789	2.03065	0	0	0	0	0
55	1997	3.28	3	95.4257	113.699	2.08223	0	0	0	0	0
56	1997	3.28	4	94.7172	117.876	2.02143	0	0	0	0	0
57	1998	3.21	1	93.1519	118.644	2.12369	0	0	0	0	0
58	1998	3.21	2	92.3186	115.629	2.09798	0	0	0	0	0
59	1998	3.21	3	93.0475	113.778	2.08952	0	0	0	0	0
60	1998	3.21	4	94.2204	112.939	2.17022	0	0	0	0	0
61	1999	2.65	1	97.0462	113.436	2.22920	0	0	0	0	0
62	1999	2.65	2	96.7001	113.942	2.17264	0	0	0	0	0
63	1999	2.65	3	97.2691	115.556	2.16665	0	0	0	0	0
64	1999	2.65	4	97.2635	117.405	2.21024	0	0	0	0	0
65	2000	3.63	1	96.5687	116.936	2.09480	0	0	0	0	0
66	2000	3.63	2	97.7338	113.571	2.13292	0	0	0	0	0
67	2000	3.63	3	97.3183	110.007	1.92185	0	0	0	0	0
68	2000	3.63	4	96.1949	105.164	1.77478	0	0	0	1	0
69	2001	4.85	1	95.6630	101.329	1.81395	0	0	0	0	1
70	2001	4.85	2	96.4712	102.103	1.84653	0	0	0	0	0

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 EXOGENOUS VARIABLES

Obs	Year	GPI_KY	qtr	frb324	frb331	PIX	D030N	d04q2on	d054	d004	d011
71	2001	4.85	3	96.183	100.286	1.78319	0	0	0	0	0
72	2001	4.85	4	97.173	94.069	2.14929	0	0	0	0	0
73	2002	3.53	1	100.516	97.584	2.18784	0	0	0	0	0
74	2002	3.53	2	100.555	100.895	1.98027	0	0	0	0	0
75	2002	3.53	3	99.541	101.653	2.03848	0	0	0	0	0
76	2002	3.53	4	99.388	99.869	2.02020	0	0	0	0	0
77	2003	4.73	1	98.508	98.144	1.99256	1	0	0	0	0
78	2003	4.73	2	96.038	96.977	1.99016	1	0	0	0	0
79	2003	4.73	3	96.688	96.706	2.08670	1	0	0	0	0
80	2003	4.73	4	100.245	104.383	2.09213	1	0	0	0	0
81	2004	5.03	1	101.988	105.016	1.96660	1	0	0	0	0
82	2004	5.03	2	104.410	109.014	2.02316	1	1	0	0	0
83	2004	5.03	3	106.945	113.234	2.10423	1	1	0	0	0
84	2004	5.03	4	110.715	112.853	2.19409	1	1	0	0	0
85	2005	6.29	1	111.780	110.046	2.14039	1	1	0	0	0
86	2005	6.29	2	113.320	104.676	2.14919	1	1	0	0	0
87	2005	6.29	3	108.534	105.495	2.25713	1	1	0	0	0
88	2005	6.29	4	106.609	111.652	2.19678	1	1	1	0	0
89	2006	5.85	1	109.766	113.607	2.20734	1	1	0	0	0
90	2006	5.85	2	108.486	115.676	2.41772	1	1	0	0	0
91	2006	5.85	3	111.632	113.453	2.31692	1	1	0	0	0
92	2006	5.85	4	108.973	106.918	2.34983	1	1	0	0	0
93	2007	4.76	1	109.877	108.751	2.39939	1	1	0	0	0
94	2007	4.76	2	108.128	110.057	2.22914	1	1	0	0	0
95	2007	4.76	3	108.408	111.262	2.29959	1	1	0	0	0
96	2007	4.76	4	108.456	111.267	2.31376	1	1	0	0	0
97	2008	6.00	1	110.559	113.853	2.19464	1	1	0	0	0
98	2008	6.00	2	110.505	110.030	2.23578	1	1	0	0	0
99	2008	6.00	3	110.766	110.480	2.45239	1	1	0	0	0
100	2008	6.00	4	111.170	111.210	2.59770	1	1	0	0	0
101	2009	4.46	1	111.705	111.910	2.04007	1	1	0	0	0
102	2009	4.46	2	112.315	112.410	2.20723	1	1	0	0	0
103	2009	4.46	3	112.986	112.810	2.43943	1	1	0	0	0
104	2009	4.46	4	113.574	113.520	2.57297	1	1	0	0	0
105	2010	4.58	1	114.158	114.220	1.81856	1	1	0	0	0

KENTUCKY POWER COMPANY
MANUFACTURING ENERGY SALES
EXOGENOUS VARIABLES

Obs	Year	GPI_KY	qtr	frb324	frb331	PIX	D030N	d04q2on	d054	d004	d011
106	2010	4.58	2	114.760	114.710	1.98327	1	1	0	0	0
107	2010	4.58	3	115.352	115.120	2.21436	1	1	0	0	0
108	2010	4.58	4	115.967	115.830	2.36520	1	1	0	0	0
109	2011	4.55	1	116.586	116.540	1.85331	1	1	0	0	0
110	2011	4.55	2	117.216	117.040	2.01077	1	1	0	0	0
111	2011	4.55	3	117.834	117.440	2.23346	1	1	0	0	0
112	2011	4.55	4	118.433	118.150	2.37212	1	1	0	0	0
113	2012	4.62	1	119.024	118.870	1.84879	1	1	0	0	0
114	2012	4.62	2	119.608	119.350	2.00291	1	1	0	0	0
115	2012	4.62	3	120.207	119.750	2.22003	1	1	0	0	0
116	2012	4.62	4	120.804	120.460	2.35538	1	1	0	0	0
117	2013	4.60	1	121.407	121.190	1.85677	1	1	0	0	0
118	2013	4.60	2	122.002	121.670	2.00881	1	1	0	0	0
119	2013	4.60	3	122.670	122.060	2.22380	1	1	0	0	0
120	2013	4.60	4	123.326	122.900	2.35801	1	1	0	0	0
121	2014	4.66	1	123.982	123.630	1.85873	1	1	0	0	0
122	2014	4.66	2	124.570	124.100	2.00884	1	1	0	0	0
123	2014	4.66	3	125.138	124.490	2.22309	1	1	0	0	0
124	2014	4.66	4	125.706	125.220	2.35700	1	1	0	0	0
125	2015	4.71	1	126.293	125.950	1.86799	1	1	0	0	0
126	2015	4.71	2	126.941	126.420	2.01850	1	1	0	0	0
127	2015	4.71	3	127.589	126.800	2.23346	1	1	0	0	0
128	2015	4.71	4	128.250	127.530	2.36755	1	1	0	0	0
129	2016	4.77	1	128.901	128.270	1.88146	1	1	0	0	0
130	2016	4.77	2	129.516	128.740	2.03344	1	1	0	0	0
131	2016	4.77	3	130.141	129.110	2.25036	1	1	0	0	0
132	2016	4.77	4	130.792	129.840	2.38574	1	1	0	0	0
133	2017	4.85	1	131.451	130.600	1.89861	1	1	0	0	0
134	2017	4.85	2	132.117	131.060	2.05176	1	1	0	0	0
135	2017	4.85	3	132.750	131.430	2.27055	1	1	0	0	0
136	2017	4.85	4	133.384	132.280	2.40726	1	1	0	0	0
137	2018	4.97	1	134.028	133.150	1.92315	1	1	0	0	0
138	2018	4.97	2	134.673	133.720	2.07842	1	1	0	0	0
139	2018	4.97	3	135.301	134.200	2.30006	1	1	0	0	0
140	2018	4.97	4	135.950	134.940	2.43853	1	1	0	0	0

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 EXOGENOUS VARIABLES

Obs	Year	GPI_KY	qtr	frb324	frb331	PIX	D030N	d04q2on	d054	d004	d011
141	2019	5.06	1	136.605	135.700	1.95126	1	1	0	0	0
142	2019	5.06	2	137.217	136.150	2.10869	1	1	0	0	0
143	2019	5.06	3	137.830	136.520	2.33366	1	1	0	0	0
144	2019	5.06	4	138.458	137.260	2.47419	1	1	0	0	0
145	2020	5.01	1	139.106	138.020	1.96040	1	1	0	0	0
146	2020	5.01	2	139.722	138.590	2.11876	1	1	0	0	0
147	2020	5.01	3	140.317	139.060	2.34487	1	1	0	0	0
148	2020	5.01	4	140.927	139.930	2.48627	1	1	0	0	0
149	2021	4.89	1	141.572	140.800	1.95120	1	1	0	0	0
150	2021	4.89	2	142.198	141.370	2.10874	1	1	0	0	0
151	2021	4.89	3	142.880	141.830	2.33352	1	1	0	0	0
152	2021	4.89	4	143.544	142.710	2.47384	1	1	0	0	0
153	2022	4.98	1	144.238	143.580	1.95559	1	1	0	0	0
154	2022	4.98	2	144.926	144.140	2.11335	1	1	0	0	0
155	2022	4.98	3	145.606	144.600	2.33866	1	1	0	0	0
156	2022	4.98	4	146.290	145.490	2.47937	1	1	0	0	0
157	2023	4.98	1	147.001	146.360	1.96205	1	1	0	0	0
158	2023	4.98	2	147.692	146.920	2.12039	1	1	0	0	0
159	2023	4.98	3	148.373	147.380	2.34649	1	1	0	0	0
160	2023	4.98	4	149.049	148.270	2.48758	1	1	0	0	0
161	2024	5.17	1	149.744	149.140	1.97533	1	1	0	0	0
162	2024	5.17	2	150.414	149.700	2.13481	1	1	0	0	0
163	2024	5.17	3	151.078	150.150	2.36301	1	1	0	0	0
164	2024	5.17	4	151.752	151.050	2.50579	1	1	0	0	0
165	2025	5.33	1	152.454	151.930	1.99883	1	1	0	0	0
166	2025	5.33	2	153.135	152.480	2.16068	1	1	0	0	0
167	2025	5.33	3	153.790	152.920	2.39171	1	1	0	0	0
168	2025	5.33	4	154.449	153.830	2.53630	1	1	0	0	0
169	2026	5.56	1	155.189	154.700	2.02144	1	1	0	0	0
170	2026	5.56	2	155.899	155.260	2.18521	1	1	0	0	0
171	2026	5.56	3	156.622	155.820	2.41887	1	1	0	0	0
172	2026	5.56	4	157.344	156.590	2.56512	1	1	0	0	0
173	2027	5.79	1	158.073	157.430	2.04615	1	1	0	0	0
174	2027	5.79	2	158.750	158.280	2.21195	1	1	0	0	0
175	2027	5.79	3	159.434	159.060	2.44854	1	1	0	0	0

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 EXOGENOUS VARIABLES

Obs	Year	GPI_KY	qtr	frb324	frb331	PIX	D030N	d04q2on	d054	d004	d011
176	2027	5.79	4	160.155	159.830	2.59659	1	1	0	0	0
177	2028	5.86	1	160.890	160.670	2.05721	1	1	0	0	0
178	2028	5.86	2	161.575	161.530	2.22390	1	1	0	0	0
179	2028	5.86	3	162.260	162.300	2.46178	1	1	0	0	0
180	2028	5.86	4	162.958	163.070	2.61069	1	1	0	0	0
181	2029	5.98	1	163.664	163.910	2.05632	1	1	0	0	0
182	2029	5.98	2	164.336	164.770	2.22298	1	1	0	0	0
183	2029	5.98	3	165.009	165.540	2.46079	1	1	0	0	0
184	2029	5.98	4	165.698	166.310	2.60971	1	1	0	0	0
185	2030	6.04	1	166.413	167.150	2.06079	1	1	0	0	0
186	2030	6.04	2	167.146	168.010	2.22786	1	1	0	0	0
187	2030	6.04	3	167.885	168.780	2.46624	1	1	0	0	0
188	2030	6.04	4	168.655	169.540	2.61552	1	1	0	0	0
189	2031	6.19	1	169.455	170.380	2.07376	1	1	0	0	0
190	2031	6.19	2	170.182	171.240	2.24193	1	1	0	0	0
191	2031	6.19	3	170.919	172.010	2.48187	1	1	0	0	0
192	2031	6.19	4	171.682	172.750	2.63214	1	1	0	0	0
193	2032	6.35	1	172.470	173.570	2.08481	1	1	0	0	0
194	2032	6.35	2	173.192	174.430	2.25392	1	1	0	0	0
195	2032	6.35	3	173.935	175.180	2.49516	1	1	0	0	0
196	2032	6.35	4	174.686	175.890	2.64630	1	1	0	0	0
197	2033	6.51	1	175.475	176.710	2.09309	1	1	0	0	0
198	2033	6.51	2	176.205	177.550	2.26288	1	1	0	0	0
199	2033	6.51	3	176.935	178.310	2.50504	1	1	0	0	0
200	2033	6.51	4	177.659	179.040	2.65667	1	1	0	0	0
201	2034	6.68	1	178.399	179.870	2.10059	1	1	0	0	0
202	2034	6.68	2	179.141	180.720	2.27097	1	1	0	0	0
203	2034	6.68	3	179.889	181.500	2.51406	1	1	0	0	0
204	2034	6.68	4	180.639	182.240	2.66638	1	1	0	0	0
205	2035	6.85	1	181.407	183.050	2.11002	1	1	0	0	0
206	2035	6.85	2	182.168	183.840	2.28170	1	1	0	0	0
207	2035	6.85	3	182.926	184.630	2.52625	1	1	0	0	0
208	2035	6.85	4	183.689	185.420	2.67948	1	1	0	0	0
209	2036	7.02	1	184.448	186.210	2.12117	1	1	0	0	0
210	2036	7.02	2	185.214	187.000	2.29315	1	1	0	0	0

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 EXOGENOUS VARIABLES

Obs	Year	GPI_KY	qtr	frb324	frb331	PIX	D030N	d04q2on	d054	d004	d011
211	2036	7.02	3	185.986	187.790	2.53872	1	1	0	0	0
212	2036	7.02	4	186.759	188.570	2.69276	1	1	0	0	0
213	2037	7.20	1	187.528	189.370	2.13090	1	1	0	0	0
214	2037	7.20	2	188.282	190.160	2.30354	1	1	0	0	0
215	2037	7.20	3	189.061	190.960	2.54968	1	1	0	0	0
216	2037	7.20	4	189.843	191.760	2.70419	1	1	0	0	0
217	2038	7.38	1	190.630	192.560	2.13955	1	1	0	0	0
218	2038	7.38	2	191.421	193.360	2.31319	1	1	0	0	0
219	2038	7.38	3	192.214	194.160	2.56093	1	1	0	0	0
220	2038	7.38	4	193.011	194.960	2.71624	1	1	0	0	0

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 MODEL ESTIMATION

The SYSLIN Procedure
 Ordinary Least Squares Estimation

Model eix_KPC
 Dependent Variable eix_KPC
 Label BILLED KWH

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	164149.4	20518.68	81.84	<.0001
Error	79	19806.34	250.7132		
Corrected Total	87	183955.8			

Root MSE 15.83392 R-Square 0.89233
 Dependent Mean 488.45776 Adj R-Sq 0.88143
 Coeff Var 3.24162

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variable Label
Intercept	1	-1417.97	339.1109	-4.18	<.0001	Intercept
LPIXGP12	1	-45.3589	27.87936	-1.63	0.1077	MANUF. ELEC./IND.
Lfrb324	1	296.5616	100.7858	2.94	0.0043	GAS PRICE RATIO, LOG FRB IND.
lfrb331	1	117.3501	35.86784	3.27	0.0016	PROD.-PETROLEUM, LOG FRB IND. PROD.-PRIMARY METALS, LOG

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 MODEL ESTIMATION

The SYSLIN Procedure
 Ordinary Least Squares Estimation

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variable Label
d004	1	-77.9181	16.17848	-4.82	<.0001	BINARY VARIABLE -2000 4TH QTR
d011	1	77.14338	16.21659	4.76	<.0001	BINARY VARIABLE -2001 1ST QTR
D030N	1	-52.9386	10.40029	-5.09	<.0001	BINARY VARIABLE -2003 ON
d04q2on	1	34.79711	9.675113	3.60	0.0006	BINARY VARIABLE -2004 2ND QTR ON
d054	1	48.15176	16.82387	2.86	0.0054	BINARY VARIABLE -2004 4TH QTR

Durbin-Watson	1.48696
Number of Observations	88
First-Order Autocorrelation	0.23909

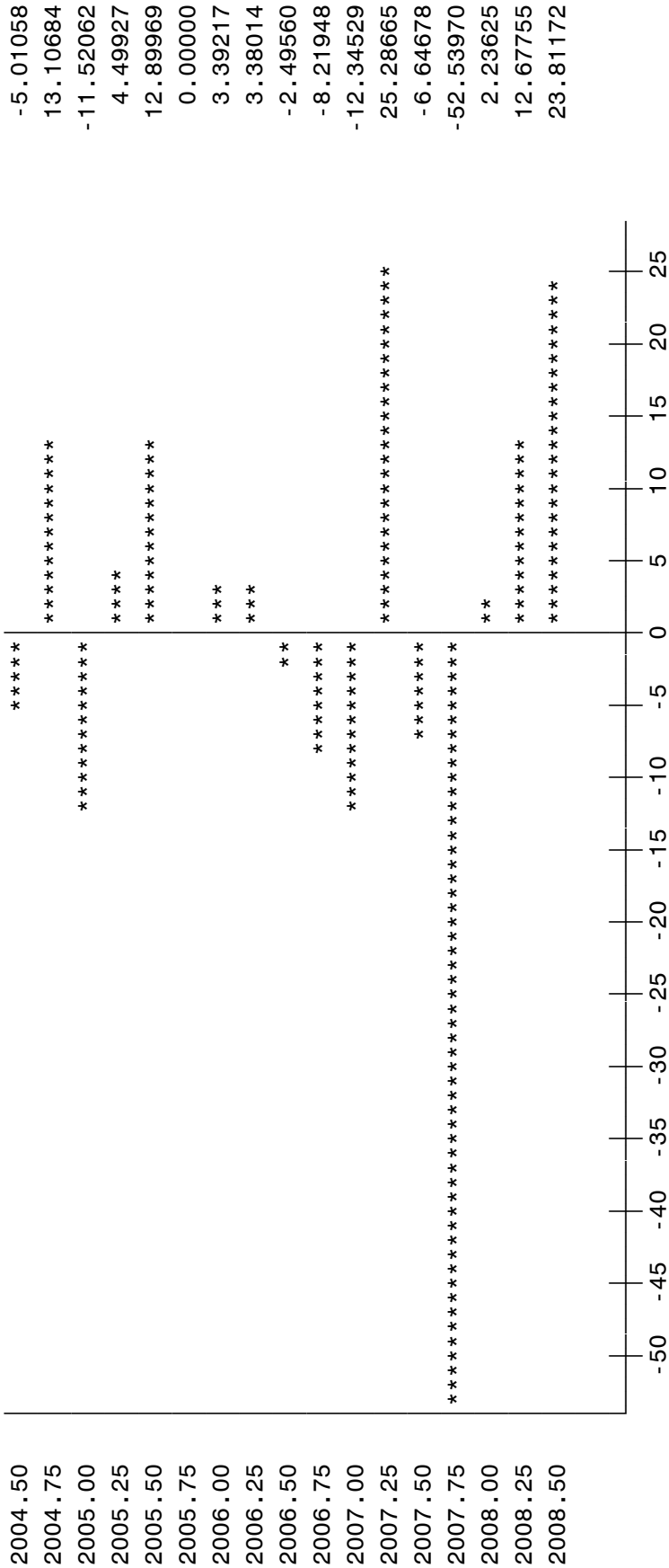
KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 MODEL RESIDUALS

time	Residual Values	Sum
1986.75	*****	11.11093
1987.00	*	-1.01733
1987.25	*****	-4.84854
1987.50	**	1.77763
1987.75	*****	4.66658
1988.00	*****	7.62491
1988.25	*****	5.62298
1988.50	*****	7.83393
1988.75	*****	13.58170
1989.00	*****	-24.05074
1989.25	*****	12.98971
1989.50	*****	17.19625
1989.75	*****	-9.82137
1990.00	*	-1.12402
1990.25	*****	15.60743
1990.50	*****	16.42522
1990.75	*****	9.17054
1991.00	*****	-14.39631
1991.25	*	0.84397
1991.50	*****	15.15046
1991.75	*****	28.07293
1992.00	*****	14.96546
1992.25	*****	22.51349
1992.50	*****	-14.49913
1992.75	*****	-12.00198
1993.00	*****	-30.12904
1993.25	*****	-14.74169
1993.50	*****	-20.67700
1993.75	*****	-14.31078
1994.00	*****	-44.53702
1994.25	*****	-19.84483
1994.50	*****	-13.13348
1994.75	*****	-18.17750
1995.00	*****	-16.31132

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 MODEL RESIDUALS

1995.25	*****	-5.01042
1995.50	*****	6.49933
1995.75	*****	26.60615
1996.00	*****	-11.67126
1996.25	*****	23.29380
1996.50	*****	10.26259
1996.75	*****	20.75210
1997.00	*****	-7.53861
1997.25	*	14.67792
1997.50	*	-1.28910
1997.75	*****	8.41466
1998.00	*****	9.09353
1998.25	*****	13.21628
1998.50	*	-1.37531
1998.75	*****	8.87642
1999.00	*****	-18.98270
1999.25	*****	2.93052
1999.50	*****	-4.71013
1999.75	*****	-29.03770
2000.00	*	1.73994
2000.25	*****	11.89431
2000.50	*****	11.56537
2000.75		0.00000
2001.00		0.00000
2001.25	**	3.00107
2001.50	*****	8.35910
2001.75	**	3.28926
2002.00	*****	-31.24220
2002.25	*****	-6.50490
2002.50	**	1.63490
2002.75	*	-0.27698
2003.00		1.21413
2003.25	***	-2.54859
2003.50	*****	8.20177
2003.75	*****	-4.39199
2004.00	**	-2.47532
2004.25	**	-2.51223

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 MODEL RESIDUALS



KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 ACTUAL AND FORECAST

Year	ENERGY SALES	GROWTH RATE
1984	1637.45	.
1985	1550.686	-5.3
1986	1549.804	-0.1
1987	1741.295	12.4
1988	1855.81	6.6
1989	1795.642	-3.2
1990	1841.252	2.5
1991	1781.622	-3.2
1992	1761.722	-1.1
1993	1701.707	-3.4
1994	1763.534	3.6
1995	1906.316	8.1
1996	1981.449	3.9
1997	2021.587	2.0
1998	2035.771	0.7
1999	2002.953	-1.6
2000	1983.793	-1.0
2001	2095.422	5.6
2002	2037.013	-2.8
2003	1851.228	-9.1
2004	2101.861	13.5
2005	2242.74	6.7
2006	2213.132	-1.3
2007	2146.443	-3.0
2008	2271.543	5.8
2009	2271.096	0.0
2010	2408.955	6.1
2011	2461.778	2.2
2012	2495.039	1.4
2013	2530.892	1.4
2014	2565.032	1.3
2015	2597.562	1.3
2016	2630.992	1.3

KENTUCKY POWER COMPANY
 MANUFACTURING ENERGY SALES
 ACTUAL AND FORECAST

Year	ENERGY SALES	GROWTH RATE
2017	2664.165	1.3
2018	2697.687	1.3
2019	2729.569	1.2
2020	2759.864	1.1
2021	2789.226	1.1
2022	2819.328	1.1
2023	2849.963	1.1
2024	2881.84	1.1
2025	2914.347	1.1
2026	2948.476	1.2
2027	2983.743	1.2
2028	3018.281	1.2
2029	3051.144	1.1
2030	3083.154	1.0
2031	3115.923	1.1
2032	3148.112	1.0
2033	3180.073	1.0
2034	3211.771	1.0
2035	3243.568	1.0
2036	3275.012	1.0
2037	3306.093	0.9
2038	3337.164	0.9

LONG-TERM OTHER RETAIL

KENTUCKY POWER COMPANY
PUBLIC STREET AND HIGHWAY LIGHTING
ENDOGENOUS VARIABLES

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2011.00
QTR	Qtr	2.5000000
eu1_KPC	BILLED KWH	2.4331714

KENTUCKY POWER COMPANY
 PUBLIC STREET AND HIGHWAY LIGHTING
 ENDOGENOUS VARIABLES

Obs	YEAR	QTR	eu1_KPC
1	1984	1	2.288
2	1984	2	1.718
3	1984	3	1.822
4	1984	4	2.398
5	1985	1	2.305
6	1985	2	1.728
7	1985	3	1.839
8	1985	4	2.479
9	1986	1	2.307
10	1986	2	1.736
11	1986	3	1.833
12	1986	4	2.466
13	1987	1	2.318
14	1987	2	1.774
15	1987	3	1.855
16	1987	4	2.465
17	1988	1	2.385
18	1988	2	1.82
19	1988	3	1.893
20	1988	4	2.521
21	1989	1	2.366
22	1989	2	1.789
23	1989	3	1.854
24	1989	4	2.504
25	1990	1	2.309
26	1990	2	1.791
27	1990	3	1.934
28	1990	4	2.648
29	1991	1	2.503
30	1991	2	1.929
31	1991	3	2.017
32	1991	4	2.646
33	1992	1	2.533
34	1992	2	1.913
35	1992	3	2.023

KENTUCKY POWER COMPANY
 PUBLIC STREET AND HIGHWAY LIGHTING
 ENDOGENOUS VARIABLES

Obs	YEAR	QTR	eu1_KPC
36	1992	4	2.717
37	1993	1	2.562
38	1993	2	2.022
39	1993	3	2.052
40	1993	4	2.784
41	1994	1	2.601
42	1994	2	2.045
43	1994	3	2.125
44	1994	4	2.865
45	1995	1	2.585
46	1995	2	2.096
47	1995	3	2.456
48	1995	4	2.945
49	1996	1	2.745984
50	1996	2	2.109212
51	1996	3	2.219779
52	1996	4	2.886061
53	1997	1	2.811751
54	1997	2	2.171542
55	1997	3	2.278072
56	1997	4	2.985105
57	1998	1	2.871083
58	1998	2	2.219178
59	1998	3	2.330511
60	1998	4	3.063178
61	1999	1	2.960014
62	1999	2	2.254886
63	1999	3	2.378881
64	1999	4	3.098066
65	2000	1	2.981758
66	2000	2	2.279278
67	2000	3	2.438097
68	2000	4	3.133012
69	2001	1	3.053597
70	2001	2	2.372166

KENTUCKY POWER COMPANY
 PUBLIC STREET AND HIGHWAY LIGHTING
 ENDOGENOUS VARIABLES

Obs	YEAR	QTR	eu1_KPC
71	2001	3	2.485264
72	2001	4	3.281755
73	2002	1	3.134862
74	2002	2	2.415729
75	2002	3	2.531629
76	2002	4	3.267793
77	2003	1	3.14104
78	2003	2	2.408228
79	2003	3	2.493206
80	2003	4	3.182333
81	2004	1	3.133164
82	2004	2	2.348162
83	2004	3	2.44212
84	2004	4	3.206238
85	2005	1	3.067787
86	2005	2	2.09621
87	2005	3	2.047055
88	2005	4	2.935817
89	2006	1	2.771568
90	2006	2	2.011399
91	2006	3	2.131735
92	2006	4	2.902505
93	2007	1	2.791451
94	2007	2	1.990764
95	2007	3	2.256037
96	2007	4	2.977101
97	2008	1	2.936176
98	2008	2	2.036082
99	2008	3	2.255547
100	2008	4	.
101	2009	1	.
102	2009	2	.
103	2009	3	.
104	2009	4	.
105	2010	1	.

KENTUCKY POWER COMPANY
 PUBLIC STREET AND HIGHWAY LIGHTING
 ENDOGENOUS VARIABLES

Obs	YEAR	QTR	eu1_kpc
106	2010	2	.
107	2010	3	.
108	2010	4	.
109	2011	1	.
110	2011	2	.
111	2011	3	.
112	2011	4	.
113	2012	1	.
114	2012	2	.
115	2012	3	.
116	2012	4	.
117	2013	1	.
118	2013	2	.
119	2013	3	.
120	2013	4	.
121	2014	1	.
122	2014	2	.
123	2014	3	.
124	2014	4	.
125	2015	1	.
126	2015	2	.
127	2015	3	.
128	2015	4	.
129	2016	1	.
130	2016	2	.
131	2016	3	.
132	2016	4	.
133	2017	1	.
134	2017	2	.
135	2017	3	.
136	2017	4	.
137	2018	1	.
138	2018	2	.
139	2018	3	.
140	2018	4	.

KENTUCKY POWER COMPANY
 PUBLIC STREET AND HIGHWAY LIGHTING
 ENDOGENOUS VARIABLES

Obs	YEAR	QTR	eu1_kpc
141	2019	1	.
142	2019	2	.
143	2019	3	.
144	2019	4	.
145	2020	1	.
146	2020	2	.
147	2020	3	.
148	2020	4	.
149	2021	1	.
150	2021	2	.
151	2021	3	.
152	2021	4	.
153	2022	1	.
154	2022	2	.
155	2022	3	.
156	2022	4	.
157	2023	1	.
158	2023	2	.
159	2023	3	.
160	2023	4	.
161	2024	1	.
162	2024	2	.
163	2024	3	.
164	2024	4	.
165	2025	1	.
166	2025	2	.
167	2025	3	.
168	2025	4	.
169	2026	1	.
170	2026	2	.
171	2026	3	.
172	2026	4	.
173	2027	1	.
174	2027	2	.
175	2027	3	.

KENTUCKY POWER COMPANY
 PUBLIC STREET AND HIGHWAY LIGHTING
 ENDOGENOUS VARIABLES

Obs	YEAR	QTR	eu1_kpc
176	2027	4	.
177	2028	1	.
178	2028	2	.
179	2028	3	.
180	2028	4	.
181	2029	1	.
182	2029	2	.
183	2029	3	.
184	2029	4	.
185	2030	1	.
186	2030	2	.
187	2030	3	.
188	2030	4	.
189	2031	1	.
190	2031	2	.
191	2031	3	.
192	2031	4	.
193	2032	1	.
194	2032	2	.
195	2032	3	.
196	2032	4	.
197	2033	1	.
198	2033	2	.
199	2033	3	.
200	2033	4	.
201	2034	1	.
202	2034	2	.
203	2034	3	.
204	2034	4	.
205	2035	1	.
206	2035	2	.
207	2035	3	.
208	2035	4	.
209	2036	1	.
210	2036	2	.

KENTUCKY POWER COMPANY
 PUBLIC STREET AND HIGHWAY LIGHTING
 ENDOGENOUS VARIABLES

Obs	YEAR	QTR	eu1_KPC
211	2036	3	.
212	2036	4	.
213	2037	1	.
214	2037	2	.
215	2037	3	.
216	2037	4	.
217	2038	1	.
218	2038	2	.
219	2038	3	.
220	2038	4	.

KENTUCKY POWER COMPANY
PUBLIC STREET AND HIGHWAY LIGHTING
EXOGENOUS VARIABLES

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2011.00
QTR	Qtr	2.5000000
LCOM	SERVICE AREA COMMERCIAL EMPLOYMENT	93.6871758
D010N	BINARY VARIABLE - 1999 ON	0.6909091
D070N	BINARY VARIABLE - 2007 ON	0.5818182
d0320n	BINARY VARIABLE - 2003 2ND QTR ON	0.6500000
d0520n	BINARY VARIABLE - 2005 2ND QTR ON	0.6136364
d1	BINARY VARIABLE - 1ST QTR	0.2500000
d2	BINARY VARIABLE - 2ND QTR	0.2500000
d3	BINARY VARIABLE - 3RD QTR	0.2500000

KENTUCKY POWER COMPANY
 PUBLIC STREET AND HIGHWAY LIGHTING
 EXOGENOUS VARIABLES

Obs	YEAR	QTR	LCOM	D010N	D070N	d032on	d052on	d1	d2	d3
1	1984	1	61.071	0	0	0	0	1	0	0
2	1984	2	61.421	0	0	0	0	0	1	0
3	1984	3	61.691	0	0	0	0	0	0	1
4	1984	4	61.813	0	0	0	0	0	0	0
5	1985	1	61.832	0	0	0	0	1	0	0
6	1985	2	61.805	0	0	0	0	0	1	0
7	1985	3	61.805	0	0	0	0	0	0	1
8	1985	4	61.870	0	0	0	0	0	0	0
9	1986	1	61.992	0	0	0	0	1	0	0
10	1986	2	62.167	0	0	0	0	0	1	0
11	1986	3	62.411	0	0	0	0	0	0	1
12	1986	4	62.714	0	0	0	0	0	0	0
13	1987	1	63.081	0	0	0	0	1	0	0
14	1987	2	63.529	0	0	0	0	0	1	0
15	1987	3	64.083	0	0	0	0	0	0	1
16	1987	4	64.721	0	0	0	0	0	0	0
17	1988	1	65.401	0	0	0	0	1	0	0
18	1988	2	66.077	0	0	0	0	0	1	0
19	1988	3	66.730	0	0	0	0	0	0	1
20	1988	4	67.381	0	0	0	0	0	0	0
21	1989	1	68.071	0	0	0	0	1	0	0
22	1989	2	68.866	0	0	0	0	0	1	0
23	1989	3	69.844	0	0	0	0	0	0	1
24	1989	4	70.933	0	0	0	0	0	0	0
25	1990	1	71.958	0	0	0	0	1	0	0
26	1990	2	72.760	0	0	0	0	0	1	0
27	1990	3	73.186	0	0	0	0	0	0	1
28	1990	4	73.257	0	0	0	0	0	0	0
29	1991	1	73.230	0	0	0	0	1	0	0
30	1991	2	73.348	0	0	0	0	0	1	0
31	1991	3	73.895	0	0	0	0	0	0	1
32	1991	4	74.831	0	0	0	0	0	0	0
33	1992	1	75.923	0	0	0	0	1	0	0
34	1992	2	76.895	0	0	0	0	0	1	0
35	1992	3	77.520	0	0	0	0	0	0	1

KENTUCKY POWER COMPANY
 PUBLIC STREET AND HIGHWAY LIGHTING
 EXOGENOUS VARIABLES

Obs	YEAR	QTR	LCOM	D010N	D070N	d032on	d052on	d1	d2	d3
36	1992	4	77.758	0	0	0	0	0	0	0
37	1993	1	77.835	0	0	0	0	1	0	0
38	1993	2	77.965	0	0	0	0	0	1	0
39	1993	3	78.365	0	0	0	0	0	0	1
40	1993	4	79.091	0	0	0	0	0	0	0
41	1994	1	79.967	0	0	0	0	1	0	0
42	1994	2	80.829	0	0	0	0	0	1	0
43	1994	3	81.546	0	0	0	0	0	0	1
44	1994	4	82.073	0	0	0	0	0	0	0
45	1995	1	82.436	0	0	0	0	1	0	0
46	1995	2	82.754	0	0	0	0	0	1	0
47	1995	3	83.062	0	0	0	0	0	0	1
48	1995	4	83.404	0	0	0	0	0	0	0
49	1996	1	83.734	0	0	0	0	1	0	0
50	1996	2	84.043	0	0	0	0	0	1	0
51	1996	3	84.301	0	0	0	0	0	0	1
52	1996	4	84.531	0	0	0	0	0	0	0
53	1997	1	84.791	0	0	0	0	1	0	0
54	1997	2	85.187	0	0	0	0	0	1	0
55	1997	3	85.776	0	0	0	0	0	0	1
56	1997	4	86.531	0	0	0	0	0	0	0
57	1998	1	87.317	0	0	0	0	1	0	0
58	1998	2	87.985	0	0	0	0	0	1	0
59	1998	3	88.431	0	0	0	0	0	0	1
60	1998	4	88.638	0	0	0	0	0	0	0
61	1999	1	88.740	0	0	0	0	1	0	0
62	1999	2	88.903	0	0	0	0	0	1	0
63	1999	3	89.261	0	0	0	0	0	0	1
64	1999	4	89.843	0	0	0	0	0	0	0
65	2000	1	90.558	0	0	0	0	1	0	0
66	2000	2	91.304	0	0	0	0	0	1	0
67	2000	3	91.972	0	0	0	0	0	0	1
68	2000	4	92.549	0	0	0	0	0	0	0
69	2001	1	93.042	1	0	0	0	1	0	0
70	2001	2	93.482	1	0	0	0	0	1	0

KENTUCKY POWER COMPANY
 PUBLIC STREET AND HIGHWAY LIGHTING
 EXOGENOUS VARIABLES

Obs	YEAR	QTR	LCOM	D010N	D070N	d032on	d052on	d1	d2	d3
71	2001	3	93.906	1	0	0	0	0	0	1
72	2001	4	94.319	1	0	0	0	0	0	0
73	2002	1	94.728	1	0	0	0	1	0	0
74	2002	2	95.120	1	0	0	0	0	1	0
75	2002	3	95.514	1	0	0	0	0	0	1
76	2002	4	95.875	1	0	0	0	0	0	0
77	2003	1	96.161	1	0	0	0	1	0	0
78	2003	2	96.328	1	0	1	0	0	1	0
79	2003	3	96.360	1	0	1	0	0	0	1
80	2003	4	96.246	1	0	1	0	0	0	0
81	2004	1	96.058	1	0	1	0	1	0	0
82	2004	2	95.998	1	0	1	0	0	1	0
83	2004	3	96.110	1	0	1	0	0	0	1
84	2004	4	96.417	1	0	1	0	0	0	0
85	2005	1	96.810	1	0	1	0	1	0	0
86	2005	2	97.176	1	0	1	1	0	1	0
87	2005	3	97.418	1	0	1	1	0	0	1
88	2005	4	97.516	1	0	1	1	0	0	0
89	2006	1	97.534	1	0	1	1	1	0	0
90	2006	2	97.536	1	0	1	1	0	1	0
91	2006	3	97.594	1	0	1	1	0	0	1
92	2006	4	97.743	1	0	1	1	0	0	0
93	2007	1	97.924	1	1	1	1	1	0	0
94	2007	2	98.127	1	1	1	1	0	1	0
95	2007	3	98.317	1	1	1	1	0	0	1
96	2007	4	98.466	1	1	1	1	0	0	0
97	2008	1	98.506	1	1	1	1	1	0	0
98	2008	2	98.397	1	1	1	1	0	1	0
99	2008	3	98.105	1	1	1	1	0	0	1
100	2008	4	97.648	1	1	1	1	0	0	0
101	2009	1	97.152	1	1	1	1	1	0	0
102	2009	2	96.760	1	1	1	1	0	1	0
103	2009	3	96.560	1	1	1	1	0	0	1
104	2009	4	96.620	1	1	1	1	0	0	0
105	2010	1	96.874	1	1	1	1	1	0	0

KENTUCKY POWER COMPANY
 PUBLIC STREET AND HIGHWAY LIGHTING
 EXOGENOUS VARIABLES

Obs	YEAR	QTR	LCOM	D010N	D070N	d032on	d052on	d1	d2	d3
106	2010	2	97.272	1	1	1	1	0	1	0
107	2010	3	97.782	1	1	1	1	0	0	1
108	2010	4	98.349	1	1	1	1	0	0	0
109	2011	1	98.940	1	1	1	1	1	0	0
110	2011	2	99.551	1	1	1	1	0	1	0
111	2011	3	100.144	1	1	1	1	0	0	1
112	2011	4	100.713	1	1	1	1	0	0	0
113	2012	1	101.221	1	1	1	1	1	0	0
114	2012	2	101.657	1	1	1	1	0	1	0
115	2012	3	101.999	1	1	1	1	0	0	1
116	2012	4	102.255	1	1	1	1	0	0	0
117	2013	1	102.429	1	1	1	1	1	0	0
118	2013	2	102.531	1	1	1	1	0	1	0
119	2013	3	102.605	1	1	1	1	0	0	1
120	2013	4	102.650	1	1	1	1	0	0	0
121	2014	1	102.686	1	1	1	1	1	0	0
122	2014	2	102.695	1	1	1	1	0	1	0
123	2014	3	102.699	1	1	1	1	0	0	1
124	2014	4	102.707	1	1	1	1	0	0	0
125	2015	1	102.712	1	1	1	1	1	0	0
126	2015	2	102.719	1	1	1	1	0	1	0
127	2015	3	102.737	1	1	1	1	0	0	1
128	2015	4	102.752	1	1	1	1	0	0	0
129	2016	1	102.760	1	1	1	1	1	0	0
130	2016	2	102.780	1	1	1	1	0	1	0
131	2016	3	102.806	1	1	1	1	0	0	1
132	2016	4	102.840	1	1	1	1	0	0	0
133	2017	1	102.873	1	1	1	1	1	0	0
134	2017	2	102.905	1	1	1	1	0	1	0
135	2017	3	102.937	1	1	1	1	0	0	1
136	2017	4	102.961	1	1	1	1	0	0	0
137	2018	1	102.984	1	1	1	1	1	0	0
138	2018	2	103.004	1	1	1	1	0	1	0
139	2018	3	103.022	1	1	1	1	0	0	1
140	2018	4	103.037	1	1	1	1	0	0	0

KENTUCKY POWER COMPANY
 PUBLIC STREET AND HIGHWAY LIGHTING
 EXOGENOUS VARIABLES

Obs	YEAR	QTR	LCOM	D010N	D070N	d032on	d052on	d1	d2	d3
141	2019	1	103.062	1	1	1	1	1	0	0
142	2019	2	103.081	1	1	1	1	0	1	0
143	2019	3	103.093	1	1	1	1	0	0	1
144	2019	4	103.133	1	1	1	1	0	0	0
145	2020	1	103.168	1	1	1	1	1	0	0
146	2020	2	103.194	1	1	1	1	0	1	0
147	2020	3	103.228	1	1	1	1	0	0	1
148	2020	4	103.243	1	1	1	1	0	0	0
149	2021	1	103.264	1	1	1	1	1	0	0
150	2021	2	103.281	1	1	1	1	0	1	0
151	2021	3	103.295	1	1	1	1	0	0	1
152	2021	4	103.328	1	1	1	1	0	0	0
153	2022	1	103.344	1	1	1	1	1	0	0
154	2022	2	103.377	1	1	1	1	0	1	0
155	2022	3	103.400	1	1	1	1	0	0	1
156	2022	4	103.438	1	1	1	1	0	0	0
157	2023	1	103.449	1	1	1	1	1	0	0
158	2023	2	103.468	1	1	1	1	0	1	0
159	2023	3	103.485	1	1	1	1	0	0	1
160	2023	4	103.501	1	1	1	1	0	0	0
161	2024	1	103.497	1	1	1	1	1	0	0
162	2024	2	103.509	1	1	1	1	0	1	0
163	2024	3	103.517	1	1	1	1	0	0	1
164	2024	4	103.528	1	1	1	1	0	0	0
165	2025	1	103.557	1	1	1	1	1	0	0
166	2025	2	103.573	1	1	1	1	0	1	0
167	2025	3	103.586	1	1	1	1	0	0	1
168	2025	4	103.601	1	1	1	1	0	0	0
169	2026	1	103.614	1	1	1	1	1	0	0
170	2026	2	103.624	1	1	1	1	0	1	0
171	2026	3	103.622	1	1	1	1	0	0	1
172	2026	4	103.619	1	1	1	1	0	0	0
173	2027	1	103.623	1	1	1	1	1	0	0
174	2027	2	103.624	1	1	1	1	0	1	0
175	2027	3	103.620	1	1	1	1	0	0	1

KENTUCKY POWER COMPANY
 PUBLIC STREET AND HIGHWAY LIGHTING
 EXOGENOUS VARIABLES

Obs	YEAR	QTR	LCOM	D010N	D070N	d032on	d052on	d1	d2	d3
176	2027	4	103.611	1	1	1	1	0	0	0
177	2028	1	103.616	1	1	1	1	1	0	0
178	2028	2	103.616	1	1	1	1	0	1	0
179	2028	3	103.612	1	1	1	1	0	0	1
180	2028	4	103.617	1	1	1	1	0	0	0
181	2029	1	103.633	1	1	1	1	1	0	0
182	2029	2	103.637	1	1	1	1	0	1	0
183	2029	3	103.648	1	1	1	1	0	0	1
184	2029	4	103.678	1	1	1	1	0	0	0
185	2030	1	103.686	1	1	1	1	1	0	0
186	2030	2	103.698	1	1	1	1	0	1	0
187	2030	3	103.706	1	1	1	1	0	0	1
188	2030	4	103.702	1	1	1	1	0	0	0
189	2031	1	103.700	1	1	1	1	1	0	0
190	2031	2	103.685	1	1	1	1	0	1	0
191	2031	3	103.688	1	1	1	1	0	0	1
192	2031	4	103.686	1	1	1	1	0	0	0
193	2032	1	103.689	1	1	1	1	1	0	0
194	2032	2	103.687	1	1	1	1	0	1	0
195	2032	3	103.696	1	1	1	1	0	0	1
196	2032	4	103.697	1	1	1	1	0	0	0
197	2033	1	103.703	1	1	1	1	1	0	0
198	2033	2	103.726	1	1	1	1	0	1	0
199	2033	3	103.741	1	1	1	1	0	0	1
200	2033	4	103.767	1	1	1	1	0	0	0
201	2034	1	103.807	1	1	1	1	1	0	0
202	2034	2	103.859	1	1	1	1	0	1	0
203	2034	3	103.934	1	1	1	1	0	0	1
204	2034	4	104.029	1	1	1	1	0	0	0
205	2035	1	104.144	1	1	1	1	1	0	0
206	2035	2	104.259	1	1	1	1	0	1	0
207	2035	3	104.390	1	1	1	1	0	0	1
208	2035	4	104.530	1	1	1	1	0	0	0
209	2036	1	104.667	1	1	1	1	1	0	0
210	2036	2	104.815	1	1	1	1	0	1	0

KENTUCKY POWER COMPANY
 PUBLIC STREET AND HIGHWAY LIGHTING
 EXOGENOUS VARIABLES

Obs	YEAR	QTR	LCOM	D010N	D070N	d032on	d052on	d1	d2	d3
211	2036	3	104.957	1	1	1	1	0	0	1
212	2036	4	105.115	1	1	1	1	0	0	0
213	2037	1	105.268	1	1	1	1	1	0	0
214	2037	2	105.427	1	1	1	1	0	1	0
215	2037	3	105.570	1	1	1	1	0	0	1
216	2037	4	105.710	1	1	1	1	0	0	0
217	2038	1	105.888	1	1	1	1	1	0	0
218	2038	2	106.058	1	1	1	1	0	1	0
219	2038	3	106.203	1	1	1	1	0	0	1
220	2038	4	106.325	1	1	1	1	0	0	0

KENTUCKY POWER COMPANY
 PUBLIC STREET AND HIGHWAY LIGHTING
 EXOGENOUS VARIABLES
 MODEL ESTIMATION

The SYSLIN Procedure
 Ordinary Least Squares Estimation

Model eul_KPC
 Dependent Variable eul_KPC
 Label BILLED KWH

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	17.78410	2.223012	482.78	<.0001
Error	90	0.414414	0.004605		
Corrected Total	98	18.19851			

Root MSE 0.06786 R-Square 0.97723
 Dependent Mean 2.43317 Adj R-Sq 0.97520
 Coeff Var 2.78884

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variable Label
Intercept	1	1.114909	0.064508	17.28	<.0001	Intercept
LCOM	1	0.021424	0.000822	26.05	<.0001	SERVICE AREA COMMERCIAL EMPLOYMENT
d1	1	-0.14617	0.019487	-7.50	<.0001	BINARY VARIABLE -1ST QTR
d2	1	-0.79230	0.019429	-40.78	<.0001	BINARY VARIABLE -2ND QTR

KENTUCKY POWER COMPANY
PUBLIC STREET AND HIGHWAY LIGHTING
EXOGENOUS VARIABLES
MODEL ESTIMATION

The SYSLIN Procedure
Ordinary Least Squares Estimation

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variable Label
d3	1	-0.68350	0.019422	-35.19	<.0001	BINARY VARIABLE-3RD QTR
D010N	1	0.087040	0.028664	3.04	0.0031	BINARY VARIABLE-1999 ON
d0320n	1	-0.07424	0.033024	-2.25	0.0270	BINARY VARIABLE-2003 2ND QTR ON
d0520n	1	-0.36031	0.035173	-10.24	<.0001	BINARY VARIABLE-2005 2ND QTR ON
D070N	1	0.054137	0.036385	1.49	0.1403	BINARY VARIABLE-2007 ON

Durbin-Watson 1.434849
Number of Observations 99
First-Order Autocorrelation 0.282135

KENTUCKY POWER COMPANY
PUBLIC STREET AND HIGHWAY LIGHTING
MODEL RESIDUALS

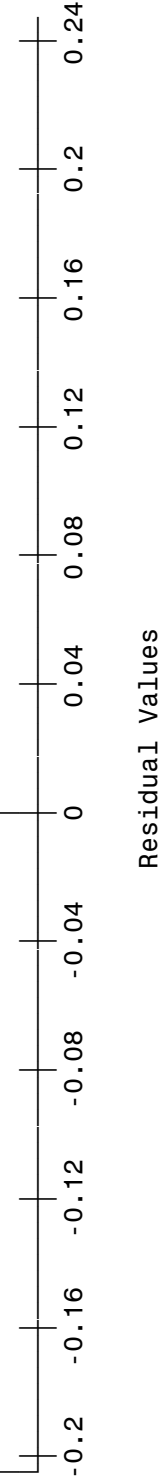
time	Residual Values	Sum
1984.00	**	0.010879
1984.25	*****	0.079506
1984.50	*****	0.068923
1984.75	*****	-0.041192
1985.00	**	0.011575
1985.25	*****	0.081279
1985.50	*****	0.083480
1985.75	*****	0.038587
1986.00	**	0.010147
1986.25	*****	0.081524
1986.50	*****	0.064497
1986.75	**	0.007505
1987.00	*****	-0.002183
1987.25	*****	0.090344
1987.50	*****	0.050676
1987.75	*****	-0.036493
1988.00	**	0.015113
1988.25	*****	0.081756
1988.50	*****	0.031967
1988.75	*****	-0.037481
1989.00	*****	-0.061089
1989.25	**	-0.008996
1989.50	*****	-0.073748
1989.75	*****	-0.130579
1990.00	*****	-0.201364
1990.25	*****	-0.090421
1990.50	*****	-0.065347
1990.75	*****	-0.036368
1991.00	*****	-0.034616
1991.25	*****	0.034982
1991.50	*****	0.002464
1991.75	*****	-0.072090
1992.00	*****	-0.062311
1992.25	*****	-0.057009

KENTUCKY POWER COMPANY
PUBLIC STREET AND HIGHWAY LIGHTING
MODEL RESIDUALS

1992.50	*****	*****	-0.069198
1992.75	*****	*****	-0.063798
1993.00	*****	*****	-0.074273
1993.25	*****	*****	0.029067
1993.50	*****	*****	-0.058302
1993.75	*****	*****	-0.025356
1994.00	*****	*****	-0.080949
1994.25	**	*****	-0.009292
1994.50	*****	*****	-0.053452
1994.75	**	*****	-0.008243
1995.00	*****	*****	-0.149845
1995.25	*****	*****	0.000467
1995.50	*****	*****	0.245070
1995.75	*****	*****	0.043242
1996.00	***	*****	-0.016670
1996.25	***	*****	-0.013936
1996.50	***	*****	-0.017696
1996.75	*****	*****	-0.039842
1997.00	*****	*****	0.026452
1997.25	*****	*****	0.023885
1997.50	**	*****	0.008997
1997.75	**	*****	0.016354
1998.00	*****	*****	0.031667
1998.25	**	*****	0.011576
1998.50	*	*****	0.004555
1998.75	*****	*****	0.049287
1999.00	*****	*****	0.090112
1999.25	*****	*****	0.027617
1999.50	*****	*****	0.035143
1999.75	*****	*****	0.058359
2000.00	*****	*****	0.072907
2000.25	*****	*****	0.000570
2000.50	*****	*****	0.036279
2000.75	*****	*****	0.035331
2001.00	*	*****	0.004488
2001.25	*****	*****	-0.040244
2001.50	*****	*****	-0.045029

KENTUCKY POWER COMPANY
PUBLIC STREET AND HIGHWAY LIGHTING
MODEL RESIDUALS

2001.75	*****	0.059114
2002.00	*****	0.049632
2002.25	*****	-0.031773
2002.50	*****	-0.033114
2002.75	**	0.011816
2003.00	*****	0.025110
2003.25	**	0.009084
2003.50	***	-0.015423
2003.75	*	-0.007354
2004.00	*****	0.093679
2004.25	*****	-0.043912
2004.50	*****	-0.061153
2004.75	***	0.012888
2005.00	**	0.012191
2005.25	*****	0.039208
2005.50	*****	-0.123930
2005.75	*****	0.079231
2006.00	*****	0.060771
2006.25	*****	-0.053315
2006.50	*****	-0.043021
2006.75	*****	0.041056
2007.00	***	0.018161
2007.25	*****	-0.140749
2007.50	**	0.011654
2007.75	*****	0.046025
2008.00	*****	0.150418
2008.25	*****	-0.101216
2008.50	***	0.015706



KENTUCKY POWER COMPANY
 PUBLIC STREET AND HIGHWAY LIGHTING
 ACTUAL AND FORECAST

YEAR	ENERGY SALES	GROWTH RATE
1984	8.226	.
1985	8.351	1.5
1986	8.342	-0.1
1987	8.412	0.8
1988	8.619	2.5
1989	8.513	-1.2
1990	8.682	2.0
1991	9.095	4.8
1992	9.186	1.0
1993	9.42	2.5
1994	9.636	2.3
1995	10.082	4.6
1996	9.961036	-1.2
1997	10.24647	2.9
1998	10.48395	2.3
1999	10.69185	2.0
2000	10.83215	1.3
2001	11.19278	3.3
2002	11.35001	1.4
2003	11.22481	-1.1
2004	11.12968	-0.8
2005	10.14687	-8.8
2006	9.817207	-3.2
2007	10.01535	2.0
2008	10.14136	1.3
2009	9.957244	-1.8
2010	10.02548	0.7
2011	10.21982	1.9
2012	10.38658	1.6
2013	10.45263	0.6
2014	10.46489	0.1
2015	10.46774	0.0
2016	10.47343	0.1

KENTUCKY POWER COMPANY
PUBLIC STREET AND HIGHWAY LIGHTING
ACTUAL AND FORECAST

YEAR	ENERGY SALES	GROWTH RATE
2017	10.48393	0.1
2018	10.49188	0.1
2019	10.49878	0.1
2020	10.50872	0.1
2021	10.5159	0.1
2022	10.52427	0.1
2023	10.53164	0.1
2024	10.53481	0.0
2025	10.54051	0.1
2026	10.54398	0.0
2027	10.54396	0.0
2028	10.5436	0.0
2029	10.54649	0.0
2030	10.55069	0.0
2031	10.54998	0.0
2032	10.5502	0.0
2033	10.5538	0.0
2034	10.56862	0.1
2035	10.60491	0.3
2036	10.65271	0.5
2037	10.70458	0.5
2038	10.75811	0.5

LONG-TERM MUNICIPALS

Kentucky Power Company
Municipal Energy Sales
Endogenous Variable

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2016.00
MONTH	MONTH	6.5000000
KWH	Energy (kWh)	7250631.78

Kentucky Power Company
 Municipal Energy Sales
 Endogenous Variable

Obs	YEAR	MONTH	KWH
1	1994	1	8318000
2	1994	2	6602000
3	1994	3	6490000
4	1994	4	5052000
5	1994	5	4988000
6	1994	6	6346000
7	1994	7	6877000
8	1994	8	6201000
9	1994	9	5050000
10	1994	10	5018000
11	1994	11	5556000
12	1994	12	6896000
13	1995	1	7826000
14	1995	2	7425000
15	1995	3	6174000
16	1995	4	5342000
17	1995	5	5327000
18	1995	6	6052000
19	1995	7	7138000
20	1995	8	8169000
21	1995	9	5435000
22	1995	10	5544000
23	1995	11	6609000
24	1995	12	7244000
25	1996	1	- 5360218
26	1996	2	22686123
27	1996	3	7255821
28	1996	4	4035719
29	1996	5	7661217
30	1996	6	6196037
31	1996	7	4475746
32	1996	8	9341771
33	1996	9	4474171
34	1996	10	6711304
35	1996	11	6987874

Kentucky Power Company
 Municipal Energy Sales
 Endogenous Variable

Obs	YEAR	MONTH	KWH
36	1996	12	8314221
37	1997	1	8483085
38	1997	2	7017371
39	1997	3	6594203
40	1997	4	5057414
41	1997	5	5468845
42	1997	6	5843017
43	1997	7	-7154573
44	1997	8	21246519
45	1997	9	5594610
46	1997	10	5686998
47	1997	11	6396912
48	1997	12	8458938
49	1998	1	7310956
50	1998	2	6241327
51	1998	3	9620215
52	1998	4	3646607
53	1998	5	5762428
54	1998	6	6832579
55	1998	7	7349890
56	1998	8	7151396
57	1998	9	6872418
58	1998	10	5174027
59	1998	11	6360849
60	1998	12	8167601
61	1999	1	8200469
62	1999	2	7312958
63	1999	3	7244392
64	1999	4	5426583
65	1999	5	5051934
66	1999	6	6926892
67	1999	7	8061550
68	1999	8	7051167
69	1999	9	6108505
70	1999	10	5190148

Kentucky Power Company
 Municipal Energy Sales
 Endogenous Variable

Obs	YEAR	MONTH	KWH
71	1999	11	5729768
72	1999	12	8383775
73	2000	1	8185700
74	2000	2	7546900
75	2000	3	6119000
76	2000	4	5413800
77	2000	5	5392900
78	2000	6	6552800
79	2000	7	6739700
80	2000	8	6774700
81	2000	9	5954700
82	2000	10	5468700
83	2000	11	7041500
84	2000	12	9607301
85	2001	1	9197700
86	2001	2	7119700
87	2001	3	7494200
88	2001	4	5823600
89	2001	5	5723400
90	2001	6	6241700
91	2001	7	7179900
92	2001	8	7400000
93	2001	9	5633400
94	2001	10	5707100
95	2001	11	6966400
96	2001	12	4772400
97	2002	1	11766100
98	2002	2	7496400
99	2002	3	6729500
100	2002	4	7866300
101	2002	5	5973800
102	2002	6	7247800
103	2002	7	8580100
104	2002	8	8238600
105	2002	9	6920500

Kentucky Power Company
 Municipal Energy Sales
 Endogenous Variable

Obs	YEAR	MONTH	KWH
106	2002	10	6313000
107	2002	11	7380400
108	2002	12	9441600
109	2003	1	10126000
110	2003	2	7479000
111	2003	3	7288400
112	2003	4	6241500
113	2003	5	5868700
114	2003	6	6345400
115	2003	7	8118900
116	2003	8	8042900
117	2003	9	6576900
118	2003	10	6560200
119	2003	11	6951400
120	2003	12	9551500
121	2004	1	10160200
122	2004	2	9128900
123	2004	3	7885500
124	2004	4	6664200
125	2004	5	7110500
126	2004	6	7472800
127	2004	7	8144300
128	2004	8	7580200
129	2004	9	7156000
130	2004	10	6302300
131	2004	11	6989800
132	2004	12	9864000
133	2005	1	9377800
134	2005	2	8663100
135	2005	3	9295359
136	2005	4	6486400
137	2005	5	6464500
138	2005	6	7789200
139	2005	7	8910500
140	2005	8	8807000

Kentucky Power Company
 Municipal Energy Sales
 Endogenous Variable

Obs	YEAR	MONTH	KWH
141	2005	9	7429800
142	2005	10	6764400
143	2005	11	8136300
144	2005	12	10477900
145	2006	1	9173169
146	2006	2	8853897
147	2006	3	8547555
148	2006	4	6458789
149	2006	5	6902659
150	2006	6	7466910
151	2006	7	8961167
152	2006	8	9176378
153	2006	9	6835064
154	2006	10	7621034
155	2006	11	8201920
156	2006	12	9469774
157	2007	1	9334069
158	2007	2	10197762
159	2007	3	8308494
160	2007	4	7495343
161	2007	5	7464549
162	2007	6	8001294
163	2007	7	8382844
164	2007	8	9540317
165	2007	9	7328756
166	2007	10	6752275
167	2007	11	7775781
168	2007	12	9667338
169	2008	1	11023783
170	2008	2	9801525
171	2008	3	9044890
172	2008	4	6926459
173	2008	5	6760591
174	2008	6	7840180
175	2008	7	8582710

Kentucky Power Company
 Municipal Energy Sales
 Endogenous Variable

Obs	YEAR	MONTH	KWH
176	2008	8	8125313
177	2008	9	6998056
178	2008	10	7038193
179	2008	11	.
180	2008	12	.
181	2009	1	.
182	2009	2	.
183	2009	3	.
184	2009	4	.
185	2009	5	.
186	2009	6	.
187	2009	7	.
188	2009	8	.
189	2009	9	.
190	2009	10	.
191	2009	11	.
192	2009	12	.
193	2010	1	.
194	2010	2	.
195	2010	3	.
196	2010	4	.
197	2010	5	.
198	2010	6	.
199	2010	7	.
200	2010	8	.
201	2010	9	.
202	2010	10	.
203	2010	11	.
204	2010	12	.
205	2011	1	.
206	2011	2	.
207	2011	3	.
208	2011	4	.
209	2011	5	.
210	2011	6	.

Kentucky Power Company
 Municipal Energy Sales
 Endogenous Variable

Obs	YEAR	MONTH	KWH
211	2011	7	.
212	2011	8	.
213	2011	9	.
214	2011	10	.
215	2011	11	.
216	2011	12	.
217	2012	1	.
218	2012	2	.
219	2012	3	.
220	2012	4	.
221	2012	5	.
222	2012	6	.
223	2012	7	.
224	2012	8	.
225	2012	9	.
226	2012	10	.
227	2012	11	.
228	2012	12	.
229	2013	1	.
230	2013	2	.
231	2013	3	.
232	2013	4	.
233	2013	5	.
234	2013	6	.
235	2013	7	.
236	2013	8	.
237	2013	9	.
238	2013	10	.
239	2013	11	.
240	2013	12	.
241	2014	1	.
242	2014	2	.
243	2014	3	.
244	2014	4	.
245	2014	5	.

Kentucky Power Company
 Municipal Energy Sales
 Endogenous Variable

Obs	YEAR	MONTH	KWH
246	2014	6	.
247	2014	7	.
248	2014	8	.
249	2014	9	.
250	2014	10	.
251	2014	11	.
252	2014	12	.
253	2015	1	.
254	2015	2	.
255	2015	3	.
256	2015	4	.
257	2015	5	.
258	2015	6	.
259	2015	7	.
260	2015	8	.
261	2015	9	.
262	2015	10	.
263	2015	11	.
264	2015	12	.
265	2016	1	.
266	2016	2	.
267	2016	3	.
268	2016	4	.
269	2016	5	.
270	2016	6	.
271	2016	7	.
272	2016	8	.
273	2016	9	.
274	2016	10	.
275	2016	11	.
276	2016	12	.
277	2017	1	.
278	2017	2	.
279	2017	3	.
280	2017	4	.

Kentucky Power Company
 Municipal Energy Sales
 Endogenous Variable

Obs	YEAR	MONTH	KWH
281	2017	5	.
282	2017	6	.
283	2017	7	.
284	2017	8	.
285	2017	9	.
286	2017	10	.
287	2017	11	.
288	2017	12	.
289	2018	1	.
290	2018	2	.
291	2018	3	.
292	2018	4	.
293	2018	5	.
294	2018	6	.
295	2018	7	.
296	2018	8	.
297	2018	9	.
298	2018	10	.
299	2018	11	.
300	2018	12	.
301	2019	1	.
302	2019	2	.
303	2019	3	.
304	2019	4	.
305	2019	5	.
306	2019	6	.
307	2019	7	.
308	2019	8	.
309	2019	9	.
310	2019	10	.
311	2019	11	.
312	2019	12	.
313	2020	1	.
314	2020	2	.
315	2020	3	.

Kentucky Power Company
 Municipal Energy Sales
 Endogenous Variable

Obs	YEAR	MONTH	KWH
316	2020	4	.
317	2020	5	.
318	2020	6	.
319	2020	7	.
320	2020	8	.
321	2020	9	.
322	2020	10	.
323	2020	11	.
324	2020	12	.
325	2021	1	.
326	2021	2	.
327	2021	3	.
328	2021	4	.
329	2021	5	.
330	2021	6	.
331	2021	7	.
332	2021	8	.
333	2021	9	.
334	2021	10	.
335	2021	11	.
336	2021	12	.
337	2022	1	.
338	2022	2	.
339	2022	3	.
340	2022	4	.
341	2022	5	.
342	2022	6	.
343	2022	7	.
344	2022	8	.
345	2022	9	.
346	2022	10	.
347	2022	11	.
348	2022	12	.
349	2023	1	.
350	2023	2	.

Kentucky Power Company
 Municipal Energy Sales
 Endogenous Variable

Obs	YEAR	MONTH	KWH
351	2023	3	.
352	2023	4	.
353	2023	5	.
354	2023	6	.
355	2023	7	.
356	2023	8	.
357	2023	9	.
358	2023	10	.
359	2023	11	.
360	2023	12	.
361	2024	1	.
362	2024	2	.
363	2024	3	.
364	2024	4	.
365	2024	5	.
366	2024	6	.
367	2024	7	.
368	2024	8	.
369	2024	9	.
370	2024	10	.
371	2024	11	.
372	2024	12	.
373	2025	1	.
374	2025	2	.
375	2025	3	.
376	2025	4	.
377	2025	5	.
378	2025	6	.
379	2025	7	.
380	2025	8	.
381	2025	9	.
382	2025	10	.
383	2025	11	.
384	2025	12	.
385	2026	1	.

Kentucky Power Company
 Municipal Energy Sales
 Endogenous Variable

Obs	YEAR	MONTH	KWH
386	2026	2	.
387	2026	3	.
388	2026	4	.
389	2026	5	.
390	2026	6	.
391	2026	7	.
392	2026	8	.
393	2026	9	.
394	2026	10	.
395	2026	11	.
396	2026	12	.
397	2027	1	.
398	2027	2	.
399	2027	3	.
400	2027	4	.
401	2027	5	.
402	2027	6	.
403	2027	7	.
404	2027	8	.
405	2027	9	.
406	2027	10	.
407	2027	11	.
408	2027	12	.
409	2028	1	.
410	2028	2	.
411	2028	3	.
412	2028	4	.
413	2028	5	.
414	2028	6	.
415	2028	7	.
416	2028	8	.
417	2028	9	.
418	2028	10	.
419	2028	11	.
420	2028	12	.

Kentucky Power Company
 Municipal Energy Sales
 Endogenous Variable

Obs	YEAR	MONTH	KWH
421	2029	1	.
422	2029	2	.
423	2029	3	.
424	2029	4	.
425	2029	5	.
426	2029	6	.
427	2029	7	.
428	2029	8	.
429	2029	9	.
430	2029	10	.
431	2029	11	.
432	2029	12	.
433	2030	1	.
434	2030	2	.
435	2030	3	.
436	2030	4	.
437	2030	5	.
438	2030	6	.
439	2030	7	.
440	2030	8	.
441	2030	9	.
442	2030	10	.
443	2030	11	.
444	2030	12	.
445	2031	1	.
446	2031	2	.
447	2031	3	.
448	2031	4	.
449	2031	5	.
450	2031	6	.
451	2031	7	.
452	2031	8	.
453	2031	9	.
454	2031	10	.
455	2031	11	.

Kentucky Power Company
 Municipal Energy Sales
 Endogenous Variable

Obs	YEAR	MONTH	KWH
456	2031	12	.
457	2032	1	.
458	2032	2	.
459	2032	3	.
460	2032	4	.
461	2032	5	.
462	2032	6	.
463	2032	7	.
464	2032	8	.
465	2032	9	.
466	2032	10	.
467	2032	11	.
468	2032	12	.
469	2033	1	.
470	2033	2	.
471	2033	3	.
472	2033	4	.
473	2033	5	.
474	2033	6	.
475	2033	7	.
476	2033	8	.
477	2033	9	.
478	2033	10	.
479	2033	11	.
480	2033	12	.
481	2034	1	.
482	2034	2	.
483	2034	3	.
484	2034	4	.
485	2034	5	.
486	2034	6	.
487	2034	7	.
488	2034	8	.
489	2034	9	.
490	2034	10	.

Kentucky Power Company
 Municipal Energy Sales
 Endogenous Variable

Obs	YEAR	MONTH	KWH
491	2034	11	.
492	2034	12	.
493	2035	1	.
494	2035	2	.
495	2035	3	.
496	2035	4	.
497	2035	5	.
498	2035	6	.
499	2035	7	.
500	2035	8	.
501	2035	9	.
502	2035	10	.
503	2035	11	.
504	2035	12	.
505	2036	1	.
506	2036	2	.
507	2036	3	.
508	2036	4	.
509	2036	5	.
510	2036	6	.
511	2036	7	.
512	2036	8	.
513	2036	9	.
514	2036	10	.
515	2036	11	.
516	2036	12	.
517	2037	1	.
518	2037	2	.
519	2037	3	.
520	2037	4	.
521	2037	5	.
522	2037	6	.
523	2037	7	.
524	2037	8	.
525	2037	9	.

Kentucky Power Company
Municipal Energy Sales
Endogenous Variable

Obs	YEAR	MONTH	KWH
526	2037	10	.
527	2037	11	.
528	2037	12	.
529	2038	1	.
530	2038	2	.
531	2038	3	.
532	2038	4	.
533	2038	5	.
534	2038	6	.
535	2038	7	.
536	2038	8	.
537	2038	9	.
538	2038	10	.
539	2038	11	.
540	2038	12	.

Kentucky Power Company
Municipal Energy Sales
Exogenous Variables

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2016.00
MONTH	MONTH	6.5000000
bcdd65	Cooling Degree Days (Base 65)	98.0592721
bhdd55	Heating Degree Days (Base 55)	208.1704224
gdp_kpc	Service Area Gross Regional Product	10154.67
ju197	Binary Variable-July 1997	0.0018519
aug97	Binary Variable-August 1997	0.0018519
jan96	Binary Variable-January 1996	0.0018519
feb96	Binary Variable-February 1996	0.0018519
d05on		0.7555556

Kentucky Power Company
 Municipal Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc	jul97	aug97	jan96	feb96	d05on
1	1994	1	0.000	739.800	7389.70	0	0	0	0	0
2	1994	2	0.000	790.099	7389.70	0	0	0	0	0
3	1994	3	0.098	447.231	7389.70	0	0	0	0	0
4	1994	4	6.349	234.448	7492.12	0	0	0	0	0
5	1994	5	46.798	30.893	7492.12	0	0	0	0	0
6	1994	6	132.343	3.894	7492.12	0	0	0	0	0
7	1994	7	371.176	0.000	7580.32	0	0	0	0	0
8	1994	8	305.921	0.000	7580.32	0	0	0	0	0
9	1994	9	176.948	0.000	7580.32	0	0	0	0	0
10	1994	10	43.525	9.916	7640.08	0	0	0	0	0
11	1994	11	4.483	74.288	7640.08	0	0	0	0	0
12	1994	12	1.800	254.149	7640.08	0	0	0	0	0
13	1995	1	0.000	508.821	7673.52	0	0	0	0	0
14	1995	2	0.000	683.904	7673.52	0	0	0	0	0
15	1995	3	0.000	467.717	7673.52	0	0	0	0	0
16	1995	4	6.349	172.760	7685.68	0	0	0	0	0
17	1995	5	25.788	61.917	7685.68	0	0	0	0	0
18	1995	6	116.046	3.960	7685.68	0	0	0	0	0
19	1995	7	274.504	0.000	7681.40	0	0	0	0	0
20	1995	8	428.054	0.000	7681.40	0	0	0	0	0
21	1995	9	337.469	0.491	7681.40	0	0	0	0	0
22	1995	10	62.735	13.123	7669.45	0	0	0	0	0
23	1995	11	5.792	196.813	7669.45	0	0	0	0	0
24	1995	12	0.393	481.135	7669.45	0	0	0	0	0
25	1996	1	0.000	730.931	7663.45	0	0	1	0	0
26	1996	2	0.000	726.807	7663.45	0	0	0	1	0
27	1996	3	0.000	501.065	7663.45	0	0	0	0	0
28	1996	4	7.134	345.650	7677.08	0	0	0	0	0
29	1996	5	71.473	75.793	7677.08	0	0	0	0	0
30	1996	6	153.648	10.407	7677.08	0	0	0	0	0
31	1996	7	293.943	0.000	7723.22	0	0	0	0	0
32	1996	8	269.955	0.000	7723.22	0	0	0	0	0
33	1996	9	233.859	0.000	7723.22	0	0	0	0	0
34	1996	10	42.871	23.072	7802.37	0	0	0	0	0
35	1996	11	6.054	187.290	7802.37	0	0	0	0	0

Kentucky Power Company
 Municipal Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc	jul97	aug97	jan96	feb96	d05on
36	1996	12	1.440	469.386	7802.37	0	0	0	0	0
37	1997	1	0.753	511.799	7900.20	0	0	0	0	0
38	1997	2	0.622	618.289	7900.20	0	0	0	0	0
39	1997	3	2.651	340.839	7900.20	0	0	0	0	0
40	1997	4	6.054	217.561	8003.10	0	0	0	0	0
41	1997	5	6.971	100.174	8003.10	0	0	0	0	0
42	1997	6	51.380	15.119	8003.10	0	0	0	0	0
43	1997	7	241.156	0.000	8099.46	1	0	0	0	0
44	1997	8	296.856	0.000	8099.46	0	1	0	0	0
45	1997	9	161.109	0.000	8099.46	0	0	0	0	0
46	1997	10	50.660	16.036	8181.95	0	0	0	0	0
47	1997	11	14.727	223.746	8181.95	0	0	0	0	0
48	1997	12	0.000	429.068	8181.95	0	0	0	0	0
49	1998	1	0.000	458.129	8249.71	0	0	0	0	0
50	1998	2	0.000	485.226	8249.71	0	0	0	0	0
51	1998	3	0.033	389.175	8249.71	0	0	0	0	0
52	1998	4	41.529	227.248	8304.39	0	0	0	0	0
53	1998	5	23.235	33.969	8304.39	0	0	0	0	0
54	1998	6	133.456	0.753	8304.39	0	0	0	0	0
55	1998	7	285.958	0.327	8347.49	0	0	0	0	0
56	1998	8	294.925	0.000	8347.49	0	0	0	0	0
57	1998	9	286.220	0.000	8347.49	0	0	0	0	0
58	1998	10	175.705	6.316	8374.99	0	0	0	0	0
59	1998	11	12.959	127.598	8374.99	0	0	0	0	0
60	1998	12	2.749	244.364	8374.99	0	0	0	0	0
61	1999	1	1.178	619.041	8378.97	0	0	0	0	0
62	1999	2	0.000	431.653	8378.97	0	0	0	0	0
63	1999	3	0.000	516.250	8378.97	0	0	0	0	0
64	1999	4	9.458	267.533	8352.00	0	0	0	0	0
65	1999	5	32.071	32.300	8352.00	0	0	0	0	0
66	1999	6	149.197	0.000	8352.00	0	0	0	0	0
67	1999	7	346.664	0.000	8286.95	0	0	0	0	0
68	1999	8	430.050	0.000	8286.95	0	0	0	0	0
69	1999	9	219.067	0.131	8286.95	0	0	0	0	0
70	1999	10	45.620	14.596	8194.02	0	0	0	0	0

Kentucky Power Company
 Municipal Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc	jul97	aug97	jan96	feb96	d05on
71	1999	11	2.553	121.740	8194.02	0	0	0	0	0
72	1999	12	0.000	297.576	8194.02	0	0	0	0	0
73	2000	1	0.000	539.714	8102.52	0	0	0	0	0
74	2000	2	0.000	715.255	8102.52	0	0	0	0	0
75	2000	3	2.029	278.169	8102.52	0	0	0	0	0
76	2000	4	4.713	153.615	8042.12	0	0	0	0	0
77	2000	5	51.445	57.336	8042.12	0	0	0	0	0
78	2000	6	143.732	0.131	8042.12	0	0	0	0	0
79	2000	7	261.970	0.000	8039.86	0	0	0	0	0
80	2000	8	229.801	0.000	8039.86	0	0	0	0	0
81	2000	9	199.627	0.655	8039.86	0	0	0	0	0
82	2000	10	69.051	36.162	8100.28	0	0	0	0	0
83	2000	11	9.589	124.064	8100.28	0	0	0	0	0
84	2000	12	0.000	548.321	8100.28	0	0	0	0	0
85	2001	1	0.000	817.262	8201.40	0	0	0	0	0
86	2001	2	0.000	632.819	8201.40	0	0	0	0	0
87	2001	3	0.000	442.977	8201.40	0	0	0	0	0
88	2001	4	38.158	304.023	8320.45	0	0	0	0	0
89	2001	5	85.087	46.602	8320.45	0	0	0	0	0
90	2001	6	91.370	2.749	8320.45	0	0	0	0	0
91	2001	7	227.444	0.000	8437.62	0	0	0	0	0
92	2001	8	331.316	0.000	8437.62	0	0	0	0	0
93	2001	9	257.650	0.131	8437.62	0	0	0	0	0
94	2001	10	63.063	27.195	8539.63	0	0	0	0	0
95	2001	11	18.654	131.296	8539.63	0	0	0	0	0
96	2001	12	0.589	170.567	8539.63	0	0	0	0	0
97	2002	1	0.000	573.422	8622.24	0	0	0	0	0
98	2002	2	0.000	472.888	8622.24	0	0	0	0	0
99	2002	3	1.178	420.690	8622.24	0	0	0	0	0
100	2002	4	17.966	225.317	8684.48	0	0	0	0	0
101	2002	5	51.183	59.921	8684.48	0	0	0	0	0
102	2002	6	134.405	34.493	8684.48	0	0	0	0	0
103	2002	7	308.113	0.000	8725.92	0	0	0	0	0
104	2002	8	391.139	0.000	8725.92	0	0	0	0	0
105	2002	9	345.486	0.000	8725.92	0	0	0	0	0

Kentucky Power Company
 Municipal Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc	jul97	aug97	jan96	feb96	d05on
106	2002	10	140.001	12.959	8749.68	0	0	0	0	0
107	2002	11	13.908	159.342	8749.68	0	0	0	0	0
108	2002	12	1.833	476.128	8749.68	0	0	0	0	0
109	2003	1	0.000	567.106	8764.65	0	0	0	0	0
110	2003	2	0.000	792.325	8764.65	0	0	0	0	0
111	2003	3	0.000	534.674	8764.65	0	0	0	0	0
112	2003	4	15.447	141.343	8780.56	0	0	0	0	0
113	2003	5	38.486	30.566	8780.56	0	0	0	0	0
114	2003	6	52.329	0.000	8780.56	0	0	0	0	0
115	2003	7	220.277	0.000	8806.71	0	0	0	0	0
116	2003	8	262.788	0.000	8806.71	0	0	0	0	0
117	2003	9	251.072	0.000	8806.71	0	0	0	0	0
118	2003	10	36.620	35.638	8845.41	0	0	0	0	0
119	2003	11	8.640	98.636	8845.41	0	0	0	0	0
120	2003	12	0.982	345.977	8845.41	0	0	0	0	0
121	2004	1	0.785	558.728	8891.52	0	0	0	0	0
122	2004	2	0.262	719.771	8891.52	0	0	0	0	0
123	2004	3	2.356	418.007	8891.52	0	0	0	0	0
124	2004	4	13.058	231.044	8939.55	0	0	0	0	0
125	2004	5	72.520	57.139	8939.55	0	0	0	0	0
126	2004	6	198.973	3.960	8939.55	0	0	0	0	0
127	2004	7	254.312	0.000	8984.75	0	0	0	0	0
128	2004	8	251.007	0.000	8984.75	0	0	0	0	0
129	2004	9	220.081	0.000	8984.75	0	0	0	0	0
130	2004	10	65.419	9.687	9022.78	0	0	0	0	0
131	2004	11	13.058	62.441	9022.78	0	0	0	0	0
132	2004	12	1.898	288.020	9022.78	0	0	0	0	0
133	2005	1	0.000	487.844	9049.95	0	0	0	0	1
134	2005	2	0.000	585.563	9049.95	0	0	0	0	1
135	2005	3	0.000	499.739	9049.95	0	0	0	0	1
136	2005	4	5.858	232.271	9063.56	0	0	0	0	1
137	2005	5	21.566	67.104	9063.56	0	0	0	0	1
138	2005	6	125.880	9.147	9063.56	0	0	0	0	1
139	2005	7	358.446	0.000	9061.42	0	0	0	0	1
140	2005	8	457.310	0.000	9061.42	0	0	0	0	1

Kentucky Power Company
 Municipal Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc	jul97	aug97	jan96	feb96	d05on
141	2005	9	344.668	0.000	9061.42	0	0	0	0	1
142	2005	10	158.737	5.711	9048.87	0	0	0	0	1
143	2005	11	9.998	143.944	9048.87	0	0	0	0	1
144	2005	12	1.473	488.547	9048.87	0	0	0	0	1
145	2006	1	0.000	487.778	9039.96	0	0	0	0	1
146	2006	2	0.000	415.045	9039.96	0	0	0	0	1
147	2006	3	1.374	469.910	9039.96	0	0	0	0	1
148	2006	4	16.559	244.167	9048.96	0	0	0	0	1
149	2006	5	27.833	19.979	9048.96	0	0	0	0	1
150	2006	6	105.312	3.862	9048.96	0	0	0	0	1
151	2006	7	260.187	0.000	9089.46	0	0	0	0	1
152	2006	8	410.153	0.000	9089.46	0	0	0	0	1
153	2006	9	260.776	0.916	9089.46	0	0	0	0	1
154	2006	10	36.767	37.978	9161.40	0	0	0	0	1
155	2006	11	2.536	209.216	9161.40	0	0	0	0	1
156	2006	12	2.651	329.925	9161.40	0	0	0	0	1
157	2007	1	0.295	354.061	9248.67	0	0	0	0	1
158	2007	2	0.000	712.277	9248.67	0	0	0	0	1
159	2007	3	2.258	601.189	9248.67	0	0	0	0	1
160	2007	4	29.421	207.825	9335.55	0	0	0	0	1
161	2007	5	51.036	78.362	9335.55	0	0	0	0	1
162	2007	6	180.434	3.223	9335.55	0	0	0	0	1
163	2007	7	293.469	0.000	9408.16	0	0	0	0	1
164	2007	8	344.046	0.000	9408.16	0	0	0	0	1
165	2007	9	379.456	0.000	9408.16	0	0	0	0	1
166	2007	10	176.310	6.594	9458.06	0	0	0	0	1
167	2007	11	29.895	128.760	9458.06	0	0	0	0	1
168	2007	12	0.000	366.398	9458.06	0	0	0	0	1
169	2008	1	0.000	497.989	9485.02	0	0	0	0	1
170	2008	2	0.000	607.816	9485.02	0	0	0	0	1
171	2008	3	0.000	519.735	9485.02	0	0	0	0	1
172	2008	4	1.440	234.235	9490.44	0	0	0	0	1
173	2008	5	42.330	59.704	9490.44	0	0	0	0	1
174	2008	6	132.438	6.696	9490.44	0	0	0	0	1
175	2008	7	282.048	0.033	9475.96	0	0	0	0	1

Kentucky Power Company
 Municipal Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc	jul97	aug97	jan96	feb96	d05on
176	2008	8	341.880	0.000	9475.96	0	0	0	0	1
177	2008	9	267.806	0.248	9475.96	0	0	0	0	1
178	2008	10	87.446	23.785	9448.57	0	0	0	0	1
179	2008	11	12.146	141.925	9448.57	0	0	0	0	1
180	2008	12	1.742	366.913	9448.57	0	0	0	0	1
181	2009	1	0.369	581.662	9421.62	0	0	0	0	1
182	2009	2	0.046	635.733	9421.62	0	0	0	0	1
183	2009	3	1.252	463.579	9421.62	0	0	0	0	1
184	2009	4	12.652	233.190	9408.14	0	0	0	0	1
185	2009	5	42.330	59.704	9408.14	0	0	0	0	1
186	2009	6	132.438	6.696	9408.14	0	0	0	0	1
187	2009	7	282.048	0.033	9420.40	0	0	0	0	1
188	2009	8	341.880	0.000	9420.40	0	0	0	0	1
189	2009	9	267.806	0.248	9420.40	0	0	0	0	1
190	2009	10	87.446	23.785	9460.76	0	0	0	0	1
191	2009	11	12.146	141.925	9460.76	0	0	0	0	1
192	2009	12	1.742	366.913	9460.76	0	0	0	0	1
193	2010	1	0.369	581.662	9519.32	0	0	0	0	1
194	2010	2	0.046	635.733	9519.32	0	0	0	0	1
195	2010	3	1.252	463.579	9519.32	0	0	0	0	1
196	2010	4	12.652	233.190	9586.13	0	0	0	0	1
197	2010	5	42.330	59.704	9586.13	0	0	0	0	1
198	2010	6	132.438	6.696	9586.13	0	0	0	0	1
199	2010	7	282.048	0.033	9652.67	0	0	0	0	1
200	2010	8	341.880	0.000	9652.67	0	0	0	0	1
201	2010	9	267.806	0.248	9652.67	0	0	0	0	1
202	2010	10	87.446	23.785	9713.04	0	0	0	0	1
203	2010	11	12.146	141.925	9713.04	0	0	0	0	1
204	2010	12	1.742	366.913	9713.04	0	0	0	0	1
205	2011	1	0.369	581.662	9765.10	0	0	0	0	1
206	2011	2	0.046	635.733	9765.10	0	0	0	0	1
207	2011	3	1.252	463.579	9765.10	0	0	0	0	1
208	2011	4	12.652	233.190	9808.54	0	0	0	0	1
209	2011	5	42.330	59.704	9808.54	0	0	0	0	1
210	2011	6	132.438	6.696	9808.54	0	0	0	0	1

Kentucky Power Company
 Municipal Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc	jul97	aug97	jan96	feb96	d05on
211	2011	7	282.048	0.033	9843.38	0	0	0	0	1
212	2011	8	341.880	0.000	9843.38	0	0	0	0	1
213	2011	9	267.806	0.248	9843.38	0	0	0	0	1
214	2011	10	87.446	23.785	9870.34	0	0	0	0	1
215	2011	11	12.146	141.925	9870.34	0	0	0	0	1
216	2011	12	1.742	366.913	9870.34	0	0	0	0	1
217	2012	1	0.369	581.662	9892.03	0	0	0	0	1
218	2012	2	0.046	635.733	9892.03	0	0	0	0	1
219	2012	3	1.252	463.579	9892.03	0	0	0	0	1
220	2012	4	12.652	233.190	9911.58	0	0	0	0	1
221	2012	5	42.330	59.704	9911.58	0	0	0	0	1
222	2012	6	132.438	6.696	9911.58	0	0	0	0	1
223	2012	7	282.048	0.033	9932.10	0	0	0	0	1
224	2012	8	341.880	0.000	9932.10	0	0	0	0	1
225	2012	9	267.806	0.248	9932.10	0	0	0	0	1
226	2012	10	87.446	23.785	9954.71	0	0	0	0	1
227	2012	11	12.146	141.925	9954.71	0	0	0	0	1
228	2012	12	1.742	366.913	9954.71	0	0	0	0	1
229	2013	1	0.369	581.662	9978.28	0	0	0	0	1
230	2013	2	0.046	635.733	9978.28	0	0	0	0	1
231	2013	3	1.252	463.579	9978.28	0	0	0	0	1
232	2013	4	12.652	233.190	10002.00	0	0	0	0	1
233	2013	5	42.330	59.704	10002.00	0	0	0	0	1
234	2013	6	132.438	6.696	10002.00	0	0	0	0	1
235	2013	7	282.048	0.033	10025.39	0	0	0	0	1
236	2013	8	341.880	0.000	10025.39	0	0	0	0	1
237	2013	9	267.806	0.248	10025.39	0	0	0	0	1
238	2013	10	87.446	23.785	10047.92	0	0	0	0	1
239	2013	11	12.146	141.925	10047.92	0	0	0	0	1
240	2013	12	1.742	366.913	10047.92	0	0	0	0	1
241	2014	1	0.369	581.662	10069.37	0	0	0	0	1
242	2014	2	0.046	635.733	10069.37	0	0	0	0	1
243	2014	3	1.252	463.579	10069.37	0	0	0	0	1
244	2014	4	12.652	233.190	10090.02	0	0	0	0	1
245	2014	5	42.330	59.704	10090.02	0	0	0	0	1

Kentucky Power Company
 Municipal Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc	jul97	aug97	jan96	feb96	d05on
246	2014	6	132.438	6.696	10090.02	0	0	0	0	1
247	2014	7	282.048	0.033	10110.41	0	0	0	0	1
248	2014	8	341.880	0.000	10110.41	0	0	0	0	1
249	2014	9	267.806	0.248	10110.41	0	0	0	0	1
250	2014	10	87.446	23.785	10130.72	0	0	0	0	1
251	2014	11	12.146	141.925	10130.72	0	0	0	0	1
252	2014	12	1.742	366.913	10130.72	0	0	0	0	1
253	2015	1	0.369	581.662	10151.07	0	0	0	0	1
254	2015	2	0.046	635.733	10151.07	0	0	0	0	1
255	2015	3	1.252	463.579	10151.07	0	0	0	0	1
256	2015	4	12.652	233.190	10172.02	0	0	0	0	1
257	2015	5	42.330	59.704	10172.02	0	0	0	0	1
258	2015	6	132.438	6.696	10172.02	0	0	0	0	1
259	2015	7	282.048	0.033	10194.37	0	0	0	0	1
260	2015	8	341.880	0.000	10194.37	0	0	0	0	1
261	2015	9	267.806	0.248	10194.37	0	0	0	0	1
262	2015	10	87.446	23.785	10218.19	0	0	0	0	1
263	2015	11	12.146	141.925	10218.19	0	0	0	0	1
264	2015	12	1.742	366.913	10218.19	0	0	0	0	1
265	2016	1	0.369	581.662	10243.11	0	0	0	0	1
266	2016	2	0.046	635.733	10243.11	0	0	0	0	1
267	2016	3	1.252	463.579	10243.11	0	0	0	0	1
268	2016	4	12.652	233.190	10269.01	0	0	0	0	1
269	2016	5	42.330	59.704	10269.01	0	0	0	0	1
270	2016	6	132.438	6.696	10269.01	0	0	0	0	1
271	2016	7	282.048	0.033	10296.01	0	0	0	0	1
272	2016	8	341.880	0.000	10296.01	0	0	0	0	1
273	2016	9	267.806	0.248	10296.01	0	0	0	0	1
274	2016	10	87.446	23.785	10323.74	0	0	0	0	1
275	2016	11	12.146	141.925	10323.74	0	0	0	0	1
276	2016	12	1.742	366.913	10323.74	0	0	0	0	1
277	2017	1	0.369	581.662	10351.10	0	0	0	0	1
278	2017	2	0.046	635.733	10351.10	0	0	0	0	1
279	2017	3	1.252	463.579	10351.10	0	0	0	0	1
280	2017	4	12.652	233.190	10377.59	0	0	0	0	1

Kentucky Power Company
 Municipal Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc	jul97	aug97	jan96	feb96	d05on
281	2017	5	42.330	59.704	10377.59	0	0	0	0	1
282	2017	6	132.438	6.696	10377.59	0	0	0	0	1
283	2017	7	282.048	0.033	10403.04	0	0	0	0	1
284	2017	8	341.880	0.000	10403.04	0	0	0	0	1
285	2017	9	267.806	0.248	10403.04	0	0	0	0	1
286	2017	10	87.446	23.785	10427.18	0	0	0	0	1
287	2017	11	12.146	141.925	10427.18	0	0	0	0	1
288	2017	12	1.742	366.913	10427.18	0	0	0	0	1
289	2018	1	0.369	581.662	10450.07	0	0	0	0	1
290	2018	2	0.046	635.733	10450.07	0	0	0	0	1
291	2018	3	1.252	463.579	10450.07	0	0	0	0	1
292	2018	4	12.652	233.190	10472.34	0	0	0	0	1
293	2018	5	42.330	59.704	10472.34	0	0	0	0	1
294	2018	6	132.438	6.696	10472.34	0	0	0	0	1
295	2018	7	282.048	0.033	10494.82	0	0	0	0	1
296	2018	8	341.880	0.000	10494.82	0	0	0	0	1
297	2018	9	267.806	0.248	10494.82	0	0	0	0	1
298	2018	10	87.446	23.785	10517.63	0	0	0	0	1
299	2018	11	12.146	141.925	10517.63	0	0	0	0	1
300	2018	12	1.742	366.913	10517.63	0	0	0	0	1
301	2019	1	0.369	581.662	10540.39	0	0	0	0	1
302	2019	2	0.046	635.733	10540.39	0	0	0	0	1
303	2019	3	1.252	463.579	10540.39	0	0	0	0	1
304	2019	4	12.652	233.190	10563.18	0	0	0	0	1
305	2019	5	42.330	59.704	10563.18	0	0	0	0	1
306	2019	6	132.438	6.696	10563.18	0	0	0	0	1
307	2019	7	282.048	0.033	10586.36	0	0	0	0	1
308	2019	8	341.880	0.000	10586.36	0	0	0	0	1
309	2019	9	267.806	0.248	10586.36	0	0	0	0	1
310	2019	10	87.446	23.785	10609.85	0	0	0	0	1
311	2019	11	12.146	141.925	10609.85	0	0	0	0	1
312	2019	12	1.742	366.913	10609.85	0	0	0	0	1
313	2020	1	0.369	581.662	10633.50	0	0	0	0	1
314	2020	2	0.046	635.733	10633.50	0	0	0	0	1
315	2020	3	1.252	463.579	10633.50	0	0	0	0	1

Kentucky Power Company
 Municipal Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc	jul97	aug97	jan96	feb96	d05on
316	2020	4	12.652	233.190	10657.39	0	0	0	0	1
317	2020	5	42.330	59.704	10657.39	0	0	0	0	1
318	2020	6	132.438	6.696	10657.39	0	0	0	0	1
319	2020	7	282.048	0.033	10681.89	0	0	0	0	1
320	2020	8	341.880	0.000	10681.89	0	0	0	0	1
321	2020	9	267.806	0.248	10681.89	0	0	0	0	1
322	2020	10	87.446	23.785	10706.94	0	0	0	0	1
323	2020	11	12.146	141.925	10706.94	0	0	0	0	1
324	2020	12	1.742	366.913	10706.94	0	0	0	0	1
325	2021	1	0.369	581.662	10731.92	0	0	0	0	1
326	2021	2	0.046	635.733	10731.92	0	0	0	0	1
327	2021	3	1.252	463.579	10731.92	0	0	0	0	1
328	2021	4	12.652	233.190	10756.75	0	0	0	0	1
329	2021	5	42.330	59.704	10756.75	0	0	0	0	1
330	2021	6	132.438	6.696	10756.75	0	0	0	0	1
331	2021	7	282.048	0.033	10781.64	0	0	0	0	1
332	2021	8	341.880	0.000	10781.64	0	0	0	0	1
333	2021	9	267.806	0.248	10781.64	0	0	0	0	1
334	2021	10	87.446	23.785	10806.36	0	0	0	0	1
335	2021	11	12.146	141.925	10806.36	0	0	0	0	1
336	2021	12	1.742	366.913	10806.36	0	0	0	0	1
337	2022	1	0.369	581.662	10830.60	0	0	0	0	1
338	2022	2	0.046	635.733	10830.60	0	0	0	0	1
339	2022	3	1.252	463.579	10830.60	0	0	0	0	1
340	2022	4	12.652	233.190	10854.56	0	0	0	0	1
341	2022	5	42.330	59.704	10854.56	0	0	0	0	1
342	2022	6	132.438	6.696	10854.56	0	0	0	0	1
343	2022	7	282.048	0.033	10878.72	0	0	0	0	1
344	2022	8	341.880	0.000	10878.72	0	0	0	0	1
345	2022	9	267.806	0.248	10878.72	0	0	0	0	1
346	2022	10	87.446	23.785	10902.97	0	0	0	0	1
347	2022	11	12.146	141.925	10902.97	0	0	0	0	1
348	2022	12	1.742	366.913	10902.97	0	0	0	0	1
349	2023	1	0.369	581.662	10926.89	0	0	0	0	1
350	2023	2	0.046	635.733	10926.89	0	0	0	0	1

Kentucky Power Company
 Municipal Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc	jul97	aug97	jan96	feb96	d05on
351	2023	3	1.252	463.579	10926.89	0	0	0	0	1
352	2023	4	12.652	233.190	10950.58	0	0	0	0	1
353	2023	5	42.330	59.704	10950.58	0	0	0	0	1
354	2023	6	132.438	6.696	10950.58	0	0	0	0	1
355	2023	7	282.048	0.033	10974.39	0	0	0	0	1
356	2023	8	341.880	0.000	10974.39	0	0	0	0	1
357	2023	9	267.806	0.248	10974.39	0	0	0	0	1
358	2023	10	87.446	23.785	10998.18	0	0	0	0	1
359	2023	11	12.146	141.925	10998.18	0	0	0	0	1
360	2023	12	1.742	366.913	10998.18	0	0	0	0	1
361	2024	1	0.369	581.662	11021.72	0	0	0	0	1
362	2024	2	0.046	635.733	11021.72	0	0	0	0	1
363	2024	3	1.252	463.579	11021.72	0	0	0	0	1
364	2024	4	12.652	233.190	11045.03	0	0	0	0	1
365	2024	5	42.330	59.704	11045.03	0	0	0	0	1
366	2024	6	132.438	6.696	11045.03	0	0	0	0	1
367	2024	7	282.048	0.033	11068.39	0	0	0	0	1
368	2024	8	341.880	0.000	11068.39	0	0	0	0	1
369	2024	9	267.806	0.248	11068.39	0	0	0	0	1
370	2024	10	87.446	23.785	11091.75	0	0	0	0	1
371	2024	11	12.146	141.925	11091.75	0	0	0	0	1
372	2024	12	1.742	366.913	11091.75	0	0	0	0	1
373	2025	1	0.369	581.662	11114.67	0	0	0	0	1
374	2025	2	0.046	635.733	11114.67	0	0	0	0	1
375	2025	3	1.252	463.579	11114.67	0	0	0	0	1
376	2025	4	12.652	233.190	11137.21	0	0	0	0	1
377	2025	5	42.330	59.704	11137.21	0	0	0	0	1
378	2025	6	132.438	6.696	11137.21	0	0	0	0	1
379	2025	7	282.048	0.033	11159.65	0	0	0	0	1
380	2025	8	341.880	0.000	11159.65	0	0	0	0	1
381	2025	9	267.806	0.248	11159.65	0	0	0	0	1
382	2025	10	87.446	23.785	11181.90	0	0	0	0	1
383	2025	11	12.146	141.925	11181.90	0	0	0	0	1
384	2025	12	1.742	366.913	11181.90	0	0	0	0	1
385	2026	1	0.369	581.662	11203.70	0	0	0	0	1

Kentucky Power Company
 Municipal Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc	jul97	aug97	jan96	feb96	d05on
386	2026	2	0.046	635.733	11203.70	0	0	0	0	1
387	2026	3	1.252	463.579	11203.70	0	0	0	0	1
388	2026	4	12.652	233.190	11225.30	0	0	0	0	1
389	2026	5	42.330	59.704	11225.30	0	0	0	0	1
390	2026	6	132.438	6.696	11225.30	0	0	0	0	1
391	2026	7	282.048	0.033	11247.17	0	0	0	0	1
392	2026	8	341.880	0.000	11247.17	0	0	0	0	1
393	2026	9	267.806	0.248	11247.17	0	0	0	0	1
394	2026	10	87.446	23.785	11269.26	0	0	0	0	1
395	2026	11	12.146	141.925	11269.26	0	0	0	0	1
396	2026	12	1.742	366.913	11269.26	0	0	0	0	1
397	2027	1	0.369	581.662	11291.19	0	0	0	0	1
398	2027	2	0.046	635.733	11291.19	0	0	0	0	1
399	2027	3	1.252	463.579	11291.19	0	0	0	0	1
400	2027	4	12.652	233.190	11313.05	0	0	0	0	1
401	2027	5	42.330	59.704	11313.05	0	0	0	0	1
402	2027	6	132.438	6.696	11313.05	0	0	0	0	1
403	2027	7	282.048	0.033	11335.20	0	0	0	0	1
404	2027	8	341.880	0.000	11335.20	0	0	0	0	1
405	2027	9	267.806	0.248	11335.20	0	0	0	0	1
406	2027	10	87.446	23.785	11357.47	0	0	0	0	1
407	2027	11	12.146	141.925	11357.47	0	0	0	0	1
408	2027	12	1.742	366.913	11357.47	0	0	0	0	1
409	2028	1	0.369	581.662	11379.57	0	0	0	0	1
410	2028	2	0.046	635.733	11379.57	0	0	0	0	1
411	2028	3	1.252	463.579	11379.57	0	0	0	0	1
412	2028	4	12.652	233.190	11401.43	0	0	0	0	1
413	2028	5	42.330	59.704	11401.43	0	0	0	0	1
414	2028	6	132.438	6.696	11401.43	0	0	0	0	1
415	2028	7	282.048	0.033	11423.24	0	0	0	0	1
416	2028	8	341.880	0.000	11423.24	0	0	0	0	1
417	2028	9	267.806	0.248	11423.24	0	0	0	0	1
418	2028	10	87.446	23.785	11445.00	0	0	0	0	1
419	2028	11	12.146	141.925	11445.00	0	0	0	0	1
420	2028	12	1.742	366.913	11445.00	0	0	0	0	1

Kentucky Power Company
 Municipal Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc	jul97	aug97	jan96	feb96	d05on
421	2029	1	0.369	581.662	11466.42	0	0	0	0	1
422	2029	2	0.046	635.733	11466.42	0	0	0	0	1
423	2029	3	1.252	463.579	11466.42	0	0	0	0	1
424	2029	4	12.652	233.190	11487.68	0	0	0	0	1
425	2029	5	42.330	59.704	11487.68	0	0	0	0	1
426	2029	6	132.438	6.696	11487.68	0	0	0	0	1
427	2029	7	282.048	0.033	11509.20	0	0	0	0	1
428	2029	8	341.880	0.000	11509.20	0	0	0	0	1
429	2029	9	267.806	0.248	11509.20	0	0	0	0	1
430	2029	10	87.446	23.785	11530.94	0	0	0	0	1
431	2029	11	12.146	141.925	11530.94	0	0	0	0	1
432	2029	12	1.742	366.913	11530.94	0	0	0	0	1
433	2030	1	0.369	581.662	11552.61	0	0	0	0	1
434	2030	2	0.046	635.733	11552.61	0	0	0	0	1
435	2030	3	1.252	463.579	11552.61	0	0	0	0	1
436	2030	4	12.652	233.190	11574.39	0	0	0	0	1
437	2030	5	42.330	59.704	11574.39	0	0	0	0	1
438	2030	6	132.438	6.696	11574.39	0	0	0	0	1
439	2030	7	282.048	0.033	11596.71	0	0	0	0	1
440	2030	8	341.880	0.000	11596.71	0	0	0	0	1
441	2030	9	267.806	0.248	11596.71	0	0	0	0	1
442	2030	10	87.446	23.785	11619.42	0	0	0	0	1
443	2030	11	12.146	141.925	11619.42	0	0	0	0	1
444	2030	12	1.742	366.913	11619.42	0	0	0	0	1
445	2031	1	0.369	581.662	11642.05	0	0	0	0	1
446	2031	2	0.046	635.733	11642.05	0	0	0	0	1
447	2031	3	1.252	463.579	11642.05	0	0	0	0	1
448	2031	4	12.652	233.190	11664.61	0	0	0	0	1
449	2031	5	42.330	59.704	11664.61	0	0	0	0	1
450	2031	6	132.438	6.696	11664.61	0	0	0	0	1
451	2031	7	282.048	0.033	11687.37	0	0	0	0	1
452	2031	8	341.880	0.000	11687.37	0	0	0	0	1
453	2031	9	267.806	0.248	11687.37	0	0	0	0	1
454	2031	10	87.446	23.785	11710.16	0	0	0	0	1
455	2031	11	12.146	141.925	11710.16	0	0	0	0	1

Kentucky Power Company
 Municipal Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc	jul97	aug97	jan96	feb96	d05on
456	2031	12	1.742	366.913	11710.16	0	0	0	0	1
457	2032	1	0.369	581.662	11732.74	0	0	0	0	1
458	2032	2	0.046	635.733	11732.74	0	0	0	0	1
459	2032	3	1.252	463.579	11732.74	0	0	0	0	1
460	2032	4	12.652	233.190	11755.17	0	0	0	0	1
461	2032	5	42.330	59.704	11755.17	0	0	0	0	1
462	2032	6	132.438	6.696	11755.17	0	0	0	0	1
463	2032	7	282.048	0.033	11777.70	0	0	0	0	1
464	2032	8	341.880	0.000	11777.70	0	0	0	0	1
465	2032	9	267.806	0.248	11777.70	0	0	0	0	1
466	2032	10	87.446	23.785	11800.42	0	0	0	0	1
467	2032	11	12.146	141.925	11800.42	0	0	0	0	1
468	2032	12	1.742	366.913	11800.42	0	0	0	0	1
469	2033	1	0.369	581.662	11823.03	0	0	0	0	1
470	2033	2	0.046	635.733	11823.03	0	0	0	0	1
471	2033	3	1.252	463.579	11823.03	0	0	0	0	1
472	2033	4	12.652	233.190	11845.79	0	0	0	0	1
473	2033	5	42.330	59.704	11845.79	0	0	0	0	1
474	2033	6	132.438	6.696	11845.79	0	0	0	0	1
475	2033	7	282.048	0.033	11869.15	0	0	0	0	1
476	2033	8	341.880	0.000	11869.15	0	0	0	0	1
477	2033	9	267.806	0.248	11869.15	0	0	0	0	1
478	2033	10	87.446	23.785	11893.10	0	0	0	0	1
479	2033	11	12.146	141.925	11893.10	0	0	0	0	1
480	2033	12	1.742	366.913	11893.10	0	0	0	0	1
481	2034	1	0.369	581.662	11917.30	0	0	0	0	1
482	2034	2	0.046	635.733	11917.30	0	0	0	0	1
483	2034	3	1.252	463.579	11917.30	0	0	0	0	1
484	2034	4	12.652	233.190	11941.94	0	0	0	0	1
485	2034	5	42.330	59.704	11941.94	0	0	0	0	1
486	2034	6	132.438	6.696	11941.94	0	0	0	0	1
487	2034	7	282.048	0.033	11967.48	0	0	0	0	1
488	2034	8	341.880	0.000	11967.48	0	0	0	0	1
489	2034	9	267.806	0.248	11967.48	0	0	0	0	1
490	2034	10	87.446	23.785	11993.77	0	0	0	0	1

Kentucky Power Company
 Municipal Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc	jul97	aug97	jan96	feb96	d05on
491	2034	11	12.146	141.925	11993.77	0	0	0	0	1
492	2034	12	1.742	366.913	11993.77	0	0	0	0	1
493	2035	1	0.369	581.662	12020.23	0	0	0	0	1
494	2035	2	0.046	635.733	12020.23	0	0	0	0	1
495	2035	3	1.252	463.579	12020.23	0	0	0	0	1
496	2035	4	12.652	233.190	12046.89	0	0	0	0	1
497	2035	5	42.330	59.704	12046.89	0	0	0	0	1
498	2035	6	132.438	6.696	12046.89	0	0	0	0	1
499	2035	7	282.048	0.033	12074.05	0	0	0	0	1
500	2035	8	341.880	0.000	12074.05	0	0	0	0	1
501	2035	9	267.806	0.248	12074.05	0	0	0	0	1
502	2035	10	87.446	23.785	12101.45	0	0	0	0	1
503	2035	11	12.146	141.925	12101.45	0	0	0	0	1
504	2035	12	1.742	366.913	12101.45	0	0	0	0	1
505	2036	1	0.369	581.662	12128.72	0	0	0	0	1
506	2036	2	0.046	635.733	12128.72	0	0	0	0	1
507	2036	3	1.252	463.579	12128.72	0	0	0	0	1
508	2036	4	12.652	233.190	12155.80	0	0	0	0	1
509	2036	5	42.330	59.704	12155.80	0	0	0	0	1
510	2036	6	132.438	6.696	12155.80	0	0	0	0	1
511	2036	7	282.048	0.033	12182.91	0	0	0	0	1
512	2036	8	341.880	0.000	12182.91	0	0	0	0	1
513	2036	9	267.806	0.248	12182.91	0	0	0	0	1
514	2036	10	87.446	23.785	12209.98	0	0	0	0	1
515	2036	11	12.146	141.925	12209.98	0	0	0	0	1
516	2036	12	1.742	366.913	12209.98	0	0	0	0	1
517	2037	1	0.369	581.662	12236.49	0	0	0	0	1
518	2037	2	0.046	635.733	12236.49	0	0	0	0	1
519	2037	3	1.252	463.579	12236.49	0	0	0	0	1
520	2037	4	12.652	233.190	12262.54	0	0	0	0	1
521	2037	5	42.330	59.704	12262.54	0	0	0	0	1
522	2037	6	132.438	6.696	12262.54	0	0	0	0	1
523	2037	7	282.048	0.033	12288.48	0	0	0	0	1
524	2037	8	341.880	0.000	12288.48	0	0	0	0	1
525	2037	9	267.806	0.248	12288.48	0	0	0	0	1

Kentucky Power Company
 Municipal Energy Sales
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc	jul97	aug97	jan96	feb96	d05on
526	2037	10	87.446	23.785	12314.08	0	0	0	0	1
527	2037	11	12.146	141.925	12314.08	0	0	0	0	1
528	2037	12	1.742	366.913	12314.08	0	0	0	0	1
529	2038	1	0.369	581.662	12345.64	0	0	0	0	1
530	2038	2	0.046	635.733	12345.64	0	0	0	0	1
531	2038	3	1.252	463.579	12345.64	0	0	0	0	1
532	2038	4	12.652	233.190	12370.65	0	0	0	0	1
533	2038	5	42.330	59.704	12370.65	0	0	0	0	1
534	2038	6	132.438	6.696	12370.65	0	0	0	0	1
535	2038	7	282.048	0.033	12395.39	0	0	0	0	1
536	2038	8	341.880	0.000	12395.39	0	0	0	0	1
537	2038	9	267.806	0.248	12395.39	0	0	0	0	1
538	2038	10	87.446	23.785	12419.51	0	0	0	0	1
539	2038	11	12.146	141.925	12419.51	0	0	0	0	1
540	2038	12	1.742	366.913	12419.51	0	0	0	0	1

Kentucky Power Company
Municipal Energy Sales
Model Estimation

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model KWH
Dependent Variable KWH
Label Energy (kWh)

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	1E15	1.25E14	129.19	<.0001
Error	169	1.636E14	9.678E11		
Corrected Total	177	1.164E15			
Root MSE		983759.014	R-Square	0.85946	
Dependent Mean		7250631.78	Adj R-Sq	0.85281	
Coeff Var		13.56791			

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variable Label
Intercept	1	-3350705	1541728	-2.17	0.0311	Intercept
gdp_kpc	1	1081.452	185.3820	5.83	<.0001	Service Area Gross Regional Product
bhdd55	1	4451.171	416.5554	10.69	<.0001	Heating Degree Days (Base 55)
bcdd65	1	4617.077	770.7165	5.99	<.0001	Cooling Degree Days (Base 65)
ju197	1	-1.368E7	992063.7	-13.79	<.0001	Binary Variable-July 1997

The SYSLIN Procedure
Ordinary Least Squares Estimation

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variable Label
aug97	1	14467434	995642.8	14.53	<.0001	Binary Variable-August 1997
jan96	1	-1.355E7	1008827	-13.43	<.0001	Binary Variable-January 1996
feb96	1	14514031	1008541	14.39	<.0001	Binary Variable-February 1996
d05on	1	182316.1	251423.9	0.73	0.4694	
Durbin-Watson						2.112339
Number of Observations						178
First-Order Autocorrelation						-0.05745

Kentucky Power Company
Municipal Energy Sales
Model Residuals

time

Residual Values
Sum

1994.0000000	*****	384123
1994.0833333	*****	-1555769
1994.1666667	**	-142057
1994.2500000	*****	-772546
1994.3333333	**	-117247
1994.4166667	*****	965960
1994.5000000	***	316196
1994.5833333	*	-58515
1994.6666667	*****	-614040
1994.7500000	**	-138770
1994.8333333	***	292960
1994.9166667	*****	844758
1995.0000000	*****	613309
1995.0833333	*****	-567016
1995.1666667	*****	-855732
1995.2500000	**	-417288
1995.3333333	*****	-28662
1995.4166667	*****	537590
1995.5000000	*****	914227
1995.5833333	*****	1236278
1995.6666667	*****	-1081669
1995.7500000	**	252491
1995.8333333	*****	762766
1995.9166667	**	157132
1996.0000000	0	0
1996.0833333	*	88548
1996.1666667	*****	-2487457
1996.2500000	*****	2042168
1996.3333333	*****	488621
1996.4166667	*****	-1883007
1996.5000000	*****	3093772
1996.5833333	*****	-1607167
1996.6666667	*****	1323485

Kentucky Power Company
Municipal Energy Sales
Model Residuals

1996.83333333	*****	1039077
1996.9166667	*****	1131069
1997.0000000	*****	1008515
1997.08333333	*****	-930599
1997.1666667	*****	-128160
1997.2500000	**	-1243208
1997.33333333	*****	-313496
1997.4166667	***	234228
1997.5000000		-0
1997.58333333		0
1997.6666667	*****	-557723
1997.7500000	**	-115963
1997.83333333	**	-164700
1997.9166667	*****	1051398
1998.0000000	****	-299217
1998.08333333	*****	-1489459
1998.1666667	*****	2316814
1998.2500000	*****	-3186757
1998.33333333	**	-126156
1998.4166667	*****	582951
1998.5000000	*****	351431
1998.58333333	**	112993
1998.6666667	**	-125793
1998.7500000	*****	-1371775
1998.83333333	*****	26609
1998.9166667	*****	1360759
1999.0000000	****	-271178
1999.08333333	****	-319154
1999.1666667	*****	-764279
1999.2500000	*****	-1489503
1999.33333333	*****	-921498
1999.4166667	*****	556456
1999.5000000	*****	849737
1999.58333333	*****	-545643
1999.6666667	*****	-514761
1999.7500000	*****	-596190
1999.83333333	*****	-334644

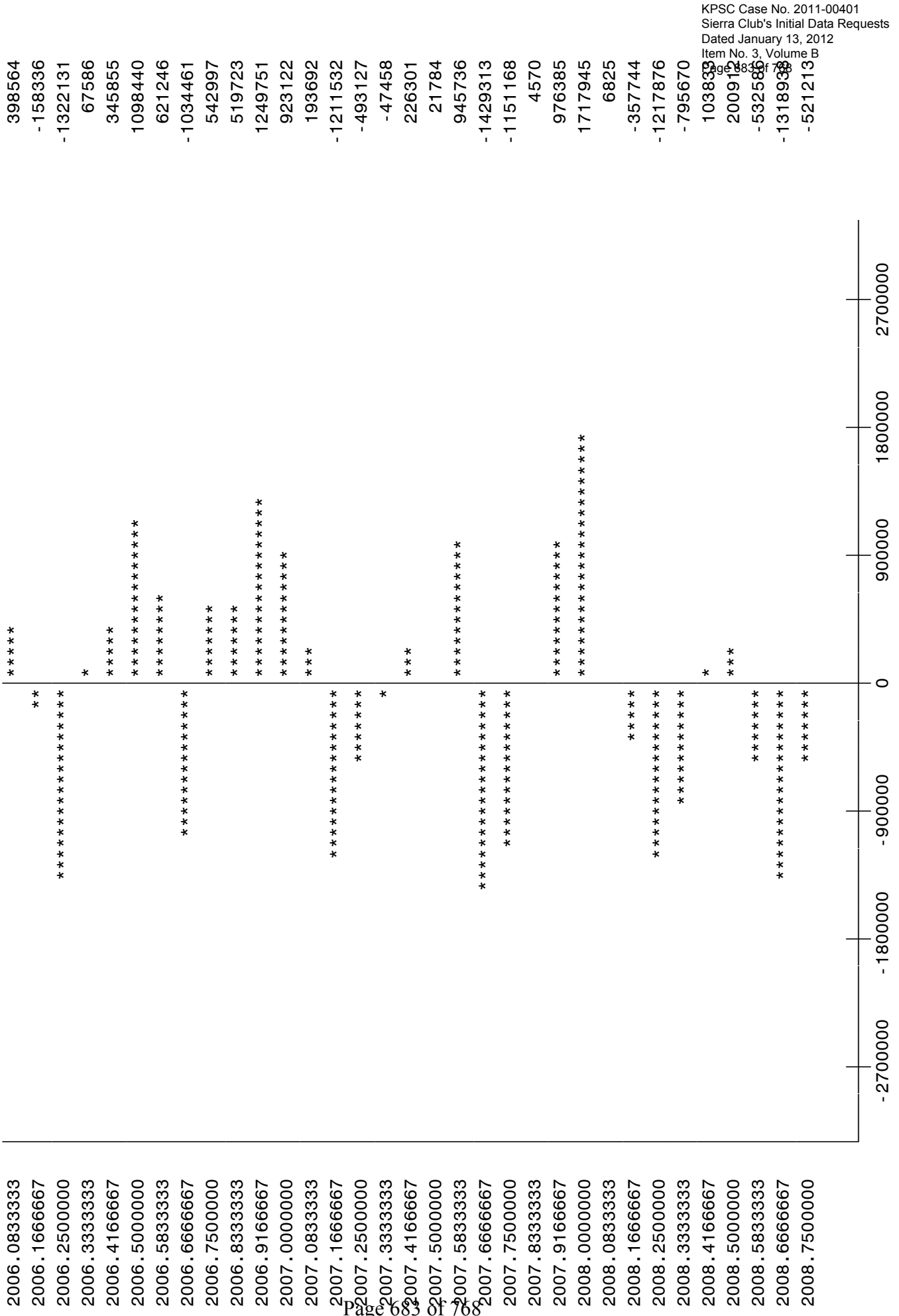
Kentucky Power Company
Municipal Energy Sales
Model Residuals

1999.9166667	*****	*****	1548474
2000.0000000	*****	*****	371554
2000.0833333	*****	*****	-1048610
2000.1666667	*****	*****	-540334
2000.2500000	*****	*****	-638191
2000.3333333	*****	*****	-446303
2000.4166667	*****	*****	542130
2000.5000000	*****	*****	186146
2000.5833333	*****	*****	369675
2000.6666667	*****	*****	-313927
2000.7500000	*****	*****	-420446
2000.8333333	*****	*****	1035633
2000.9166667	*****	*****	1757264
2001.0000000	*****	*****	41208
2001.0833333	*****	*****	-1215806
2001.1666667	*****	*****	3715
2001.2500000	*****	*****	-1353304
2001.3333333	*****	*****	-524352
2001.4166667	*****	*****	160132
2001.5000000	*****	*****	355596
2001.5833333	*****	*****	96112
2001.6666667	*****	*****	-1330950
2001.7500000	*****	*****	-589612
2001.8333333	*****	*****	411357
2001.9166667	*****	*****	-1874039
2002.0000000	*****	*****	3239866
2002.0833333	*****	*****	-582342
2002.1666667	*****	*****	-1122341
2002.2500000	*****	*****	739275
2002.3333333	*****	*****	-570382
2002.4166667	*****	*****	432561
2002.5000000	*****	*****	1071559
2002.5833333	*****	*****	346724
2002.6666667	*****	*****	-760594
2002.7500000	*****	*****	-502740
2002.8333333	*****	*****	495265
2002.9166667	*****	*****	1202152

Kentucky Power Company
Municipal Energy Sales
Model Residuals

2003.0000000	*****	1473874
2003.0833333	*****	-2175614
2003.1666667	*****	-1219369
2003.2500000	*****	-604015
2003.3333333	*****	-590101
2003.4166667	*	-41262
2003.5000000	*****	928533
2003.5833333	*****	656258
2003.6666667	*****	-755650
2003.7500000	*****	17303
2003.8333333	*****	257280
2003.9166667	*****	1791777
2004.0000000	*****	1404535
2004.0833333	*****	-341180
2004.1666667	*****	-251044
2004.2500000	*****	-741494
2004.3333333	*****	204342
2004.4166667	*****	219512
2004.5000000	*****	604251
2004.5833333	*	55412
2004.6666667	*****	-226001
2004.7500000	*****	-449869
2004.8333333	*****	244570
2004.9166667	*****	2166204
2005.0000000	*****	587627
2005.0833333	*****	-562038
2005.1666667	*****	452236
2005.2500000	*****	-1207946
2005.3333333	*****	-567185
2005.4166667	*****	533870
2005.5000000	*****	624426
2005.5833333	*	64468
2005.6666667	*****	-792661
2005.7500000	*****	-611446
2005.8333333	*****	831890
2005.9166667	*****	1678965
2006.0000000	*****	394089

Kentucky Power Company
Municipal Energy Sales
Model Residuals



Kentucky Power Company
 Municipal Energy Sales
 Actual and Forecast

Year	Energy Sales	Growth Rate
1994	73394000	.
1995	78285000	6.7
1996	82779786	5.7
1997	78693339	-4.9
1998	80490293	2.3
1999	80688141	0.2
2000	80797701	0.1
2001	79259500	-1.9
2002	93954100	18.5
2003	89150800	-5.1
2004	94458700	6.0
2005	98602259	4.4
2006	97668316	-0.9
2007	1.0025E8	2.6
2008	98570333	-1.7
2009	1.0097E8	2.4
2010	1.0344E8	2.4
2011	1.0609E8	2.6
2012	1.074E8	1.2
2013	1.0857E8	1.1
2014	1.097E8	1.0
2015	1.1079E8	1.0
2016	1.1207E8	1.2
2017	1.1346E8	1.2
2018	1.1468E8	1.1
2019	1.1586E8	1.0
2020	1.1709E8	1.1
2021	1.1838E8	1.1
2022	1.1965E8	1.1
2023	1.2089E8	1.0
2024	1.2211E8	1.0
2025	1.233E8	1.0
2026	1.2444E8	0.9
2027	1.2558E8	0.9

Kentucky Power Company
Municipal Energy Sales
Actual and Forecast

Year	Energy Sales	Growth Rate
2028	1.2673E8	0.9
2029	1.2785E8	0.9
2030	1.2898E8	0.9
2031	1.3015E8	0.9
2032	1.3132E8	0.9
2033	1.3251E8	0.9
2034	1.3377E8	1.0
2035	1.3514E8	1.0
2036	1.3655E8	1.0
2037	1.3793E8	1.0
2038	1.3932E8	1.0

Kentucky Power Company
Municipal Energy Sales-Vanceburg
Endogenous Variable

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2018.00
MONTH	MONTH	6.5000000
KWH	Energy (kWh)	5747750.81

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Endogenous Variable

Obs	YEAR	MONTH	KWH
1	1998	1	.
2	1998	2	.
3	1998	3	.
4	1998	4	.
5	1998	5	.
6	1998	6	.
7	1998	7	.
8	1998	8	.
9	1998	9	.
10	1998	10	.
11	1998	11	.
12	1998	12	.
13	1999	1	.
14	1999	2	.
15	1999	3	.
16	1999	4	.
17	1999	5	.
18	1999	6	.
19	1999	7	.
20	1999	8	.
21	1999	9	.
22	1999	10	12234300
23	1999	11	4042900
24	1999	12	.
25	2000	1	11198700
26	2000	2	4776100
27	2000	3	.
28	2000	4	7805000
29	2000	5	3630100
30	2000	6	.
31	2000	7	8795500
32	2000	8	.
33	2000	9	8408200
34	2000	10	3749100
35	2000	11	4730900

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Endogenous Variable

Obs	YEAR	MONTH	KWH
36	2000	12	6660700
37	2001	1	6180900
38	2001	2	4843900
39	2001	3	5280800
40	2001	4	3948600
41	2001	5	3796800
42	2001	6	4291100
43	2001	7	5052300
44	2001	8	5356400
45	2001	9	4096800
46	2001	10	4088300
47	2001	11	4300600
48	2001	12	2299200
49	2002	1	8943700
50	2002	2	5190600
51	2002	3	5282300
52	2002	4	4297500
53	2002	5	4214600
54	2002	6	5048200
55	2002	7	5847100
56	2002	8	5728200
57	2002	9	4737700
58	2002	10	4543600
59	2002	11	5228200
60	2002	12	6307200
61	2003	1	7196800
62	2003	2	4933800
63	2003	3	5240000
64	2003	4	4292700
65	2003	5	4109500
66	2003	6	4543000
67	2003	7	5596500
68	2003	8	5731100
69	2003	9	4620900
70	2003	10	4660600

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Endogenous Variable

Obs	YEAR	MONTH	KWH
71	2003	11	5006200
72	2003	12	6571300
73	2004	1	14046200
74	2004	2	6448700
75	2004	3	5622300
76	2004	4	4774800
77	2004	5	5165900
78	2004	6	5227000
79	2004	7	5771900
80	2004	8	5463400
81	2004	9	4894000
82	2004	10	4625900
83	2004	11	5099800
84	2004	12	6754800
85	2005	1	6745600
86	2005	2	5941500
87	2005	3	6355800
88	2005	4	4677400
89	2005	5	4702300
90	2005	6	5447400
91	2005	7	6301700
92	2005	8	6255200
93	2005	9	5113200
94	2005	10	5019600
95	2005	11	5577300
96	2005	12	7594900
97	2006	1	6398257
98	2006	2	6314298
99	2006	3	6145647
100	2006	4	4667655
101	2006	5	5015456
102	2006	6	5415456
103	2006	7	6364417
104	2006	8	6583382
105	2006	9	5034548

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Endogenous Variable

Obs	YEAR	MONTH	KWH
106	2006	10	5601748
107	2006	11	5947180
108	2006	12	6807119
109	2007	1	6588896
110	2007	2	7202739
111	2007	3	6068974
112	2007	4	5517935
113	2007	5	5427061
114	2007	6	5802358
115	2007	7	6033322
116	2007	8	6768081
117	2007	9	5222239
118	2007	10	4820080
119	2007	11	5498788
120	2007	12	6876039
121	2008	1	7869550
122	2008	2	7046240
123	2008	3	6590161
124	2008	4	5051722
125	2008	5	4953384
126	2008	6	5619318
127	2008	7	6184453
128	2008	8	5845131
129	2008	9	4987397
130	2008	10	5121746
131	2008	11	5868990
132	2008	12	6684470
133	2009	1	.
134	2009	2	.
135	2009	3	.
136	2009	4	.
137	2009	5	.
138	2009	6	.
139	2009	7	.
140	2009	8	.

Kentucky Power Company Municipal Energy Sales-Vanceburg Endogenous Variable			
Obs	YEAR	MONTH	KWH
141	2009	9	.
142	2009	10	.
143	2009	11	.
144	2009	12	.
145	2010	1	.
146	2010	2	.
147	2010	3	.
148	2010	4	.
149	2010	5	.
150	2010	6	.
151	2010	7	.
152	2010	8	.
153	2010	9	.
154	2010	10	.
155	2010	11	.
156	2010	12	.
157	2011	1	.
158	2011	2	.
159	2011	3	.
160	2011	4	.
161	2011	5	.
162	2011	6	.
163	2011	7	.
164	2011	8	.
165	2011	9	.
166	2011	10	.
167	2011	11	.
168	2011	12	.
169	2012	1	.
170	2012	2	.
171	2012	3	.
172	2012	4	.
173	2012	5	.
174	2012	6	.
175	2012	7	.

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Endogenous Variable

Obs	YEAR	MONTH	KWH
176	2012	8	.
177	2012	9	.
178	2012	10	.
179	2012	11	.
180	2012	12	.
181	2013	1	.
182	2013	2	.
183	2013	3	.
184	2013	4	.
185	2013	5	.
186	2013	6	.
187	2013	7	.
188	2013	8	.
189	2013	9	.
190	2013	10	.
191	2013	11	.
192	2013	12	.
193	2014	1	.
194	2014	2	.
195	2014	3	.
196	2014	4	.
197	2014	5	.
198	2014	6	.
199	2014	7	.
200	2014	8	.
201	2014	9	.
202	2014	10	.
203	2014	11	.
204	2014	12	.
205	2015	1	.
206	2015	2	.
207	2015	3	.
208	2015	4	.
209	2015	5	.
210	2015	6	.

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Endogenous Variable

Obs	YEAR	MONTH	KWH
211	2015	7	.
212	2015	8	.
213	2015	9	.
214	2015	10	.
215	2015	11	.
216	2015	12	.
217	2016	1	.
218	2016	2	.
219	2016	3	.
220	2016	4	.
221	2016	5	.
222	2016	6	.
223	2016	7	.
224	2016	8	.
225	2016	9	.
226	2016	10	.
227	2016	11	.
228	2016	12	.
229	2017	1	.
230	2017	2	.
231	2017	3	.
232	2017	4	.
233	2017	5	.
234	2017	6	.
235	2017	7	.
236	2017	8	.
237	2017	9	.
238	2017	10	.
239	2017	11	.
240	2017	12	.
241	2018	1	.
242	2018	2	.
243	2018	3	.
244	2018	4	.
245	2018	5	.

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Endogenous Variable

Obs	YEAR	MONTH	KWH
246	2018	6	.
247	2018	7	.
248	2018	8	.
249	2018	9	.
250	2018	10	.
251	2018	11	.
252	2018	12	.
253	2019	1	.
254	2019	2	.
255	2019	3	.
256	2019	4	.
257	2019	5	.
258	2019	6	.
259	2019	7	.
260	2019	8	.
261	2019	9	.
262	2019	10	.
263	2019	11	.
264	2019	12	.
265	2020	1	.
266	2020	2	.
267	2020	3	.
268	2020	4	.
269	2020	5	.
270	2020	6	.
271	2020	7	.
272	2020	8	.
273	2020	9	.
274	2020	10	.
275	2020	11	.
276	2020	12	.
277	2021	1	.
278	2021	2	.
279	2021	3	.
280	2021	4	.

Kentucky Power Company Municipal Energy Sales-Vanceburg Endogenous Variable			
Obs	YEAR	MONTH	KWH
281	2021	5	.
282	2021	6	.
283	2021	7	.
284	2021	8	.
285	2021	9	.
286	2021	10	.
287	2021	11	.
288	2021	12	.
289	2022	1	.
290	2022	2	.
291	2022	3	.
292	2022	4	.
293	2022	5	.
294	2022	6	.
295	2022	7	.
296	2022	8	.
297	2022	9	.
298	2022	10	.
299	2022	11	.
300	2022	12	.
301	2023	1	.
302	2023	2	.
303	2023	3	.
304	2023	4	.
305	2023	5	.
306	2023	6	.
307	2023	7	.
308	2023	8	.
309	2023	9	.
310	2023	10	.
311	2023	11	.
312	2023	12	.
313	2024	1	.
314	2024	2	.
315	2024	3	.

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Endogenous Variable

Obs	YEAR	MONTH	KWH
316	2024	4	.
317	2024	5	.
318	2024	6	.
319	2024	7	.
320	2024	8	.
321	2024	9	.
322	2024	10	.
323	2024	11	.
324	2024	12	.
325	2025	1	.
326	2025	2	.
327	2025	3	.
328	2025	4	.
329	2025	5	.
330	2025	6	.
331	2025	7	.
332	2025	8	.
333	2025	9	.
334	2025	10	.
335	2025	11	.
336	2025	12	.
337	2026	1	.
338	2026	2	.
339	2026	3	.
340	2026	4	.
341	2026	5	.
342	2026	6	.
343	2026	7	.
344	2026	8	.
345	2026	9	.
346	2026	10	.
347	2026	11	.
348	2026	12	.
349	2027	1	.
350	2027	2	.

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Endogenous Variable

Obs	YEAR	MONTH	KWH
351	2027	3	.
352	2027	4	.
353	2027	5	.
354	2027	6	.
355	2027	7	.
356	2027	8	.
357	2027	9	.
358	2027	10	.
359	2027	11	.
360	2027	12	.
361	2028	1	.
362	2028	2	.
363	2028	3	.
364	2028	4	.
365	2028	5	.
366	2028	6	.
367	2028	7	.
368	2028	8	.
369	2028	9	.
370	2028	10	.
371	2028	11	.
372	2028	12	.
373	2029	1	.
374	2029	2	.
375	2029	3	.
376	2029	4	.
377	2029	5	.
378	2029	6	.
379	2029	7	.
380	2029	8	.
381	2029	9	.
382	2029	10	.
383	2029	11	.
384	2029	12	.
385	2030	1	.

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Endogenous Variable

Obs	YEAR	MONTH	KWH
386	2030	2	.
387	2030	3	.
388	2030	4	.
389	2030	5	.
390	2030	6	.
391	2030	7	.
392	2030	8	.
393	2030	9	.
394	2030	10	.
395	2030	11	.
396	2030	12	.
397	2031	1	.
398	2031	2	.
399	2031	3	.
400	2031	4	.
401	2031	5	.
402	2031	6	.
403	2031	7	.
404	2031	8	.
405	2031	9	.
406	2031	10	.
407	2031	11	.
408	2031	12	.
409	2032	1	.
410	2032	2	.
411	2032	3	.
412	2032	4	.
413	2032	5	.
414	2032	6	.
415	2032	7	.
416	2032	8	.
417	2032	9	.
418	2032	10	.
419	2032	11	.
420	2032	12	.

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Endogenous Variable

Obs	YEAR	MONTH	KWH
421	2033	1	.
422	2033	2	.
423	2033	3	.
424	2033	4	.
425	2033	5	.
426	2033	6	.
427	2033	7	.
428	2033	8	.
429	2033	9	.
430	2033	10	.
431	2033	11	.
432	2033	12	.
433	2034	1	.
434	2034	2	.
435	2034	3	.
436	2034	4	.
437	2034	5	.
438	2034	6	.
439	2034	7	.
440	2034	8	.
441	2034	9	.
442	2034	10	.
443	2034	11	.
444	2034	12	.
445	2035	1	.
446	2035	2	.
447	2035	3	.
448	2035	4	.
449	2035	5	.
450	2035	6	.
451	2035	7	.
452	2035	8	.
453	2035	9	.
454	2035	10	.
455	2035	11	.

Kentucky Power Company Municipal Energy Sales-Vanceburg Endogenous Variable			
Obs	YEAR	MONTH	KWH
456	2035	12	.
457	2036	1	.
458	2036	2	.
459	2036	3	.
460	2036	4	.
461	2036	5	.
462	2036	6	.
463	2036	7	.
464	2036	8	.
465	2036	9	.
466	2036	10	.
467	2036	11	.
468	2036	12	.
469	2037	1	.
470	2037	2	.
471	2037	3	.
472	2037	4	.
473	2037	5	.
474	2037	6	.
475	2037	7	.
476	2037	8	.
477	2037	9	.
478	2037	10	.
479	2037	11	.
480	2037	12	.
481	2038	1	.
482	2038	2	.
483	2038	3	.
484	2038	4	.
485	2038	5	.
486	2038	6	.
487	2038	7	.
488	2038	8	.
489	2038	9	.
490	2038	10	.

Kentucky Power Company
Municipal Energy Sales-Vanceburg
Endogenous Variable

Obs	YEAR	MONTH	KWH
491	2038	11	.
492	2038	12	.

Kentucky Power Company
Municipal Energy Sales-Vanceburg
Exogenous Variables

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2018.00
MONTH	MONTH	6.5000000
bcdd65	Cooling Degree Days (Base 65)	98.9677265
bhdd55	Heating Degree Days (Base 55)	206.6943888
gdp_kpc	Service Area Gross Regional Product	10390.10

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc
1	1998	1	0.000	458.129	8249.71
2	1998	2	0.000	485.226	8249.71
3	1998	3	0.033	389.175	8249.71
4	1998	4	41.529	227.248	8304.39
5	1998	5	23.235	33.969	8304.39
6	1998	6	133.456	0.753	8304.39
7	1998	7	285.958	0.327	8347.49
8	1998	8	294.925	0.000	8347.49
9	1998	9	286.220	0.000	8347.49
10	1998	10	175.705	6.316	8374.99
11	1998	11	12.959	127.598	8374.99
12	1998	12	2.749	244.364	8374.99
13	1999	1	1.178	619.041	8378.97
14	1999	2	0.000	431.653	8378.97
15	1999	3	0.000	516.250	8378.97
16	1999	4	9.458	267.533	8352.00
17	1999	5	32.071	32.300	8352.00
18	1999	6	149.197	0.000	8352.00
19	1999	7	346.664	0.000	8286.95
20	1999	8	430.050	0.000	8286.95
21	1999	9	219.067	0.131	8286.95
22	1999	10	45.620	14.596	8194.02
23	1999	11	2.553	121.740	8194.02
24	1999	12	0.000	297.576	8194.02
25	2000	1	0.000	539.714	8102.52
26	2000	2	0.000	715.255	8102.52
27	2000	3	2.029	278.169	8102.52
28	2000	4	4.713	153.615	8042.12
29	2000	5	51.445	57.336	8042.12
30	2000	6	143.732	0.131	8042.12
31	2000	7	261.970	0.000	8039.86
32	2000	8	229.801	0.000	8039.86
33	2000	9	199.627	0.655	8039.86
34	2000	10	69.051	36.162	8100.28
35	2000	11	9.589	124.064	8100.28

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc
36	2000	12	0.000	548.321	8100.28
37	2001	1	0.000	817.262	8201.40
38	2001	2	0.000	632.819	8201.40
39	2001	3	0.000	442.977	8201.40
40	2001	4	38.158	304.023	8320.45
41	2001	5	85.087	46.602	8320.45
42	2001	6	91.370	2.749	8320.45
43	2001	7	227.444	0.000	8437.62
44	2001	8	331.316	0.000	8437.62
45	2001	9	257.650	0.131	8437.62
46	2001	10	63.063	27.195	8539.63
47	2001	11	18.654	131.296	8539.63
48	2001	12	0.589	170.567	8539.63
49	2002	1	0.000	573.422	8622.24
50	2002	2	0.000	472.888	8622.24
51	2002	3	1.178	420.690	8622.24
52	2002	4	17.966	225.317	8684.48
53	2002	5	51.183	59.921	8684.48
54	2002	6	134.405	34.493	8684.48
55	2002	7	308.113	0.000	8725.92
56	2002	8	391.139	0.000	8725.92
57	2002	9	345.486	0.000	8725.92
58	2002	10	140.001	12.959	8749.68
59	2002	11	13.908	159.342	8749.68
60	2002	12	1.833	476.128	8749.68
61	2003	1	0.000	567.106	8764.65
62	2003	2	0.000	792.325	8764.65
63	2003	3	0.000	534.674	8764.65
64	2003	4	15.447	141.343	8780.56
65	2003	5	38.486	30.566	8780.56
66	2003	6	52.329	0.000	8780.56
67	2003	7	220.277	0.000	8806.71
68	2003	8	262.788	0.000	8806.71
69	2003	9	251.072	0.000	8806.71
70	2003	10	36.620	35.638	8845.41

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc
71	2003	11	8.640	98.636	8845.41
72	2003	12	0.982	345.977	8845.41
73	2004	1	0.785	558.728	8891.52
74	2004	2	0.262	719.771	8891.52
75	2004	3	2.356	418.007	8891.52
76	2004	4	13.058	231.044	8939.55
77	2004	5	72.520	57.139	8939.55
78	2004	6	198.973	3.960	8939.55
79	2004	7	254.312	0.000	8984.75
80	2004	8	251.007	0.000	8984.75
81	2004	9	220.081	0.000	8984.75
82	2004	10	65.419	9.687	9022.78
83	2004	11	13.058	62.441	9022.78
84	2004	12	1.898	288.020	9022.78
85	2005	1	0.000	487.844	9049.95
86	2005	2	0.000	585.563	9049.95
87	2005	3	0.000	499.739	9049.95
88	2005	4	5.858	232.271	9063.56
89	2005	5	21.566	67.104	9063.56
90	2005	6	125.880	9.147	9063.56
91	2005	7	358.446	0.000	9061.42
92	2005	8	457.310	0.000	9061.42
93	2005	9	344.668	0.000	9061.42
94	2005	10	158.737	5.711	9048.87
95	2005	11	9.998	143.944	9048.87
96	2005	12	1.473	488.547	9048.87
97	2006	1	0.000	487.778	9039.96
98	2006	2	0.000	415.045	9039.96
99	2006	3	1.374	469.910	9039.96
100	2006	4	16.559	244.167	9048.96
101	2006	5	27.833	19.979	9048.96
102	2006	6	105.312	3.862	9048.96
103	2006	7	260.187	0.000	9089.46
104	2006	8	410.153	0.000	9089.46
105	2006	9	260.776	0.916	9089.46

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc
106	2006	10	36.767	37.978	9161.40
107	2006	11	2.536	209.216	9161.40
108	2006	12	2.651	329.925	9161.40
109	2007	1	0.295	354.061	9248.67
110	2007	2	0.000	712.277	9248.67
111	2007	3	2.258	601.189	9248.67
112	2007	4	29.421	207.825	9335.55
113	2007	5	51.036	78.362	9335.55
114	2007	6	180.434	3.223	9335.55
115	2007	7	293.469	0.000	9408.16
116	2007	8	344.046	0.000	9408.16
117	2007	9	379.456	0.000	9408.16
118	2007	10	176.310	6.594	9458.06
119	2007	11	29.895	128.760	9458.06
120	2007	12	0.000	366.398	9458.06
121	2008	1	0.000	497.989	9485.02
122	2008	2	0.000	607.816	9485.02
123	2008	3	0.000	519.735	9485.02
124	2008	4	1.440	234.235	9490.44
125	2008	5	42.330	59.704	9490.44
126	2008	6	132.438	6.696	9490.44
127	2008	7	282.048	0.033	9475.96
128	2008	8	341.880	0.000	9475.96
129	2008	9	267.806	0.248	9475.96
130	2008	10	87.446	23.785	9448.57
131	2008	11	12.146	141.925	9448.57
132	2008	12	1.742	366.913	9448.57
133	2009	1	0.369	581.662	9421.62
134	2009	2	0.046	635.733	9421.62
135	2009	3	1.252	463.579	9421.62
136	2009	4	12.652	233.190	9408.14
137	2009	5	42.330	59.704	9408.14
138	2009	6	132.438	6.696	9408.14
139	2009	7	282.048	0.033	9420.40
140	2009	8	341.880	0.000	9420.40

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc
141	2009	9	267.806	0.248	9420.40
142	2009	10	87.446	23.785	9460.76
143	2009	11	12.146	141.925	9460.76
144	2009	12	1.742	366.913	9460.76
145	2010	1	0.369	581.662	9519.32
146	2010	2	0.046	635.733	9519.32
147	2010	3	1.252	463.579	9519.32
148	2010	4	12.652	233.190	9586.13
149	2010	5	42.330	59.704	9586.13
150	2010	6	132.438	6.696	9586.13
151	2010	7	282.048	0.033	9652.67
152	2010	8	341.880	0.000	9652.67
153	2010	9	267.806	0.248	9652.67
154	2010	10	87.446	23.785	9713.04
155	2010	11	12.146	141.925	9713.04
156	2010	12	1.742	366.913	9713.04
157	2011	1	0.369	581.662	9765.10
158	2011	2	0.046	635.733	9765.10
159	2011	3	1.252	463.579	9765.10
160	2011	4	12.652	233.190	9808.54
161	2011	5	42.330	59.704	9808.54
162	2011	6	132.438	6.696	9808.54
163	2011	7	282.048	0.033	9843.38
164	2011	8	341.880	0.000	9843.38
165	2011	9	267.806	0.248	9843.38
166	2011	10	87.446	23.785	9870.34
167	2011	11	12.146	141.925	9870.34
168	2011	12	1.742	366.913	9870.34
169	2012	1	0.369	581.662	9892.03
170	2012	2	0.046	635.733	9892.03
171	2012	3	1.252	463.579	9892.03
172	2012	4	12.652	233.190	9911.58
173	2012	5	42.330	59.704	9911.58
174	2012	6	132.438	6.696	9911.58
175	2012	7	282.048	0.033	9932.10

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc
176	2012	8	341.880	0.000	9932.10
177	2012	9	267.806	0.248	9932.10
178	2012	10	87.446	23.785	9954.71
179	2012	11	12.146	141.925	9954.71
180	2012	12	1.742	366.913	9954.71
181	2013	1	0.369	581.662	9978.28
182	2013	2	0.046	635.733	9978.28
183	2013	3	1.252	463.579	9978.28
184	2013	4	12.652	233.190	10002.00
185	2013	5	42.330	59.704	10002.00
186	2013	6	132.438	6.696	10002.00
187	2013	7	282.048	0.033	10025.39
188	2013	8	341.880	0.000	10025.39
189	2013	9	267.806	0.248	10025.39
190	2013	10	87.446	23.785	10047.92
191	2013	11	12.146	141.925	10047.92
192	2013	12	1.742	366.913	10047.92
193	2014	1	0.369	581.662	10069.37
194	2014	2	0.046	635.733	10069.37
195	2014	3	1.252	463.579	10069.37
196	2014	4	12.652	233.190	10090.02
197	2014	5	42.330	59.704	10090.02
198	2014	6	132.438	6.696	10090.02
199	2014	7	282.048	0.033	10110.41
200	2014	8	341.880	0.000	10110.41
201	2014	9	267.806	0.248	10110.41
202	2014	10	87.446	23.785	10130.72
203	2014	11	12.146	141.925	10130.72
204	2014	12	1.742	366.913	10130.72
205	2015	1	0.369	581.662	10151.07
206	2015	2	0.046	635.733	10151.07
207	2015	3	1.252	463.579	10151.07
208	2015	4	12.652	233.190	10172.02
209	2015	5	42.330	59.704	10172.02
210	2015	6	132.438	6.696	10172.02

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc
211	2015	7	282.048	0.033	10194.37
212	2015	8	341.880	0.000	10194.37
213	2015	9	267.806	0.248	10194.37
214	2015	10	87.446	23.785	10218.19
215	2015	11	12.146	141.925	10218.19
216	2015	12	1.742	366.913	10218.19
217	2016	1	0.369	581.662	10243.11
218	2016	2	0.046	635.733	10243.11
219	2016	3	1.252	463.579	10243.11
220	2016	4	12.652	233.190	10269.01
221	2016	5	42.330	59.704	10269.01
222	2016	6	132.438	6.696	10269.01
223	2016	7	282.048	0.033	10296.01
224	2016	8	341.880	0.000	10296.01
225	2016	9	267.806	0.248	10296.01
226	2016	10	87.446	23.785	10323.74
227	2016	11	12.146	141.925	10323.74
228	2016	12	1.742	366.913	10323.74
229	2017	1	0.369	581.662	10351.10
230	2017	2	0.046	635.733	10351.10
231	2017	3	1.252	463.579	10351.10
232	2017	4	12.652	233.190	10377.59
233	2017	5	42.330	59.704	10377.59
234	2017	6	132.438	6.696	10377.59
235	2017	7	282.048	0.033	10403.04
236	2017	8	341.880	0.000	10403.04
237	2017	9	267.806	0.248	10403.04
238	2017	10	87.446	23.785	10427.18
239	2017	11	12.146	141.925	10427.18
240	2017	12	1.742	366.913	10427.18
241	2018	1	0.369	581.662	10450.07
242	2018	2	0.046	635.733	10450.07
243	2018	3	1.252	463.579	10450.07
244	2018	4	12.652	233.190	10472.34
245	2018	5	42.330	59.704	10472.34

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc
246	2018	6	132.438	6.696	10472.34
247	2018	7	282.048	0.033	10494.82
248	2018	8	341.880	0.000	10494.82
249	2018	9	267.806	0.248	10494.82
250	2018	10	87.446	23.785	10517.63
251	2018	11	12.146	141.925	10517.63
252	2018	12	1.742	366.913	10517.63
253	2019	1	0.369	581.662	10540.39
254	2019	2	0.046	635.733	10540.39
255	2019	3	1.252	463.579	10540.39
256	2019	4	12.652	233.190	10563.18
257	2019	5	42.330	59.704	10563.18
258	2019	6	132.438	6.696	10563.18
259	2019	7	282.048	0.033	10586.36
260	2019	8	341.880	0.000	10586.36
261	2019	9	267.806	0.248	10586.36
262	2019	10	87.446	23.785	10609.85
263	2019	11	12.146	141.925	10609.85
264	2019	12	1.742	366.913	10609.85
265	2020	1	0.369	581.662	10633.50
266	2020	2	0.046	635.733	10633.50
267	2020	3	1.252	463.579	10633.50
268	2020	4	12.652	233.190	10657.39
269	2020	5	42.330	59.704	10657.39
270	2020	6	132.438	6.696	10657.39
271	2020	7	282.048	0.033	10681.89
272	2020	8	341.880	0.000	10681.89
273	2020	9	267.806	0.248	10681.89
274	2020	10	87.446	23.785	10706.94
275	2020	11	12.146	141.925	10706.94
276	2020	12	1.742	366.913	10706.94
277	2021	1	0.369	581.662	10731.92
278	2021	2	0.046	635.733	10731.92
279	2021	3	1.252	463.579	10731.92
280	2021	4	12.652	233.190	10756.75

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc
281	2021	5	42.330	59.704	10756.75
282	2021	6	132.438	6.696	10756.75
283	2021	7	282.048	0.033	10781.64
284	2021	8	341.880	0.000	10781.64
285	2021	9	267.806	0.248	10781.64
286	2021	10	87.446	23.785	10806.36
287	2021	11	12.146	141.925	10806.36
288	2021	12	1.742	366.913	10806.36
289	2022	1	0.369	581.662	10830.60
290	2022	2	0.046	635.733	10830.60
291	2022	3	1.252	463.579	10830.60
292	2022	4	12.652	233.190	10854.56
293	2022	5	42.330	59.704	10854.56
294	2022	6	132.438	6.696	10854.56
295	2022	7	282.048	0.033	10878.72
296	2022	8	341.880	0.000	10878.72
297	2022	9	267.806	0.248	10878.72
298	2022	10	87.446	23.785	10902.97
299	2022	11	12.146	141.925	10902.97
300	2022	12	1.742	366.913	10902.97
301	2023	1	0.369	581.662	10926.89
302	2023	2	0.046	635.733	10926.89
303	2023	3	1.252	463.579	10926.89
304	2023	4	12.652	233.190	10950.58
305	2023	5	42.330	59.704	10950.58
306	2023	6	132.438	6.696	10950.58
307	2023	7	282.048	0.033	10974.39
308	2023	8	341.880	0.000	10974.39
309	2023	9	267.806	0.248	10974.39
310	2023	10	87.446	23.785	10998.18
311	2023	11	12.146	141.925	10998.18
312	2023	12	1.742	366.913	10998.18
313	2024	1	0.369	581.662	11021.72
314	2024	2	0.046	635.733	11021.72
315	2024	3	1.252	463.579	11021.72

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc
316	2024	4	12.652	233.190	11045.03
317	2024	5	42.330	59.704	11045.03
318	2024	6	132.438	6.696	11045.03
319	2024	7	282.048	0.033	11068.39
320	2024	8	341.880	0.000	11068.39
321	2024	9	267.806	0.248	11068.39
322	2024	10	87.446	23.785	11091.75
323	2024	11	12.146	141.925	11091.75
324	2024	12	1.742	366.913	11091.75
325	2025	1	0.369	581.662	11114.67
326	2025	2	0.046	635.733	11114.67
327	2025	3	1.252	463.579	11114.67
328	2025	4	12.652	233.190	11137.21
329	2025	5	42.330	59.704	11137.21
330	2025	6	132.438	6.696	11137.21
331	2025	7	282.048	0.033	11159.65
332	2025	8	341.880	0.000	11159.65
333	2025	9	267.806	0.248	11159.65
334	2025	10	87.446	23.785	11181.90
335	2025	11	12.146	141.925	11181.90
336	2025	12	1.742	366.913	11181.90
337	2026	1	0.369	581.662	11203.70
338	2026	2	0.046	635.733	11203.70
339	2026	3	1.252	463.579	11203.70
340	2026	4	12.652	233.190	11225.30
341	2026	5	42.330	59.704	11225.30
342	2026	6	132.438	6.696	11225.30
343	2026	7	282.048	0.033	11247.17
344	2026	8	341.880	0.000	11247.17
345	2026	9	267.806	0.248	11247.17
346	2026	10	87.446	23.785	11269.26
347	2026	11	12.146	141.925	11269.26
348	2026	12	1.742	366.913	11269.26
349	2027	1	0.369	581.662	11291.19
350	2027	2	0.046	635.733	11291.19

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc
351	2027	3	1.252	463.579	11291.19
352	2027	4	12.652	233.190	11313.05
353	2027	5	42.330	59.704	11313.05
354	2027	6	132.438	6.696	11313.05
355	2027	7	282.048	0.033	11335.20
356	2027	8	341.880	0.000	11335.20
357	2027	9	267.806	0.248	11335.20
358	2027	10	87.446	23.785	11357.47
359	2027	11	12.146	141.925	11357.47
360	2027	12	1.742	366.913	11357.47
361	2028	1	0.369	581.662	11379.57
362	2028	2	0.046	635.733	11379.57
363	2028	3	1.252	463.579	11379.57
364	2028	4	12.652	233.190	11401.43
365	2028	5	42.330	59.704	11401.43
366	2028	6	132.438	6.696	11401.43
367	2028	7	282.048	0.033	11423.24
368	2028	8	341.880	0.000	11423.24
369	2028	9	267.806	0.248	11423.24
370	2028	10	87.446	23.785	11445.00
371	2028	11	12.146	141.925	11445.00
372	2028	12	1.742	366.913	11445.00
373	2029	1	0.369	581.662	11466.42
374	2029	2	0.046	635.733	11466.42
375	2029	3	1.252	463.579	11466.42
376	2029	4	12.652	233.190	11487.68
377	2029	5	42.330	59.704	11487.68
378	2029	6	132.438	6.696	11487.68
379	2029	7	282.048	0.033	11509.20
380	2029	8	341.880	0.000	11509.20
381	2029	9	267.806	0.248	11509.20
382	2029	10	87.446	23.785	11530.94
383	2029	11	12.146	141.925	11530.94
384	2029	12	1.742	366.913	11530.94
385	2030	1	0.369	581.662	11552.61

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc
386	2030	2	0.046	635.733	11552.61
387	2030	3	1.252	463.579	11552.61
388	2030	4	12.652	233.190	11574.39
389	2030	5	42.330	59.704	11574.39
390	2030	6	132.438	6.696	11574.39
391	2030	7	282.048	0.033	11596.71
392	2030	8	341.880	0.000	11596.71
393	2030	9	267.806	0.248	11596.71
394	2030	10	87.446	23.785	11619.42
395	2030	11	12.146	141.925	11619.42
396	2030	12	1.742	366.913	11619.42
397	2031	1	0.369	581.662	11642.05
398	2031	2	0.046	635.733	11642.05
399	2031	3	1.252	463.579	11642.05
400	2031	4	12.652	233.190	11664.61
401	2031	5	42.330	59.704	11664.61
402	2031	6	132.438	6.696	11664.61
403	2031	7	282.048	0.033	11687.37
404	2031	8	341.880	0.000	11687.37
405	2031	9	267.806	0.248	11687.37
406	2031	10	87.446	23.785	11710.16
407	2031	11	12.146	141.925	11710.16
408	2031	12	1.742	366.913	11710.16
409	2032	1	0.369	581.662	11732.74
410	2032	2	0.046	635.733	11732.74
411	2032	3	1.252	463.579	11732.74
412	2032	4	12.652	233.190	11755.17
413	2032	5	42.330	59.704	11755.17
414	2032	6	132.438	6.696	11755.17
415	2032	7	282.048	0.033	11777.70
416	2032	8	341.880	0.000	11777.70
417	2032	9	267.806	0.248	11777.70
418	2032	10	87.446	23.785	11800.42
419	2032	11	12.146	141.925	11800.42
420	2032	12	1.742	366.913	11800.42

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc
421	2033	1	0.369	581.662	11823.03
422	2033	2	0.046	635.733	11823.03
423	2033	3	1.252	463.579	11823.03
424	2033	4	12.652	233.190	11845.79
425	2033	5	42.330	59.704	11845.79
426	2033	6	132.438	6.696	11845.79
427	2033	7	282.048	0.033	11869.15
428	2033	8	341.880	0.000	11869.15
429	2033	9	267.806	0.248	11869.15
430	2033	10	87.446	23.785	11893.10
431	2033	11	12.146	141.925	11893.10
432	2033	12	1.742	366.913	11893.10
433	2034	1	0.369	581.662	11917.30
434	2034	2	0.046	635.733	11917.30
435	2034	3	1.252	463.579	11917.30
436	2034	4	12.652	233.190	11941.94
437	2034	5	42.330	59.704	11941.94
438	2034	6	132.438	6.696	11941.94
439	2034	7	282.048	0.033	11967.48
440	2034	8	341.880	0.000	11967.48
441	2034	9	267.806	0.248	11967.48
442	2034	10	87.446	23.785	11993.77
443	2034	11	12.146	141.925	11993.77
444	2034	12	1.742	366.913	11993.77
445	2035	1	0.369	581.662	12020.23
446	2035	2	0.046	635.733	12020.23
447	2035	3	1.252	463.579	12020.23
448	2035	4	12.652	233.190	12046.89
449	2035	5	42.330	59.704	12046.89
450	2035	6	132.438	6.696	12046.89
451	2035	7	282.048	0.033	12074.05
452	2035	8	341.880	0.000	12074.05
453	2035	9	267.806	0.248	12074.05
454	2035	10	87.446	23.785	12101.45
455	2035	11	12.146	141.925	12101.45

Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc
456	2035	12	1.742	366.913	12101.45
457	2036	1	0.369	581.662	12128.72
458	2036	2	0.046	635.733	12128.72
459	2036	3	1.252	463.579	12128.72
460	2036	4	12.652	233.190	12155.80
461	2036	5	42.330	59.704	12155.80
462	2036	6	132.438	6.696	12155.80
463	2036	7	282.048	0.033	12182.91
464	2036	8	341.880	0.000	12182.91
465	2036	9	267.806	0.248	12182.91
466	2036	10	87.446	23.785	12209.98
467	2036	11	12.146	141.925	12209.98
468	2036	12	1.742	366.913	12209.98
469	2037	1	0.369	581.662	12236.49
470	2037	2	0.046	635.733	12236.49
471	2037	3	1.252	463.579	12236.49
472	2037	4	12.652	233.190	12262.54
473	2037	5	42.330	59.704	12262.54
474	2037	6	132.438	6.696	12262.54
475	2037	7	282.048	0.033	12288.48
476	2037	8	341.880	0.000	12288.48
477	2037	9	267.806	0.248	12288.48
478	2037	10	87.446	23.785	12314.08
479	2037	11	12.146	141.925	12314.08
480	2037	12	1.742	366.913	12314.08
481	2038	1	0.369	581.662	12345.64
482	2038	2	0.046	635.733	12345.64
483	2038	3	1.252	463.579	12345.64
484	2038	4	12.652	233.190	12370.65
485	2038	5	42.330	59.704	12370.65
486	2038	6	132.438	6.696	12370.65
487	2038	7	282.048	0.033	12395.39
488	2038	8	341.880	0.000	12395.39
489	2038	9	267.806	0.248	12395.39
490	2038	10	87.446	23.785	12419.51

Kentucky Power Company
Municipal Energy Sales-Vanceburg
Exogenous Variables

Obs	YEAR	MONTH	bcdd65	bhdd55	gdp_kpc
491	2038	11	12.1462	141.925	12419.51
492	2038	12	1.7421	366.913	12419.51

Kentucky Power Company
Municipal Energy Sales-Vanceburg
Model Estimation

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model
Dependent Variable lkw
Label lkw

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	1.891002	0.472751	10.74	<.0001
Error	102	4.489907	0.044019		
Corrected Total	106	6.380909			

Root MSE 0.20981 R-Square 0.29635
Dependent Mean 15.53261 Adj R-Sq 0.26876
Coeff Var 1.35075

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variable Label
Intercept	1	10.07679	3.899751	2.58	0.0112	Intercept
lgdp	1	0.581232	0.429143	1.35	0.1786	Service Area Gross Regional Product, Log
bhdd55	1	0.000521	0.000112	4.64	<.0001	Heating Degree Days (Base 55)
bcdd65	1	0.000595	0.000209	2.84	0.0054	Cooling Degree Days (Base 65)

Kentucky Power Company
Municipal Energy Sales-Vanceburg
Model Estimation

The SYSLIN Procedure
Ordinary Least Squares Estimation

Parameter Estimates

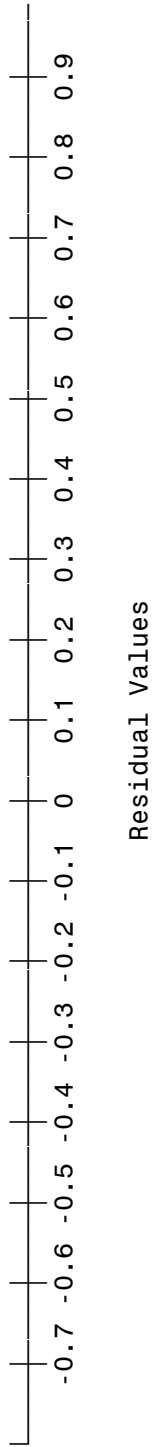
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variable Label
Jan04	1	0.804624	0.213152	3.77	0.0003	Binary Variable-July 2004

Durbin-Watson 1.938774
Number of Observations 107
First-Order Autocorrelation -0.07608

Kentucky Power Company
Municipal Energy Sales-Vanceburg
Model Estimation

time	Residual	Sum
1999.750000	0.970661	0.970661
1999.833333	-0.166795	-0.166795
2000.000000	0.642447	0.642447
2000.083333	-0.301131	-0.301131
2000.250000	0.484002	0.484002
2000.333333	-0.259166	-0.259166
2000.500000	0.530613	0.530613
2000.666667	0.522321	0.522321
2000.750000	-0.230546	-0.230546
2000.833333	-0.008349	-0.008349
2000.916667	0.118552	0.118552
2001.000000	-0.103457	-0.103457
2001.083333	-0.251161	-0.251161
2001.166667	-0.065952	-0.065952
2001.250000	-0.315388	-0.315388
2001.333333	-0.248464	-0.248464
2001.416667	-0.106983	-0.106983
2001.500000	-0.031315	-0.031315
2001.583333	-0.034649	-0.034649
2001.666667	-0.258987	-0.258987
2001.750000	-0.166401	-0.166401
2001.833333	-0.143567	-0.143567
2001.916667	-0.779464	-0.779464
2002.000000	0.363912	0.363912
2002.083333	-0.127840	-0.127840
2002.166667	-0.083818	-0.083818
2002.250000	-0.202673	-0.202673
2002.333333	-0.155727	-0.155727
2002.416667	-0.011509	-0.011509
2002.500000	0.047278	0.047278
2002.583333	-0.022650	-0.022650
2002.666667	-0.185345	-0.185345
2002.750000	-0.113285	-0.113285
2002.833333	0.025840	0.025840

Kentucky Power Company
Municipal Energy Sales-Vanceburg
Model Estimation



Kentucky Power Company
 Municipal Energy Sales-Vanceburg
 Actual and Forecast

Year	Energy Sales	Growth Rate
1998	.	.
1999	16277200	.
2000	59754300	267.1
2001	53535700	-10.4
2002	65368900	22.1
2003	62502400	-4.4
2004	73894700	18.2
2005	69731900	-5.6
2006	70295163	0.8
2007	71826512	2.2
2008	70435868.333	-1.9
2009	69185296.984	-1.8
2010	69977136.341	1.1
2011	70843747.441	1.2
2012	71269692.977	0.6
2013	71647327.976	0.5
2014	72008130.76	0.5
2015	72354408.099	0.5
2016	72761553.458	0.6
2017	73199949.543	0.6
2018	73584947.586	0.5
2019	73956370.276	0.5
2020	74341490.513	0.5
2021	74742526.116	0.5
2022	75135499.257	0.5
2023	75519923.922	0.5
2024	75896626.421	0.5
2025	76261858.903	0.5
2026	76611375.072	0.5
2027	76959000.953	0.5
2028	77306449.684	0.5
2029	77645634.621	0.4
2030	77987307.928	0.4
2031	78339801.571	0.5

Kentucky Power Company
Municipal Energy Sales-Vanceburg
Actual and Forecast

Year	Energy Sales	Growth Rate
2032	78692076.753	0.4
2033	79046146.518	0.4
2034	79422260.441	0.5
2035	79828675.168	0.5
2036	80246086.049	0.5
2037	80652100.154	0.5
2038	81061822.742	0.5

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Endogenous Variable

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2018.00
MONTH	MONTH	6.5000000
kwh	Energy (kWh)	2297744.15

Kentucky Power Company
 Municipal Energy Sales-Olive Hill
 Endogenous Variable

Obs	YEAR	MONTH	kwh
1	1998	1	.
2	1998	2	.
3	1998	3	.
4	1998	4	.
5	1998	5	.
6	1998	6	.
7	1998	7	.
8	1998	8	.
9	1998	9	.
10	1998	10	.
11	1998	11	.
12	1998	12	.
13	1999	1	.
14	1999	2	.
15	1999	3	.
16	1999	4	.
17	1999	5	.
18	1999	6	.
19	1999	7	.
20	1999	8	.
21	1999	9	.
22	1999	10	2034000
23	1999	11	1624800
24	1999	12	1805400
25	2000	1	2770800
26	2000	2	2322600
27	2000	3	2514000
28	2000	4	1922400
29	2000	5	1805400
30	2000	6	1762800
31	2000	7	2264400
32	2000	8	2232600
33	2000	9	2171400
34	2000	10	2149800
35	2000	11	1719600

Kentucky Power Company
 Municipal Energy Sales-Olive Hill
 Endogenous Variable

Obs	YEAR	MONTH	kwh
36	2000	12	2310600
37	2001	1	2946600
38	2001	2	3016800
39	2001	3	2213400
40	2001	4	1875000
41	2001	5	1926600
42	2001	6	1950600
43	2001	7	2127600
44	2001	8	2043600
45	2001	9	1536600
46	2001	10	1618800
47	2001	11	2665800
48	2001	12	2473200
49	2002	1	2822400
50	2002	2	2305800
51	2002	3	1447200
52	2002	4	3568800
53	2002	5	1759200
54	2002	6	2199600
55	2002	7	2733000
56	2002	8	2510400
57	2002	9	2182800
58	2002	10	1769400
59	2002	11	2152200
60	2002	12	3134400
61	2003	1	2929200
62	2003	2	2545200
63	2003	3	2048400
64	2003	4	1948800
65	2003	5	1759200
66	2003	6	1802400
67	2003	7	2522400
68	2003	8	2311800
69	2003	9	1956000
70	2003	10	1899600

Kentucky Power Company
 Municipal Energy Sales-Olive Hill
 Endogenous Variable

Obs	YEAR	MONTH	kwh
71	2003	11	1945200
72	2003	12	2980200
73	2004	1	5491800
74	2004	2	2680200
75	2004	3	2263200
76	2004	4	1889400
77	2004	5	1944600
78	2004	6	2245800
79	2004	7	2372400
80	2004	8	2116800
81	2004	9	2262000
82	2004	10	1676400
83	2004	11	1890000
84	2004	12	3109200
85	2005	1	2632200
86	2005	2	2297241
87	2005	3	2515200
88	2005	4	1809000
89	2005	5	1762200
90	2005	6	2341800
91	2005	7	2608800
92	2005	8	2551800
93	2005	9	2316600
94	2005	10	1744800
95	2005	11	2559000
96	2005	12	2883000
97	2006	1	2774912
98	2006	2	2529599
99	2006	3	2388699
100	2006	4	1791134
101	2006	5	1887203
102	2006	6	2051454
103	2006	7	2596750
104	2006	8	2592996
105	2006	9	1800516

Kentucky Power Company
 Municipal Energy Sales-Olive Hill
 Endogenous Variable

Obs	YEAR	MONTH	kwh
106	2006	10	2019286
107	2006	11	2254740
108	2006	12	2662655
109	2007	1	2745173
110	2007	2	2995023
111	2007	3	2239520
112	2007	4	1977408
113	2007	5	2037488
114	2007	6	2198936
115	2007	7	2349522
116	2007	8	2772236
117	2007	9	2106517
118	2007	10	1932195
119	2007	11	2276993
120	2007	12	2791299
121	2008	1	3154233
122	2008	2	2755285
123	2008	3	2454729
124	2008	4	1874737
125	2008	5	1807207
126	2008	6	2220862
127	2008	7	2398257
128	2008	8	2280182
129	2008	9	2010659
130	2008	10	1916447
131	2008	11	2417100
132	2008	12	2985408
133	2009	1	.
134	2009	2	.
135	2009	3	.
136	2009	4	.
137	2009	5	.
138	2009	6	.
139	2009	7	.
140	2009	8	.

Kentucky Power Company
 Municipal Energy Sales-Olive Hill
 Endogenous Variable

Obs	YEAR	MONTH	kwh
141	2009	9	.
142	2009	10	.
143	2009	11	.
144	2009	12	.
145	2010	1	.
146	2010	2	.
147	2010	3	.
148	2010	4	.
149	2010	5	.
150	2010	6	.
151	2010	7	.
152	2010	8	.
153	2010	9	.
154	2010	10	.
155	2010	11	.
156	2010	12	.
157	2011	1	.
158	2011	2	.
159	2011	3	.
160	2011	4	.
161	2011	5	.
162	2011	6	.
163	2011	7	.
164	2011	8	.
165	2011	9	.
166	2011	10	.
167	2011	11	.
168	2011	12	.
169	2012	1	.
170	2012	2	.
171	2012	3	.
172	2012	4	.
173	2012	5	.
174	2012	6	.
175	2012	7	.

Kentucky Power Company
 Municipal Energy Sales-Olive Hill
 Endogenous Variable

Obs	YEAR	MONTH	kwh
176	2012	8	.
177	2012	9	.
178	2012	10	.
179	2012	11	.
180	2012	12	.
181	2013	1	.
182	2013	2	.
183	2013	3	.
184	2013	4	.
185	2013	5	.
186	2013	6	.
187	2013	7	.
188	2013	8	.
189	2013	9	.
190	2013	10	.
191	2013	11	.
192	2013	12	.
193	2014	1	.
194	2014	2	.
195	2014	3	.
196	2014	4	.
197	2014	5	.
198	2014	6	.
199	2014	7	.
200	2014	8	.
201	2014	9	.
202	2014	10	.
203	2014	11	.
204	2014	12	.
205	2015	1	.
206	2015	2	.
207	2015	3	.
208	2015	4	.
209	2015	5	.
210	2015	6	.

Kentucky Power Company
 Municipal Energy Sales-Olive Hill
 Endogenous Variable

Obs	YEAR	MONTH	kwh
211	2015	7	.
212	2015	8	.
213	2015	9	.
214	2015	10	.
215	2015	11	.
216	2015	12	.
217	2016	1	.
218	2016	2	.
219	2016	3	.
220	2016	4	.
221	2016	5	.
222	2016	6	.
223	2016	7	.
224	2016	8	.
225	2016	9	.
226	2016	10	.
227	2016	11	.
228	2016	12	.
229	2017	1	.
230	2017	2	.
231	2017	3	.
232	2017	4	.
233	2017	5	.
234	2017	6	.
235	2017	7	.
236	2017	8	.
237	2017	9	.
238	2017	10	.
239	2017	11	.
240	2017	12	.
241	2018	1	.
242	2018	2	.
243	2018	3	.
244	2018	4	.
245	2018	5	.

Kentucky Power Company
 Municipal Energy Sales-Olive Hill
 Endogenous Variable

Obs	YEAR	MONTH	kwh
246	2018	6	.
247	2018	7	.
248	2018	8	.
249	2018	9	.
250	2018	10	.
251	2018	11	.
252	2018	12	.
253	2019	1	.
254	2019	2	.
255	2019	3	.
256	2019	4	.
257	2019	5	.
258	2019	6	.
259	2019	7	.
260	2019	8	.
261	2019	9	.
262	2019	10	.
263	2019	11	.
264	2019	12	.
265	2020	1	.
266	2020	2	.
267	2020	3	.
268	2020	4	.
269	2020	5	.
270	2020	6	.
271	2020	7	.
272	2020	8	.
273	2020	9	.
274	2020	10	.
275	2020	11	.
276	2020	12	.
277	2021	1	.
278	2021	2	.
279	2021	3	.
280	2021	4	.

Kentucky Power Company
 Municipal Energy Sales-Olive Hill
 Endogenous Variable

Obs	YEAR	MONTH	kwh
281	2021	5	.
282	2021	6	.
283	2021	7	.
284	2021	8	.
285	2021	9	.
286	2021	10	.
287	2021	11	.
288	2021	12	.
289	2022	1	.
290	2022	2	.
291	2022	3	.
292	2022	4	.
293	2022	5	.
294	2022	6	.
295	2022	7	.
296	2022	8	.
297	2022	9	.
298	2022	10	.
299	2022	11	.
300	2022	12	.
301	2023	1	.
302	2023	2	.
303	2023	3	.
304	2023	4	.
305	2023	5	.
306	2023	6	.
307	2023	7	.
308	2023	8	.
309	2023	9	.
310	2023	10	.
311	2023	11	.
312	2023	12	.
313	2024	1	.
314	2024	2	.
315	2024	3	.

Kentucky Power Company
 Municipal Energy Sales-Olive Hill
 Endogenous Variable

Obs	YEAR	MONTH	kwh
316	2024	4	.
317	2024	5	.
318	2024	6	.
319	2024	7	.
320	2024	8	.
321	2024	9	.
322	2024	10	.
323	2024	11	.
324	2024	12	.
325	2025	1	.
326	2025	2	.
327	2025	3	.
328	2025	4	.
329	2025	5	.
330	2025	6	.
331	2025	7	.
332	2025	8	.
333	2025	9	.
334	2025	10	.
335	2025	11	.
336	2025	12	.
337	2026	1	.
338	2026	2	.
339	2026	3	.
340	2026	4	.
341	2026	5	.
342	2026	6	.
343	2026	7	.
344	2026	8	.
345	2026	9	.
346	2026	10	.
347	2026	11	.
348	2026	12	.
349	2027	1	.
350	2027	2	.

Kentucky Power Company
 Municipal Energy Sales-Olive Hill
 Endogenous Variable

Obs	YEAR	MONTH	kwh
351	2027	3	.
352	2027	4	.
353	2027	5	.
354	2027	6	.
355	2027	7	.
356	2027	8	.
357	2027	9	.
358	2027	10	.
359	2027	11	.
360	2027	12	.
361	2028	1	.
362	2028	2	.
363	2028	3	.
364	2028	4	.
365	2028	5	.
366	2028	6	.
367	2028	7	.
368	2028	8	.
369	2028	9	.
370	2028	10	.
371	2028	11	.
372	2028	12	.
373	2029	1	.
374	2029	2	.
375	2029	3	.
376	2029	4	.
377	2029	5	.
378	2029	6	.
379	2029	7	.
380	2029	8	.
381	2029	9	.
382	2029	10	.
383	2029	11	.
384	2029	12	.
385	2030	1	.

Kentucky Power Company
 Municipal Energy Sales-Olive Hill
 Endogenous Variable

Obs	YEAR	MONTH	kwh
386	2030	2	.
387	2030	3	.
388	2030	4	.
389	2030	5	.
390	2030	6	.
391	2030	7	.
392	2030	8	.
393	2030	9	.
394	2030	10	.
395	2030	11	.
396	2030	12	.
397	2031	1	.
398	2031	2	.
399	2031	3	.
400	2031	4	.
401	2031	5	.
402	2031	6	.
403	2031	7	.
404	2031	8	.
405	2031	9	.
406	2031	10	.
407	2031	11	.
408	2031	12	.
409	2032	1	.
410	2032	2	.
411	2032	3	.
412	2032	4	.
413	2032	5	.
414	2032	6	.
415	2032	7	.
416	2032	8	.
417	2032	9	.
418	2032	10	.
419	2032	11	.
420	2032	12	.

Kentucky Power Company
 Municipal Energy Sales-Olive Hill
 Endogenous Variable

Obs	YEAR	MONTH	kwh
421	2033	1	.
422	2033	2	.
423	2033	3	.
424	2033	4	.
425	2033	5	.
426	2033	6	.
427	2033	7	.
428	2033	8	.
429	2033	9	.
430	2033	10	.
431	2033	11	.
432	2033	12	.
433	2034	1	.
434	2034	2	.
435	2034	3	.
436	2034	4	.
437	2034	5	.
438	2034	6	.
439	2034	7	.
440	2034	8	.
441	2034	9	.
442	2034	10	.
443	2034	11	.
444	2034	12	.
445	2035	1	.
446	2035	2	.
447	2035	3	.
448	2035	4	.
449	2035	5	.
450	2035	6	.
451	2035	7	.
452	2035	8	.
453	2035	9	.
454	2035	10	.
455	2035	11	.

Kentucky Power Company
 Municipal Energy Sales-Olive Hill
 Endogenous Variable

Obs	YEAR	MONTH	kwh
456	2035	12	.
457	2036	1	.
458	2036	2	.
459	2036	3	.
460	2036	4	.
461	2036	5	.
462	2036	6	.
463	2036	7	.
464	2036	8	.
465	2036	9	.
466	2036	10	.
467	2036	11	.
468	2036	12	.
469	2037	1	.
470	2037	2	.
471	2037	3	.
472	2037	4	.
473	2037	5	.
474	2037	6	.
475	2037	7	.
476	2037	8	.
477	2037	9	.
478	2037	10	.
479	2037	11	.
480	2037	12	.
481	2038	1	.
482	2038	2	.
483	2038	3	.
484	2038	4	.
485	2038	5	.
486	2038	6	.
487	2038	7	.
488	2038	8	.
489	2038	9	.
490	2038	10	.

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Endogenous Variable

Obs	YEAR	MONTH	kwh
491	2038	11	.
492	2038	12	.

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Exogenous Variables

The MEANS Procedure

Variable	Label	Mean
YEAR	YEAR	2018.00
bcdd65	Cooling Degree Days (Base 65)	98.9677265
bhdd55	Heating Degree Days (Base 55)	206.6943888
gdpcom_kpc	Service Area Gross Regional Product-Commercial	7944.77
jan04	Binary Variable-July 2004	0.0020325
mar02	Binary Variable-March 2002	0.0020325
apr02	Binary Variable-April 2002	0.0020325

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Exogenous Variables

Obs	YEAR	bcdd65	bhdd55	gdpcom_ kpc	jan04	mar02	apr02
1	1998	0.000	458.129	5623.15	0	0	0
2	1998	0.000	485.226	5623.15	0	0	0
3	1998	0.033	389.175	5623.15	0	0	0
4	1998	41.529	227.248	5656.55	0	0	0
5	1998	23.235	33.969	5656.55	0	0	0
6	1998	133.456	0.753	5656.55	0	0	0
7	1998	285.958	0.327	5688.81	0	0	0
8	1998	294.925	0.000	5688.81	0	0	0
9	1998	286.220	0.000	5688.81	0	0	0
10	1998	175.705	6.316	5719.90	0	0	0
11	1998	12.959	127.598	5719.90	0	0	0
12	1998	2.749	244.364	5719.90	0	0	0
13	1999	1.178	619.041	5745.74	0	0	0
14	1999	0.000	431.653	5745.74	0	0	0
15	1999	0.000	516.250	5745.74	0	0	0
16	1999	9.458	267.533	5762.69	0	0	0
17	1999	32.071	32.300	5762.69	0	0	0
18	1999	149.197	0.000	5762.69	0	0	0
19	1999	346.664	0.000	5767.61	0	0	0
20	1999	430.050	0.000	5767.61	0	0	0
21	1999	219.067	0.131	5767.61	0	0	0
22	1999	45.620	14.596	5763.68	0	0	0
23	1999	2.553	121.740	5763.68	0	0	0
24	1999	0.000	297.576	5763.68	0	0	0
25	2000	0.000	539.714	5761.39	0	0	0
26	2000	0.000	715.255	5761.39	0	0	0
27	2000	2.029	278.169	5761.39	0	0	0
28	2000	4.713	153.615	5771.72	0	0	0
29	2000	51.445	57.336	5771.72	0	0	0
30	2000	143.732	0.131	5771.72	0	0	0
31	2000	261.970	0.000	5805.03	0	0	0
32	2000	229.801	0.000	5805.03	0	0	0
33	2000	199.627	0.655	5805.03	0	0	0
34	2000	69.051	36.162	5862.55	0	0	0

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Exogenous Variables

Obs	YEAR	bcdd65	bhdd55	gdpcom_ kpc	jan04	mar02	apr02
35	2000	9.589	124.064	5862.55	0	0	0
36	2000	0.000	548.321	5862.55	0	0	0
37	2001	0.000	817.262	5934.59	0	0	0
38	2001	0.000	632.819	5934.59	0	0	0
39	2001	0.000	442.977	5934.59	0	0	0
40	2001	38.158	304.023	6011.99	0	0	0
41	2001	85.087	46.602	6011.99	0	0	0
42	2001	91.370	2.749	6011.99	0	0	0
43	2001	227.444	0.000	6087.04	0	0	0
44	2001	331.316	0.000	6087.04	0	0	0
45	2001	257.650	0.131	6087.04	0	0	0
46	2001	63.063	27.195	6155.00	0	0	0
47	2001	18.654	131.296	6155.00	0	0	0
48	2001	0.589	170.567	6155.00	0	0	0
49	2002	0.000	573.422	6215.39	0	0	0
50	2002	0.000	472.888	6215.39	0	0	0
51	2002	1.178	420.690	6215.39	0	1	0
52	2002	17.966	225.317	6269.70	0	0	1
53	2002	51.183	59.921	6269.70	0	0	0
54	2002	134.405	34.493	6269.70	0	0	0
55	2002	308.113	0.000	6319.83	0	0	0
56	2002	391.139	0.000	6319.83	0	0	0
57	2002	345.486	0.000	6319.83	0	0	0
58	2002	140.001	12.959	6366.50	0	0	0
59	2002	13.908	159.342	6366.50	0	0	0
60	2002	1.833	476.128	6366.50	0	0	0
61	2003	0.000	567.106	6410.11	0	0	0
62	2003	0.000	792.325	6410.11	0	0	0
63	2003	0.000	534.674	6410.11	0	0	0
64	2003	15.447	141.343	6452.10	0	0	0
65	2003	38.486	30.566	6452.10	0	0	0
66	2003	52.329	0.000	6452.10	0	0	0
67	2003	220.277	0.000	6494.28	0	0	0
68	2003	262.788	0.000	6494.28	0	0	0

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Exogenous Variables

Obs	YEAR	bcdd65	bhdd55	gdpcom_ kpc	jan04	mar02	apr02
69	2003	251.072	0.000	6494.28	0	0	0
70	2003	36.620	35.638	6537.43	0	0	0
71	2003	8.640	98.636	6537.43	0	0	0
72	2003	0.982	345.977	6537.43	0	0	0
73	2004	0.785	558.728	6581.96	1	0	0
74	2004	0.262	719.771	6581.96	0	0	0
75	2004	2.356	418.007	6581.96	0	0	0
76	2004	13.058	231.044	6628.72	0	0	0
77	2004	72.520	57.139	6628.72	0	0	0
78	2004	198.973	3.960	6628.72	0	0	0
79	2004	254.312	0.000	6678.78	0	0	0
80	2004	251.007	0.000	6678.78	0	0	0
81	2004	220.081	0.000	6678.78	0	0	0
82	2004	65.419	9.687	6729.38	0	0	0
83	2004	13.058	62.441	6729.38	0	0	0
84	2004	1.898	288.020	6729.38	0	0	0
85	2005	0.000	487.844	6773.56	0	0	0
86	2005	0.000	585.563	6773.56	0	0	0
87	2005	0.000	499.739	6773.56	0	0	0
88	2005	5.858	232.271	6805.29	0	0	0
89	2005	21.566	67.104	6805.29	0	0	0
90	2005	125.880	9.147	6805.29	0	0	0
91	2005	358.446	0.000	6819.29	0	0	0
92	2005	457.310	0.000	6819.29	0	0	0
93	2005	344.668	0.000	6819.29	0	0	0
94	2005	158.737	5.711	6817.32	0	0	0
95	2005	9.998	143.944	6817.32	0	0	0
96	2005	1.473	488.547	6817.32	0	0	0
97	2006	0.000	487.778	6809.89	0	0	0
98	2006	0.000	415.045	6809.89	0	0	0
99	2006	1.374	469.910	6809.89	0	0	0
100	2006	16.559	244.167	6808.10	0	0	0
101	2006	27.833	19.979	6808.10	0	0	0
102	2006	105.312	3.862	6808.10	0	0	0

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Exogenous Variables

Obs	YEAR	bcdd65	bhdd55	gdpcom_ kpc	jan04	mar02	apr02
103	2006	260.187	0.000	6822.34	0	0	0
104	2006	410.153	0.000	6822.34	0	0	0
105	2006	260.776	0.916	6822.34	0	0	0
106	2006	36.767	37.978	6854.80	0	0	0
107	2006	2.536	209.216	6854.80	0	0	0
108	2006	2.651	329.925	6854.80	0	0	0
109	2007	0.295	354.061	6897.97	0	0	0
110	2007	0.000	712.277	6897.97	0	0	0
111	2007	2.258	601.189	6897.97	0	0	0
112	2007	29.421	207.825	6944.34	0	0	0
113	2007	51.036	78.362	6944.34	0	0	0
114	2007	180.434	3.223	6944.34	0	0	0
115	2007	293.469	0.000	6987.31	0	0	0
116	2007	344.046	0.000	6987.31	0	0	0
117	2007	379.456	0.000	6987.31	0	0	0
118	2007	176.310	6.594	7021.68	0	0	0
119	2007	29.895	128.760	7021.68	0	0	0
120	2007	0.000	366.398	7021.68	0	0	0
121	2008	0.000	497.989	7044.95	0	0	0
122	2008	0.000	607.816	7044.95	0	0	0
123	2008	0.000	519.735	7044.95	0	0	0
124	2008	1.440	234.235	7055.37	0	0	0
125	2008	42.330	59.704	7055.37	0	0	0
126	2008	132.438	6.696	7055.37	0	0	0
127	2008	282.048	0.033	7051.64	0	0	0
128	2008	341.880	0.000	7051.64	0	0	0
129	2008	267.806	0.248	7051.64	0	0	0
130	2008	87.446	23.785	7037.17	0	0	0
131	2008	12.146	141.925	7037.17	0	0	0
132	2008	1.742	366.913	7037.17	0	0	0
133	2009	0.369	581.662	7020.97	0	0	0
134	2009	0.046	635.733	7020.97	0	0	0
135	2009	1.252	463.579	7020.97	0	0	0
136	2009	12.652	233.190	7011.96	0	0	0

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Exogenous Variables

Obs	YEAR	bcdd65	bhdd55	gdpcom_ kpc	jan04	mar02	apr02
137	2009	42.330	59.704	7011.96	0	0	0
138	2009	132.438	6.696	7011.96	0	0	0
139	2009	282.048	0.033	7018.58	0	0	0
140	2009	341.880	0.000	7018.58	0	0	0
141	2009	267.806	0.248	7018.58	0	0	0
142	2009	87.446	23.785	7042.90	0	0	0
143	2009	12.146	141.925	7042.90	0	0	0
144	2009	1.742	366.913	7042.90	0	0	0
145	2010	0.369	581.662	7079.19	0	0	0
146	2010	0.046	635.733	7079.19	0	0	0
147	2010	1.252	463.579	7079.19	0	0	0
148	2010	12.652	233.190	7121.61	0	0	0
149	2010	42.330	59.704	7121.61	0	0	0
150	2010	132.438	6.696	7121.61	0	0	0
151	2010	282.048	0.033	7165.25	0	0	0
152	2010	341.880	0.000	7165.25	0	0	0
153	2010	267.806	0.248	7165.25	0	0	0
154	2010	87.446	23.785	7206.53	0	0	0
155	2010	12.146	141.925	7206.53	0	0	0
156	2010	1.742	366.913	7206.53	0	0	0
157	2011	0.369	581.662	7243.90	0	0	0
158	2011	0.046	635.733	7243.90	0	0	0
159	2011	1.252	463.579	7243.90	0	0	0
160	2011	12.652	233.190	7276.94	0	0	0
161	2011	42.330	59.704	7276.94	0	0	0
162	2011	132.438	6.696	7276.94	0	0	0
163	2011	282.048	0.033	7305.58	0	0	0
164	2011	341.880	0.000	7305.58	0	0	0
165	2011	267.806	0.248	7305.58	0	0	0
166	2011	87.446	23.785	7330.07	0	0	0
167	2011	12.146	141.925	7330.07	0	0	0
168	2011	1.742	366.913	7330.07	0	0	0
169	2012	0.369	581.662	7351.83	0	0	0
170	2012	0.046	635.733	7351.83	0	0	0

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Exogenous Variables

Obs	YEAR	bcdd65	bhdd55	gdpcom_ kpc	jan04	mar02	apr02
171	2012	1.252	463.579	7351.83	0	0	0
172	2012	12.652	233.190	7372.68	0	0	0
173	2012	42.330	59.704	7372.68	0	0	0
174	2012	132.438	6.696	7372.68	0	0	0
175	2012	282.048	0.033	7394.53	0	0	0
176	2012	341.880	0.000	7394.53	0	0	0
177	2012	267.806	0.248	7394.53	0	0	0
178	2012	87.446	23.785	7418.02	0	0	0
179	2012	12.146	141.925	7418.02	0	0	0
180	2012	1.742	366.913	7418.02	0	0	0
181	2013	0.369	581.662	7442.30	0	0	0
182	2013	0.046	635.733	7442.30	0	0	0
183	2013	1.252	463.579	7442.30	0	0	0
184	2013	12.652	233.190	7466.93	0	0	0
185	2013	42.330	59.704	7466.93	0	0	0
186	2013	132.438	6.696	7466.93	0	0	0
187	2013	282.048	0.033	7491.76	0	0	0
188	2013	341.880	0.000	7491.76	0	0	0
189	2013	267.806	0.248	7491.76	0	0	0
190	2013	87.446	23.785	7516.35	0	0	0
191	2013	12.146	141.925	7516.35	0	0	0
192	2013	1.742	366.913	7516.35	0	0	0
193	2014	0.369	581.662	7540.19	0	0	0
194	2014	0.046	635.733	7540.19	0	0	0
195	2014	1.252	463.579	7540.19	0	0	0
196	2014	12.652	233.190	7563.38	0	0	0
197	2014	42.330	59.704	7563.38	0	0	0
198	2014	132.438	6.696	7563.38	0	0	0
199	2014	282.048	0.033	7586.23	0	0	0
200	2014	341.880	0.000	7586.23	0	0	0
201	2014	267.806	0.248	7586.23	0	0	0
202	2014	87.446	23.785	7608.79	0	0	0
203	2014	12.146	141.925	7608.79	0	0	0
204	2014	1.742	366.913	7608.79	0	0	0

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Exogenous Variables

Obs	YEAR	bcdd65	bhdd55	gdpcom_ kpc	jan04	mar02	apr02
205	2015	0.369	581.662	7631.09	0	0	0
206	2015	0.046	635.733	7631.09	0	0	0
207	2015	1.252	463.579	7631.09	0	0	0
208	2015	12.652	233.190	7653.65	0	0	0
209	2015	42.330	59.704	7653.65	0	0	0
210	2015	132.438	6.696	7653.65	0	0	0
211	2015	282.048	0.033	7677.25	0	0	0
212	2015	341.880	0.000	7677.25	0	0	0
213	2015	267.806	0.248	7677.25	0	0	0
214	2015	87.446	23.785	7701.94	0	0	0
215	2015	12.146	141.925	7701.94	0	0	0
216	2015	1.742	366.913	7701.94	0	0	0
217	2016	0.369	581.662	7727.32	0	0	0
218	2016	0.046	635.733	7727.32	0	0	0
219	2016	1.252	463.579	7727.32	0	0	0
220	2016	12.652	233.190	7753.27	0	0	0
221	2016	42.330	59.704	7753.27	0	0	0
222	2016	132.438	6.696	7753.27	0	0	0
223	2016	282.048	0.033	7779.94	0	0	0
224	2016	341.880	0.000	7779.94	0	0	0
225	2016	267.806	0.248	7779.94	0	0	0
226	2016	87.446	23.785	7807.04	0	0	0
227	2016	12.146	141.925	7807.04	0	0	0
228	2016	1.742	366.913	7807.04	0	0	0
229	2017	0.369	581.662	7833.72	0	0	0
230	2017	0.046	635.733	7833.72	0	0	0
231	2017	1.252	463.579	7833.72	0	0	0
232	2017	12.652	233.190	7859.71	0	0	0
233	2017	42.330	59.704	7859.71	0	0	0
234	2017	132.438	6.696	7859.71	0	0	0
235	2017	282.048	0.033	7885.06	0	0	0
236	2017	341.880	0.000	7885.06	0	0	0
237	2017	267.806	0.248	7885.06	0	0	0
238	2017	87.446	23.785	7909.61	0	0	0

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Exogenous Variables

Obs	YEAR	bcdd65	bhdd55	gdpcom_ kpc	jan04	mar02	apr02
239	2017	12.146	141.925	7909.61	0	0	0
240	2017	1.742	366.913	7909.61	0	0	0
241	2018	0.369	581.662	7933.39	0	0	0
242	2018	0.046	635.733	7933.39	0	0	0
243	2018	1.252	463.579	7933.39	0	0	0
244	2018	12.652	233.190	7956.99	0	0	0
245	2018	42.330	59.704	7956.99	0	0	0
246	2018	132.438	6.696	7956.99	0	0	0
247	2018	282.048	0.033	7981.24	0	0	0
248	2018	341.880	0.000	7981.24	0	0	0
249	2018	267.806	0.248	7981.24	0	0	0
250	2018	87.446	23.785	8006.13	0	0	0
251	2018	12.146	141.925	8006.13	0	0	0
252	2018	1.742	366.913	8006.13	0	0	0
253	2019	0.369	581.662	8031.08	0	0	0
254	2019	0.046	635.733	8031.08	0	0	0
255	2019	1.252	463.579	8031.08	0	0	0
256	2019	12.652	233.190	8056.06	0	0	0
257	2019	42.330	59.704	8056.06	0	0	0
258	2019	132.438	6.696	8056.06	0	0	0
259	2019	282.048	0.033	8081.28	0	0	0
260	2019	341.880	0.000	8081.28	0	0	0
261	2019	267.806	0.248	8081.28	0	0	0
262	2019	87.446	23.785	8106.56	0	0	0
263	2019	12.146	141.925	8106.56	0	0	0
264	2019	1.742	366.913	8106.56	0	0	0
265	2020	0.369	581.662	8131.78	0	0	0
266	2020	0.046	635.733	8131.78	0	0	0
267	2020	1.252	463.579	8131.78	0	0	0
268	2020	12.652	233.190	8157.07	0	0	0
269	2020	42.330	59.704	8157.07	0	0	0
270	2020	132.438	6.696	8157.07	0	0	0
271	2020	282.048	0.033	8182.85	0	0	0
272	2020	341.880	0.000	8182.85	0	0	0

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Exogenous Variables

Obs	YEAR	bcdd65	bhdd55	gdpcom_ kpc	jan04	mar02	apr02
273	2020	267.806	0.248	8182.85	0	0	0
274	2020	87.446	23.785	8209.10	0	0	0
275	2020	12.146	141.925	8209.10	0	0	0
276	2020	1.742	366.913	8209.10	0	0	0
277	2021	0.369	581.662	8235.18	0	0	0
278	2021	0.046	635.733	8235.18	0	0	0
279	2021	1.252	463.579	8235.18	0	0	0
280	2021	12.652	233.190	8261.07	0	0	0
281	2021	42.330	59.704	8261.07	0	0	0
282	2021	132.438	6.696	8261.07	0	0	0
283	2021	282.048	0.033	8286.99	0	0	0
284	2021	341.880	0.000	8286.99	0	0	0
285	2021	267.806	0.248	8286.99	0	0	0
286	2021	87.446	23.785	8312.71	0	0	0
287	2021	12.146	141.925	8312.71	0	0	0
288	2021	1.742	366.913	8312.71	0	0	0
289	2022	0.369	581.662	8337.84	0	0	0
290	2022	0.046	635.733	8337.84	0	0	0
291	2022	1.252	463.579	8337.84	0	0	0
292	2022	12.652	233.190	8362.57	0	0	0
293	2022	42.330	59.704	8362.57	0	0	0
294	2022	132.438	6.696	8362.57	0	0	0
295	2022	282.048	0.033	8387.37	0	0	0
296	2022	341.880	0.000	8387.37	0	0	0
297	2022	267.806	0.248	8387.37	0	0	0
298	2022	87.446	23.785	8412.14	0	0	0
299	2022	12.146	141.925	8412.14	0	0	0
300	2022	1.742	366.913	8412.14	0	0	0
301	2023	0.369	581.662	8436.54	0	0	0
302	2023	0.046	635.733	8436.54	0	0	0
303	2023	1.252	463.579	8436.54	0	0	0
304	2023	12.652	233.190	8460.80	0	0	0
305	2023	42.330	59.704	8460.80	0	0	0
306	2023	132.438	6.696	8460.80	0	0	0

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Exogenous Variables

Obs	YEAR	bcdd65	bhdd55	gdpcom_ kpc	jan04	mar02	apr02
307	2023	282.048	0.033	8485.38	0	0	0
308	2023	341.880	0.000	8485.38	0	0	0
309	2023	267.806	0.248	8485.38	0	0	0
310	2023	87.446	23.785	8510.16	0	0	0
311	2023	12.146	141.925	8510.16	0	0	0
312	2023	1.742	366.913	8510.16	0	0	0
313	2024	0.369	581.662	8534.79	0	0	0
314	2024	0.046	635.733	8534.79	0	0	0
315	2024	1.252	463.579	8534.79	0	0	0
316	2024	12.652	233.190	8559.23	0	0	0
317	2024	42.330	59.704	8559.23	0	0	0
318	2024	132.438	6.696	8559.23	0	0	0
319	2024	282.048	0.033	8583.64	0	0	0
320	2024	341.880	0.000	8583.64	0	0	0
321	2024	267.806	0.248	8583.64	0	0	0
322	2024	87.446	23.785	8608.04	0	0	0
323	2024	12.146	141.925	8608.04	0	0	0
324	2024	1.742	366.913	8608.04	0	0	0
325	2025	0.369	581.662	8632.01	0	0	0
326	2025	0.046	635.733	8632.01	0	0	0
327	2025	1.252	463.579	8632.01	0	0	0
328	2025	12.652	233.190	8655.74	0	0	0
329	2025	42.330	59.704	8655.74	0	0	0
330	2025	132.438	6.696	8655.74	0	0	0
331	2025	282.048	0.033	8679.60	0	0	0
332	2025	341.880	0.000	8679.60	0	0	0
333	2025	267.806	0.248	8679.60	0	0	0
334	2025	87.446	23.785	8703.51	0	0	0
335	2025	12.146	141.925	8703.51	0	0	0
336	2025	1.742	366.913	8703.51	0	0	0
337	2026	0.369	581.662	8727.10	0	0	0
338	2026	0.046	635.733	8727.10	0	0	0
339	2026	1.252	463.579	8727.10	0	0	0
340	2026	12.652	233.190	8750.51	0	0	0

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Exogenous Variables

Obs	YEAR	bcdd65	bhdd55	gdpcom_ kpc	jan04	mar02	apr02
341	2026	42.330	59.704	8750.51	0	0	0
342	2026	132.438	6.696	8750.51	0	0	0
343	2026	282.048	0.033	8774.16	0	0	0
344	2026	341.880	0.000	8774.16	0	0	0
345	2026	267.806	0.248	8774.16	0	0	0
346	2026	87.446	23.785	8797.95	0	0	0
347	2026	12.146	141.925	8797.95	0	0	0
348	2026	1.742	366.913	8797.95	0	0	0
349	2027	0.369	581.662	8821.53	0	0	0
350	2027	0.046	635.733	8821.53	0	0	0
351	2027	1.252	463.579	8821.53	0	0	0
352	2027	12.652	233.190	8845.06	0	0	0
353	2027	42.330	59.704	8845.06	0	0	0
354	2027	132.438	6.696	8845.06	0	0	0
355	2027	282.048	0.033	8868.96	0	0	0
356	2027	341.880	0.000	8868.96	0	0	0
357	2027	267.806	0.248	8868.96	0	0	0
358	2027	87.446	23.785	8893.08	0	0	0
359	2027	12.146	141.925	8893.08	0	0	0
360	2027	1.742	366.913	8893.08	0	0	0
361	2028	0.369	581.662	8917.06	0	0	0
362	2028	0.046	635.733	8917.06	0	0	0
363	2028	1.252	463.579	8917.06	0	0	0
364	2028	12.652	233.190	8940.82	0	0	0
365	2028	42.330	59.704	8940.82	0	0	0
366	2028	132.438	6.696	8940.82	0	0	0
367	2028	282.048	0.033	8964.54	0	0	0
368	2028	341.880	0.000	8964.54	0	0	0
369	2028	267.806	0.248	8964.54	0	0	0
370	2028	87.446	23.785	8988.20	0	0	0
371	2028	12.146	141.925	8988.20	0	0	0
372	2028	1.742	366.913	8988.20	0	0	0
373	2029	0.369	581.662	9011.54	0	0	0
374	2029	0.046	635.733	9011.54	0	0	0

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Exogenous Variables

Obs	YEAR	bcdd65	bhdd55	gdpcom_ kpc	jan04	mar02	apr02
375	2029	1.252	463.579	9011.54	0	0	0
376	2029	12.652	233.190	9034.76	0	0	0
377	2029	42.330	59.704	9034.76	0	0	0
378	2029	132.438	6.696	9034.76	0	0	0
379	2029	282.048	0.033	9058.37	0	0	0
380	2029	341.880	0.000	9058.37	0	0	0
381	2029	267.806	0.248	9058.37	0	0	0
382	2029	87.446	23.785	9082.29	0	0	0
383	2029	12.146	141.925	9082.29	0	0	0
384	2029	1.742	366.913	9082.29	0	0	0
385	2030	0.369	581.662	9106.18	0	0	0
386	2030	0.046	635.733	9106.18	0	0	0
387	2030	1.252	463.579	9106.18	0	0	0
388	2030	12.652	233.190	9130.19	0	0	0
389	2030	42.330	59.704	9130.19	0	0	0
390	2030	132.438	6.696	9130.19	0	0	0
391	2030	282.048	0.033	9154.74	0	0	0
392	2030	341.880	0.000	9154.74	0	0	0
393	2030	267.806	0.248	9154.74	0	0	0
394	2030	87.446	23.785	9179.67	0	0	0
395	2030	12.146	141.925	9179.67	0	0	0
396	2030	1.742	366.913	9179.67	0	0	0
397	2031	0.369	581.662	9204.42	0	0	0
398	2031	0.046	635.733	9204.42	0	0	0
399	2031	1.252	463.579	9204.42	0	0	0
400	2031	12.652	233.190	9229.01	0	0	0
401	2031	42.330	59.704	9229.01	0	0	0
402	2031	132.438	6.696	9229.01	0	0	0
403	2031	282.048	0.033	9253.71	0	0	0
404	2031	341.880	0.000	9253.71	0	0	0
405	2031	267.806	0.248	9253.71	0	0	0
406	2031	87.446	23.785	9278.37	0	0	0
407	2031	12.146	141.925	9278.37	0	0	0
408	2031	1.742	366.913	9278.37	0	0	0

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Exogenous Variables

Obs	YEAR	bcdd65	bhdd55	gdpcom_ kpc	jan04	mar02	apr02
409	2032	0.369	581.662	9302.83	0	0	0
410	2032	0.046	635.733	9302.83	0	0	0
411	2032	1.252	463.579	9302.83	0	0	0
412	2032	12.652	233.190	9327.21	0	0	0
413	2032	42.330	59.704	9327.21	0	0	0
414	2032	132.438	6.696	9327.21	0	0	0
415	2032	282.048	0.033	9351.89	0	0	0
416	2032	341.880	0.000	9351.89	0	0	0
417	2032	267.806	0.248	9351.89	0	0	0
418	2032	87.446	23.785	9376.91	0	0	0
419	2032	12.146	141.925	9376.91	0	0	0
420	2032	1.742	366.913	9376.91	0	0	0
421	2033	0.369	581.662	9401.85	0	0	0
422	2033	0.046	635.733	9401.85	0	0	0
423	2033	1.252	463.579	9401.85	0	0	0
424	2033	12.652	233.190	9426.81	0	0	0
425	2033	42.330	59.704	9426.81	0	0	0
426	2033	132.438	6.696	9426.81	0	0	0
427	2033	282.048	0.033	9452.19	0	0	0
428	2033	341.880	0.000	9452.19	0	0	0
429	2033	267.806	0.248	9452.19	0	0	0
430	2033	87.446	23.785	9477.93	0	0	0
431	2033	12.146	141.925	9477.93	0	0	0
432	2033	1.742	366.913	9477.93	0	0	0
433	2034	0.369	581.662	9503.72	0	0	0
434	2034	0.046	635.733	9503.72	0	0	0
435	2034	1.252	463.579	9503.72	0	0	0
436	2034	12.652	233.190	9529.87	0	0	0
437	2034	42.330	59.704	9529.87	0	0	0
438	2034	132.438	6.696	9529.87	0	0	0
439	2034	282.048	0.033	9556.93	0	0	0
440	2034	341.880	0.000	9556.93	0	0	0
441	2034	267.806	0.248	9556.93	0	0	0
442	2034	87.446	23.785	9584.76	0	0	0

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Exogenous Variables

Obs	YEAR	bcdd65	bhdd55	gdpcom_ kpc	jan04	mar02	apr02
443	2034	12.146	141.925	9584.76	0	0	0
444	2034	1.742	366.913	9584.76	0	0	0
445	2035	0.369	581.662	9612.76	0	0	0
446	2035	0.046	635.733	9612.76	0	0	0
447	2035	1.252	463.579	9612.76	0	0	0
448	2035	12.652	233.190	9640.88	0	0	0
449	2035	42.330	59.704	9640.88	0	0	0
450	2035	132.438	6.696	9640.88	0	0	0
451	2035	282.048	0.033	9669.42	0	0	0
452	2035	341.880	0.000	9669.42	0	0	0
453	2035	267.806	0.248	9669.42	0	0	0
454	2035	87.446	23.785	9698.14	0	0	0
455	2035	12.146	141.925	9698.14	0	0	0
456	2035	1.742	366.913	9698.14	0	0	0
457	2036	0.369	581.662	9726.67	0	0	0
458	2036	0.046	635.733	9726.67	0	0	0
459	2036	1.252	463.579	9726.67	0	0	0
460	2036	12.652	233.190	9755.02	0	0	0
461	2036	42.330	59.704	9755.02	0	0	0
462	2036	132.438	6.696	9755.02	0	0	0
463	2036	282.048	0.033	9783.42	0	0	0
464	2036	341.880	0.000	9783.42	0	0	0
465	2036	267.806	0.248	9783.42	0	0	0
466	2036	87.446	23.785	9811.88	0	0	0
467	2036	12.146	141.925	9811.88	0	0	0
468	2036	1.742	366.913	9811.88	0	0	0
469	2037	0.369	581.662	9839.91	0	0	0
470	2037	0.046	635.733	9839.91	0	0	0
471	2037	1.252	463.579	9839.91	0	0	0
472	2037	12.652	233.190	9867.61	0	0	0
473	2037	42.330	59.704	9867.61	0	0	0
474	2037	132.438	6.696	9867.61	0	0	0
475	2037	282.048	0.033	9895.43	0	0	0
476	2037	341.880	0.000	9895.43	0	0	0

Kentucky Power Company
 Municipal Energy Sales-Olive Hill
 Exogenous Variables

Obs	YEAR	bcdd65	bhdd55	gdpcom_ kpc	jan04	mar02	apr02
477	2037	267.806	0.248	9895.43	0	0	0
478	2037	87.446	23.785	9923.18	0	0	0
479	2037	12.146	141.925	9923.18	0	0	0
480	2037	1.742	366.913	9923.18	0	0	0
481	2038	0.369	581.662	9955.89	0	0	0
482	2038	0.046	635.733	9955.89	0	0	0
483	2038	1.252	463.579	9955.89	0	0	0
484	2038	12.652	233.190	9982.95	0	0	0
485	2038	42.330	59.704	9982.95	0	0	0
486	2038	132.438	6.696	9982.95	0	0	0
487	2038	282.048	0.033	10010.18	0	0	0
488	2038	341.880	0.000	10010.18	0	0	0
489	2038	267.806	0.248	10010.18	0	0	0
490	2038	87.446	23.785	10037.23	0	0	0
491	2038	12.146	141.925	10037.23	0	0	0
492	2038	1.742	366.913	10037.23	0	0	0

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Model Results

The SYSLIN Procedure
Ordinary Least Squares Estimation

Model
Dependent Variable kwh
Label Energy (kWh)

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	2.038E13	3.397E12	38.63	<.0001
Error	104	9.145E12	8.793E10		
Corrected Total	110	2.952E13			
Root MSE		296529.350	R-Square	0.69026	
Dependent Mean		2297744.15	Adj R-Sq	0.67239	
Coeff Var		12.90524			

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variable Label
Intercept	1	-7009020	3812495	-1.84	0.0689	Intercept
lgdpcom	1	1008349	434504.0	2.32	0.0223	Service Area Gross Regional Product-Commercial, Log
bhdd55	1	1420.388	158.4386	8.96	<.0001	Heating Degree Days (Base 55)
bcdd65	1	1392.407	294.7018	4.72	<.0001	Cooling Degree Days (Base 65)

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Model Results

The SYSLIN Procedure
Ordinary Least Squares Estimation

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variable Label
jan04	1	2840623	301323.7	9.43	<.0001	Binary Variable-July 2004
mar02	1	-950674	299786.2	-3.17	0.0020	Binary Variable-March 2002
apr02	1	1416282	299007.4	4.74	<.0001	Binary Variable-April 2002
Parameter Estimates						
Durbin-Watson 1.571925						
Number of Observations 111						
First-Order Autocorrelation 0.195395						

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Model Residuals

time	Residual Values Sum
1999.7500000	227139.9
1999.8333333	-274279.5
1999.9166667	-339880.2
2000.0000000	281990.2
2000.0833333	-415546.4
2000.1666667	393859.9
2000.2500000	-26368.1
2000.3333333	-71684.7
2000.4166667	-161532.6
2000.5000000	169814.7
2000.5833333	182807.7
2000.6666667	162691.4
2000.7500000	262530.6
2000.8333333	-209727.2
2000.9166667	-207985.9
2001.0000000	33698.0
2001.0833333	365878.1
2001.1666667	-167872.0
2001.2500000	-375101.0
2001.3333333	-23207.1
2001.4166667	54331.6
2001.5000000	33255.4
2001.5833333	-195376.4
2001.6666667	-599989.5
2001.7500000	-296481.5
2001.8333333	664490.3
2001.9166667	441263.6
2002.0000000	209228.2
2002.0833333	-164574.9
2002.1666667	0.0
2002.2500000	0.0
2002.3333333	-204642.3
2002.4166667	155996.7
2002.5000000	488487.7

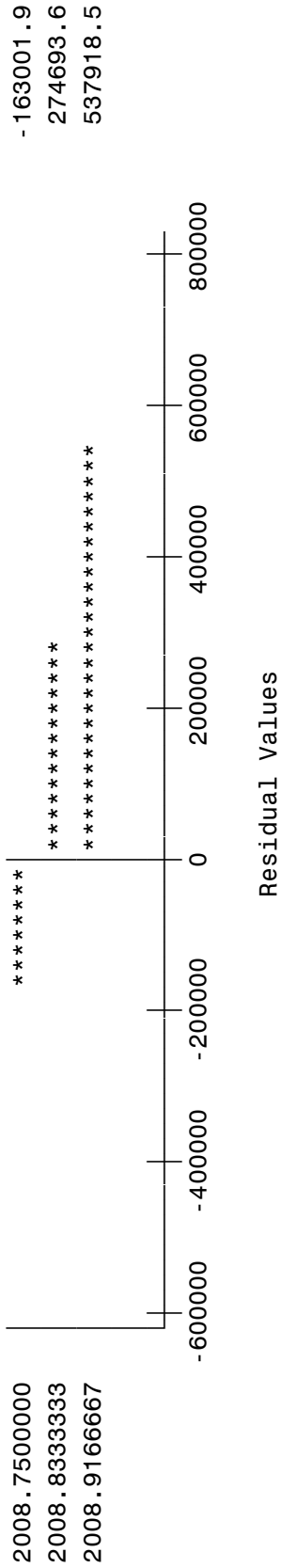
Kentucky Power Company
Municipal Energy Sales-Olive Hill
Model Residuals

2002.5833333	*****	150282.5
2002.6666667	*****	-113750.6
2002.7500000	*****	-266857.2
2002.8333333	***	83595.0
2002.9166667	*****	632650.8
2003.0000000	*****	293894.5
2003.0833333	*****	-410003.8
2003.1666667	*****	-540840.5
2003.2500000	*****	-109848.5
2003.3333333	*****	-174182.0
2003.4166667	*****	-106841.7
2003.5000000	*****	372734.1
2003.5833333	*****	102941.8
2003.6666667	*****	-236545.0
2003.7500000	***	-51637.9
2003.8333333	***	-56557.9
2003.9166667	*****	637783.8
2004.0000000	0.0	0.0
2004.0833333	*****	-198992.3
2004.1666667	*****	-190285.8
2004.2500000	*****	-320564.4
2004.3333333	*****	-101148.4
2004.4166667	*****	99513.6
2004.5000000	*****	147096.0
2004.5833333	*****	-103901.6
2004.6666667	***	84359.8
2004.7500000	*****	-307256.2
2004.8333333	*****	-95679.1
2004.9166667	*****	818649.8
2005.0000000	***	53867.1
2005.0833333	*****	-419891.2
2005.1666667	*****	-80029.6
2005.2500000	*****	-419191.1
2005.3333333	*****	-253262.2
2005.4166667	*****	263412.9
2005.5000000	*****	217505.9
2005.5833333	*	22846.0

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Model Residuals

2005.6666667	***			-55510.1
2005.7500000	*****			-376237.3
2005.8333333	*****		*****	448722.0
2005.9166667	*****		*****	295122.9
2006.0000000	*****		*****	191277.2
2006.0833333	**		**	49273.4
2006.1666667	*****			-171469.8
2006.2500000	*****			-469271.3
2006.3333333	****			-70466.2
2006.4166667				8796.4
2006.5000000				341822.1
2006.5833333	*****		*****	129254.3
2006.6666667	*****		*****	-456533.7
2006.7500000	*		*	16718.7
2006.8333333	**		**	56612.4
2006.9166667	*****		*****	292914.1
2007.0000000	*****		*****	338100.8
2007.0833333	****		****	79554.3
2007.1666667	*****			-521305.2
2007.2500000	*****			-269264.9
2007.3333333	***			-55394.3
2007.4166667	**		**	32605.0
2007.5000000	*		*	24159.6
2007.5833333	*****		*****	376448.8
2007.6666667	*****		*****	-338574.4
2007.7500000	*****			-244350.3
2007.8333333	*****		*****	130795.1
2007.9166667	*****		*****	349188.4
2008.0000000	**		**	521878.0
2008.0833333	*****		*****	-33068.1
2008.1666667	*****		*****	-208514.2
2008.2500000	*****		*****	-386481.0
2008.3333333	*****		*****	-263045.2
2008.4166667	*****		*****	100435.3
2008.5000000	*****		*****	79508.5
2008.5833333	*****		*****	-121829.9
2008.6666667	*****		*****	-288563.0

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Model Residuals



Kentucky Power Company
 Municipal Energy Sales-Olive Hill
 Actual and Forecast

Year	Energy Sales	Growth Rate
1998	.	.
1999	5464200	.
2000	25946400	374.8
2001	26394600	1.7
2002	28585200	8.3
2003	26648400	-6.8
2004	29941800	12.4
2005	28021641	-6.4
2006	27349944	-2.4
2007	28422310	3.9
2008	27462493.939	-3.4
2009	28279624.653	3.0
2010	28483592.157	0.7
2011	28728530.969	0.9
2012	28885491.9	0.5
2013	29040267.754	0.5
2014	29193509.187	0.5
2015	29338532.458	0.5
2016	29496762.111	0.5
2017	29659457.221	0.6
2018	29808277.839	0.5
2019	29958127.724	0.5
2020	30109322.397	0.5
2021	30262067.678	0.5
2022	30408876.077	0.5
2023	30549988.333	0.5
2024	30689427.819	0.5
2025	30824607.463	0.4
2026	30956113.882	0.4
2027	31086221.75	0.4
2028	31215991.008	0.4
2029	31342487.394	0.4
2030	31470155.288	0.4
2031	31600058.471	0.4

Kentucky Power Company
Municipal Energy Sales-Olive Hill
Actual and Forecast

Year	Energy Sales	Growth Rate
2032	31728131.156	0.4
2033	31856976.615	0.4
2034	31989714.07	0.4
2035	32130226.323	0.4
2036	32272195.563	0.4
2037	32410480.671	0.4
2038	32550533.852	0.4

PEAK DEMAND

**Kentucky Power Company
 Summer Peak Demand Forecast (MW) By Sector**

Summer	Residential	Commercial	Industrial	Other Retail	Olive Hill	Vanceburg	Total
2009	540	305	442	2	6	14	1,308
2010	540	308	468	2	6	14	1,338
2011	540	313	481	2	6	15	1,357
2012	538	317	485	2	6	15	1,364
2013	541	322	492	2	6	15	1,379
2014	542	327	497	2	7	15	1,389
2015	544	331	501	2	7	15	1,400
2016	545	335	504	2	7	15	1,408
2017	546	340	510	2	7	16	1,420
2018	548	344	514	2	7	16	1,431
2019	551	347	518	2	7	16	1,441
2020	553	349	520	2	7	16	1,448
2021	557	354	526	2	7	16	1,462
2022	561	357	530	2	7	17	1,474
2023	562	362	534	2	7	17	1,483

**Kentucky Power Company
 Winter Following Peak Demand Forecast (MW) By Sector**

Winter* Following	Residential	Commercial	Industrial	Other Retail	Olive Hill	Vanceburg	Total
2009	812	243	557	2	7	17	1,639
2010	813	246	580	2	8	18	1,668
2011	810	248	586	2	8	18	1,672
2012	815	252	594	3	8	18	1,689
2013	817	256	600	3	8	18	1,700
2014	818	259	605	3	8	18	1,711
2015	819	261	609	3	8	19	1,717
2016	820	263	616	3	8	19	1,728
2017	823	266	621	3	8	19	1,739
2018	826	268	626	3	8	19	1,750
2019	827	269	628	3	8	19	1,754
2020	834	273	634	3	8	20	1,771
2021	838	275	639	3	9	20	1,784
2022	838	277	645	3	9	20	1,791
2023	841	279	648	3	9	20	1,799

*Winter may occur in December of the year or January, February, March of following year.