

Missouri Gas Energy

Case No. GR-2004-0209

Testimonies Submitted by James A. Gray

<u>COMPANY</u>	<u>CASE NO.</u>
Missouri Public Service Company	GR-81-312
Missouri Public Service Company	ER-82-39
Missouri Public Service Company	GR-82-194
Laclede Gas Company	GR-82-200
St. Louis County Water Company	WR-82-249
Missouri Public Service Company	ER-83-40
Kansas City Power & Light Company	ER-83-49
Osage Natural Gas Company	GR-83-156
Missouri Public Service Company	GR-83-186
The Gas Service Company	GR-83-225
Laclede Gas Company	GR-83-233
Missouri Water Company	WR-83-352
Missouri Cities Water Company	WR-84-51
Le-Ru Telephone Company	TR-84-132
Union Electric Company	ER-84-168
Union Electric Company	EO-85-17
Kansas City Power & Light Company	ER-85-128
Great River Gas Company	GR-85-136

Missouri Cities Water Company	WR-85-157	
Missouri Cities Water Company	SR-85-158	
United Telephone Company of Missouri	TR-85-179	
Osage Natural Gas Company	GR-85-183	
Kansas City Power & Light Company	EO-85-185	
ALLTEL Missouri, Inc.	TR-86-14	
Sho-Me Power Corporation	ER-86-27	
Missouri-American Water Company, Inc.	WR-89-265	**
The Empire District Electric Company	ER-90-138	**
Associated Natural Gas Company	GR-90-152	
Missouri-American Water Company, Inc.	WR-91-211	**
United Cities Gas Company	GR-91-249	**
Laclede Gas Company	GR-92-165	**
St. Joseph Light & Power Company	GR-93-42	**
United Cities Gas Company	GR-93-47	**
Missouri Public Service Company	GR-93-172	**
Western Resources, Inc.	GR-93-240	**
Laclede Gas Company	GR-94-220	**
United Cities Gas Company	GR-95-160	**
The Empire District Electric Company	ER-95-279	**
Laclede Gas Company	GR-96-193	**
Missouri Gas Energy	GR-96-285	**
Associated Natural Gas Company	GR-97-272	**

**Concerns Weather-Normalized Sales

Schedule 1-2

Union Electric Company	GR-97-393	**
Missouri Gas Energy	GR-98-140	**
Laclede Gas Company	GR-98-374	**
St. Joseph Light & Power Company	GR-99-42	**
AmerenUE	GA-99-107	
Laclede Gas Company	GA-99-236	
Laclede Gas Company	GR-99-315	**
AmerenUE	GR-2000-512	**
Missouri Gas Energy	GR-2001-292	**
Gateway Pipeline Company, Inc., et al.	GM-2001-585	
Missouri Gas Energy, et al	GC-2001-593	
Laclede Gas Company	GR-2002-356	**
Laclede Gas Company	GA-2002-429	
Southern Missouri Gas Company, L.P.	GT-2003-0031	
Laclede Gas Company	GT-2003-0032	
Missouri Gas Energy	GT-2003-0033	
AmerenUE	GT-2003-0034	
Fidelity Natural Gas, Inc.	GT-2003-0036	
Atmos Energy Corporation	GT-2003-0037	
Aquila Networks- L&P	GT-2003-0038	
Aquila Networks- MPS	GT-2003-0039	
AmerenUE	GR-2003-0517	**
Aquila Networks – MPS and L&P	GR-2004-0072	**

Missouri Gas Energy
Case No. GR-2004-0209

Scheduled Meter Read Dates by Billing Cycle

Applicable to All Firm Customer Classes

<i>January 2003</i>						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 Holiday	2 Cycle 6 Read January Billing Month	3 Cycle 7 Read	4
5	6 Cycle 8 Read	7 Cycle 9 Read	8 Cycle 10 Read	9 Cycle 11 Read	10 Cycle 12 Read	11
12	13 Cycle 13 Read	14 Cycle 14 Read	15 Cycle 15 Read	16 Cycle 16 Read	17 Cycle 17 Read	18
19	20 Cycle 18 Read	21 Cycle 19 Read	22 Cycle 20 Read	23 Cycle 21 Read January Billing Month Ends	24 Cycle 1 Read February Billing Month Starts	25
26	27 Cycle 2 Read	28 Cycle 3 Read	29 Cycle 4 Read	30 Cycle 5 Read	31 Cycle 6 Read	

<i>February 2003</i>						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3 Cycle 7 Read	4 Cycle 8 Read	5 Cycle 9 Read	6 Cycle 10 Read	7 Cycle 11 Read	8
9	10 Cycle 12 Read	11 Cycle 13 Read	12 Cycle 14 Read	13 Cycle 15 Read	14 Cycle 16 Read	15
16	17 Cycle 17 Read	18 Cycle 18 Read	19 Cycle 19 Read	20 Cycle 20 Read	21 Cycle 21 Read February Billing Month Ends	22
23	24 Cycle 1 Read March Billing Month Starts	25 Cycle 2 Read	26 Cycle 3 Read	27 Cycle 4 Read	28 Cycle 5 Read	

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Total Customers, Usage in Ccf, and Heating Degree Days (HDD) by Billing Cycle

Joplin Geographic Region - Small General Service Customers

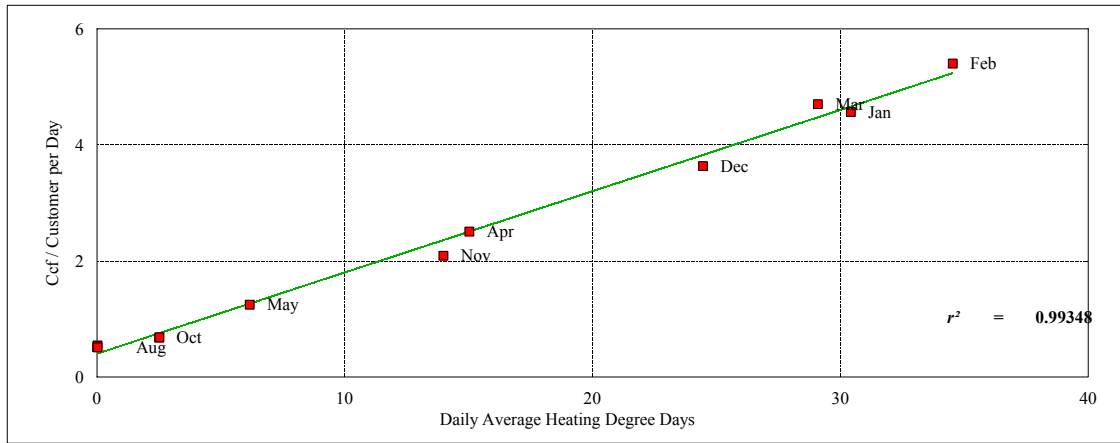
January 2003						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 Holiday	2 Cycle 6 Cust = 740 Ccf = 318935 HDD= 930	3 Cycle 7 Cust = 632 Ccf = 257860 HDD= 935	4
5	6 Cycle 8 Cust = 677 Ccf = 355929 HDD= 981	7 Cycle 9 Cust = 629 Ccf = 280107 HDD= 965	8 Cycle 10 Cust = 657 Ccf = 208912 HDD= 927.5	9 Cycle 11 Cust = 356 Ccf = 120643 HDD= 857	10 Cycle 12 Cust = 431 Ccf = 138612 HDD= 864	11
12	13 Cycle 13 Cust = 539 Ccf = 176361 HDD= 945.5	14 Cycle 14 Cust = 426 Ccf = 163758 HDD= 955.5	15 Cycle 15 Cust = 659 Ccf = 219195 HDD= 965	16 Cycle 16 Cust = 479 Ccf = 179245 HDD= 984	17 Cycle 17 Cust = 530 Ccf = 260770 HDD= 1013.5	18
19	20 Cycle 18 Cust = 769 Ccf = 360274 HDD= 1112	21 Cycle 19 Cust = 753 Ccf = 223058 HDD= 1134.5	22 Cycle 20 Cust = 898 Ccf = 356852 HDD= 1161.5	23 Cycle 21 Cust = 536 Ccf = 206095 HDD= 1195	24 Cycle 1 Cust = 463 Ccf = 202401 HDD= 1156.5	25
26	27 Cycle 2 Cust = 727 Ccf = 422872 HDD= 1134	28 Cycle 3 Cust = 465 Ccf = 184406 HDD= 1118.5	29 Cycle 4 Cust = 392 Ccf = 164793 HDD= 1094.5	30 Cycle 5 Cust = 286 Ccf = 119677 HDD= 1097	31 Cycle 6 Cust = 759 Ccf = 385072 HDD= 1051	

February 2003						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3 Cycle 7 Cust = 650 Ccf = 320152 HDD= 1057	4 Cycle 8 Cust = 692 Ccf = 388953 HDD= 1006.5	5 Cycle 9 Cust = 630 Ccf = 298078 HDD= 1011.5	6 Cycle 10 Cust = 655 Ccf = 246037 HDD= 1041	7 Cycle 11 Cust = 354 Ccf = 153432 HDD= 1067.5	8
9	10 Cycle 12 Cust = 424 Ccf = 194590 HDD= 1133.5	11 Cycle 13 Cust = 547 Ccf = 172993 HDD= 1043.5	12 Cycle 14 Cust = 433 Ccf = 195941 HDD= 1036	13 Cycle 15 Cust = 666 Ccf = 248632 HDD= 1020.5	14 Cycle 16 Cust = 480 Ccf = 196057 HDD= 987	15
16	17 Cycle 17 Cust = 536 Ccf = 293821 HDD= 1029	18 Cycle 18 Cust = 763 Ccf = 339608 HDD= 950.5	19 Cycle 19 Cust = 752 Ccf = 215903 HDD= 939	20 Cycle 20 Cust = 907 Ccf = 310920 HDD= 917	21 Cycle 21 Cust = 534 Ccf = 170417 HDD= 878.5	22
23	24 Cycle 1 Cust = 465 Ccf = 183584 HDD= 945.5	25 Cycle 2 Cust = 743 Ccf = 350191 HDD= 881	26 Cycle 3 Cust = 462 Ccf = 150013 HDD= 901	27 Cycle 4 Cust = 387 Ccf = 140816 HDD= 902.5	28 Cycle 5 Cust = 289 Ccf = 100804 HDD= 905	

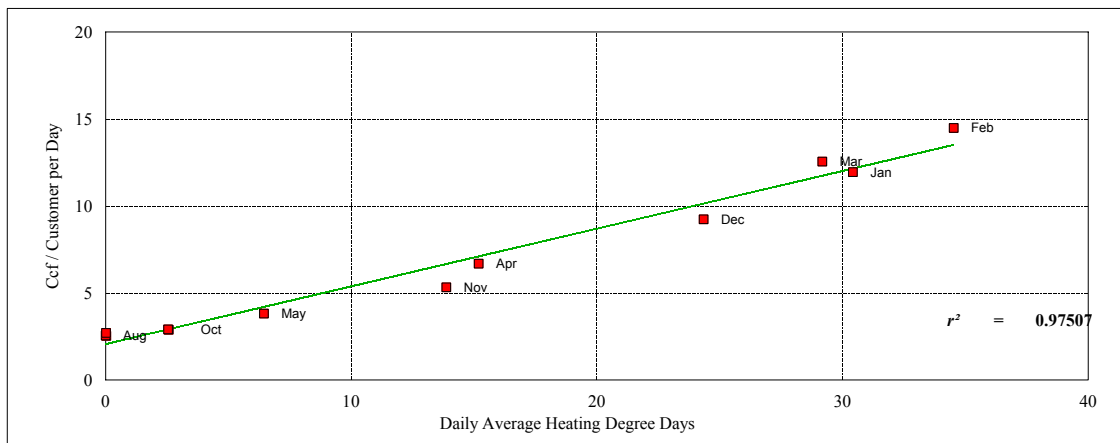
Plots of Billing Month Actual & Estimated Usage vs. Heating Degree Days

Joplin Geographic Region

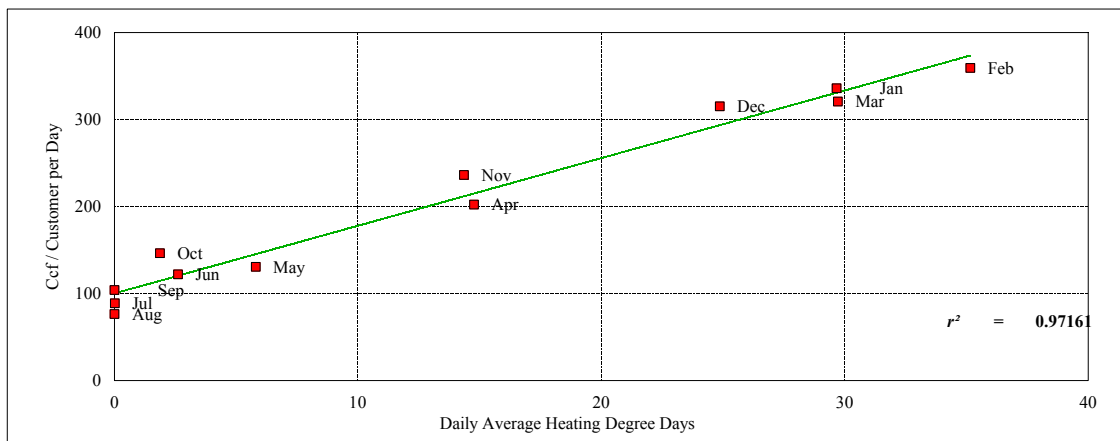
Residential Gas Service



Small General Gas Service



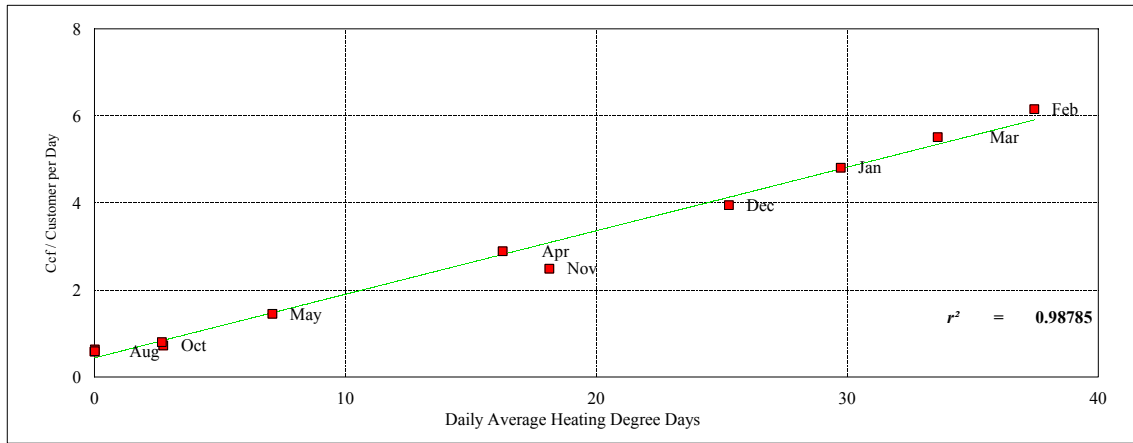
Large General Gas Service



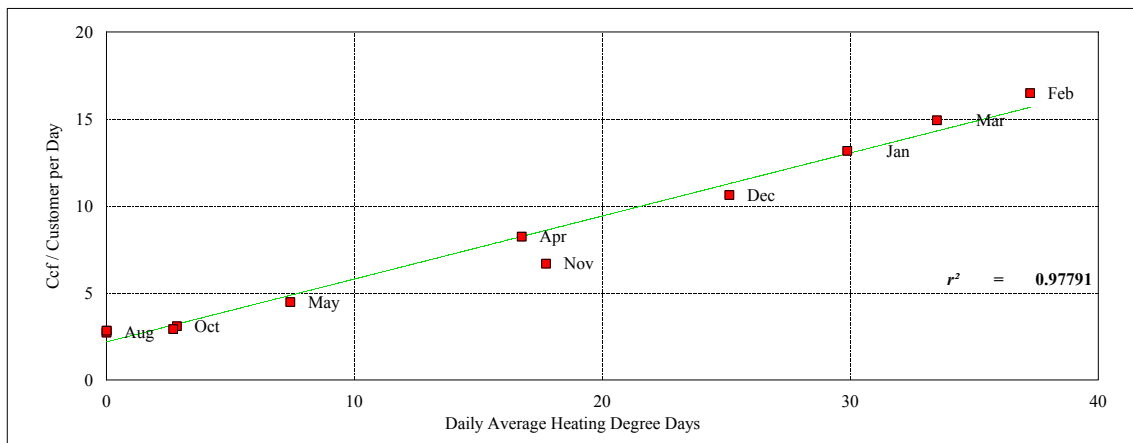
Plots of Billing Month Actual & Estimated Usage vs. Heating Degree Days

Kansas City Geographic Region

Residential Gas Service



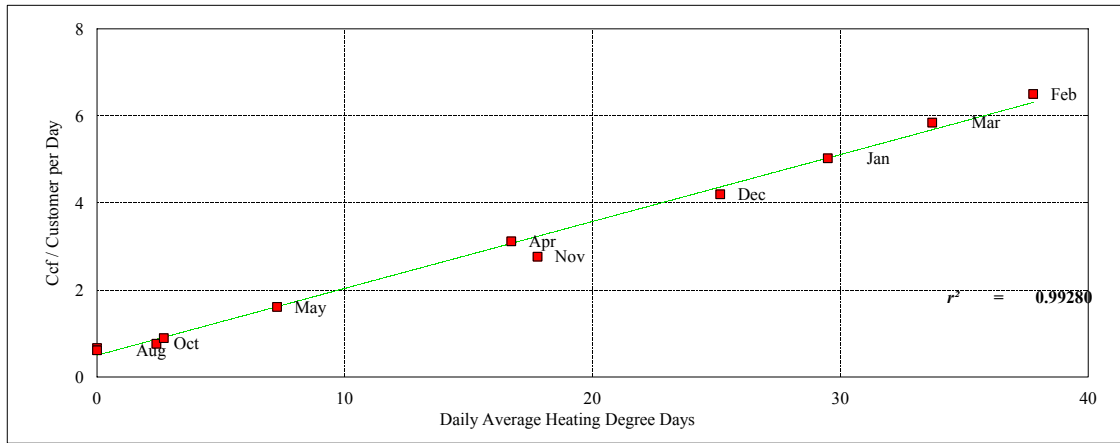
Small General Gas Service



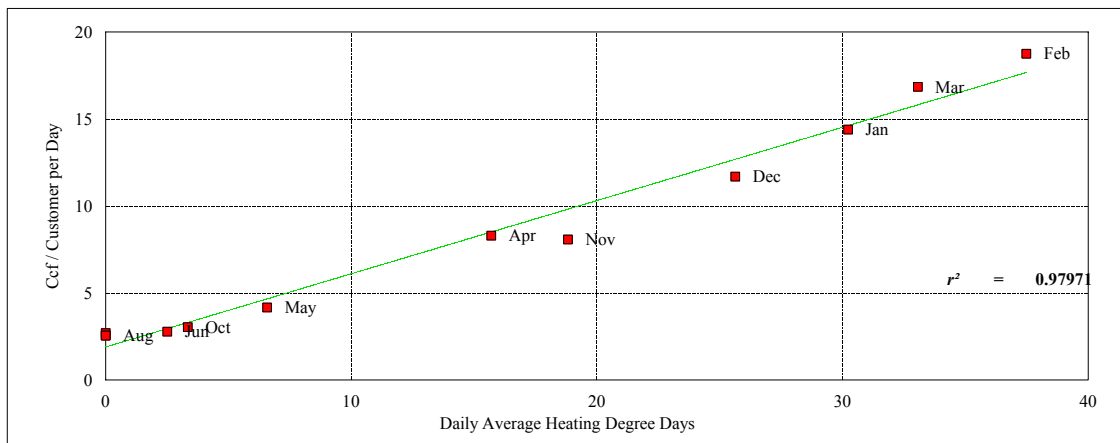
Plots of Billing Month Actual & Estimated Usage vs. Heating Degree Days

St. Joseph Geographic Region

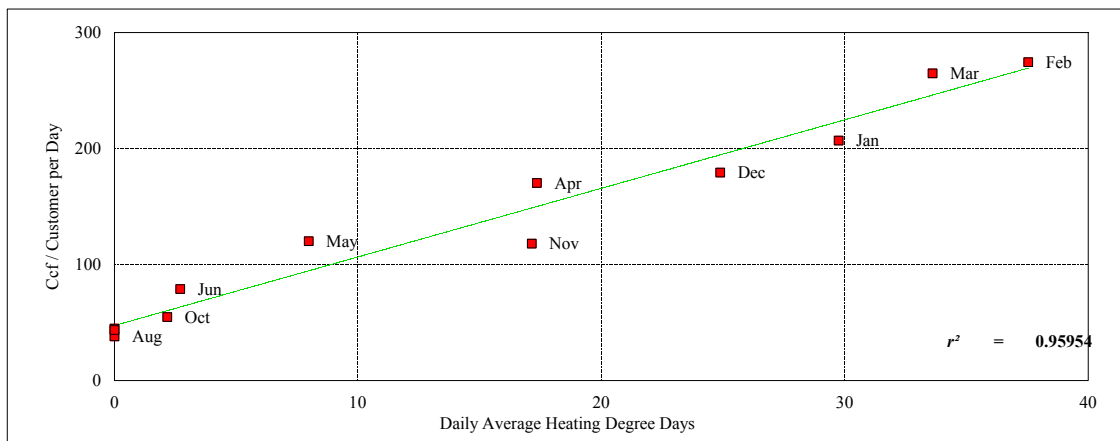
Residential Gas Service



Small General Gas Service



Large General Gas Service



Missouri Gas Energy
Case No. GR-2004-0209

Weather Normalized Billing Month Usage in Ccf per Customer
For the Test Year of July 1, 2002 - June 30, 2003

Joplin Geographic Region

	Residential Gas Service Customers	Small General Gas Service Customers	Large General Gas Service Customers
Jul	17.4009	79.9404	2,800.2482
Aug	15.3859	76.7401	2,299.3094
Sep	16.5382	84.3839	3,202.5513
Oct	24.6503	96.2398	4,645.5013
Nov	46.8319	122.1426	5,934.0042
Dec	101.3265	260.5051	9,427.2020
Jan	154.9175	402.9754	11,547.9240
Feb	150.1107	407.5096	9,866.3253
Mar	119.8956	325.3210	8,194.9184
Apr	78.7473	207.3082	6,247.7806
May	44.5706	131.9337	4,522.4891
Jun	18.8651	85.3559	3,583.9671
Annual	813.2391	2,465.8302	72,710.9643

Kansas City Geographic Region

	Residential Gas Service Customers	Small General Gas Service Customers	Large General Gas Service Customers
Jul	20.3022	89.5595	N / A
Aug	17.5274	81.2545	
Sep	19.4501	89.9322	
Oct	27.4713	105.7310	N / A
Nov	46.7655	133.6632	
Dec	121.4276	322.5527	
Jan	187.4999	503.5604	N / A
Feb	181.2495	491.4950	
Mar	140.3602	389.7295	
Apr	95.0718	264.2571	N / A
May	52.6488	155.8268	
Jun	22.8925	87.9965	
Annual	944.7327	2,906.5212	

St. Joseph Geographic Region

	Residential Gas Service Customers	Small General Gas Service Customers	Large General Gas Service Customers
Jul	21.1811	84.5827	1,415.5736
Aug	18.7946	77.8493	1,154.3836
Sep	19.7011	81.7417	1,323.0194
Oct	29.8037	105.6553	1,953.6714
Nov	52.3035	157.8982	2,404.1261
Dec	130.6940	369.8094	5,582.4515
Jan	194.6115	554.8313	7,759.0163
Feb	191.9536	548.2840	8,103.0199
Mar	149.3972	429.7234	7,136.0546
Apr	101.6314	275.0430	5,320.6263
May	58.4433	152.8249	4,010.3530
Jun	25.9568	80.1121	2,424.8764
Annual	1,010.3351	3,126.3163	49,298.8842

Weather Normalized Billing Month Usage in Ccf
For the Test Year of July 1, 2002 - June 30, 2003

Joplin Geographic Region

	Residential Gas Service Customers	Small General Gas Service Customers	Large General Gas Service Customers
Jul	1,013,830	677,015	151,213
Aug	886,815	631,878	119,564
Sep	954,433	690,851	147,317
Oct	1,488,533	870,874	209,048
Nov	2,992,746	1,356,638	296,700
Dec	6,554,713	3,055,465	471,360
Jan	10,057,863	4,849,003	577,396
Feb	9,777,009	4,936,979	473,584
Mar	7,800,287	3,952,000	393,356
Apr	5,074,397	2,450,176	293,646
May	2,832,197	1,447,312	198,990
Jun	1,143,263	789,115	139,775
Total	50,576,087	25,707,307	3,471,949

Kansas City Geographic Region

	Residential Gas Service Customers	Small General Gas Service Customers	Large General Gas Service Customers
Jul	6,691,902	3,079,235	N / A
Aug	5,735,061	2,748,189	
Sep	6,355,900	3,038,629	
Oct	9,081,833	3,801,982	N / A
Nov	15,789,237	5,654,220	
Dec	41,424,411	14,359,724	
Jan	64,328,976	23,012,712	N / A
Feb	62,437,930	22,752,287	
Mar	48,407,990	18,056,168	
Apr	32,656,412	11,962,653	N / A
May	17,977,996	6,661,438	
Jun	7,698,826	3,345,714	
Total	318,586,473	118,472,952	

St. Joseph Geographic Region

	Residential Gas Service Customers	Small General Gas Service Customers	Large General Gas Service Customers
Jul	520,991	223,214	41,052
Aug	457,950	204,199	33,477
Sep	479,604	212,529	37,045
Oct	739,786	294,990	54,703
Nov	1,332,904	518,064	76,932
Dec	3,373,605	1,271,774	178,638
Jan	5,031,486	1,933,032	248,289
Feb	4,969,678	1,922,832	243,091
Mar	3,866,699	1,508,759	192,673
Apr	2,597,700	946,698	148,978
May	1,481,069	492,707	104,269
Jun	645,935	235,209	58,197
Total	25,497,407	9,764,007	1,417,343

**Weather Normalized Coincident Peak Day Demand in Ccf per Customer
For the Test Year of July 1, 2002 - June 30, 2003**

Joplin Geographic Region

	Residential Gas Service Customers	Small General Gas Service Customers	Large General Gas Service Customers
Jul	0.4876	2.2745	105.0378
Aug	0.5717	2.4735	109.7029
Sep	2.5887	7.2485	221.6646
Oct	4.0874	10.7966	304.8584
Nov	6.2165	15.8369	423.0402
Dec	8.7657	21.8720	564.5474
Jan	9.1579	22.8004	586.3178
Feb	8.4576	21.1424	547.4422
Mar	6.5246	16.5664	440.1455
Apr	4.4376	11.6256	324.2962
May	2.6867	7.4806	227.1072
Jun	1.1880	3.9325	143.9134
Annual	9.1579	22.8004	586.3178

Kansas City Geographic Region

	Residential Gas Service Customers	Small General Gas Service Customers	Large General Gas Service Customers
Jul	0.5609	2.4836	41.8771
Aug	0.6923	2.8095	41.8487
Sep	2.8972	8.2767	45.0866
Oct	4.6202	12.5490	57.1038
Nov	7.1464	18.8127	142.6747
Dec	10.1690	26.3075	221.0186
Jan	10.0814	26.0903	269.8374
Feb	9.5703	24.8230	316.2631
Mar	7.4676	19.6093	279.7993
Apr	4.9853	13.4542	148.8467
May	2.9264	8.3491	236.0231
Jun	1.2764	4.2577	243.6772
Annual	10.1690	26.3075	316.2631

St. Joseph Geographic Region

	Residential Gas Service Customers	Small General Gas Service Customers	Large General Gas Service Customers
Jul	0.6247	2.2494	52.3907
Aug	0.7631	2.6281	57.7087
Sep	3.0855	8.9815	146.9327
Oct	4.9003	13.9465	216.6574
Nov	7.5611	21.2256	318.8810
Dec	10.7448	29.9353	441.1947
Jan	10.6525	29.6828	437.6493
Feb	10.1142	28.2102	416.9683
Mar	7.8995	22.1513	331.8805
Apr	5.2848	14.9984	231.4296
May	3.1162	9.0657	148.1145
Jun	1.3783	4.3111	81.3442
Annual	10.7448	29.9353	441.1947