

Daily Information		System Gas	Transport Gas		Number of Customers	Interruptible load called	Throughput (System Gas less Transport)	Throughput per Customer	Temperature	HDD (Base 65)	Average Wind Speed	Indicator of November 2009	Predicted value	Residual
		Dth	Dth		Count	Dth	Dth	Dth/customer	Degrees F	HDD F	MPH	Binary	Dth/customer	Dth/customer
DATETIME		NNGMNEFTOT	NNGMNEFTRAN		NNGIPCMNEFCUST	NNG_MN_int	NNGMNEFNET	NNGMNEFNETCUST	AVGTEMP	HDDALB	AvgwindALB	nov09	pred	resid
02Nov2009	Trade				10620	0	7305	0.687853107	40	25	6.666666667	1	0.724943489	-0.037090382
03Nov2009	Secret				10620	0	7439	0.70047081	39	26	8.958333333	1	0.752662335	-0.052191525
04Nov2009	Data				10620	0	8196	0.771751412	38	27	5	1	0.745548179	0.026203234
05Nov2009	Begins				10620	0	6388	0.601506591	47	18	9.416666667	1	0.635642173	-0.034136202
09Nov2009					10620	0	6485	0.610640301	49	16	2.375	1	0.566504121	0.04413618
10Nov2009					10620	0	6764	0.636911488	50	15	7.625	1	0.580817097	0.05609439
11Nov2009					10620	0	7546	0.710546139	50	15	10.41666667	1	0.596375838	0.114170301
12Nov2009					10620	0	7129	0.671280603	49	16	15.91666667	1	0.641975625	0.029304978
13Nov2009					10620	0	6725	0.633239171	49	16	6.416666667	1	0.589029462	0.044209709
16Nov2009					10620	0	9122	0.858945386	40	25	8.708333333	1	0.736322269	0.122623117
17Nov2009					10620	0	9191	0.865442561	39	26	7.25	1	0.743144131	0.122301247
18Nov2009					10620	0	7672	0.722410546	43	22	4.291666667	1	0.666866713	0.055543833
19Nov2009					10620	0	7482	0.704519774	45	20	3.083333333	1	0.630238842	0.074280932
20Nov2009					10620	0	7912	0.745009416	41	24	3.083333333	1	0.690025823	0.054983593
23Nov2009					10620	0	6361	0.598964218	50	15	8.833333333	1	0.587551478	0.011412741
24Nov2009					10620	0	6387	0.601412429	44	21	6.708333333	1	0.665388728	-0.063976299
25Nov2009					10620	0	7043	0.663182674	35	30	11.16666667	1	0.824756976	-0.161574302
26Nov2009					10620	0	6794	0.639736347	29	36	4.833333333	1	0.879140005	-0.239403659
27Nov2009					10620	0	7223	0.680131827	37	28	7.291666667	1	0.773267025	-0.093135198
30Nov2009					10620	0	7099	0.668455744	39	26	7.083333333	1	0.742212434	-0.07375669
01Dec2009					10642	0	6851	0.643769968	40	25	7.75	0	0.484668312	0.159101656
02Dec2009					10642	0	8084	0.763931648	31	34	8.458333333	0	0.623136759	0.136494889
03Dec2009					10642	0	9650	0.906784439	19	46	7.958333333	0	0.799711061	0.107073378
04Dec2009					10642	0	10037	0.943149784	16	49	7.875	0	0.844086856	0.099062928
07Dec2009					10642	0	9679	0.909509491	21	44	5.958333333	0	0.57867101	0.150838481
08Dec2009					10642	0	10140	0.952828416	19	46	18.375	0	0.857766063	0.095062352
09Dec2009					10642	0	11782	1.107122721	2	63	13.458333333	0	1.08445877	0.022663951
10Dec2009					10642	0	11714	1.100732945	2	63	7.208333333	0	1.049625769	0.051107176
11Dec2009					10642	0	10490	0.98571697	11	54	6.25	0	0.909764002	0.075952969
14Dec2009					10642	0	11847	1.113230596	3	62	8.916666667	0	1.044200044	0.069030552
15Dec2009					10642	0	12460	1.17083255	-1	66	5.25	0	1.083551664	0.087280887
16Dec2009					10642	0	10971	1.030915241	9	56	6.916666667	0	0.943373012	0.087542229
17Dec2009					10642	0	9443	0.88733208	19	46	2.583333333	0	0.769754679	0.117578529
18Dec2009					10642	0	8943	0.840349558	19	46	5.833333333	0	0.78786784	0.052481718
21Dec2009					10642	0	8899	0.836214997	22	43	7.25	0	0.750923085	0.085291912
22Dec2009					10642	0	8496	0.798346176	28	37	14.04166667	0	0.699094476	0.0992517
23Dec2009					10642	0	7941	0.746194324	32	33	14.41666667	0	0.641397475	0.104796849
28Dec2009					10642	0	10120	0.95094907	11	54	6.541666667	0	0.911389542	0.039559528
29Dec2009					10642	0	10410	0.978199587	11	54	9.166666667	0	0.926019402	0.052180184
30Dec2009					10642	0	9618	0.903777485	16	49	8.083333333	0	0.845247956	0.058529529
04Jan2010					10648	0	13938	1.308978212	-10	75	3.833333333	0	1.21017689	0.098801322
05Jan2010					10648	0	13139	1.233940646	-7	72	1.416666667	0	1.151867894	0.082072752
06Jan2010					10648	0	11120	1.044327573	8	57	5.791666667	0	0.952049817	0.092277756
07Jan2010					10648	0	12496	1.173553719	2	63	12.708333333	0	1.08027881	0.093274909
08Jan2010					10648	0	13027	1.223422239	-7	72	5.25	0	1.173232135	0.050190104
11Jan2010					10648	0	10154	0.953606311	15	50	4.208333333	0	0.83859824	0.115008071
12Jan2010					10648	0	10006	0.939706987	17	48	11.41666667	0	0.848878812	0.090828175
13Jan2010					10648	0	8467	0.795172802	26	39	7.791666667	0	0.694154964	0.101017838
14Jan2010					10648	0	8445	0.793106687	26	39	7.541666667	0	0.692761644	0.100345042
15Jan2010					10648	0	8278	0.77742299	25	40	6.166666667	0	0.700045129	0.077377861
18Jan2010					10648	0	8817	0.828042825	18	47	0.541666667	0	0.773322644	0.054720181
19Jan2010					10648	0	9470	0.889368896	17	48	6.791666667	0	0.823102391	0.066266505
20Jan2010					10648	0	8604	0.808039068	27	38	13.79166667	0	0.712647901	0.095391168
21Jan2010					10648	0	7740	0.72689707	32	33	7.583333333	0	0.603313393	0.123583677
22Jan2010					10648	0	7595	0.713279489	33	32	14.083333333	0	0.62459297	0.088686519
25Jan2010					10648	0	10870	1.020848986	16	49	15.958333333	0	0.889137538	0.131711447
26Jan2010					10648	0	11823	1.110349361	7	58	9.791666667	0	0.989289683	0.121059678
27Jan2010					10648	0	11768	1.105184072	7	58	10.875	0	0.995327404	0.109856669
28Jan2010					10648	0	12243	1.149793388	-1	66	2.833333333	0	1.070082903	0.079710485
29Jan2010					10648	0	11310	1.0621713	0	65	3.083333333	0	1.056529478	0.005641822
01Feb2010					10646	0	9788	0.91940635	18	47	7.416666667	0	0.811638946	0.107767404
02Feb2010					10646	0	10407	0.977550254	9	56	4.708333333	0	0.931065352	0.046484902
03Feb2010					10646	0	9588	0.900619951	14	51	8.375	0	0.876766987	0.023852964
04Feb2010					10646	0	8101	0.760943077	31	34	8.958333333	0	0.625923399	0.135019678
05Feb2010					10646	0	7350	0.69040015	32	33	10	0	0.616782154	0.073617996
08Feb2010					10646	0	9642	0.905692279	16	49	9.5	0	0.853143437	0.052548842
09Feb2010					10646	0	9298	0.873379673	11	54	11.083333333	0	0.936701523	-0.06332185
10Feb2010					10646	0	10763	1.010990043	2	63	2.958333333	0	1.025939327	-0.014949284
11Feb2010					10646	0	9530	0.895171896	10	55	2.708333333	0	0.904972046	-0.00980015
12Feb2010					10646	0	8872	0.833364644	11	54	0.458333333	0	0.87748542	-0.044120776
15Feb2010					10646	0	8778	0.824535037	23	42	9.208333333	0	0.74689068	0.077644356
16Feb2010					10646	0	9466	0.889160248	17	48	8.791666667	0	0.834248951	0.054911297
17Feb2010					10646	0	9399	0.882866804	15	50	5.875	0	0.847887041	0.034979764
18Feb2010					10646	0	9245	0.868401277	14	51	3.291666667	0	0.848436145	0.019965132
19Feb2010					10646	0	7982	0.74976517	15	50	8.833333333	0	0.81978842	-0.07002325
22Feb2010					10646	0	9202	0.864362202	17	48	4.625	0	0.81102695	0.053335252
23Feb2010					10646	0	11110	1.043584445	8	57	9.875	0	0.974807378	0.068777067
24Feb2010					10646	0	11236	1.055419876	1	64	3.333333333	0	1.042976053	0.012443823
25Feb2010					10646	0	9963	0.935844449	8	57	1.041666667	0	0.925576736	0.010267713
26Feb2010					10646	0	8978	0.843321435	13	52	4.125	0	0.868027291	-0.024705856
01Mar2010					10652	0	8004	0.751408186	22	43	3.541666667	0	0.730255504	0.021152682
02Mar2010					10652	0	7561	0.709819752	24	41	3.458333333	0	0.699897574	0.009922178
03Mar2010					10652	0	7673	0.72033421	21	44	2.083333333	0	0.737075459	-0.016740339
04Mar2010					10652	0	7125	0.668888472	23	42	3.25	0	0.713683219	-0.044794747
05Mar2010					10652	0	6632	0.622606083	30	35	8.333333333	0	0.637386844	-0.014780761
08Mar2010					10652	0	6941	0.65161472	38	27	11.833333333	0	0.537319363	0.114295357
09Mar2010														

23Mar2010	10652	0	4349	0.408280135	47	18	8.291666667	0	0.383059956	0.025220179
24Mar2010	10652	0	5131	0.481693579	40	25	8.541666667	0	0.489080492	-0.007386913
25Mar2010	10652	0	6177	0.5798911	30	35	8.916666667	0	0.640637924	-0.060746824
26Mar2010	10652	0	5218	0.489861059	39	26	15.79166667	0	0.544433519	-0.05457246
29Mar2010	10652	0	3920	0.368006008	47	18	14.33333333	0	0.416731857	-0.048725849
01Nov2010	10644	0	4868.7	0.457412627	39	26	2.458333333	0	0.470123116	-0.012710489
02Nov2010	10644	0	4077.65	0.383093762	44	21	8.125	0	0.426971311	-0.04387755
03Nov2010	10644	0	4171.9	0.391948516	45	20	12.5	0	0.436407667	-0.044459152
04Nov2010	10644	0	5516.6	0.518282601	33	32	11.16666667	0	0.608337569	-0.090054969
05Nov2010	10644	0	5220.95	0.490506389	36	29	6.375	0	0.536792032	-0.046285644
10Nov2010	10644	0	3236.4	0.304058625	50	15	10.625	0	0.351224041	-0.047165416
11Nov2010	10644	0	4186.9	0.39335776	43	22	5.625	0	0.427984856	-0.034627096
12Nov2010	10644	0	5852.2	0.549812101	33	32	14.70833333	0	0.62807627	-0.078264169
15Nov2010	10644	0	5445.7	0.511621571	35	30	2.125	0	0.528052336	-0.016430766
16Nov2010	10644	0	5773.3	0.542399474	33	32	5.75	0	0.578148968	-0.035749494
17Nov2010	10644	0	6275.7	0.589599775	31	34	8.041666667	0	0.620814559	-0.031214784
18Nov2010	10644	0	6936.95	0.651723976	30	35	11.08333333	0	0.652713365	-0.000989389
19Nov2010	10644	0	6999.05	0.657558249	28	37	9.125	0	0.671692514	-0.014134266
22Nov2010	10644	0	8466.85	0.795457535	20	45	10	0	0.796143096	-0.000685561
23Nov2010	10644	0	8612.7	0.80916009	16	49	8.916666667	0	0.849892357	-0.040732266
24Nov2010	10644	0	8081.65	0.759268132	20	45	10.66666667	0	0.799858616	-0.040590484
25Nov2010	10644	0	8524.05	0.800831454	13	52	5.25	0	0.874297231	-0.073465777
26Nov2010	10644	0	8146.6	0.765370162	20	45	5.375	0	0.770366675	-0.004996513
29Nov2010	10644	0	6971.5	0.654969936	30	35	11.66666667	0	0.655964445	-0.000994509
30Nov2010	10644	0	9913.4	0.931360391	15	50	15.29166667	0	0.900368763	0.030991627
01Dec2010	10667	0	9406.7	0.881850567	15	50	5.875	0	0.847887041	0.033963526
02Dec2010	10667	0	8941.45	0.838234743	18	47	2.875	0	0.786326965	0.051907778
03Dec2010	10667	0	9045.85	0.848021937	17	48	8.875	0	0.834713391	0.013308545
06Dec2010	10667	0	10188.55	0.955146714	8	57	3.75	0	0.940671037	0.014475678
07Dec2010	10667	0	10418.85	0.976736664	5	60	3.166666667	0	0.982260192	-0.005523527
08Dec2010	10667	0	9874.3	0.925686697	8	57	5	0	0.947637637	-0.02195094
09Dec2010	10667	0	8046.05	0.754293616	26	39	8.375	0	0.697406045	0.056887571
10Dec2010	10667	0	7103.3	0.665913565	30	35	8.416666667	0	0.637851284	0.028062281
13Dec2010	10667	0	12272.6	1.150520296	-6	71	2.208333333	0	1.141333329	0.009186968
14Dec2010	10667	0	10776.65	1.010279366	7	58	9.583333333	0	0.988128583	0.022150783
15Dec2010	10667	0	9833.8	0.921889941	14	51	8.416666667	0	0.876999207	0.044890734
16Dec2010	10667	0	9643.8	0.904077998	9	56	3.833333333	0	0.926188731	-0.022110734
17Dec2010	10667	0	9914.65	0.929469392	8	57	6.875	0	0.958087537	-0.028618146
20Dec2010	10667	0	8593	0.805568576	25	40	11.95833333	0	0.732323711	0.073244865
21Dec2010	10667	0	8808.95	0.825813256	21	44	8.125	0	0.720774645	0.055066805
22Dec2010	10667	0	7857.45	0.736612918	24	41	3.166666667	0	0.698272034	0.038340885
23Dec2010	10667	0	7227.35	0.677542889	24	41	7.25	0	0.721029595	-0.043486705
27Dec2010	10667	0	9464.35	0.887255086	13	52	7.291666667	0	0.885676012	0.001579074
28Dec2010	10667	0	8311.7	0.779197525	19	46	8.041666667	0	0.800175501	-0.020977976
29Dec2010	10667	0	7263.85	0.680964657	30	35	15.83333333	0	0.679186446	0.001778212
30Dec2010	10667	0	7684.15	0.720366551	22	43	14.08333333	0	0.789007167	-0.068640616
03Jan2011	10683	0	9806.25	0.917930357	12	53	6.708333333	0	0.897371677	0.02055868
04Jan2011	10683	0	10709.05	1.002438454	5	60	3.125	0	0.982027972	0.020410482
05Jan2011	10683	0	9485.65	0.88792006	19	46	6.166666667	0	0.7897256	0.09819446
06Jan2011	10683	0	9613.3	0.896868951	13	52	2.916666667	0	0.86129291	0.03857604
07Jan2011	10683	0	11110.9	1.040054292	9	56	10.95833333	0	0.965898353	0.074155939
10Jan2011	10683	0	9570.7	0.895881307	18	47	8.416666667	0	0.817212226	0.078669081
11Jan2011	10683	0	9558.05	0.894697182	14	51	6.208333333	0	0.864691546	0.030005636
12Jan2011	10683	0	11111.9	1.040147899	-2	67	3.791666667	0	0.109037078	-0.05022281
13Jan2011	10683	0	10480.4	0.98103529	8	57	5.666666667	0	0.951353157	0.029682133
14Jan2011	10683	0	9647.6	0.903079659	13	52	7.458333333	0	0.886604892	0.016474768
17Jan2011	10683	0	9189.95	0.860240569	18	47	8.958333333	0	0.820231086	0.040009483
18Jan2011	10683	0	10544.2	0.987007395	1	64	6.958333333	0	1.063179194	-0.076171799
19Jan2011	10683	0	11504.2	1.076869793	-3	68	4.875	0	1.111355174	-0.034485381
20Jan2011	10683	0	13018.3	1.218599644	-9	74	6.958333333	0	1.212646645	0.005952999
21Jan2011	10683	0	12409.9	1.161649349	-8	73	6.291666667	0	1.193984387	-0.032335031
24Jan2011	10683	0	9680.3	0.906140597	19	46	7.25	0	0.795763321	0.110377277
25Jan2011	10683	0	9280.05	0.86867453	13	52	5.166666667	0	0.873832791	-0.005158261
26Jan2011	10683	0	9163.45	0.857759993	17	48	5.833333333	0	0.817761331	0.039998662
27Jan2011	10683	0	8212.85	0.768777497	25	40	3.458333333	0	0.684950828	0.083826668
28Jan2011	10683	0	7920	0.741364785	25	40	8.875	0	0.71513943	0.026225355
31Jan2011	10683	0	9892.8	0.926032013	13	52	13.29166667	0	0.919115693	0.00691632
01Feb2011	10683	0	11353.75	1.06278667	4	61	17.95833333	0	1.079645041	-0.016858371
02Feb2011	10683	0	12387.55	1.15955724	-3	68	7.375	0	1.125288374	0.034268866
03Feb2011	10683	0	10517.45	0.984503417	9	56	11.79166667	0	0.970542753	0.013960663
04Feb2011	10683	0	8495	0.795188617	20	45	6.625	0	0.77733275	0.017855342
07Feb2011	10683	0	12226.35	1.144467846	-5	70	8	0	1.158665165	-0.014197319
08Feb2011	10683	0	12830.75	1.201043714	-8	73	7.958333333	0	1.203273181	-0.002229466
09Feb2011	10683	0	12597.2	1.179181878	-5	70	6.333333333	0	1.149376365	0.029805513
10Feb2011	10683	0	11461.4	1.072863428	1	64	4.5	0	1.049478213	0.023385215
11Feb2011	10683	0	8723.7	0.816596462	23	42	7.083333333	0	0.73504746	0.081549002
14Feb2011	10683	0	6837.2	0.640007489	33	32	9.333333333	0	0.598119889	0.0418876
15Feb2011	10683	0	6467.3	0.605382383	34	31	9.708333333	0	0.585263124	0.02011926
16Feb2011	10683	0	5698.9	0.533455022	36	29	10.125	0	0.557691833	-0.024236811
17Feb2011	10683	0	6205.1	0.580838716	36	29	12.45833333	0	0.570696154	0.010142562
18Feb2011	10683	0	7994.4	0.748329121	20	45	9	0	0.790569816	-0.042240695
21Feb2011	10683	0	8656.35	0.810292053	19	46	5.291666667	0	0.78484898	0.025443073
22Feb2011	10683	0	8229.5	0.770336048	19	46	5.875	0	0.78810006	-0.017764012
23Feb2011	10683	0	7998.45	0.748708228	24	41	8.5	0	0.727996195	0.020712033
24Feb2011	10683	0	9535.15	0.89255359	12	53	9.625	0	0.913627077	-0.021073488
25Feb2011	10683	0	10616.6	0.993784517	2	63	5.208333333	0	1.038479208	-0.044694691
28Feb2011	10683	0	8809.25	0.8816404512	13	52	6.5	0	0.881263831	-0.05665932
01Mar2011	10680	0	9185.9	0.860102996	16	49	10.5	0	0.858716717	0.001386279
02Mar2011	10680	0	9828.9	0.920308989	12	53	10.5	0	0.918503698	0.001805291
03Mar2011	10680	0	6950.15	0.506763109	31	34	7.708333333	0	0.618956799	0.03180631
04Mar2011	10680	0	8030.45	0.751914794	25	40	11.04166667	0	0.72721487	0.024699924
07Mar2011	10680	0	7343.4	0.68758427	29	36	6.458333333	0	0.641883689	0.045700581
08Mar2011	10680	0	6662.15	0.623796816	32	33	11	0	0.622355434	0.001441382
09Mar2011	10680	0	7317.35	0.685145131	28	37	10.5	0	0.679355775	0.005789356
10Mar2011	10680	0	7790.45	0.729442884	22	43	4.916666667	0	0.737918764	-0.008475881
11Mar2011	10680	0	6950.5	0.65079588	31	34	16.83333333	0	0.669812981	-0.019017101
14Mar2011	10680	0	6658.35	0.623441011	28	37	7	0	0.659849294	-0.036408283
15Mar2011	10680	0	6069.1	0.56826779	34	31	5.583333333	0	0.562273342	0.005994448

16Mar2011	10680	0	4645.7	0.434990637	42	23	11	0	0.472887982	-0.037897346
17Mar2011	10680	0	5308.45	0.49704588	41	24	7.791666667	0	0.469953787	0.027092093
18Mar2011	10680	0	6186.35	0.579246255	31	34	4.958333333	0	0.603630278	-0.024384023
21Mar2011	10680	0	5643.95	0.528459738	40	25	12.70833333	0	0.512302493	0.016157245
22Mar2011	10680	0	7070.55	0.662036517	35	30	18.95833333	0	0.621869221	0.040167296
23Mar2011	10680	0	8029.2	0.751797753	25	40	12.875	0	0.737432551	0.014365202
24Mar2011	10680	0	7048.6	0.659981273	25	40	4.625	0	0.691452989	-0.031471715
25Mar2011	10680	0	6574.75	0.615613296	28	37	9.166666667	0	0.671924734	-0.056311439
28Mar2011	10680	0	6333.5	0.593024345	32	33	5.416666667	0	0.591237953	0.001786392
29Mar2011	10680	0	6120.1	0.573043071	31	34	2.5	0	0.589929297	-0.016886226
30Mar2011	10680	0	5459.05	0.511147004	38	27	3.333333333	0	0.489946481	0.021200523
31Mar2011	10680	0	5212.45	0.488057116	41	24	6.5	0	0.462754966	0.02530215
01Nov2011	10641	0	3510.2	0.329875012	49	16	8.208333333	0	0.352702025	-0.022827014
02Nov2011	10641	0	4842.35	0.455065313	38	27	8.416666667	0	0.518277322	-0.063212009
03Nov2011	10641	0	5115.45	0.480730195	36	29	2.375	0	0.514498911	-0.033768717
04Nov2011	10641	0	4523.45	0.425096326	42	23	14.91666667	0	0.494716663	-0.069620338
07Nov2011	10641	0	3970.75	0.373155718	44	21	4.708333333	0	0.40792927	-0.034773552
08Nov2011	10641	0	4758.9	0.447223005	41	24	10.20833333	0	0.483422547	-0.036199542
09Nov2011	10641	0	5140.8	0.483112489	38	27	11.375	0	0.534764943	-0.051652454
10Nov2011	10641	0	5939.05	0.558128935	33	32	6.375	0	0.581632268	-0.023503333
11Nov2011	10641	0	4576.1	0.430044169	42	23	7.75	0	0.454774822	-0.024730653
14Nov2011	10641	0	4416.75	0.415069072	44	21	6.291666667	0	0.416753631	-0.001684558
15Nov2011	10641	0	5329.95	0.500888074	36	29	8.958333333	0	0.551189673	-0.050301599
16Nov2011	10641	0	7049.95	0.662527018	26	39	8.958333333	0	0.700657125	-0.038130107
17Nov2011	10641	0	6594.35	0.619711493	25	40	9.875	0	0.72071271	-0.101001217
18Nov2011	10641	0	5039	0.473545719	39	26	8.75	0	0.505188337	-0.031642618
21Nov2011	10641	0	6003.55	0.564190396	31	34	5.541666667	0	0.606881358	-0.042690962
22Nov2011	10641	0	5172.85	0.486124424	39	26	2.875	0	0.472445316	0.013679109
23Nov2011	10641	0	4560	0.428531153	44	21	9.125	0	0.432544592	-0.004013439
24Nov2011	10641	0	2939.05	0.276200545	50	15	13.16666667	0	0.365389462	-0.089188917
25Nov2011	10641	0	3249.3	0.305356639	46	19	9.416666667	0	0.404276641	-0.098920002
28Nov2011	10641	0	6656.35	0.625538013	32	33	9.291666667	0	0.612834414	0.0127036
29Nov2011	10641	0	6977.8	0.65574664	28	37	5.458333333	0	0.651257153	0.004489487
30Nov2011	10641	0	6116.2	0.574776807	36	29	7.958333333	0	0.545616393	0.029160414
01Dec2011	10660	0	7835.85	0.735070356	20	45	7.5	0	0.782209895	-0.047139539
02Dec2011	10660	0	6810.9	0.638921201	24	41	10.25	0	0.737749435	-0.098828235
05Dec2011	10660	0	8625.35	0.80913227	16	49	5.666666667	0	0.831779196	-0.022646925
06Dec2011	10660	0	9606.5	0.901172608	12	53	5.958333333	0	0.893191716	0.007980891
07Dec2011	10660	0	8366.9	0.78488743	22	43	4.333333333	0	0.734667684	0.050219745
08Dec2011	10660	0	9233.3	0.866163227	12	53	6.041666667	0	0.893656156	-0.027492929
09Dec2011	10660	0	10339.05	0.96989212	6	59	5.833333333	0	0.982175527	-0.012283407
12Dec2011	10660	0	6234.2	0.584821764	36	29	2.666666667	0	0.516124451	0.068697312
13Dec2011	10660	0	6106.95	0.572884615	36	29	6.458333333	0	0.537256472	0.035628143
14Dec2011	10660	0	5977.45	0.560736398	35	30	8.291666667	0	0.562420898	-0.0016845
15Dec2011	10660	0	8263.1	0.775150094	23	42	9.916666667	0	0.750838421	0.024311673
16Dec2011	10660	0	7392.1	0.693442777	22	43	2.083333333	0	0.722127804	-0.028685027
19Dec2011	10660	0	7594	0.712382739	22	43	5.791666667	0	0.742795385	-0.030412645
20Dec2011	10660	0	8163.3	0.765787992	20	45	2.625	0	0.755040154	0.010747838
21Dec2011	10660	0	7143.7	0.670140713	30	35	8.25	0	0.636922404	0.033218309
22Dec2011	10660	0	8398.45	0.787847092	21	44	7.416666667	0	0.76679871	0.021048382
23Dec2011	10660	0	7622.9	0.715093809	24	41	6.958333333	0	0.719404055	-0.004310246
26Dec2011	10660	0	5490.75	0.515079737	38	27	14.95833333	0	0.554735864	-0.039656127
27Dec2011	10660	0	7204.05	0.675802064	28	37	7.125	0	0.660545954	0.01525611
28Dec2011	10660	0	6089.45	0.571242964	31	34	8.375	0	0.622672319	-0.051429354
29Dec2011	10660	0	6107.45	0.57293152	33	32	6.416666667	0	0.581864488	-0.008932968
30Dec2011	10660	0	6028.5	0.565525328	32	33	3.333333333	0	0.579626952	-0.014101624
02Jan2012	10663	0	9158.55	0.858909313	14	51	7.333333333	0	0.870961486	-0.012052174
03Jan2012	10663	0	8032.15	0.753273	21	44	10.45833333	0	0.783750771	-0.030477771
04Jan2012	10663	0	6279.65	0.588919629	31	34	6.166666667	0	0.610364658	-0.02144503
05Jan2012	10663	0	4993.6	0.468310982	40	25	7.208333333	0	0.481649452	-0.01333847
06Jan2012	10663	0	5624.3	0.527459439	36	29	5.833333333	0	0.549099693	-0.021640254
09Jan2012	10663	0	5612.9	0.526390322	37	28	6.583333333	0	0.5230906387	0.003383934
10Jan2012	10663	0	4983.55	0.46736847	40	25	4.791666667	0	0.468180691	-0.000812221
11Jan2012	10663	0	8955.05	0.839824627	23	42	16.25	0	0.786135862	0.053688765
12Jan2012	10663	0	10692.45	1.002761887	10	55	14	0	0.967903669	0.034858218
13Jan2012	10663	0	9865.85	0.925241489	8	57	2.291666667	0	0.932543336	-0.007301847
16Jan2012	10663	0	8074.7	0.757263434	23	42	14	0	0.773595982	-0.016332547
17Jan2012	10663	0	10475.8	0.982443965	7	58	8.458333333	0	0.981858643	0.000585322
18Jan2012	10663	0	10599.2	0.994016693	10	55	13.75	0	0.966510349	0.027506344
19Jan2012	10663	817.0338053	9651.916195	0.905178298	-3	68	3.916666667	0	1.106014114	-0.200835815
20Jan2012	10663	0	10956.15	1.027492263	-4	69	3.958333333	0	1.121193079	-0.093700816
23Jan2012	10663	0	8457.65	0.793177342	23	42	9.625	0	0.74921288	0.043964462
24Jan2012	10663	0	7818.7	0.733255181	21	44	3.458333333	0	0.744737809	-0.011482628
25Jan2012	10663	0	7200.55	0.675283691	29	36	9.875	0	0.660925729	0.014357962
26Jan2012	10663	0	6752.8	0.633292694	26	39	6.666666667	0	0.687885024	-0.05459233
27Jan2012	10663	0	7725.4	0.724505299	26	39	11	0	0.712035905	0.012469393
30Jan2012	10663	0	5432.65	0.509486073	36	29	6.541666667	0	0.537720912	-0.028234839
31Jan2012	10663	0	5343.75	0.501148832	38	27	6.375	0	0.506898542	-0.00574971
01Feb2012	10674	0	5964.1	0.55427791	36	29	2.541666667	0	0.515427791	0.043322443
02Feb2012	10674	0	5291.4	0.495727937	40	25	3.458333333	0	0.460749651	0.034978286
03Feb2012	10674	0	6540.85	0.612783399	33	32	10.16666667	0	0.602764289	0.01001911
06Feb2012	10674	0	5954.15	0.557818063	37	28	7.875	0	0.530205208	0.027612855
07Feb2012	10674	0	8045.95	0.753789582	24	41	7.125	0	0.720332935	0.033456648
08Feb2012	10674	0	7836.05	0.734124977	21	44	5	0	0.75332995	-0.019204973
09Feb2012	10674	0	7508.7	0.703456998	23	42	11.95833333	0	0.762217201	-0.058760203
10Feb2012	10674	0	10308.9	0.965795391	6	59	13.375	0	1.024207349	-0.058411959
13Feb2012	10674	0	7422.5	0.6953813	26	39	4.708333333	0	0.676970638	0.018410617
14Feb2012	10674	0	6858.05	0.642500468	25	40	6.041666667	0	0.699348469	-0.056848001
15Feb2012	10674	0	6162.15	0.577304666	28	37	3.125	0	0.638252833	-0.060948167
16Feb2012	10674	0	6280.35	0.588378302	30	35	6.541666667	0	0.627401383	-0.039023081
17Feb2012	10674	0	6286.4	0.5889451	28	37	8.708333333	0	0.669370314	-0.080425214
20Feb2012	10674	0	6365.25	0.596332209	33	32	17	0	0.640848371	-0.044516161
21Feb2012	10674	0	6575.85	0.616062395	31	34	8.583333333	0	0.623833419	-0.00771024
22Feb2012	10674	0	5804.2	0.543769908	31	34	1.25	0	0.582962697	-0.039192789
23Feb2012	10674	0	6421.6	0.601611392	31	34	9	0	0.626155619	-0.024544227
24Feb2012	10674	0	8513	0.797545438	17	48	12.66666667	0	0.855845412	-0.058299975
27Feb2012	10674	0	7162.3	0.67100431	23	42	6.916666667	0	0.73411858	-0.06311427
28Feb2012	10674	0	7016.05	0.657302792	32	33	9.666666667	0	0.614924394	0.042378398

29Feb2012	10674	0	6597.25	0.618067266	31	34	7.708333333	0	0.618956799	-0.000889532
01Mar2012	10672	0	5893.85	0.552272301	32	33	3.041666667	0	0.578001412	-0.025729111
02Mar2012	10672	0	6820.9	0.639139805	27	38	12.33333333	0	0.7045202	-0.065380395
05Mar2012	10672	0	6867.3	0.643487631	26	39	14.375	0	0.730845726	-0.087358095
06Mar2012	10672	0	3625.9	0.339758246	49	16	10.75	0	0.366867446	-0.0271092
07Mar2012	10672	0	6313.9	0.591632309	37	28	10.625	0	0.545531728	0.046100581
08Mar2012	10672	0	6660.55	0.624114505	29	36	11.79166667	0	0.67160785	-0.047493345
09Mar2012	10672	0	5799.9	0.543468891	31	34	12.04166667	0	0.643107468	-0.099638789
12Mar2012	10672	0	3886.8	0.364205397	43	22	6.125	0	0.430771496	-0.066566099
26Mar2012	10672	0	4383.3	0.41072901	43	22	24.41666667	0	0.532716081	-0.12198707
28Mar2012	10672	0	2879.75	0.269841642	46	19	7.583333333	0	0.394058961	-0.124217319
30Mar2012	10672	0	2912.2	0.272882309	48	17	7.291666667	0	0.36253993	-0.089657622
01Nov2012	10679	0	4596.3	0.430405469	35	30	7.583333333	0	0.558473158	-0.128067689
02Nov2012	10679	0	4616.6	0.432306396	33	32	3.875	0	0.567699067	-0.135392671
05Nov2012	10679	0	4388.05	0.410904579	40	25	8	0	0.486061632	-0.075157053
06Nov2012	10679	0	4647	0.435153104	38	27	9.166666667	0	0.522457283	-0.087304178
07Nov2012	10679	0	4726.3	0.442578893	38	27	4.833333333	0	0.498306402	-0.055727508
08Nov2012	10679	0	3931.55	0.368157131	44	21	7.25	0	0.422094691	-0.05393756
09Nov2012	10679	0	3258.5	0.305131567	44	21	14.125	0	0.460410993	-0.155279426
12Nov2012	10679	0	7891.65	0.738987733	21	44	6.416666667	0	0.76122543	-0.022237697
13Nov2012	10679	0	5502.95	0.51530574	31	34	8.125	0	0.621278999	-0.105973258
14Nov2012	10679	0	4256.6	0.398595374	44	21	6.125	0	0.415824751	-0.017229377
15Nov2012	10679	0	4771.45	0.446806817	35	30	6.041666667	0	0.549881017	-0.1030742
16Nov2012	10679	0	4705.35	0.440617099	32	33	6.333333333	0	0.596346793	-0.155729694
19Nov2012	10679	0	3531.6	0.330705122	45	20	4.666666667	0	0.392750305	-0.062045183
20Nov2012	10679	0	3987.8	0.373424478	42	23	5.291666667	0	0.441073841	-0.067649363
22Nov2012	10679	0	4654.05	0.435813278	37	28	16.875	0	0.58036473	-0.144551451
23Nov2012	10679	0	7703.4	0.721359678	16	49	8.75	0	0.848963476	-0.127603799
26Nov2012	10679	0	8504.05	0.796333926	16	49	6.125	0	0.834333616	-0.037999689
27Nov2012	10679	0	7310.5	0.684567843	25	40	6.583333333	0	0.702367329	-0.017799486
28Nov2012	10679	0	6445.15	0.603534975	28	37	5.083333333	0	0.649167173	-0.045632198
29Nov2012	10679	0	5369.85	0.502842026	32	33	4.75	0	0.587522433	-0.084680406
30Nov2012	10679	0	5489.65	0.514060305	33	32	10.95833333	0	0.607176469	-0.093116164
03Dec2012	10689	0	4162.7	0.38943774	44	21	8.541666667	0	0.429293511	-0.039855772
04Dec2012	10689	0	6306.8	0.590027131	27	38	5.875	0	0.668526099	-0.078498968
05Dec2012	10689	0	6129.1	0.573402563	31	34	16.45833333	0	0.667723001	-0.094320437
06Dec2012	10689	0	5316.2	0.497352418	34	31	6.958333333	0	0.569936603	-0.072584184
07Dec2012	10689	0	6236.05	0.583408177	27	38	8.083333333	0	0.680833759	-0.097425583
10Dec2012	10689	0	9288.4	0.868968098	11	54	6.291666667	0	0.909996222	-0.041028124
11Dec2012	10689	0	7643.8	0.715108991	21	44	5.458333333	0	0.75588437	-0.040775379
12Dec2012	10689	0	6188.1	0.578922257	37	28	14.04166667	0	0.564573769	0.014348487
13Dec2012	10689	0	6665.8	0.62361306	28	37	3.041666667	0	0.637788393	-0.014175333
14Dec2012	10689	0	5097.95	0.476934231	35	30	12.83333333	0	0.587732879	-0.110798648
17Dec2012	10689	0	7390.5	0.691411732	23	42	3.5	0	0.715076539	-0.023664807
18Dec2012	10689	0	6792.6	0.635475723	27	38	5.125	0	0.664346139	-0.028870416
19Dec2012	10689	0	6672.7	0.624258584	25	40	8.25	0	0.71165613	-0.087397546
20Dec2012	10689	0	9590.85	0.897263542	11	54	15.20833333	0	0.959691304	-0.062427762
21Dec2012	10689	0	9483.6	0.887229862	7	58	3.458333333	0	0.953992422	-0.066762379
26Dec2012	10689	0	10002.15	0.935742352	10	55	3.333333333	0	0.908455346	0.027287006
27Dec2012	10689	0	8940.75	0.836444008	12	53	6.25	0	0.894817325	-0.058373249
28Dec2012	10689	0	8129.65	0.76056226	19	46	5.25	0	0.78461676	-0.0240545
02Jan2013	10704	0	9373.35	0.875686659	18	47	6.541666667	0	0.806762326	0.068924334
03Jan2013	10704	0	9944.65	0.92905923	16	49	8.333333333	0	0.846641276	0.082417954
04Jan2013	10704	0	8452.35	0.789644058	19	46	4.333333333	0	0.77950706	0.010136139
07Jan2013	10704	0	7662.25	0.715830531	23	42	5.125	0	0.724133119	-0.008302589
08Jan2013	10704	0	7222.65	0.674761771	27	38	10.20833333	0	0.69267698	-0.017915209
09Jan2013	10704	0	6677.15	0.623799514	33	32	8.5	0	0.593475488	0.030324026
10Jan2013	10704	0	6528.9	0.609949552	34	31	12.54166667	0	0.601054084	0.008895467
11Jan2013	10704	0	6314.4	0.589910314	31	34	11.66666667	0	0.6410177	-0.051107386
14Jan2013	10704	0	9690.15	0.905283072	16	49	5.375	0	0.830153656	0.075129416
15Jan2013	10704	0	8327.8	0.778008221	25	40	11.54166667	0	0.730001511	0.048006711
16Jan2013	10704	0	8292.25	0.774687033	23	42	8.708333333	0	0.74410404	0.030582993
17Jan2013	10704	0	8589.95	0.802499066	20	45	6.958333333	0	0.779191035	0.02330803
18Jan2013	10704	0	5708.95	0.533347347	38	27	8.75	0	0.520135083	0.013212264
21Jan2013	10704	1049.374442	11430.72556	0.167892896	-4	69	8.791666667	0	1.1481306	-0.080237704
22Jan2013	10704	0	11355.65	1.060879111	5	60	4.416666667	0	0.989226792	0.071652318
23Jan2013	10704	0	11579.75	1.081815209	8	57	10.58333333	0	0.978755118	0.103060091
24Jan2013	10704	0	11146.9	1.041377055	9	56	10.66666667	0	0.964272813	0.077104242
25Jan2013	10704	0	10554.15	0.986000561	13	52	8.625	0	0.893107052	0.092893509
28Jan2013	10704	0	6894.25	0.644081652	34	31	3	0	0.547875702	0.09620595
29Jan2013	10704	0	7435	0.694600149	30	35	12.5	0	0.660608845	0.033991305
30Jan2013	10704	0	10825.5	1.011350897	12	53	13.66666667	0	0.936152418	0.075198478
31Jan2013	10704	817.0338053	11644.71619	1.087884547	-4	69	12.70833333	0	1.169959281	-0.082074734
01Feb2013	10702	0	10947.85	1.022972342	2	63	7.083333333	0	1.048929109	-0.025956767
04Feb2013	10702	0	9123.15	0.852471501	17	48	5.958333333	0	0.818457991	0.03401351
05Feb2013	10702	0	8332.95	0.778634835	22	43	5.666666667	0	0.742098725	0.03653611
06Feb2013	10702	0	7213.4	0.674023547	28	37	7	0	0.659849294	0.014174253
07Feb2013	10702	0	8073.05	0.754349654	27	38	8.375	0	0.682459299	0.071890355
08Feb2013	10702	0	7716.15	0.721000748	27	38	10.625	0	0.69499918	0.026001568
11Feb2013	10702	0	8958.55	0.837091198	24	41	11.70833333	0	0.745877136	0.091214062
12Feb2013	10702	0	7058.5	0.659549617	29	36	5.083333333	0	0.634220428	0.025329189
13Feb2013	10702	0	6204.05	0.5797094	34	31	8.75	0	0.579922063	-0.000212663
14Feb2013	10702	0	8208.3	0.766987479	22	43	9.5	0	0.763462966	0.003524513
15Feb2013	10702	0	9231.35	0.86258176	15	50	8.083333333	0	0.860194701	0.002387059
18Feb2013	10702	0	10605.45	0.990978322	18	47	15.375	0	0.855992968	0.134985354
19Feb2013	10702	0	12690.8	1.185834423	1	64	10.54166667	0	1.083150115	0.102684309
20Feb2013	10702	0	10389	0.97075313	8	57	5.291666667	0	0.949263177	0.021489953
21Feb2013	10702	0	9232.4	0.862679873	19	46	11.625	0	0.820146422	0.042533451
22Feb2013	10702	0	7979.25	0.745584937	23	42	7.208333333	0	0.73574412	0.009840818
25Feb2013	10702	0	7064.75	0.66013362	27	38	3.666666667	0	0.656218438	0.003915182
26Feb2013	10702	0	7106	0.66398804	29	36	12.20833333	0	0.67393005	-0.00994201
27Feb2013	10702	0	7186.3	0.67149131	30	35	10.54166667	0	0.649695404	0.021796806
28Feb2013	10702	0	7544.75	0.70498505	25	40	7.25	0	0.706082849	-0.0010978
01Mar2013	10699	0	8106.6	0.757696981	14	51	5.75	0	0.862137126	-0.104440145
04Mar2013	10699	0	7664.15	0.716342649	27	38	10.33333333	0	0.69337364	0.022969009
05Mar2013	10699	0	7340.75	0.686115525	25	40	7.833333333	0	0.70933393	-0.023218405
06Mar2013	10699	0	8485.95	0.793153566	13	52	3	0	0.86175735	-0.068603785
07Mar2013	10699	0	7987.25	0.746541733	16	49	11.16666667	0	0.862432237	-0.115890504

08Mar2013	10699	0	6315.05	0.590246752	29	36	16.41666667	0	0.697384271	-0.107137519
11Mar2013	10699	0	7659.6	0.715917375	25	40	8.75	0	0.71444277	0.001474606
12Mar2013	10699	0	8425.85	0.787536218	20	45	11.16666667	0	0.802645256	-0.015109038
13Mar2013	10699	0	7583.15	0.708771848	22	43	7.25	0	0.750923085	-0.042151237
14Mar2013	10699	0	6061.8	0.566576316	33	32	3.791666667	0	0.567234627	-0.000658312
15Mar2013	10699	0	5913.95	0.552757267	31	34	9.166666667	0	0.627084499	-0.074327232
18Mar2013	10699	0	9558.1	0.893363866	20	45	15.66666667	0	0.827725018	0.065638848
19Mar2013	10699	0	9856.55	0.921258996	16	49	12.25	0	0.868469957	0.052789039
20Mar2013	10699	0	9956.1	0.930563604	11	54	8.541666667	0	0.922536102	0.008027502
21Mar2013	10699	0	8295.8	0.775380877	15	50	1.583333333	0	0.82396838	-0.048587503
22Mar2013	10699	0	7035.1	0.657547434	21	44	2.125	0	0.737306769	-0.079759335
25Mar2013	10699	0	6927.15	0.647457706	28	37	8.708333333	0	0.669370314	-0.021912608
26Mar2013	10699	0	6391.8	0.59742032	29	36	2.583333333	0	0.620287228	-0.022866908
27Mar2013	10699	0	5862.45	0.547943733	33	32	1.875	0	0.556552507	-0.008608774
28Mar2013	10699	0	5283.6	0.493840546	38	27	5.375	0	0.501325262	-0.007484716
29Mar2013	10699	0	3954.35	0.369599963	44	21	10.70833333	0	0.441368952	-0.071768989
01Nov2013	10681	0	5629.9	0.527094841	45	20	7.791666667	0	0.410166806	0.116928035
04Nov2013	10681	0	6566.25	0.614759854	37	28	3.916666667	0	0.508144306	0.106615547
05Nov2013	10681	0	6589	0.616889804	37	28	12.25	0	0.554588309	0.062301496
06Nov2013	10681	0	6280.7	0.588025466	35	30	6.708333333	0	0.553596538	0.034428928
07Nov2013	10681	0	6344.25	0.593975283	32	33	5.958333333	0	0.594256813	-0.000281553
08Nov2013	10681	0	5613.8	0.525587492	39	26	14.29166667	0	0.536073599	-0.010486107
11Nov2013	10681	0	8761.3	0.820269638	17	48	9	0	0.835410051	-0.015140414
12Nov2013	10681	0	8176.9	0.76555566	18	47	6.666666667	0	0.807458986	-0.041903326
13Nov2013	10681	0	6194.35	0.579941017	39	26	11.95833333	0	0.523069278	0.056871739
14Nov2013	10681	0	5938.45	0.555982586	37	28	4.125	0	0.509305407	0.046677179
15Nov2013	10681	0	4429.45	0.414703679	42	23	9.083333333	0	0.462205862	-0.047502183
18Nov2013	10681	0	6569.5	0.615064133	29	36	6.333333333	0	0.641187029	-0.026122896
19Nov2013	10681	0	5531	0.517835409	37	28	19.25	0	0.59360127	-0.075765862
20Nov2013	10681	0	5757.3	0.539022563	35	30	10.16666667	0	0.572870798	-0.033848235
21Nov2013	10681	0	7962.55	0.745487314	20	45	10.66666667	0	0.799858616	-0.054371302
22Nov2013	10681	0	8190.25	0.766805543	18	47	8.833333333	0	0.819534426	-0.052728884
25Nov2013	10681	0	6858.35	0.642107481	33	32	10.54166667	0	0.604854269	0.037253212
26Nov2013	10681	0	9143.1	0.856015354	14	51	10.45833333	0	0.888377987	-0.032362633
27Nov2013	10681	0	8496.75	0.795501358	15	50	5.791666667	0	0.847422601	-0.051921243
28Nov2013	10681	0	7783.95	0.728766033	20	45	3.958333333	0	0.762471195	-0.033705161
29Nov2013	10681	0	7222.95	0.676242861	24	41	11.375	0	0.744019376	-0.067776515
02Dec2013	10705	0	6106.8	0.570462401	35	30	10	0	0.571941918	-0.001479518
03Dec2013	10705	0	5983.05	0.558902382	34	31	6.666666667	0	0.568311063	-0.009408681
04Dec2013	10705	0	8308.95	0.776174685	22	43	11.79166667	0	0.776235066	-6.03815E-05
05Dec2013	10705	0	11225.3	1.048603456	4	61	9.791666667	0	1.034129919	0.014473537
06Dec2013	10705	0	11941.25	1.115483419	-1	66	8.833333333	0	1.092376024	0.023107395
09Dec2013	10705	0	11681.55	1.091223727	7	58	11.45833333	0	0.998578484	0.092645243
10Dec2013	10705	0	10694.8	0.999047174	5	60	9	0	1.014770993	-0.015723819
11Dec2013	10705	0	11698.2	1.092779075	2	63	8.125	0	1.054734609	0.038044466
12Dec2013	10705	0	9225	0.861746847	14	51	3.791666667	0	0.851222786	0.010524062
13Dec2013	10705	0	8966.55	0.837603923	19	46	11.5	0	0.819449762	0.018154162
16Dec2013	10705	0	9301.35	0.868879028	20	45	8.916666667	0	0.790105376	0.078773653
17Dec2013	10705	0	8719.25	0.814502569	19	46	10.29166667	0	0.812715381	0.001787188
18Dec2013	10705	0	7144.3	0.667379729	29	36	8.291666667	0	0.652101369	0.01527836
19Dec2013	10705	0	8896.4	0.831050911	20	45	13.20833333	0	0.814024037	0.017026874
20Dec2013	10705	0	8723.4	0.814890238	18	47	4.791666667	0	0.797009085	0.017881153
23Dec2013	10705	0	13057.9	1.219794489	-7	72	1.166666667	0	1.183914255	0.035880233
26Dec2013	10705	0	7636.75	0.713381597	21	44	2.291666667	0	0.738235649	-0.024854052
27Dec2013	10705	0	6611.5	0.617608594	31	34	6.916666667	0	0.614544618	0.003063976
30Dec2013	10705	0	12051.1	1.125744979	-3	68	4.416666667	0	1.108800754	0.016944225
02Jan2014	10714	0	12660.95	1.181720179	-7	72	4.708333333	0	1.170213274	0.011506905
03Jan2014	10714	0	10236.45	0.955427478	20	45	16.33333333	0	0.831440538	0.12398694
06Jan2014	10714	1866.408247	11639.94175	1.086423535	-14	79	9	0	1.298759152	-0.212335617
07Jan2014	10714	817.0338053	10759.86619	1.004280959	-1	66	1.916666667	0	1.064974063	-0.060693104
08Jan2014	10714	0	12484.9	1.165288408	-3	68	4.5	0	1.109265194	0.056023214
09Jan2014	10714	0	10339.45	0.965041068	13	52	12.25	0	0.913310193	0.051730875
10Jan2014	10714	0	7843.7	0.732098189	25	40	3	0	0.682396408	0.049701781
13Jan2014	10714	0	7064.15	0.659338249	31	34	9.791666667	0	0.630567799	0.02877045
14Jan2014	10714	0	10232.4	0.955049468	13	52	12.29166667	0	0.913542413	0.041507055
15Jan2014	10714	0	9341.7	0.871915251	19	46	11.33333333	0	0.818520882	0.053394369
16Jan2014	10714	0	10926.4	1.019824529	17	48	14.75	0	0.867456413	0.152368116
17Jan2014	10714	0	10522.3	0.982107523	8	57	8.458333333	0	0.966911898	0.015195625
20Jan2014	10714	0	10988.95	1.025662684	6	59	11.04166667	0	1.011203029	0.014459656
21Jan2014	10714	0	11951.9	1.115540414	-4	69	7.333333333	0	1.1400029	-0.024462485
22Jan2014	10714	1049.374442	11927.62556	1.113274739	-3	68	12.875	0	1.155941416	-0.042666676
23Jan2014	10714	1049.374442	11265.72556	1.051495759	-1	66	10.25	0	1.111418065	-0.059922306
24Jan2014	10714	0	8843.5	0.825415344	21	44	14	0	0.803489472	0.021925872
27Jan2014	10714	1866.408247	10668.54175	0.995757117	-13	78	7.5	0	1.275452486	-0.279695369
28Jan2014	10714	817.0338053	11223.01619	1.047509445	-6	71	7.416666667	0	1.17036083	-0.122851385
29Jan2014	10714	0	8831.2	0.824267314	17	48	13.04166667	0	0.857935392	-0.033668079
30Jan2014	10714	0	10663.6	0.995295875	11	54	10	0	0.930663803	0.064632072
31Jan2014	10714	0	10755.65	1.003887437	2	63	4.75	0	1.035924788	-0.032037351
03Feb2014	10719	0	9883.15	0.920221644	7	58	3.833333333	0	0.956082222	-0.034060578
04Feb2014	10719	0	11267.25	1.051147495	5	60	10.66666667	0	1.024059794	0.027087701
05Feb2014	10719	0	12832.25	1.197149921	-3	68	8.666666667	0	1.132487195	0.064662726
06Feb2014	10719	0	12607.95	1.176224461	-3	68	9.583333333	0	1.137596035	0.038628426
07Feb2014	10719	0	10974.1	1.023798862	2	63	5.791666667	0	1.041730288	-0.017931426
10Feb2014	10719	1866.408247	9446.891753	0.881322115	-11	76	3.125	0	1.221175895	-0.33985378
11Feb2014	10719	0	11241.45	1.048740554	-1	66	11.08333333	0	1.116062465	-0.067321911
12Feb2014	10719	0	9300.45	0.867660229	19	46	6.75	0	0.79297668	0.074683549
13Feb2014	10719	0	10212.1	0.952710141	19	46	10.91666667	0	0.816198681	0.136511459
14Feb2014	10719	0	10544.4	0.983711167	3	62	6.416666667	0	1.030266843	-0.046555676
17Feb2014	10719	0	7840.3	0.7314395	28	37	8.958333333	0	0.670763634	0.060675866
18Feb2014	10719	0	6541.25	0.610248157	30	35	6	0	0.624382523	-0.014134366
19Feb2014	10719	0	5889.25	0.549421588	33	32	8.291666667	0	0.592314388	-0.0428928
20Feb2014	10719	0	8077.7	0.753587088	22	43	13.16666667	0	0.783898327	-0.030311238
21Feb2014	10719	0	8926.85	0.832806232	13	52	8.791666667	0	0.894035932	-0.0612297
24Feb2014	10719	0	10852.4	1.012445191	2	63	7.083333333	0	1.048929109	-0.036483918
25Feb2014	10719	817.0338053	10672.71619	0.995682078	-2	67	8.916666667	0	1.11893377	-0.123251692
26Feb2014	10719	0	12020.5	1.121419909	4	61	14.70833333	0	1.061531388	0.059888028
27Feb2014	10719	1049.374442	11007.97556	1.02695919	-4	69	7.086956522	0	1.138629773	-0.111670583

03Mar2014		10719	817.0338053	10212.46619	0.952744304	2	63	8.041666667	0	1.054270169	-0.101525865
04Mar2014		10719	0	8975.25	0.837321579	14	51	8.333333333	0	0.876534767	-0.039213188
05Mar2014		10719	0	8806.9	0.821615822	15	50	10.45833333	0	0.873431242	-0.05181542
06Mar2014		10719	0	8527.85	0.79558261	23	42	12.04166667	0	0.762681641	0.032900969
07Mar2014		10719	0	7497	0.699412259	27	38	8.391304348	0	0.682550168	0.01686209
10Mar2014		10719	0	4940.3	0.460891874	41	24	4.791666667	0	0.453233946	0.007657928
11Mar2014		10719	0	6986.1	0.65174923	28	37	11.58333333	0	0.685393495	-0.033644265
12Mar2014		10719	0	7323.9	0.683263364	24	41	6.875	0	0.718939615	-0.03567625
13Mar2014		10719	0	4946.9	0.461507603	41	24	9.166666667	0	0.477617047	-0.016109444
14Mar2014		10719	0	5876	0.548185465	35	30	9.25	0	0.567761958	-0.019576493
17Mar2014		10719	0	6769.1	0.631504805	32	33	12.33333333	0	0.629786475	0.00171833
18Mar2014		10719	0	6246.45	0.582745592	33	32	10.83333333	0	0.606479809	-0.023734217
19Mar2014		10719	0	6810.55	0.63537177	28	37	5.541666667	0	0.651721593	-0.016349824
20Mar2014		10719	0	5520.35	0.515006064	32	33	7.666666667	0	0.603777833	-0.088771769
21Mar2014		10719	0	6739.7	0.628762011	31	34	13.08333333	0	0.64891318	-0.020151169
24Mar2014		10719	0	8208.65	0.765803713	21	44	11.25	0	0.788162951	-0.022359238
25Mar2014		10719	0	9010.85	0.840642784	17	48	8.458333333	0	0.832391191	0.008251593
26Mar2014	Trade	10719	0	6401.55	0.597215225	33	32	18.70833333	0	0.650369391	-0.053154166
27Mar2014	Secret	10719	0	6674.9	0.622716671	33	32	12	0	0.612981969	0.009734702
28Mar2014	Data	10719	0	6173.2	0.575911932	31	34	5.333333333	0	0.605720258	-0.029808326
31Mar2014	Ends]	10719	0	5568.45	0.519493423	41	24	19.33333333	0	0.53427873	-0.014785307

MN Reserve Margin Calculation - 2014

Line	Description	Unit	Value	Calculation
1	Standard Deviation of Residuals	Dth/customer	0.0655	
2	95% Critical Value (1 sided)	Z statistic	1.64	
3	Critical Use per customer	Dth/customer	0.1074	Line 1 * line 2
4	Customers	customer	10,746	
5	Estimated reserve	Dth	1,154	line 3* line 4
6	Design Day Forecast	Dth	12,915	
7	Recomended reserve margin	percent	8.9%	line 5 / line 6
8	Recomeded Peak + reserve	Dth	14,069	line 5 + line 6
9	Capacity	Dth	14,219	
10	Reserve	Dth	1,304	line 9 - line 6
11	Reserve percent	percent	10.1%	line 6 / line 10
12	Capacity -Z	Z statistic	1.85	
13	Design Day probability	percent	96.8%	