

PNG-NNG Peak Day Regression for Winter 2010

	2	3	4	5		11	23
	(Mon=1)	Cloquet	Minneapolis	Rochester	Total	WCHDD65	CloudPct
Date	Day	Daily Meter	Daily Meter	Daily Meter	Daily Meter		
12/1/2006	5	5,803	48,053	91,707	145,563	58.9	47%
12/2/2006	6	6,306	53,862	98,675	158,844	64.0	51%
12/3/2006	7	6,530	54,292	102,648	163,471	70.1	90%
12/4/2006	1	7,003	58,891	113,166	179,061	67.1	51%
12/5/2006	2	6,046	47,418	91,426	144,890	58.1	81%
12/6/2006	3	7,255	59,763	112,261	179,280	60.9	69%
12/7/2006	4	7,292	58,785	116,581	182,658	73.9	21%
12/8/2006	5	5,283	41,052	87,087	133,422	58.1	57%
12/9/2006	6	4,268	29,507	56,457	90,232	38.3	22%
12/10/2006	7	4,157	32,305	59,962	96,424	33.9	27%
12/11/2006	1	3,946	34,013	68,721	106,680	37.7	75%
12/12/2006	2	3,991	36,713	71,596	112,300	35.4	100%
12/13/2006	3	4,016	33,836	66,853	104,705	38.7	57%
12/14/2006	4	3,896	30,707	61,111	95,714	31.3	71%
12/15/2006	5	4,454	35,514	73,275	113,243	41.1	98%
12/16/2006	6	4,110	29,814	57,510	91,434	32.8	91%
12/17/2006	7	4,829	40,445	72,095	117,369	42.9	86%
12/18/2006	1	5,549	42,586	81,829	129,964	49.1	35%
12/19/2006	2	4,397	35,654	70,547	110,598	42.1	21%
12/20/2006	3	4,349	36,275	67,274	107,899	36.6	87%
12/21/2006	4	4,472	36,553	67,680	108,705	40.4	99%
12/22/2006	5	4,164	33,878	64,923	102,966	39.8	100%
12/23/2006	6	4,699	35,177	66,985	106,861	42.9	68%
12/24/2006	7	4,536	33,500	60,156	98,192	41.0	47%
12/25/2006	1	5,029	37,042	71,736	113,807	47.4	44%
12/26/2006	2	4,645	36,181	69,070	109,896	45.6	53%
12/27/2006	3	4,244	33,441	67,868	105,553	36.8	95%
12/28/2006	4	4,585	33,892	62,202	100,679	35.0	82%
12/29/2006	5	4,143	32,717	60,546	97,406	36.5	100%
12/30/2006	6	3,902	28,897	52,189	84,988	34.3	100%
12/31/2006	7	4,606	35,479	64,511	104,596	37.2	100%
1/1/2007	1	5,493	38,491	65,331	109,315	49.7	45%
1/2/2007	2	4,787	36,901	63,959	105,647	47.7	50%
1/3/2007	3	4,746	34,795	55,912	95,453	39.4	87%
1/4/2007	4	4,085	32,559	52,926	89,570	33.4	92%
1/5/2007	5	4,189	34,135	61,812	100,136	39.3	92%
1/6/2007	6	4,722	33,020	55,283	93,025	41.4	59%
1/7/2007	7	5,394	41,799	67,998	115,191	47.4	83%
1/8/2007	1	5,739	42,431	70,062	118,232	46.6	49%
1/9/2007	2	6,589	49,782	85,870	142,241	59.0	34%
1/10/2007	3	5,477	39,896	69,737	115,110	51.9	73%
1/11/2007	4	6,001	46,309	84,597	136,907	44.5	88%
1/12/2007	5	8,151	61,404	110,952	180,507	68.3	65%
1/13/2007	6	7,319	54,153	96,361	157,833	66.4	70%
1/14/2007	7	7,523	52,818	94,656	154,997	59.2	97%
1/15/2007	1	7,821	60,529	123,223	191,573	73.6	78%

1/16/2007	2	7,758	61,706	121,005	190,469	81.1	26%
1/17/2007	3	6,698	51,174	94,377	152,249	70.0	33%
1/18/2007	4	6,483	49,858	89,118	145,459	56.5	94%
1/19/2007	5	7,058	52,907	92,137	152,102	66.5	30%
1/20/2007	6	6,224	46,881	80,964	134,069	67.8	48%
1/21/2007	7	5,875	44,058	77,014	126,947	52.0	88%
1/22/2007	1	6,306	49,285	86,411	142,002	57.7	88%
1/23/2007	2	6,222	48,093	81,966	136,281	58.4	81%
1/24/2007	3	6,391	46,068	80,676	133,135	56.0	75%
1/25/2007	4	6,149	46,486	79,472	132,107	59.1	76%
1/26/2007	5	4,849	37,428	66,026	108,303	47.3	45%
1/27/2007	6	7,470	58,281	98,223	163,974	69.1	48%
1/28/2007	7	7,363	57,291	98,482	163,136	80.0	51%
1/29/2007	1	7,172	57,960	104,234	169,366	67.1	91%
1/30/2007	2	7,785	60,519	109,263	177,567	77.4	48%
1/31/2007	3	7,187	58,880	109,354	175,421	71.5	87%
2/1/2007	4	7,989	64,330	109,105	181,424	76.7	61%
2/2/2007	5	8,662	66,593	113,264	188,519	86.6	46%
2/3/2007	6	9,882	74,614	123,982	208,478	94.7	33%
2/4/2007	7	9,882	76,000	137,194	223,076	96.0	32%
2/5/2007	1	9,349	72,042	132,063	213,454	89.3	34%
2/6/2007	2	8,740	69,630	123,037	201,407	82.4	77%
2/7/2007	3	8,528	70,942	123,251	202,721	88.1	25%
2/8/2007	4	8,274	69,377	117,729	195,380	89.1	30%
2/9/2007	5	8,684	67,520	115,928	192,132	83.6	54%
2/10/2007	6	7,463	58,855	100,659	166,977	85.2	45%
2/11/2007	7	6,871	53,273	86,550	146,694	58.2	95%
2/12/2007	1	6,991	55,268	95,255	157,514	60.3	89%
2/13/2007	2	7,538	59,546	109,300	176,384	68.1	66%
2/14/2007	3	7,982	63,604	116,230	187,816	78.7	23%
2/15/2007	4	7,933	64,010	112,735	184,678	81.9	25%
2/16/2007	5	6,397	52,488	95,274	154,159	73.7	74%
2/17/2007	6	6,374	47,738	83,148	137,260	62.8	38%
2/18/2007	7	6,475	49,816	83,177	139,468	62.6	94%
2/19/2007	1	5,260	38,246	65,948	109,454	45.7	80%
2/20/2007	2	4,561	34,046	60,515	99,122	42.8	40%
2/21/2007	3	4,654	36,787	63,254	104,695	36.8	60%
2/22/2007	4	5,499	40,266	70,785	116,550	50.2	35%
2/23/2007	5	5,796	44,664	76,084	126,544	49.2	98%
2/24/2007	6	5,571	44,074	72,680	122,325	51.1	100%
2/25/2007	7	5,255	39,827	68,358	113,440	41.4	100%
2/26/2007	1	5,104	38,168	70,184	113,456	40.3	99%
2/27/2007	2	4,736	38,196	71,060	113,992	42.1	95%
2/28/2007	3	4,918	37,676	66,844	109,438	46.5	86%
12/1/2007	6	6,179	48,431	75,116	129,726	56.6	95%
12/2/2007	7	6,346	53,232	90,920	150,498	59.4	88%
12/3/2007	1	6,707	52,814	94,114	153,635	64.5	43%
12/4/2007	2	6,315	52,657	87,941	146,913	59.7	88%
12/5/2007	3	7,262	57,115	100,343	164,720	69.2	33%
12/6/2007	4	6,509	52,314	90,576	149,399	68.6	86%

12/7/2007	5	7,531	58,073	95,508	161,112	67.3	21%
12/8/2007	6	7,449	57,804	96,636	161,889	75.2	59%
12/9/2007	7	7,611	58,221	90,903	156,735	63.2	86%
12/10/2007	1	6,364	51,524	85,870	143,758	61.9	50%
12/11/2007	2	6,616	53,625	93,970	154,211	56.7	87%
12/12/2007	3	6,297	52,024	90,794	149,115	65.7	25%
12/13/2007	4	6,734	55,303	91,705	153,742	58.7	45%
12/14/2007	5	7,554	59,887	101,159	168,600	66.5	28%
12/15/2007	6	6,251	50,870	86,051	143,172	53.1	54%
12/16/2007	7	6,023	49,910	84,668	140,601	62.1	100%
12/17/2007	1	5,535	47,228	80,300	133,063	57.9	46%
12/18/2007	2	5,319	46,759	75,204	127,282	52.7	42%
12/19/2007	3	5,250	48,054	75,241	128,545	52.8	98%
12/20/2007	4	4,571	39,523	64,887	108,981	46.5	69%
12/21/2007	5	4,169	34,631	56,961	95,761	38.1	100%
12/22/2007	6	5,892	49,948	84,566	140,406	55.4	99%
12/23/2007	7	6,373	55,737	98,441	160,551	76.5	99%
12/24/2007	1	5,851	45,524	76,208	127,583	63.0	56%
12/25/2007	2	5,183	39,252	63,371	107,806	48.2	78%
12/26/2007	3	5,227	43,410	70,664	119,301	48.0	89%
12/27/2007	4	5,860	44,204	76,174	126,238	49.2	98%
12/28/2007	5	5,839	46,725	81,957	134,521	56.1	96%
12/29/2007	6	5,653	44,202	77,157	127,012	52.7	98%
12/30/2007	7	5,550	45,830	76,580	127,960	56.0	95%
12/31/2007	1	6,359	51,822	88,464	146,645	58.4	93%
1/1/2008	2	7,820	63,433	108,603	179,856	77.1	56%
1/2/2008	3	7,959	62,417	110,199	180,575	77.5	15%
1/3/2008	4	6,403	50,699	91,578	148,680	67.1	37%
1/4/2008	5	5,551	43,378	70,892	119,821	53.1	34%
1/5/2008	6	4,751	36,808	56,903	98,462	43.6	72%
1/6/2008	7	4,553	34,539	54,011	93,103	34.2	94%
1/7/2008	1	4,645	38,949	60,377	103,971	34.0	90%
1/8/2008	2	5,277	45,070	72,576	122,923	44.9	75%
1/9/2008	3	5,701	44,801	69,094	119,596	49.5	66%
1/10/2008	4	4,948	40,861	69,330	115,139	40.3	86%
1/11/2008	5	5,272	44,778	73,487	123,537	49.4	94%
1/12/2008	6	5,465	42,892	73,626	121,983	50.6	94%
1/13/2008	7	6,178	50,096	84,333	140,607	56.2	65%
1/14/2008	1	7,097	62,757	108,259	178,113	70.3	42%
1/15/2008	2	6,295	53,448	88,339	148,082	69.1	12%
1/16/2008	3	6,915	56,088	90,384	153,387	59.1	75%
1/17/2008	4	7,724	64,603	106,958	179,285	74.6	72%
1/18/2008	5	8,541	71,626	118,783	198,950	83.6	46%
1/19/2008	6	8,690	72,223	119,450	200,363	91.6	3%
1/20/2008	7	8,490	66,651	108,482	183,623	85.2	23%
1/21/2008	1	8,237	66,705	110,027	184,969	71.4	88%
1/22/2008	2	8,197	66,281	107,529	182,007	82.4	26%
1/23/2008	3	8,714	73,341	119,279	201,334	85.5	28%
1/24/2008	4	8,096	68,161	113,671	189,928	87.2	2%
1/25/2008	5	7,022	56,021	93,796	156,839	69.8	57%

1/26/2008	6	6,889	49,203	83,931	140,023	59.2	54%
1/27/2008	7	6,133	40,152	65,099	111,384	50.5	27%
1/28/2008	1	5,669	40,675	65,847	112,191	37.1	71%
1/29/2008	2	8,978	81,306	130,507	220,791	71.3	84%
1/30/2008	3	8,882	74,002	117,634	200,518	92.4	23%
1/31/2008	4	7,871	61,993	102,112	171,976	72.1	39%
2/1/2008	5	6,331	46,997	76,309	129,637	57.4	68%
2/2/2008	6	5,827	46,202	74,412	126,441	49.0	89%
2/3/2008	7	5,940	46,898	75,298	128,136	53.3	85%
2/4/2008	1	5,656	43,709	70,359	119,724	44.9	99%
2/5/2008	2	6,076	45,310	76,612	127,998	45.5	96%
2/6/2008	3	6,426	53,119	89,545	149,090	57.4	71%
2/7/2008	4	6,389	51,211	86,773	144,373	62.7	86%
2/8/2008	5	5,744	44,829	76,592	127,165	51.6	100%
2/9/2008	6	7,928	66,558	109,899	184,385	73.6	87%
2/10/2008	7	8,580	73,475	125,161	207,216	97.9	44%
2/11/2008	1	7,639	65,651	113,215	186,505	79.0	94%
2/12/2008	2	6,821	58,316	103,452	168,589	67.2	80%
2/13/2008	3	6,816	52,392	90,549	149,757	67.0	88%
2/14/2008	4	7,533	61,876	102,497	171,906	67.7	72%
2/15/2008	5	7,545	61,155	100,553	169,253	76.6	37%
2/16/2008	6	5,501	43,777	72,747	122,025	60.0	25%
2/17/2008	7	5,966	50,329	84,153	140,448	51.3	97%
2/18/2008	1	7,633	69,091	115,361	192,085	78.4	73%
2/19/2008	2	7,777	68,613	115,747	192,137	80.6	44%
2/20/2008	3	7,709	68,122	116,649	192,480	83.9	7%
2/21/2008	4	6,838	58,939	106,889	172,666	72.8	39%
2/22/2008	5	6,478	49,851	90,505	146,834	59.2	34%
2/23/2008	6	5,627	42,567	77,975	126,169	57.3	10%
2/24/2008	7	5,348	36,592	64,172	106,112	49.7	43%
2/25/2008	1	5,606	45,037	76,691	127,334	42.4	92%
2/26/2008	2	6,222	51,401	86,722	144,345	58.9	48%
2/27/2008	3	6,274	48,948	87,464	142,686	60.2	37%
2/28/2008	4	5,636	46,764	78,872	131,272	60.1	74%
2/29/2008	5	6,374	47,257	74,219	127,850	55.5	51%
12/1/2008	1	7,965	49,283	91,145	148,393	62.3	29%
12/2/2008	2	7,152	39,709	74,165	121,026	48.5	62%
12/3/2008	3	8,321	49,099	91,636	149,056	64.7	25%
12/4/2008	4	9,172	56,118	101,096	166,386	68.2	65%
12/5/2008	5	8,193	47,748	86,407	142,348	59.6	81%
12/6/2008	6	9,155	53,830	102,793	165,778	72.1	42%
12/7/2008	7	9,030	54,803	103,199	167,032	67.2	78%
12/8/2008	1	8,089	50,753	91,897	150,739	57.8	86%
12/9/2008	2	8,748	55,178	104,634	168,560	68.0	31%
12/10/2008	3	8,597	51,714	92,500	152,811	65.3	37%
12/11/2008	4	9,548	55,990	92,520	158,058	70.6	67%
12/12/2008	5	9,104	51,116	87,512	147,732	62.7	90%
12/13/2008	6	6,249	33,551	54,749	94,549	39.1	59%
12/14/2008	7	9,071	58,464	106,682	174,217	66.7	93%
12/15/2008	1	12,054	75,644	132,996	220,694	88.7	14%

12/16/2008	2	10,913	68,906	122,459	202,278	78.7	89%
12/17/2008	3	10,189	63,572	110,834	184,595	76.6	6%
12/18/2008	4	9,196	55,655	98,466	163,317	66.3	70%
12/19/2008	5	7,747	48,330	82,450	138,527	55.6	69%
12/20/2008	6	9,240	63,556	107,625	180,421	79.3	67%
12/21/2008	7	10,853	70,495	128,488	209,836	91.1	17%
12/22/2008	1	10,464	66,290	117,464	194,218	81.3	58%
12/23/2008	2	8,683	53,098	92,164	153,945	59.2	57%
12/24/2008	3	9,484	59,664	104,551	173,699	79.0	26%
12/25/2008	4	7,795	46,460	85,269	139,524	62.4	68%
12/26/2008	5	5,851	35,092	60,180	101,123	40.0	90%
12/27/2008	6	7,130	48,267	80,414	135,811	62.1	63%
12/28/2008	7	7,309	42,184	71,425	120,918	54.4	19%
12/29/2008	1	7,862	47,121	78,883	133,866	52.2	48%
12/30/2008	2	9,807	60,975	101,576	172,358	76.5	46%
12/31/2008	3	9,481	57,645	98,764	165,890	75.3	44%
1/1/2009	4	6,016	50,902	85,501	142,419	65.2	29%
1/2/2009	5	6,170	53,424	93,020	152,614	68.1	42%
1/3/2009	6	5,323	49,997	85,281	140,601	66.4	83%
1/4/2009	7	7,142	64,083	103,882	175,107	79.0	3%
1/5/2009	1	6,764	52,204	92,365	151,333	61.3	18%
1/6/2009	2	5,873	52,079	85,956	143,908	59.8	49%
1/7/2009	3	6,266	62,600	109,415	178,281	78.0	42%
1/8/2009	4	6,584	58,068	95,448	160,100	70.2	52%
1/9/2009	5	6,445	55,294	92,361	154,100	67.5	63%
1/10/2009	6	6,439	51,787	87,338	145,564	64.0	50%
1/11/2009	7	6,110	55,771	91,825	153,706	66.5	52%
1/12/2009	1	7,371	67,552	108,077	183,000	84.8	53%
1/13/2009	2	8,058	72,440	119,786	200,284	92.4	65%
1/14/2009	3	8,528	78,886	131,100	218,514	100.0	4%
1/15/2009	4	8,587	81,553	134,721	224,861	97.5	0%
1/16/2009	5	7,389	65,149	111,220	183,758	83.3	80%
1/17/2009	6	6,445	52,824	89,417	148,686	63.5	82%
1/18/2009	7	5,958	51,253	86,039	143,250	60.7	58%
1/19/2009	1	5,851	54,054	91,797	151,702	63.7	64%
1/20/2009	2	5,594	50,680	87,025	143,299	62.3	37%
1/21/2009	3	5,226	48,817	84,360	138,403	56.4	29%
1/22/2009	4	5,349	48,973	79,390	133,712	56.7	43%
1/23/2009	5	6,975	64,678	110,469	182,122	81.4	27%
1/24/2009	6	7,704	68,019	111,069	186,792	87.9	18%
1/25/2009	7	7,824	66,772	105,009	179,605	76.8	17%
1/26/2009	1	8,023	70,520	111,032	189,575	75.4	42%
1/27/2009	2	7,496	66,047	107,512	181,055	73.3	12%
1/28/2009	3	6,386	56,545	94,894	157,825	67.9	67%
1/29/2009	4	6,685	60,538	99,842	167,065	77.9	29%
1/30/2009	5	6,112	49,784	86,125	142,021	65.8	53%
1/31/2009	6	4,349	35,456	60,430	100,235	43.2	10%
2/1/2009	7	4,973	44,132	72,319	121,424	58.2	16%
2/2/2009	1	7,101	65,661	107,656	180,418	81.7	32%
2/3/2009	2	7,316	66,475	111,862	185,653	78.5	2%

2/4/2009	3	6,759	59,275	100,252	166,286	73.5	20%
2/5/2009	4	5,446	44,568	78,406	128,420	51.4	10%
2/6/2009	5	4,231	35,112	59,016	98,359	44.6	26%
2/7/2009	6	4,690	39,702	62,696	107,088	49.5	28%
2/8/2009	7	4,323	36,049	60,082	100,454	46.9	41%
2/9/2009	1	3,763	34,886	57,371	96,020	34.6	71%
2/10/2009	2	3,948	36,282	56,222	96,452	36.3	71%
2/11/2009	3	4,118	40,068	67,572	111,758	44.0	98%
2/12/2009	4	4,892	45,411	71,325	121,628	50.8	58%
2/13/2009	5	5,113	47,458	79,618	132,189	58.3	69%
2/14/2009	6	5,972	48,493	79,697	134,162	60.4	9%
2/15/2009	7	5,496	46,161	79,766	131,423	55.5	31%
2/16/2009	1	4,631	40,355	74,763	119,749	47.4	59%
2/17/2009	2	4,383	36,346	61,823	102,552	39.5	82%
2/18/2009	3	6,207	54,383	94,701	155,291	68.1	37%
2/19/2009	4	6,316	54,169	94,231	154,716	67.0	8%
2/20/2009	5	5,377	44,956	75,362	125,695	56.4	73%
2/21/2009	6	5,718	51,291	88,789	145,798	72.1	51%
2/22/2009	7	6,093	53,969	95,562	155,624	68.1	14%
2/23/2009	1	5,580	50,266	84,375	140,221	65.9	26%
2/24/2009	2	4,061	34,616	59,244	97,921	43.8	40%
2/25/2009	3	4,875	38,146	61,243	104,264	43.1	27%
2/26/2009	4	6,394	52,901	86,662	145,957	61.8	84%
2/27/2009	5	6,862	54,593	93,143	154,598	69.1	28%
2/28/2009	6	6,328	52,661	91,161	150,150	71.6	0%

SUMMARY OUTPUT

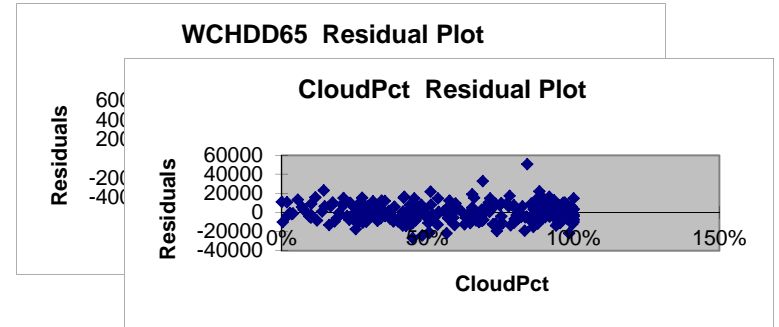
Regression Statistics	
Multiple R	0.952198352
R Square	0.906681702
Adjusted R Square	0.905985297
Standard Error	9789.845502
Observations	271

ANOVA					
	df	SS	MS	F	Significance F
Regression	2	2.4956E+11	1.25E+11	1301.946	9.5E-139
Residual	268	25685408088	95841075		
Total	270	2.75245E+11			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	11606.9938	3608.047602	3.216974	0.001455	4503.271	18710.72	4503.271	18710.72
WCHDD65	2074.612827	43.90824561	47.24882	5.6E-132	1988.164	2161.062	1988.164	2161.062
CloudPct	12378.08279	2392.604949	5.173475	4.51E-07	7667.39	17088.78	7667.39	17088.78

RESIDUAL OUTPUT

Observation	dicted Daily M	Residuals
1	139580.1202	5983.359773
2	150794.1972	8049.442827
3	168249.7114	-4778.581412
4	157224.4195	21836.12054
5	142063.4954	2826.564576
6	146527.26	32752.79
7	167531.0952	15126.4648
8	139123.5751	-5701.345059
9	93788.81954	-3556.769536
10	85199.66258	11224.37742
11	99091.17925	7588.650746
12	97387.72747	14912.39253
13	99055.84632	5649.583679
14	85388.72339	10325.46661
15	109146.068	4096.712005
16	90907.41522	526.8947759
17	111246.7873	6122.392724
18	117798.3104	12165.36958
19	101472.4905	9125.559463
20	98249.30327	9649.686726
21	107719.9834	985.0065822
22	106641.3397	-3675.809701



23	108928.1665	-2067.656541
24	102484.776	-4292.715997
25	115440.1244	-1633.0344
26	112802.4147	-2906.704722
27	99699.0347	5853.845302
28	94361.88571	6317.454293
29	99624.76575	-2218.855749
30	95044.87129	-10056.79129
31	101211.0316	3385.2484
32	120226.1932	-10911.19323
33	116756.2408	-11109.24075
34	104185.1412	-8732.141204
35	92249.72625	-2679.726253
36	104445.5923	-4309.592293
37	104679.8043	-11654.80427
38	120335.7072	-5144.70718
39	114341.2518	3890.748198
40	138295.8446	3945.155381
41	128350.3528	-13240.35275
42	114826.3201	22080.67988
43	161444.2418	19062.75819
44	157972.0766	-139.0765661
45	146392.5252	8604.474776
46	173997.1867	17575.81328
47	183021.5581	7447.441866
48	160837.0555	-8588.055535
49	140398.1287	5060.871314
50	153366.1443	-1264.144347
51	158188.8305	-24119.8305
52	130361.3451	-3414.345144
53	142260.7261	-258.7260949
54	142871.6254	-6590.625441
55	137190.5463	-4055.546319
56	143581.5175	-11474.5175
57	115208.6226	-6905.622581
58	160854.571	3119.428965
59	183836.9387	-20700.93872
60	162027.8426	7338.157407
61	178033.3903	-466.3903321
62	170679.4252	4741.574841
63	178198.0202	3225.979834
64	196910.0222	-8391.02217
65	212018.3673	-3540.367344
66	214675.0453	8400.954705
67	201183.4402	12270.55982
68	192070.1526	9336.847413
69	197381.0322	5339.967811
70	200061.463	-4681.462951
71	191610.9578	521.0421992
72	193836.8643	-26859.86432

73	144143.6035	2550.396476
74	147692.7377	9821.262314
75	161064.1998	15319.80019
76	177731.3535	10084.64655
77	184655.7353	22.26474374
78	173596.0098	-19437.00983
79	146598.6371	-9338.637078
80	153164.857	-13696.857
81	116243.0993	-6789.099331
82	105387.5902	-6265.590218
83	95240.13089	9454.869106
84	120191.1379	-3641.13793
85	125714.9135	829.0864929
86	129932.8986	-7607.898568
87	109971.8094	3468.190597
88	107567.2798	5888.720198
89	110657.7174	3334.282618
90	118633.4509	-9195.450887
91	140935.7969	-11209.7969
92	145670.7399	4827.260067
93	150838.0761	2796.923906
94	146389.677	523.3230134
95	159114.8957	5605.10434
96	164628.1545	-15229.15449
97	153789.2077	7322.792349
98	174872.5323	-12983.53229
99	153330.793	3404.206955
100	146267.1324	-2509.132357
101	139996.5387	14214.46132
102	150975.6157	-1860.615734
103	139096.0072	14645.99277
104	153014.3149	15585.6851
105	128330.4528	14841.54722
106	152706.9705	-12105.97052
107	137538.9241	-4475.92411
108	126112.3646	1169.635384
109	133209.1746	-4664.174558
110	116685.0696	-7704.069554
111	103038.4127	-7277.412681
112	138742.0304	1663.969576
113	182449.5717	-21898.57175
114	149393.049	-21810.049
115	121225.2276	-13419.22763
116	122282.2798	-2981.279844
117	125738.215	499.7849741
118	139821.0538	-5300.053815
119	133109.8035	-6097.803523
120	139573.067	-11613.06702
121	144284.4644	2360.53562
122	178526.2665	1329.733532

123	174235.6521	6339.347934
124	155376.5529	-6696.552928
125	125892.1097	-6071.109653
126	111025.7477	-12563.74773
127	94139.13795	-1036.137947
128	93346.73246	10624.26754
129	114103.6331	8819.366939
130	122496.7585	-2900.75846
131	105878.8224	9260.177642
132	125592.9165	-2055.916512
133	128169.0364	-6186.036412
134	136239.9435	4367.056481
135	162618.4524	15494.54759
136	156493.3269	-8411.326909
137	143528.9255	9858.074476
138	175353.2779	3931.722137
139	190653.3192	8296.680826
140	201977.066	-1614.065951
141	191198.8145	-7575.814507
142	170714.9289	14254.0711
143	185643.2494	-3636.24937
144	192417.0728	8916.927163
145	192791.8034	-2863.803395
146	163550.7041	-6711.704069
147	141027.9147	-1004.914735
148	119754.6506	-8370.650564
149	97415.55854	14775.44146
150	169968.2113	50822.78869
151	206093.1328	-5575.132754
152	165902.7821	6073.217862
153	139150.7724	-9513.772365
154	124329.4872	2111.512827
155	132677.8997	-4541.899702
156	117086.3375	2637.662538
157	117846.9251	10151.07489
158	139484.8299	9605.170146
159	152434.3829	-8061.382893
160	131041.6546	-3876.654602
161	175067.3842	9317.615837
162	220229.4204	-13013.42038
163	187251.0462	-746.0462048
164	160815.3782	7773.621833
165	161523.5273	-11766.5273
166	161038.7679	10867.23205
167	175231.457	-5978.457039
168	139304.9422	-17279.94224
169	130100.7025	10347.29746
170	183288.4404	8796.559645
171	184175.2514	7961.748562
172	186624.7156	5855.284436

173	167426.8487	5239.151278
174	138552.3182	8281.681837
175	131636.6291	-5467.629116
176	120057.2015	-13945.20153
177	110877.2365	16456.76355
178	139799.8682	4545.13182
179	141115.347	1570.652995
180	145585.7859	-14313.78589
181	133186.0919	-5336.091911
182	144465.0744	3927.92563
183	119928.2636	1097.7364
184	148996.5825	59.41753016
185	161262.5248	5123.475207
186	145120.9871	-2772.987119
187	166375.0157	-597.0156648
188	160657.2763	6374.723703
189	142097.5524	8641.447596
190	156647.2186	11912.78137
191	151597.7239	1213.276079
192	166396.333	-8338.333043
193	152897.8804	-5165.880356
194	99990.54846	-5441.548462
195	161468.8697	12748.13029
196	197382.0226	23311.97737
197	185868.6714	16409.32859
198	171305.4004	13289.59957
199	157746.7231	5570.276925
200	135539.8874	2987.112584
201	184553.8775	-4132.877486
202	202761.6868	7074.313221
203	187340.7347	6877.265309
204	141559.618	12385.38196
205	178786.1661	-5087.166078
206	149430.8135	-9906.813459
207	105746.7142	-4623.714216
208	148191.2927	-12380.2927
209	126843.7755	-5925.775484
210	125820.7106	8045.289393
211	176031.1499	-3673.149873
212	173338.0861	-7448.086084
213	150458.6391	-8039.639114
214	158059.8387	-5445.838717
215	159569.7087	-18968.70872
216	175928.414	-821.41397
217	140911.8514	10421.14856
218	141723.2093	2184.790713
219	178602.9802	-321.9801747
220	163731.9347	-3631.934672
221	159377.6504	-5277.650361
222	150539.6527	-4975.652687

223	155958.3429	-2252.342881
224	194071.7355	-11071.73548
225	211224.4429	-10940.44291
226	219457.0557	-943.0557157
227	213821.7625	11039.23754
228	194343.0929	-10585.09288
229	153428.3639	-4742.363878
230	144678.4287	-1428.428703
231	151815.4611	-113.4611285
232	145426.147	-2127.14702
233	132321.8142	6081.185845
234	134531.5203	-819.5202876
235	183843.5479	-1721.547914
236	196186.4391	-9394.439132
237	172904.1234	6700.876627
238	173255.8691	16319.13093
239	165110.8244	15944.17558
240	160787.5282	-2962.528218
241	176778.0285	-9713.028458
242	154763.5258	-12742.52583
243	102510.1199	-2275.119941
244	134337.92	-12913.92002
245	185051.3476	-4633.347603
246	174763.5123	10889.48767
247	166586.2763	-300.2763203
248	119481.5765	8938.42348
249	107374.9098	-9015.909815
250	117837.4933	-10749.49332
251	114046.6725	-13592.67246
252	92065.94499	3954.05501
253	95732.65857	719.3414316
254	115045.6235	-3287.623513
255	124276.8807	-2648.880668
256	141043.9082	-8854.908152
257	138188.5391	-4026.539095
258	130629.8841	793.1158561
259	117111.5335	2637.466494
260	103596.0577	-1044.057715
261	157408.4597	-2117.459702
262	151546.2483	3169.751655
263	137586.3926	-11891.39262
264	167394.3381	-21596.33806
265	154616.2652	1007.734753
266	151598.1851	-11377.18514
267	107433.0915	-9512.091519
268	104476.8277	-212.8277055
269	150309.8603	-4352.860334
270	158529.2755	-3931.275482
271	160166.4391	-10016.43911
269	144985.9592	-2299.959174

270	147124.5378	-15852.53782
271	129644.7578	-1794.757772
<hr/>		
270	146387.873	-15115.87295
271	128870.7699	-1020.769894
<hr/>		