

Part 1 - Appendix 3A
Kansas City Power & Light Reports

Missouri 4 CSR 240-22.030 (2) Reporting Requirements
Load Analysis and Forecasting

(2)(D) For each major class specified pursuant to subsection (2)(A), the utility shall provide, on a seasonal and annual basis for each year of the historical period --

(2)(D)(1) Its assessment of the historical enduse drivers of energy usage and peak demand, including trends in number of units and energy consumption per unit;

(3)(D)(2) Its assessment to the weather sensitivity of energy and peak demand; and

(2)(D)(3) Plots illustrating trends materially affecting electricity consumption over the historical period.

Compliance: See Plots 3A-1 through 3A-36 for base-case GMOC forecast reports designed to comply with section (2)(D) reporting requirements.

Linked Files:**Work Files**

Folder: Datalyzers/WN Class
Datalyzers/Actual Class
CombineAccrCCOSSales.NDMetrix Project
ActPeakSumWin
WNPeakSumWin

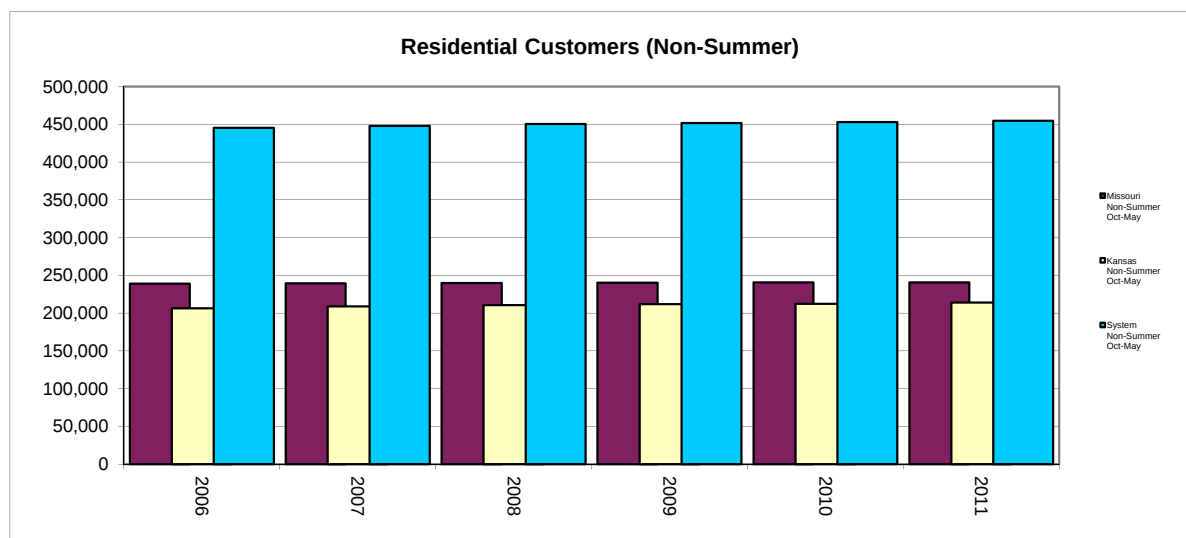
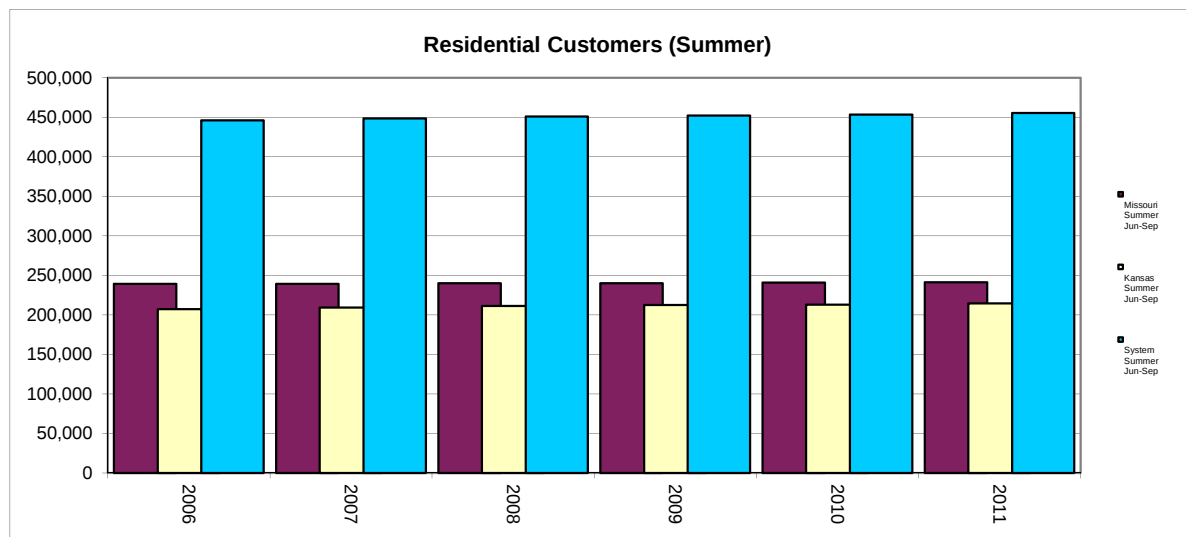
Project Files

IRP_2D_GMO_Customer.xls
IRP_2D_GMO_AvgUse
IRP_2D_GMO_EndUse_AvgUse.xls
IRP_2D_GMO_PeakPerCust
IRP_2D_GMO_Peak_EndUse
IRP_2D_GMO_PeakPerCust_EndUse

Plot 3A-1: Missouri & Kansas Residential Customers

Year	Missouri Summer Jun-Sep	Missouri Non-Summer Oct-May	Missouri Total Jan -Dec	Kansas Summer Jun-Sep	Kansas Non-Summer Oct-May	Kansas Total Jan -Dec	System Summer Jun-Sep	System Non-Summer Oct-May	System Total Jan -Dec
1995	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	-
2006	239,218	239,119	478,337	206,994	206,289	413,283	446,212	445,408	891,620
2007	239,213	239,421	478,634	209,327	208,748	418,075	448,540	448,169	896,709
2008	239,760	239,778	479,538	211,243	210,539	421,782	451,003	450,317	901,320
2009	239,750	240,158	479,908	212,253	211,737	423,990	452,003	451,895	903,898
2010	240,564	240,659	481,223	212,877	212,390	425,267	453,441	453,049	906,490
2011	241,032	240,831	481,863	214,410	214,005	428,415	455,442	454,836	910,278

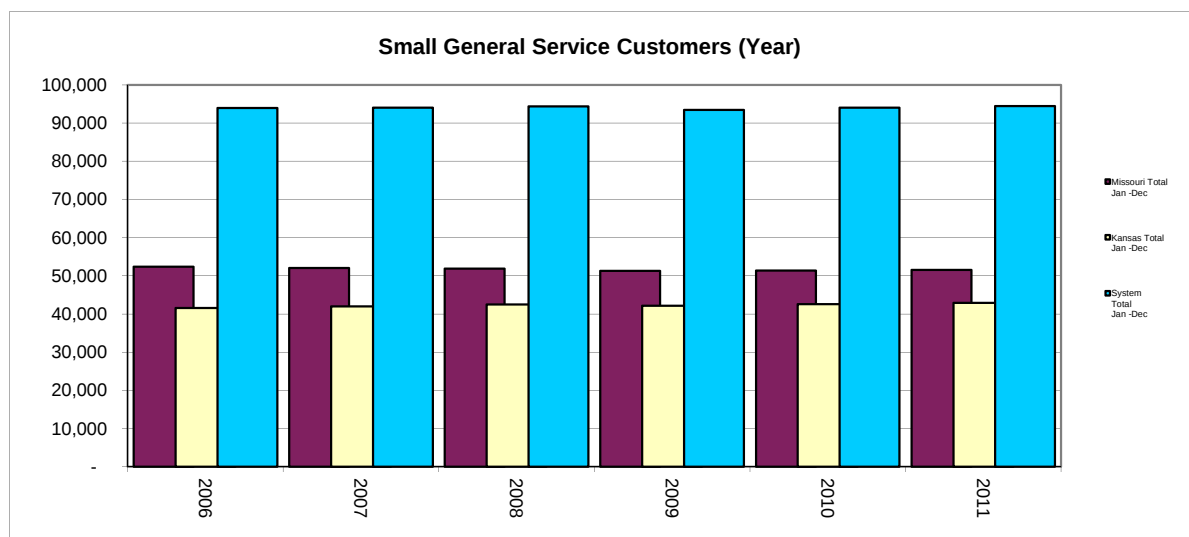
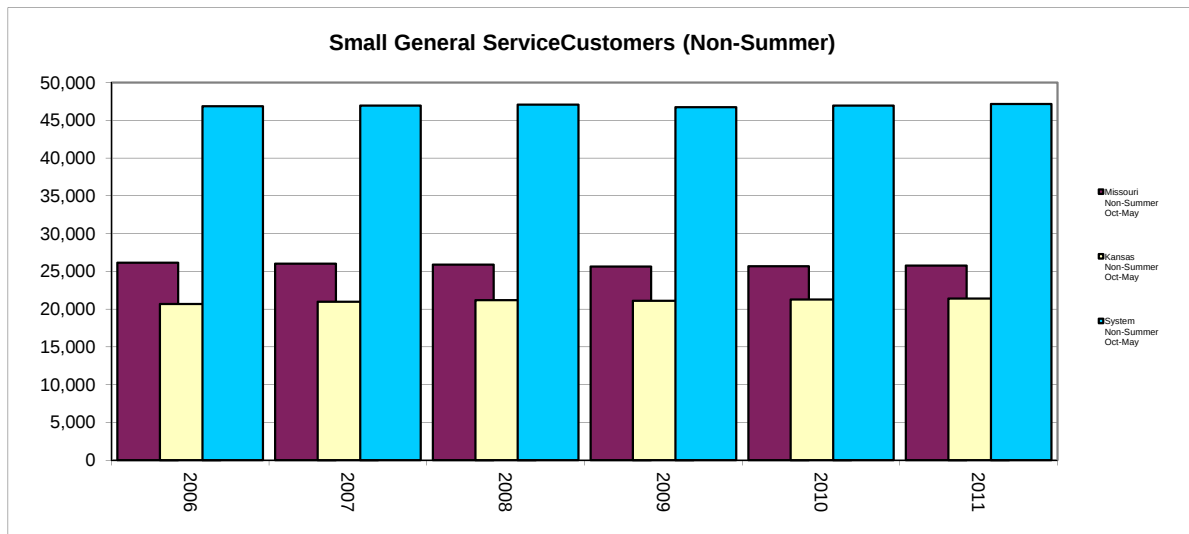
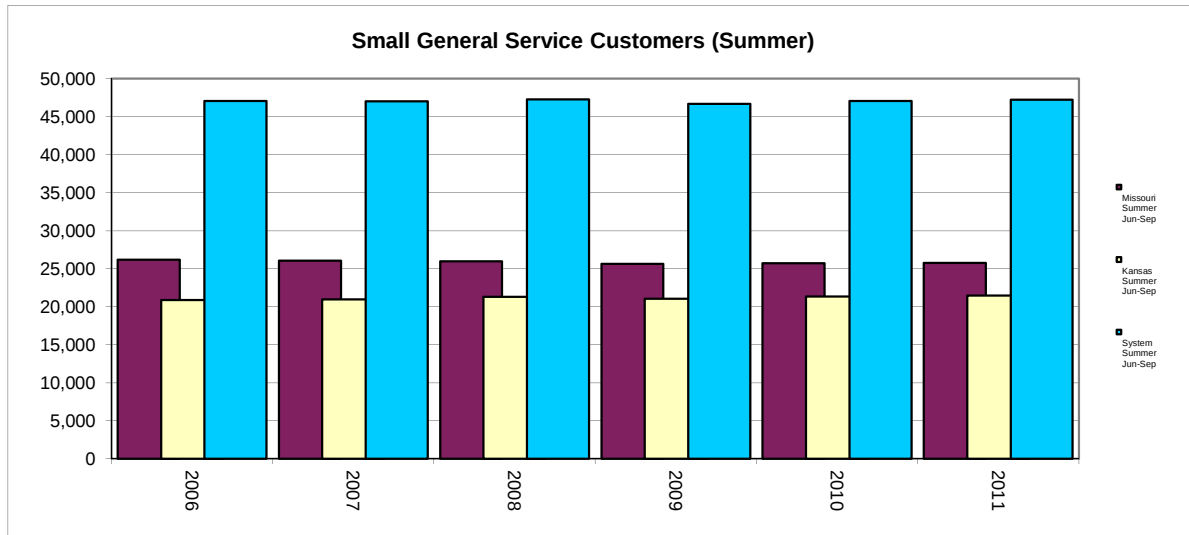
06-'10	0.14%	0.16%	0.15%	0.70%	0.73%	0.72%	0.40%	0.43%	0.41%
10-'11	0.19%	0.07%	0.13%	0.72%	0.76%	0.74%	0.44%	0.39%	0.42%
06-'11	0.15%	0.14%	0.15%	0.71%	0.74%	0.72%	0.41%	0.42%	0.42%



Plot 3A-2: Missouri & Kansas Small General Service Customers

Year	Missouri Summer Jun-Sep	Missouri Non-Summer Oct-May	Missouri Total Jan -Dec	Kansas Summer Jun-Sep	Kansas Non-Summer Oct-May	Kansas Total Jan -Dec	System Summer Jun-Sep	System Non-Summer Oct-May	System Total Jan -Dec
1995	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	-
2006	26,196	26,158	52,354	20,873	20,696	41,569	47,069	46,854	93,923
2007	26,049	26,002	52,051	20,987	20,972	41,959	47,036	46,974	94,010
2008	25,978	25,893	51,871	21,296	21,180	42,476	47,274	47,073	94,347
2009	25,641	25,624	51,265	21,050	21,109	42,159	46,691	46,733	93,424
2010	25,727	25,690	51,417	21,351	21,269	42,620	47,078	46,959	94,037
2011	25,765	25,761	51,526	21,491	21,407	42,898	47,256	47,168	94,424

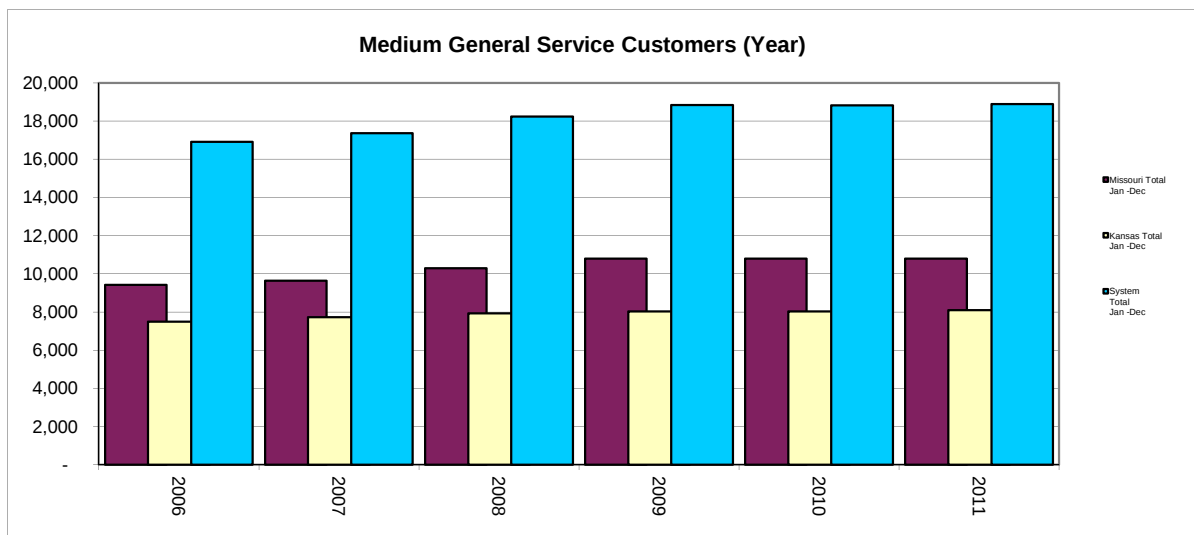
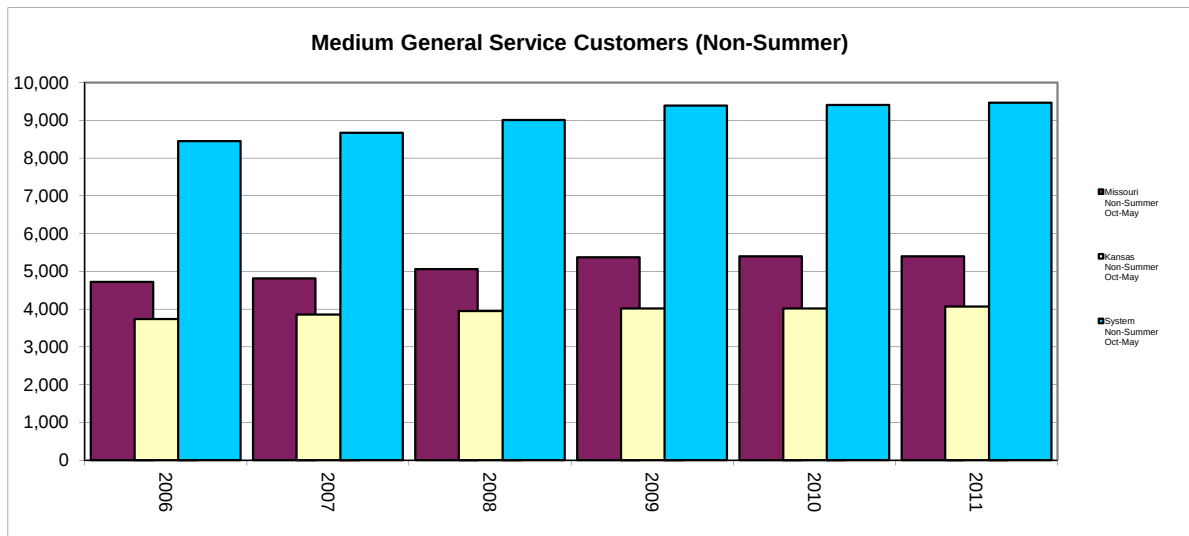
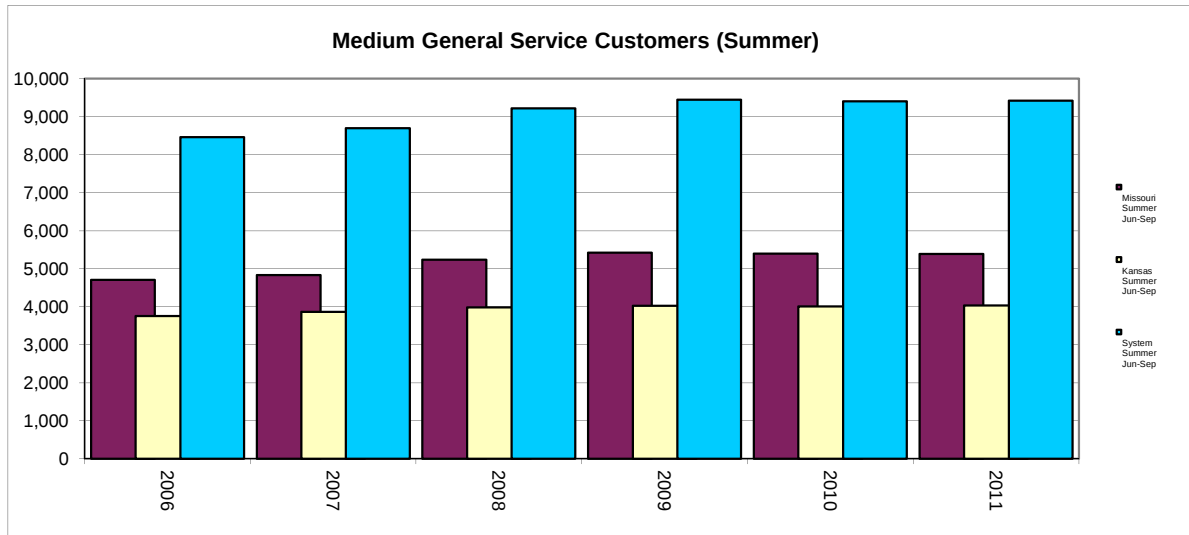
06-'10	-0.45%	-0.45%	-0.45%	0.57%	0.69%	0.63%	0.00%	0.06%	0.03%
10-'11	0.15%	0.28%	0.21%	0.66%	0.65%	0.65%	0.38%	0.45%	0.41%
06-'11	-0.33%	-0.31%	-0.32%	0.59%	0.68%	0.63%	0.08%	0.13%	0.11%



Plot 3A-3: Missouri & Kansas Medium General Services Customers

Year	Missouri Summer Jun-Sep	Missouri Non-Summer Oct-May	Missouri Total Jan -Dec	Kansas Summer Jun-Sep	Kansas Non-Summer Oct-May	Kansas Total Jan -Dec	System Summer Jun-Sep	System Non-Summer Oct-May	System Total Jan -Dec
1995	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	-
2006	4,706	4,718	9,424	3,754	3,736	7,490	8,460	8,454	16,914
2007	4,831	4,813	9,644	3,870	3,858	7,728	8,701	8,671	17,372
2008	5,238	5,059	10,297	3,982	3,951	7,933	9,220	9,010	18,230
2009	5,423	5,375	10,798	4,026	4,013	8,039	9,449	9,388	18,837
2010	5,396	5,397	10,793	4,010	4,013	8,023	9,406	9,410	18,816
2011	5,389	5,402	10,791	4,035	4,065	8,100	9,424	9,467	18,891

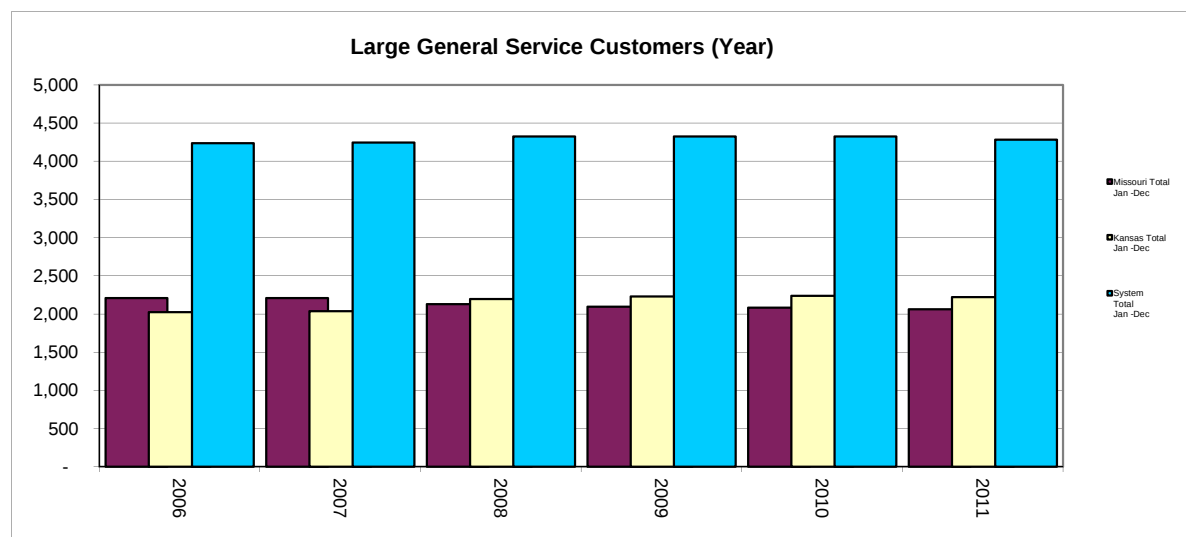
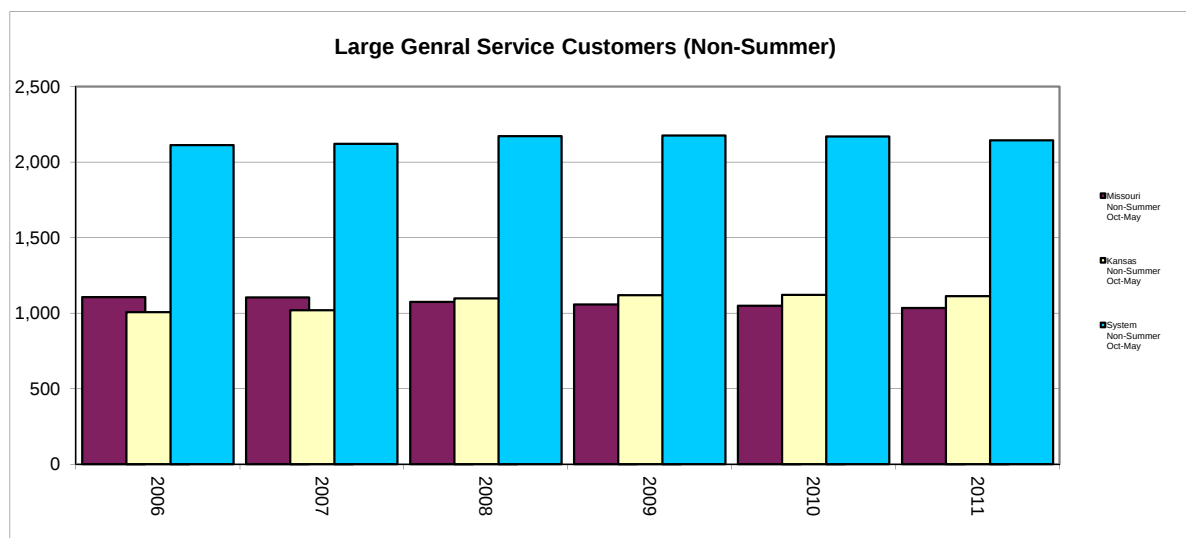
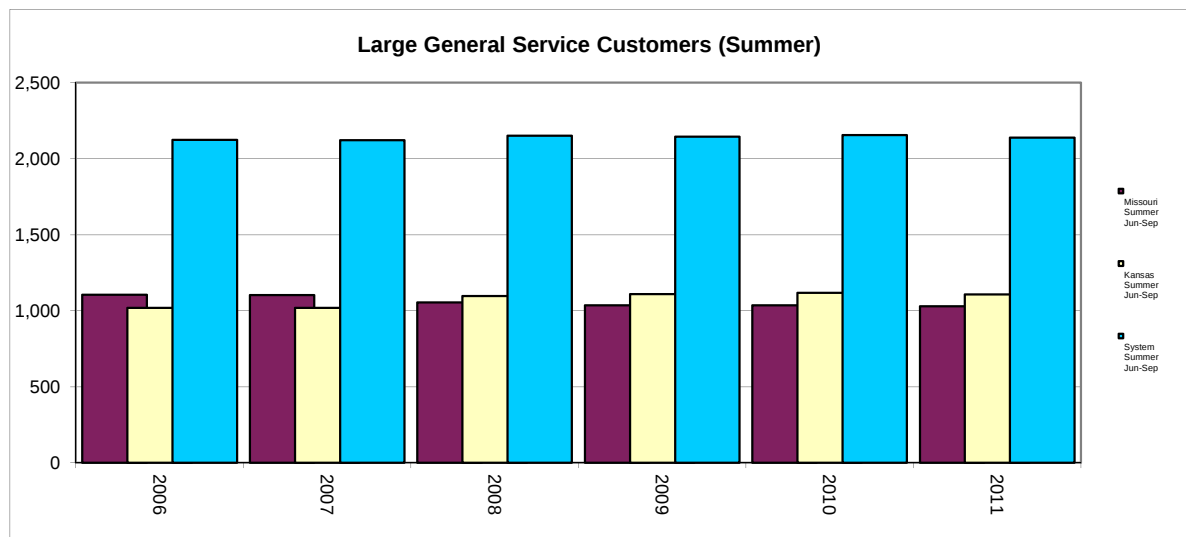
06-'10	3.48%	3.42%	3.45%	1.66%	1.80%	1.73%	2.69%	2.71%	2.70%
10-'11	-0.13%	0.09%	-0.02%	0.62%	1.30%	0.96%	0.19%	0.61%	0.40%
06-'11	2.75%	2.74%	2.75%	1.45%	1.70%	1.58%	2.18%	2.29%	2.24%



Plot 3A-4: Missouri & Kansas Large General Services Customers

Year	Missouri Summer Jun-Sep	Missouri Non-Summer Oct-May	Missouri Total Jan -Dec	Kansas Summer Jun-Sep	Kansas Non-Summer Oct-May	Kansas Total Jan -Dec	System Summer Jun-Sep	System Non-Summer Oct-May	System Total Jan -Dec
1995	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	-
2006	1,105	1,105	2,210	1,019	1,007	2,026	2,124	2,112	4,236
2007	1,104	1,103	2,207	1,019	1,019	2,038	2,123	2,122	4,245
2008	1,054	1,075	2,129	1,098	1,097	2,195	2,152	2,172	4,324
2009	1,036	1,058	2,094	1,110	1,119	2,229	2,146	2,177	4,323
2010	1,036	1,049	2,085	1,119	1,120	2,239	2,155	2,169	4,324
2011	1,030	1,033	2,063	1,108	1,112	2,220	2,138	2,145	4,283

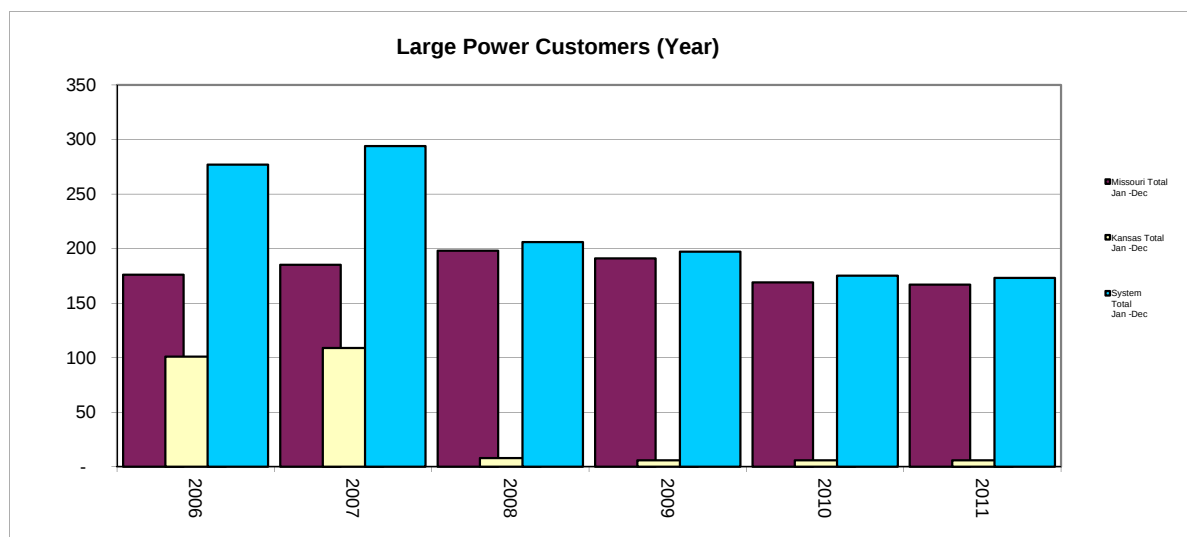
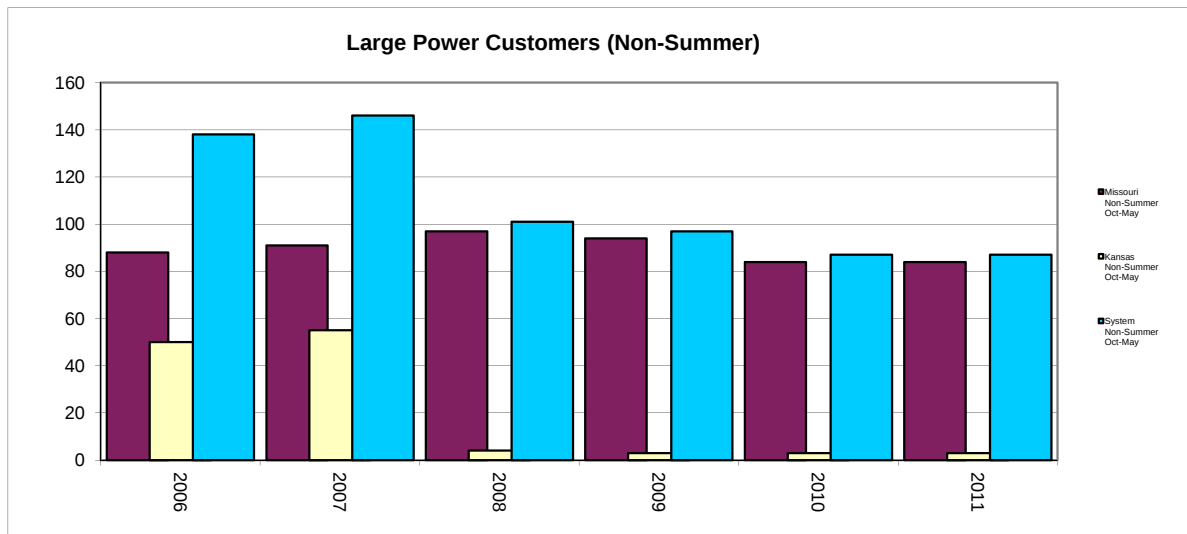
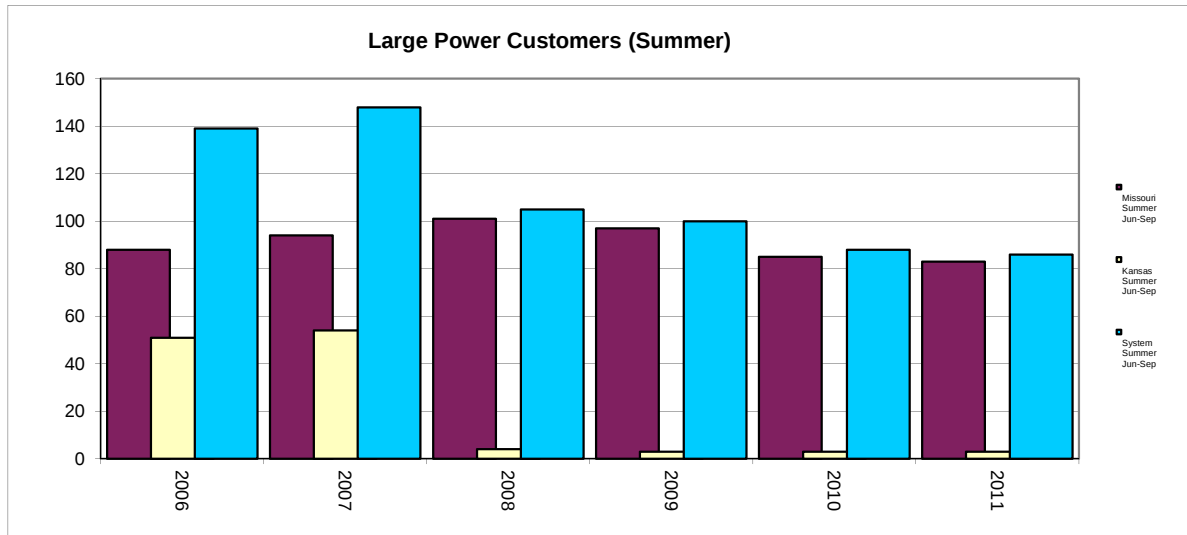
06-'10	-1.60%	-1.29%	-1.45%	2.37%	2.69%	2.53%	0.36%	0.67%	0.52%
10-'11	-0.58%	-1.53%	-1.06%	-0.98%	-0.71%	-0.85%	-0.79%	-1.11%	-0.95%
06-'11	-1.40%	-1.34%	-1.37%	1.69%	2.00%	1.85%	0.13%	0.31%	0.22%



Plot 3A-5: Missouri & Kansas Large Power Customers

Year	Missouri Summer Jun-Sep	Missouri Non-Summer Oct-May	Missouri Total Jan -Dec	Kansas Summer Jun-Sep	Kansas Non-Summer Oct-May	Kansas Total Jan -Dec	System Summer Jun-Sep	System Non-Summer Oct-May	System Total Jan -Dec
1995	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	-
2006	88	88	176	51	50	101	139	138	277
2007	94	91	185	54	55	109	148	146	294
2008	101	97	198	4	4	8	105	101	206
2009	97	94	191	3	3	6	100	97	197
2010	85	84	169	3	3	6	88	87	175
2011	83	84	167	3	3	6	86	87	173

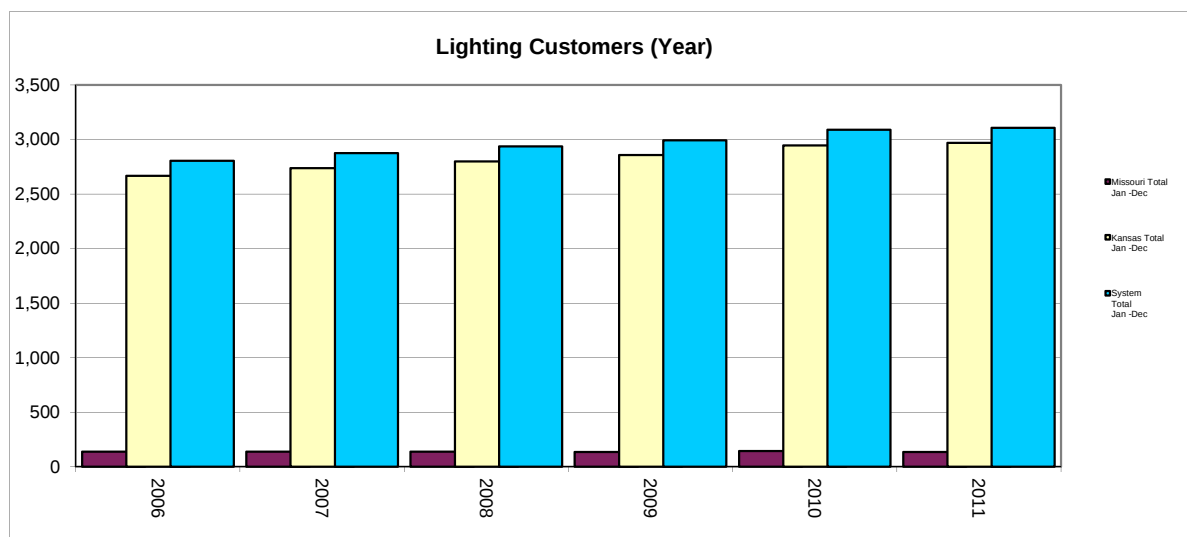
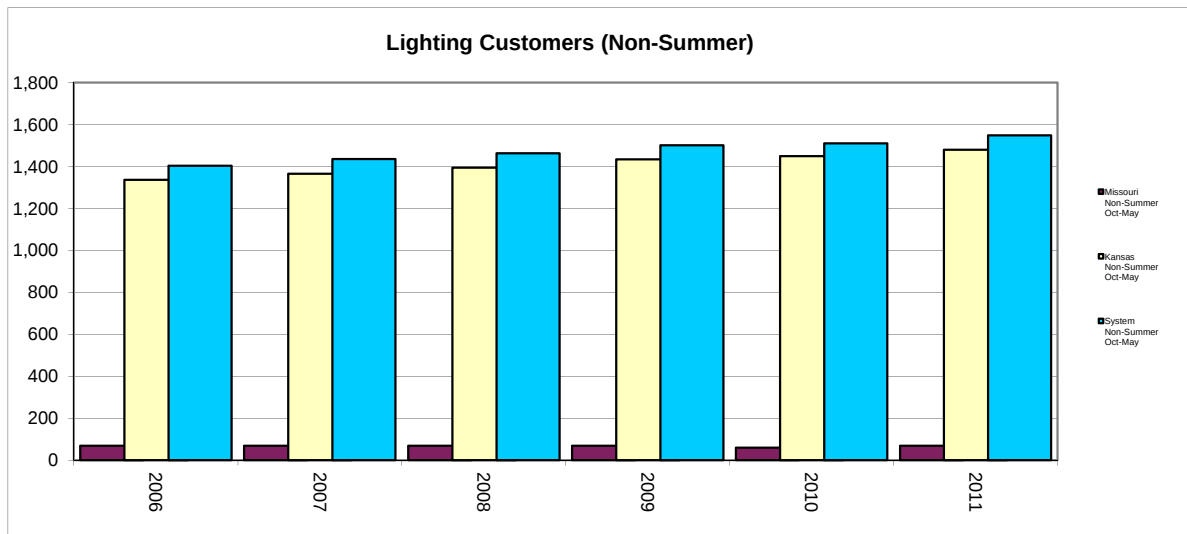
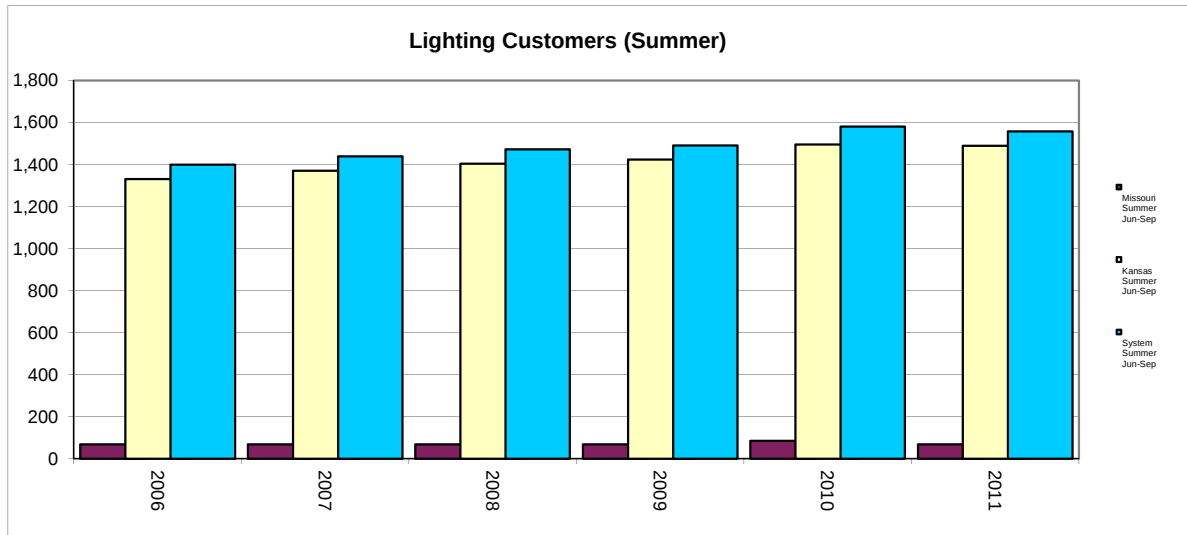
06-'10	-0.86%	-1.16%	-1.01%	-50.75%	-50.51%	-50.63%	-10.80%	-10.89%	-10.85%
10-'11	-2.35%	0.00%	-1.18%	0.00%	0.00%	0.00%	-2.27%	0.00%	-1.14%
06-'11	-1.16%	-0.93%	-1.04%	-43.26%	-43.03%	-43.15%	-9.16%	-8.81%	-8.98%



Plot 3A-6: Missouri & Kansas Lighting Customers

Year	Missouri Summer Jun-Sep	Missouri Non-Summer Oct-May	Missouri Total Jan -Dec	Kansas Summer Jun-Sep	Kansas Non-Summer Oct-May	Kansas Total Jan -Dec	System Summer Jun-Sep	System Non-Summer Oct-May	System Total Jan -Dec
1995	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	-
2006	69	68	137	1,330	1,336	2,666	1,399	1,404	2,803
2007	69	69	138	1,370	1,366	2,736	1,439	1,435	2,874
2008	69	69	138	1,404	1,394	2,798	1,473	1,463	2,936
2009	68	68	136	1,423	1,434	2,857	1,491	1,502	2,993
2010	85	60	145	1,495	1,450	2,945	1,580	1,510	3,090
2011	68	68	136	1,489	1,480	2,969	1,557	1,548	3,105

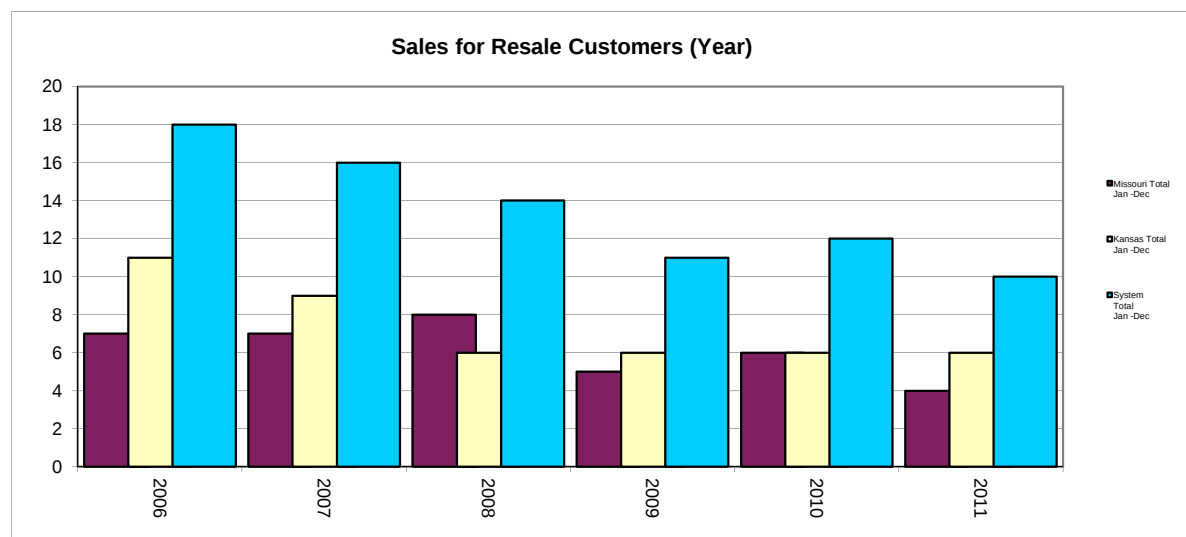
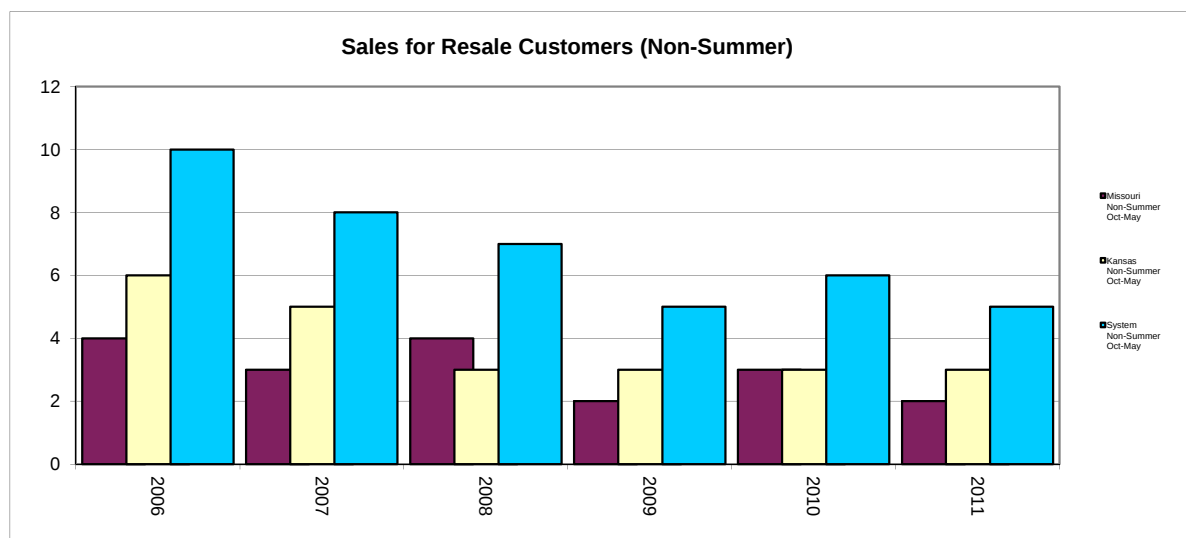
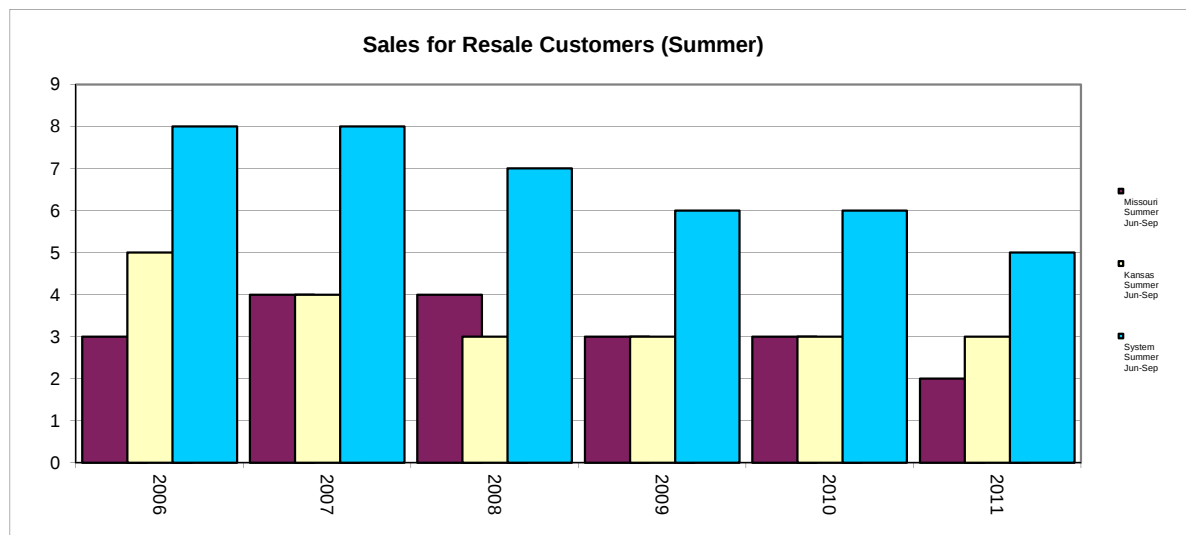
06-'10	5.35%	-3.08%	1.43%	2.97%	2.07%	2.52%	3.09%	1.84%	2.47%
10-'11	-20.00%	13.33%	-6.21%	-0.40%	2.07%	0.81%	-1.46%	2.52%	0.49%
06-'11	-0.29%	0.00%	-0.15%	2.28%	2.07%	2.18%	2.16%	1.97%	2.07%



Plot 3A-7: Missouri & Kansas Sales for Resale Customers

Year	Missouri Summer Jun-Sep	Missouri Non-Summer Oct-May	Missouri Total Jan -Dec	Kansas Summer Jun-Sep	Kansas Non-Summer Oct-May	Kansas Total Jan -Dec	System Summer Jun-Sep	System Non-Summer Oct-May	System Total Jan -Dec
1995	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	-
2006	3	4	7	5	6	11	8	10	18
2007	4	3	7	4	5	9	8	8	16
2008	4	4	8	3	3	6	7	7	14
2009	3	2	5	3	3	6	6	5	11
2010	3	3	6	3	3	6	6	6	12
2011	2	2	4	3	3	6	5	5	10

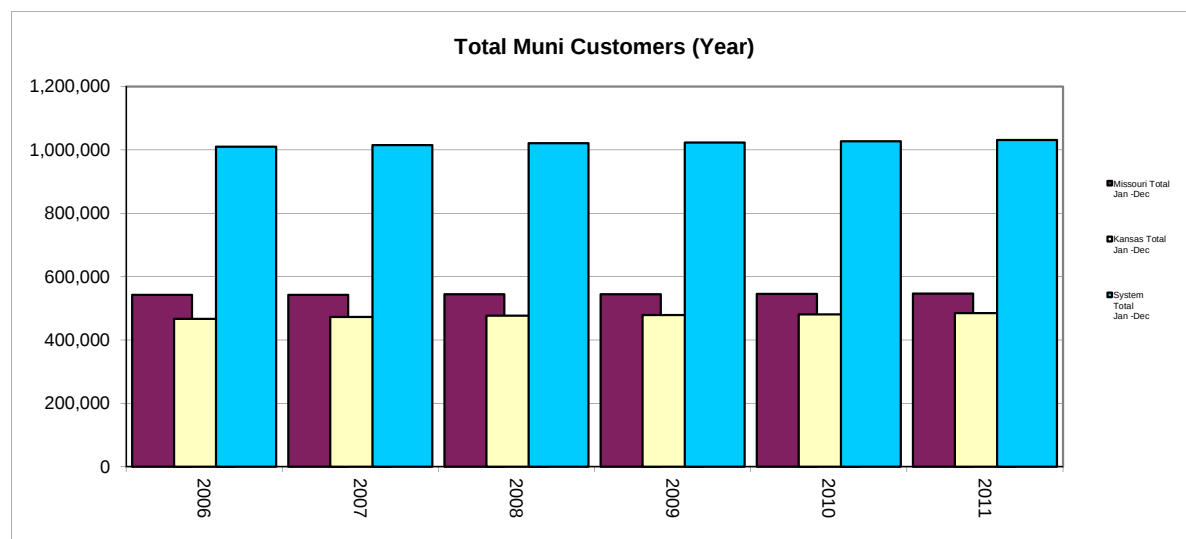
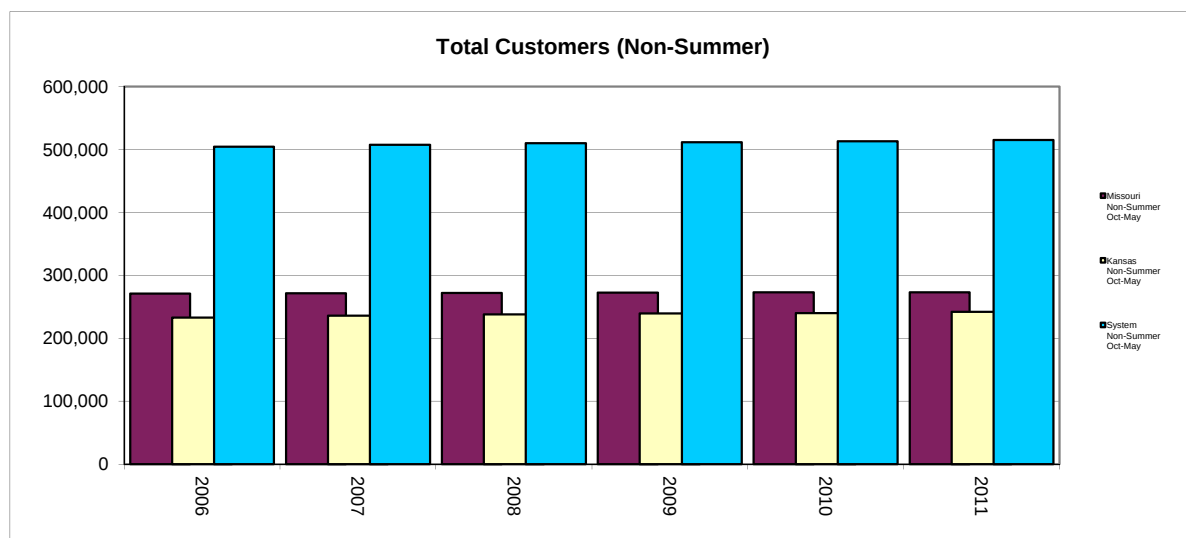
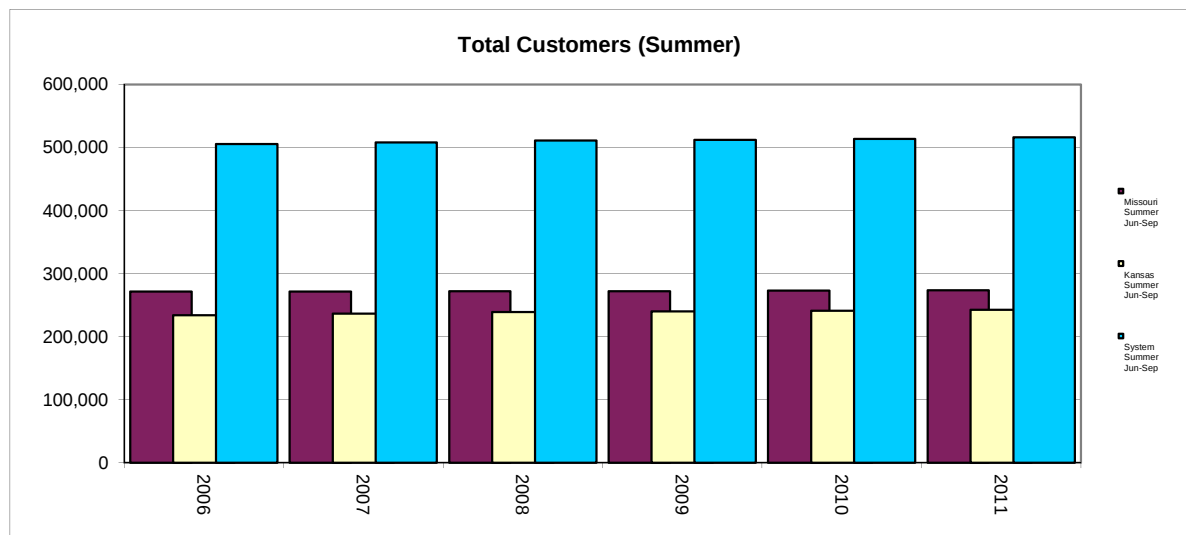
06-'10	0.00%	-6.94%	-3.78%	-11.99%	-15.91%	-14.06%	-6.94%	-11.99%	-9.64%
10-'11	-33.33%	-33.33%	-33.33%	0.00%	0.00%	0.00%	-16.67%	-16.67%	-16.67%
06-'11	-7.79%	-12.94%	-10.59%	-9.71%	-12.94%	-11.42%	-8.97%	-12.94%	-11.09%



Plot 3A-8: Missouri & Kansas Total Customers

Year	Missouri Summer Jun-Sep	Missouri Non-Summer Oct-May	Missouri Total Jan -Dec	Kansas Summer Jun-Sep	Kansas Non-Summer Oct-May	Kansas Total Jan -Dec	System Summer Jun-Sep	System Non-Summer Oct-May	System Total Jan -Dec
1995	0	0	0	0	0	0	0	-	-
1996	0	0	0	0	0	0	0	-	-
1997	0	0	0	0	0	0	0	-	-
1998	0	0	0	0	0	0	0	-	-
1999	0	0	0	0	0	0	0	-	-
2000	0	0	0	0	0	0	0	-	-
2001	0	0	0	0	0	0	0	-	-
2002	0	0	0	0	0	0	0	-	-
2003	0	0	0	0	0	0	0	-	-
2004	0	0	0	0	0	0	0	-	-
2005	0	0	0	0	0	0	0	-	-
2006	271,385	271,260	542,645	234,026	233,120	467,146	505,411	504,380	1,009,791
2007	271,364	271,502	542,866	236,631	236,023	472,654	507,995	507,525	1,015,520
2008	272,204	271,975	544,179	239,030	238,168	477,198	511,234	510,143	1,021,377
2009	272,018	272,379	544,397	239,868	239,418	479,286	511,886	511,797	1,023,683
2010	272,896	272,942	545,838	240,858	240,248	481,106	513,754	513,190	1,026,944
2011	273,369	273,181	546,550	242,539	242,075	484,614	515,908	515,256	1,031,164

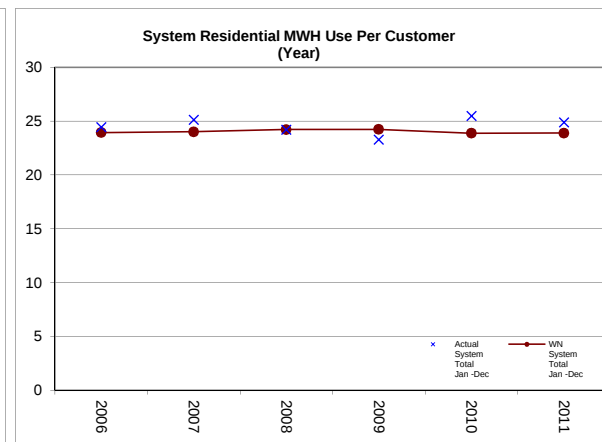
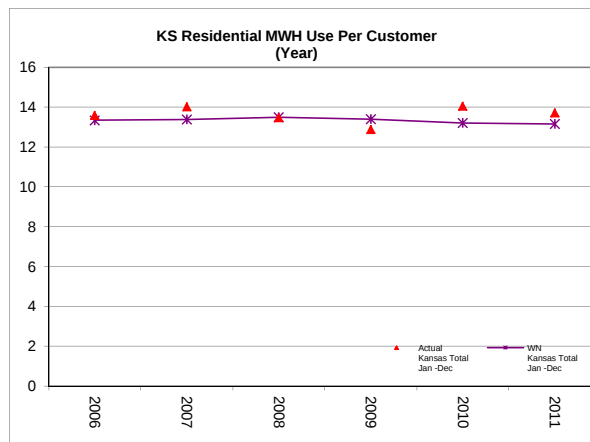
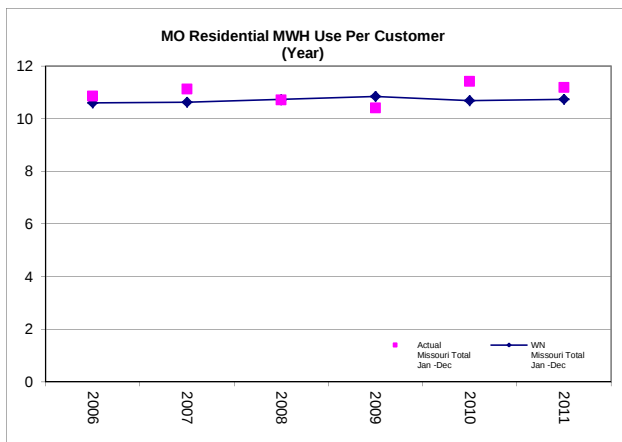
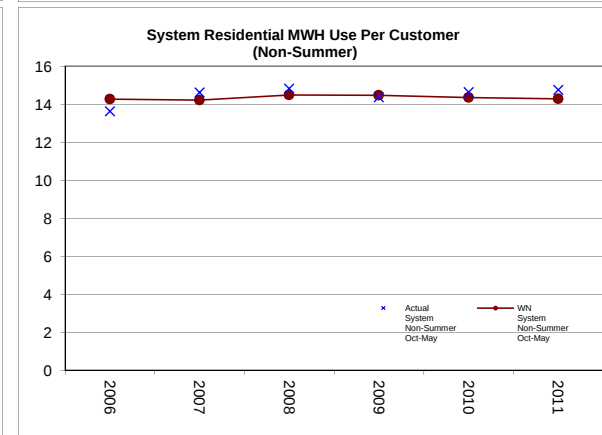
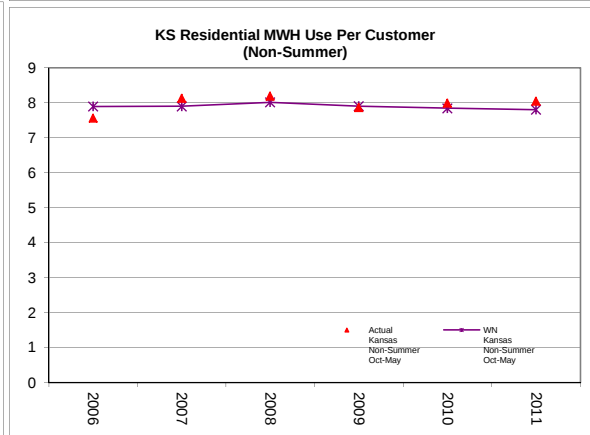
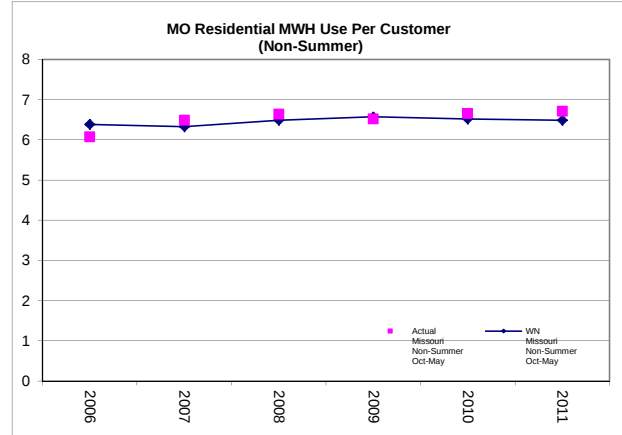
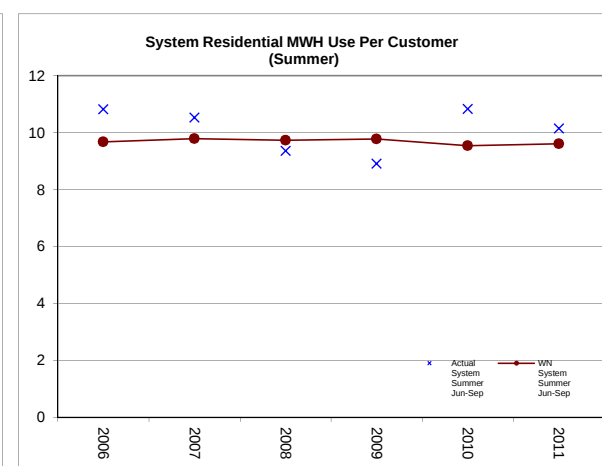
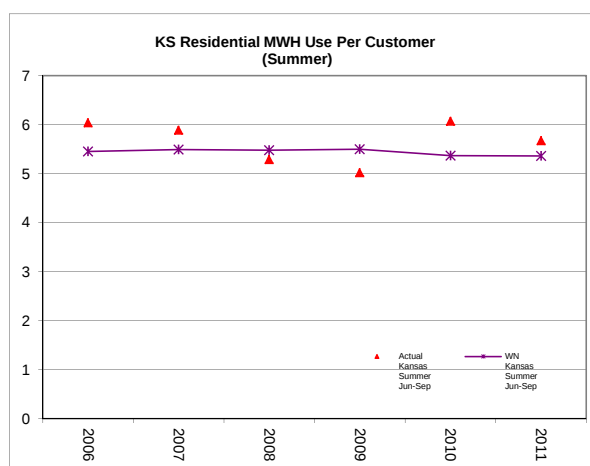
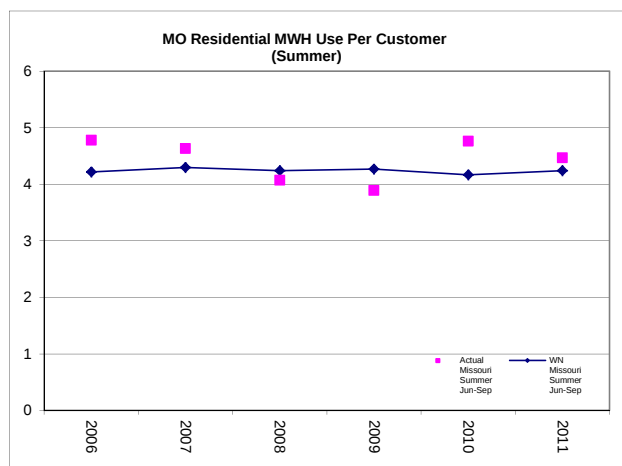
06-'10	0.14%	0.15%	0.15%	0.72%	0.76%	0.74%	0.41%	0.43%	0.42%
10-'11	0.17%	0.09%	0.13%	0.70%	0.76%	0.73%	0.42%	0.40%	0.41%
06-'11	0.15%	0.14%	0.14%	0.72%	0.76%	0.74%	0.41%	0.43%	0.42%



Plot 3A-9 Missouri & Kansas Residential MWH Use Per Customer
(Actual vs. Weather Normalized)

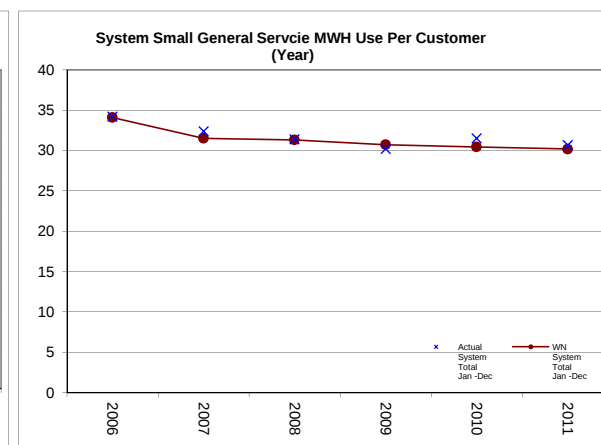
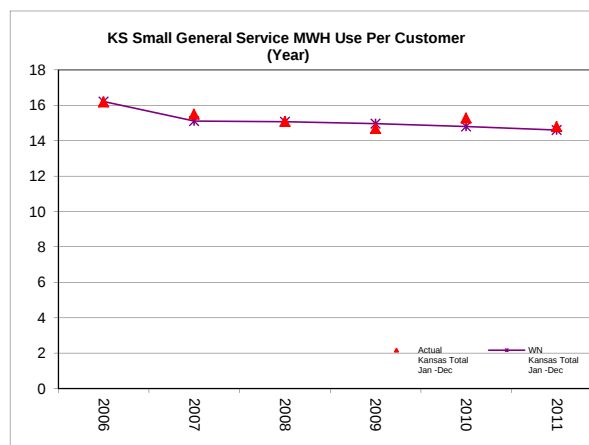
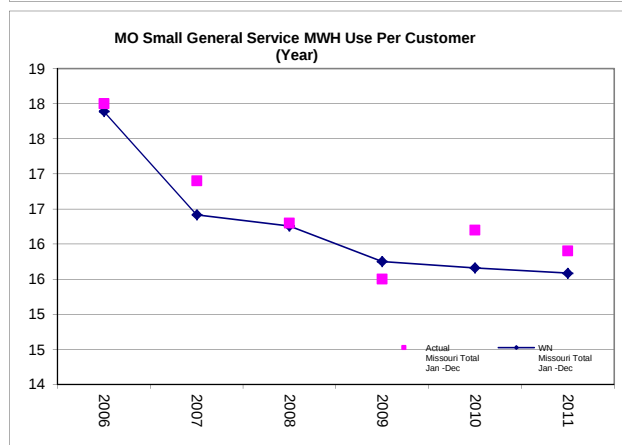
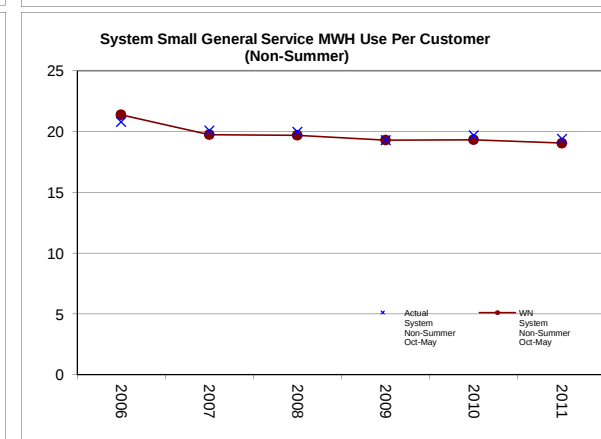
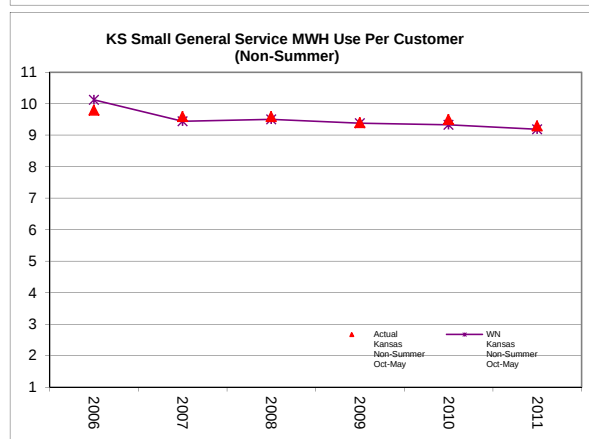
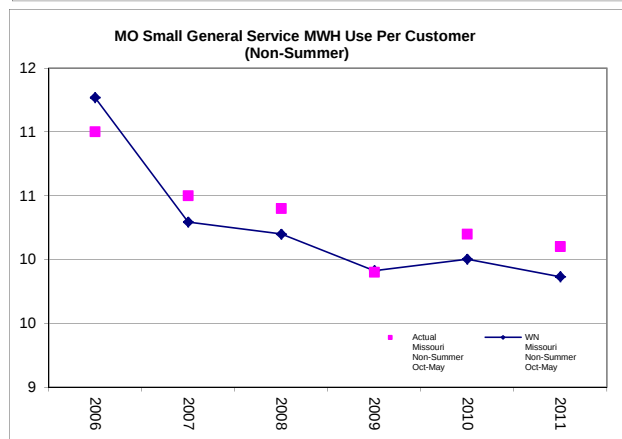
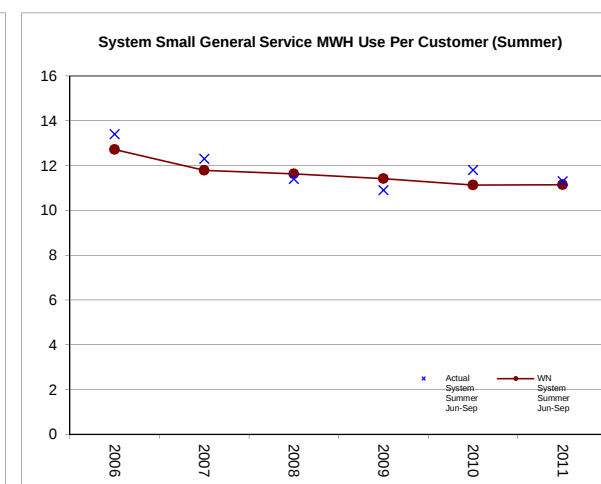
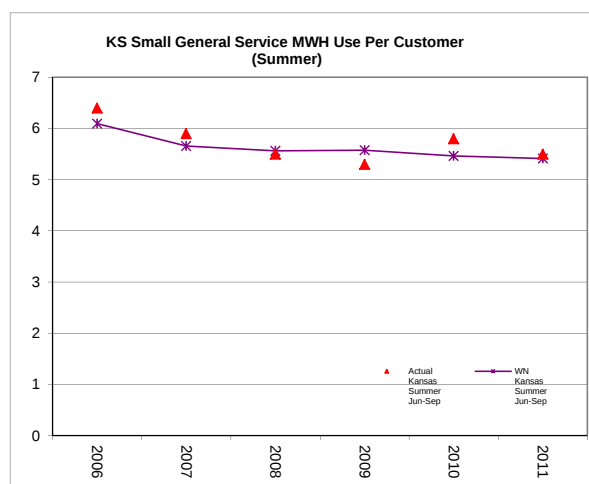
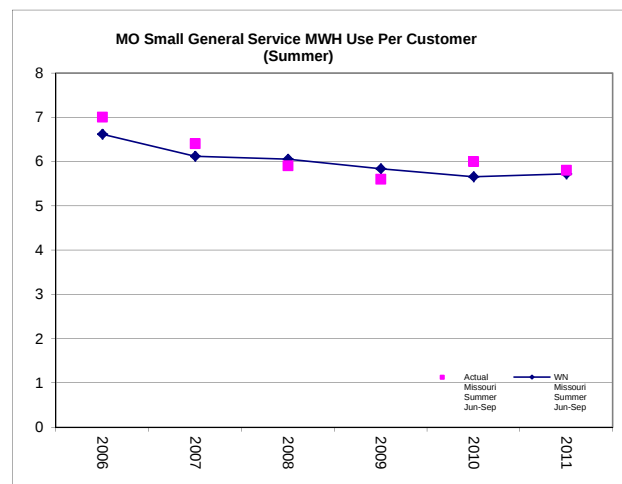
Year	Actual Missouri Summer Jun-Sep	WN Missouri Summer Jun-Sep	Actual Missouri Non-Summer Oct-May	WN Missouri Non-Summer Oct-May	Actual Missouri Total Jan -Dec	WN Missouri Total Jan -Dec	Actual Kansas Summer Jun-Sep	WN Kansas Summer Jun-Sep	Actual Kansas Non-Summer Oct-May	WN Kansas Non-Summer Oct-May	Actual Kansas Total Jan -Dec	WN Kansas Total Jan -Dec	Actual System Summer Jun-Sep	WN System Summer Jun-Sep	Actual System Non-Summer Oct-May	WN System Non-Summer Oct-May	Actual System Total Jan -Dec	WN System Total Jan -Dec
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		
2002																		
2003																		
2004																		
2005																		
2006	4.78	4.22	6.07	6.38	10.85	10.60	6.04	5.45	7.56	7.89	13.60	13.34	10.82	9.67	13.63	14.27	24.45	23.94
2007	4.63	4.30	6.49	6.33	11.12	10.62	5.89	5.49	8.13	7.90	14.02	13.38	10.52	9.78	14.62	14.22	25.14	24.01
2008	4.07	4.24	6.64	6.49	10.71	10.73	5.29	5.48	8.19	8.01	13.48	13.49	9.36	9.72	14.83	14.50	24.19	24.22
2009	3.89	4.27	6.52	6.57	10.41	10.84	5.02	5.50	7.86	7.90	12.88	13.40	8.91	9.77	14.38	14.47	23.29	24.24
2010	4.76	4.17	6.65	6.52	11.41	10.68	6.07	5.36	7.99	7.84	14.06	13.20	10.83	9.53	14.64	14.36	25.47	23.89
2011	4.47	4.24	6.71	6.49	11.18	10.73	5.67	5.36	8.05	7.80	13.72	13.16	10.14	9.60	14.76	14.29	24.90	23.89

06-'10	-0.1%	-0.3%	2.3%	0.5%	1.3%	0.2%	0.1%	-0.4%	1.4%	-0.2%	0.8%	-0.3%	0.0%	-0.4%	1.8%	0.2%	1.0%	-0.1%
10-'11	-6.1%	1.8%	0.9%	-0.4%	-2.0%	0.4%	-6.6%	-0.1%	0.8%	-0.5%	-2.4%	-0.3%	-6.4%	0.8%	0.8%	-0.5%	-2.2%	0.0%
06-'11	-1.3%	0.1%	2.0%	0.3%	0.6%	0.2%	-1.3%	-0.3%	1.3%	-0.2%	0.2%	-0.3%	-1.3%	-0.1%	1.6%	0.0%	0.4%	0.0%



**Plot 3A-10 Missouri & Kansas Small General Service MWH Use Per Customer
(Actual vs. Weather Normalized)**

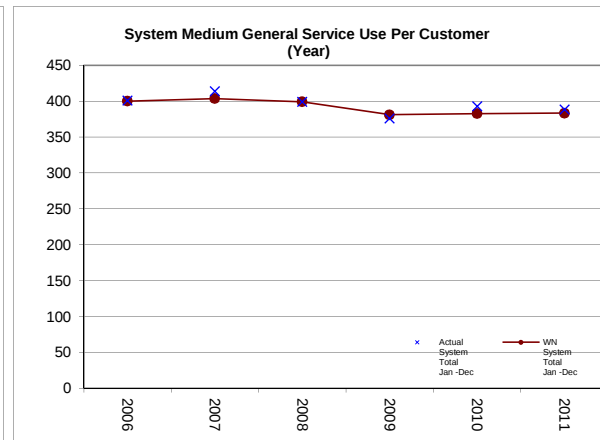
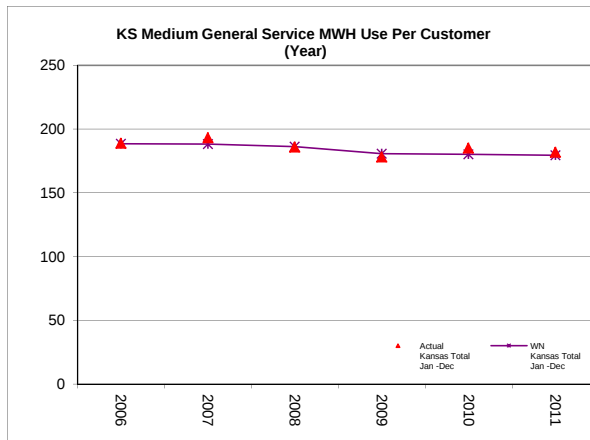
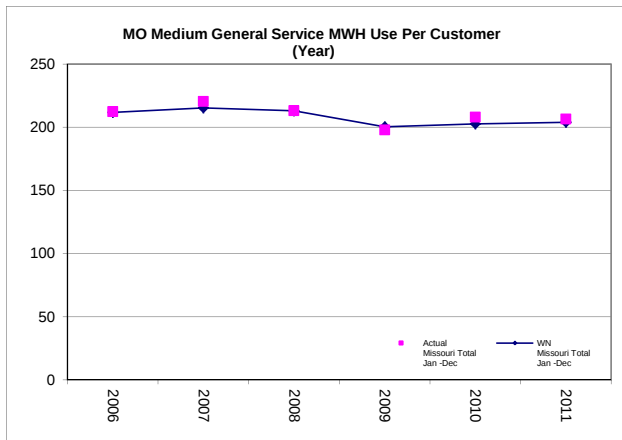
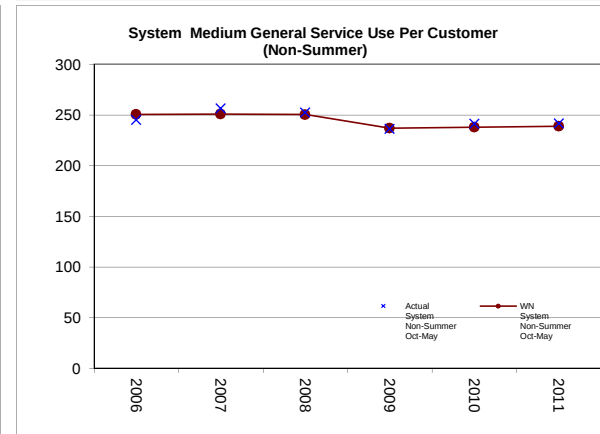
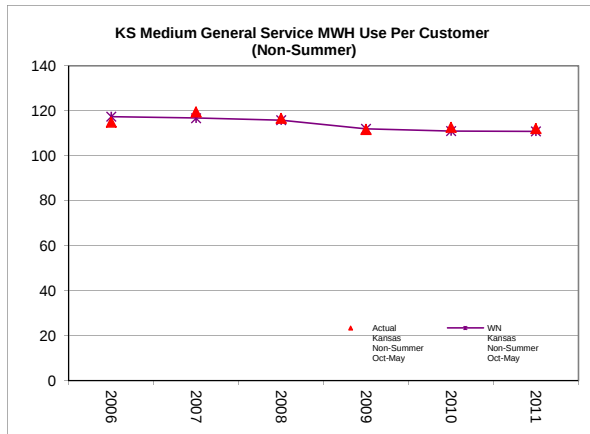
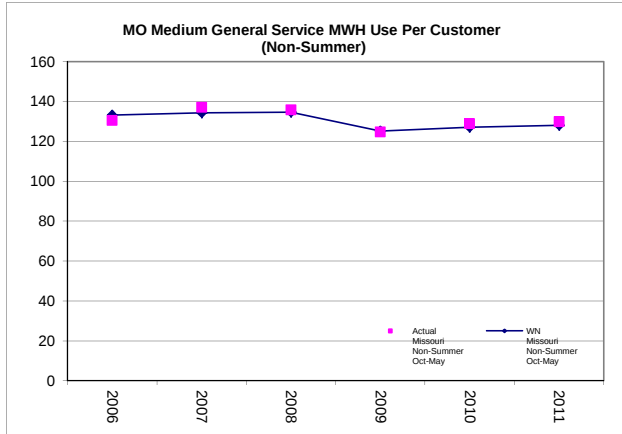
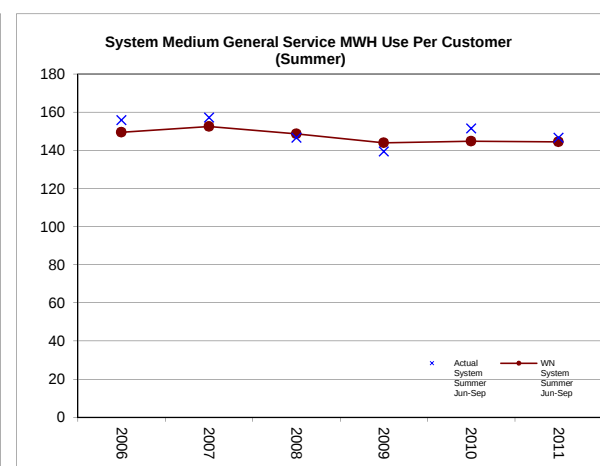
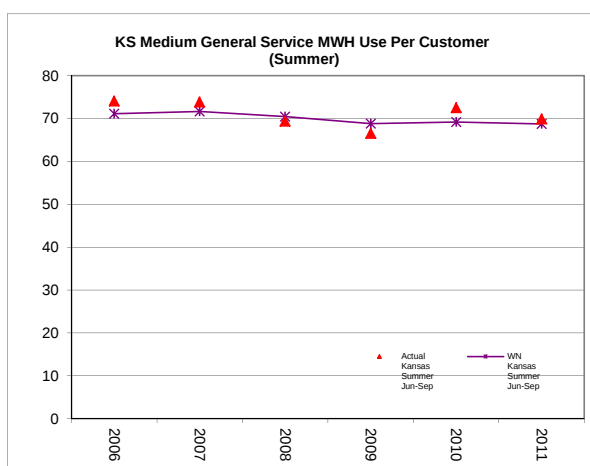
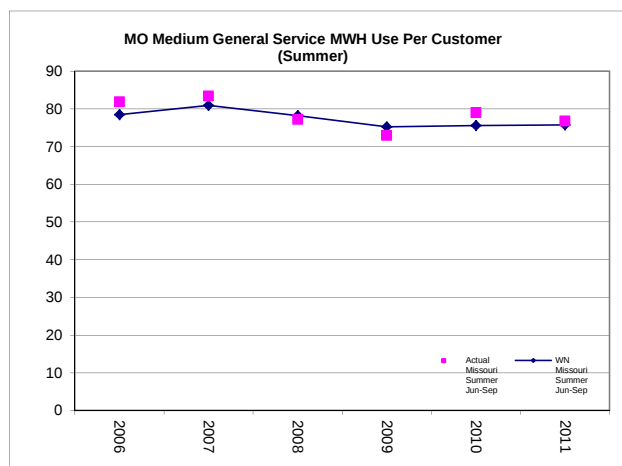
Year	Actual Missouri Summer Jun-Sep	WN Missouri Summer Jun-Sep	Actual Missouri Non-Summer Oct-May	WN Missouri Non-Summer Oct-May	Actual Missouri Total Jan -Dec	WN Missouri Total Jan -Dec	Actual Kansas Summer Jun-Sep	WN Kansas Summer Jun-Sep	Actual Kansas Non-Summer Oct-May	WN Kansas Non-Summer Oct-May	Actual Kansas Total Jan -Dec	WN Kansas Total Jan -Dec	Actual System Summer Jun-Sep	WN System Summer Jun-Sep	Actual System Non-Summer Oct-May	WN System Non-Summer Oct-May	Actual System Total Jan -Dec	WN System Total Jan -Dec
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		
2002																		
2003																		
2004																		
2005																		
2006	7.0	6.6	11.0	11.3	18.0	17.9	6.4	6.1	9.8	10.1	16.2	16.2	13.4	12.7	20.8	21.4	34.2	34.1
2007	6.4	6.1	10.5	10.3	16.9	16.4	5.9	5.7	9.6	9.4	15.5	15.1	12.3	11.8	20.1	19.7	32.4	31.5
2008	5.9	6.1	10.4	10.2	16.3	16.3	5.5	5.6	9.6	9.5	15.1	15.1	11.4	11.6	20.0	19.7	31.4	31.3
2009	5.6	5.8	9.9	9.9	15.5	15.8	5.3	5.6	9.4	9.4	14.7	15.0	10.9	11.4	19.3	19.3	30.2	30.7
2010	6.0	5.7	10.2	10.0	16.2	15.7	5.8	5.5	9.5	9.3	15.3	14.8	11.8	11.1	19.7	19.3	31.5	30.5
2011	5.8	5.7	10.1	9.9	15.9	15.6	5.5	5.4	9.3	9.2	14.8	14.6	11.3	11.1	19.4	19.1	30.7	30.2
06-'10	-3.8%	-3.8%	-1.9%	-2.9%	-2.6%	-3.3%	-2.4%	-2.7%	-0.8%	-2.0%	-1.4%	-2.3%	-3.1%	-3.3%	-1.3%	-2.5%	-2.0%	-2.8%
10-'11	-3.3%	1.1%	-1.0%	-1.4%	-1.9%	-0.5%	-5.2%	-0.9%	-2.1%	-1.5%	-3.3%	-1.3%	-4.2%	0.1%	-1.5%	-1.5%	-2.5%	-0.9%
06-'11	-3.7%	-2.9%	-1.7%	-2.6%	-2.5%	-2.7%	-3.0%	-2.3%	-1.0%	-1.9%	-1.8%	-2.1%	-3.4%	-2.6%	-1.4%	-2.3%	-2.1%	-2.4%



Plot 3A-11 Missouri & Kansas Medium General Service MWH Use Per Customer
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer Jun-Sep	WN Missouri Summer Jun-Sep	Actual Missouri Non-Summer Oct-May	WN Missouri Non-Summer Oct-May	Actual Missouri Total Jan -Dec	WN Missouri Total Jan -Dec	Actual Kansas Summer Jun-Sep	WN Kansas Summer Jun-Sep	Actual Kansas Non-Summer Oct-May	WN Kansas Non-Summer Oct-May	Actual Kansas Total Jan -Dec	WN Kansas Total Jan -Dec	Actual System Summer Jun-Sep	WN System Summer Jun-Sep	Actual System Non-Summer Oct-May	WN System Non-Summer Oct-May	Actual System Total Jan -Dec	WN System Total Jan -Dec
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		
2002																		
2003																		
2004																		
2005																		
2006	81.9	78.4	130.4	133.2	212.2	211.7	74.1	71.1	114.9	117.4	189.0	188.5	155.9	149.5	245.3	250.6	401.2	400.1
2007	83.4	81.0	137.0	134.2	220.4	215.2	73.9	71.6	119.5	116.7	193.4	188.3	157.3	152.6	256.5	250.9	413.8	403.5
2008	77.2	78.2	135.8	134.7	213.0	212.9	69.4	70.4	116.6	115.8	186.0	186.2	146.6	148.7	252.4	250.4	399.0	399.1
2009	73.0	75.2	124.7	125.1	197.7	200.3	66.5	68.8	111.6	111.9	178.1	180.8	139.5	144.0	236.3	237.0	375.8	381.1
2010	79.0	75.6	128.9	127.0	207.9	202.6	72.5	69.2	112.7	111.0	185.2	180.1	151.5	144.8	241.5	238.0	393.0	382.7
2011	76.8	75.7	129.7	128.0	206.5	203.8	69.9	68.7	112.1	110.8	182.0	179.5	146.7	144.4	241.8	238.8	388.5	383.3

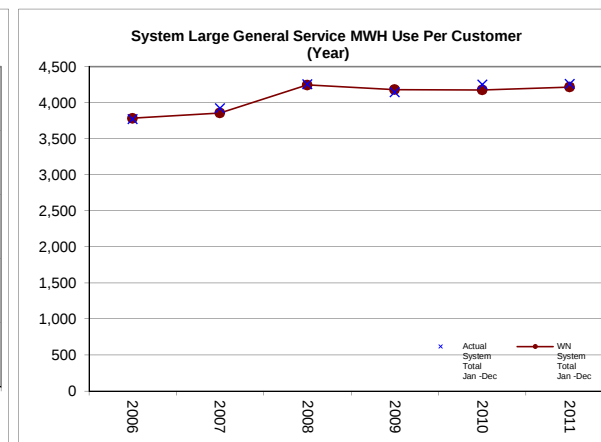
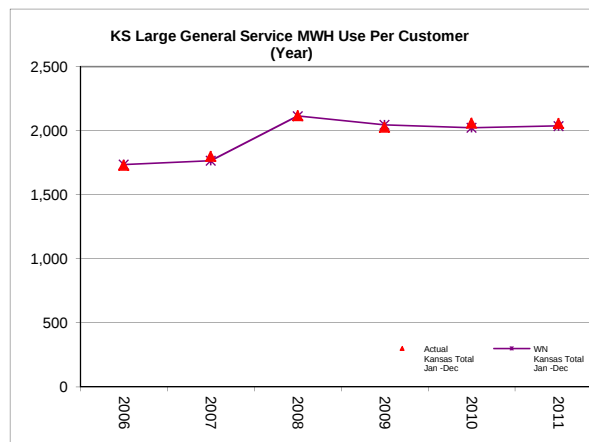
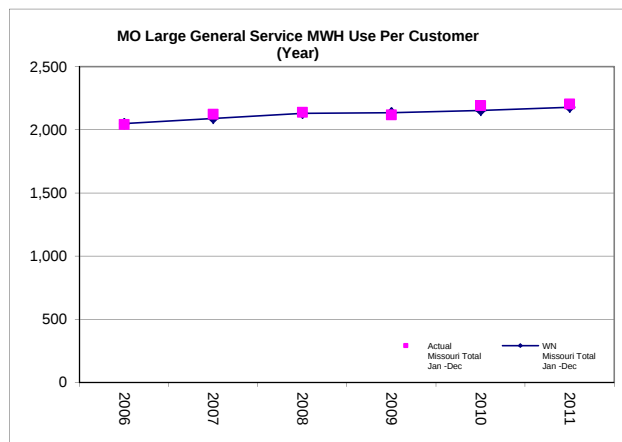
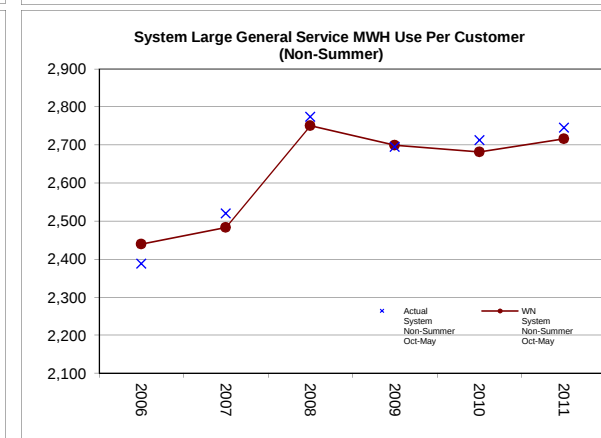
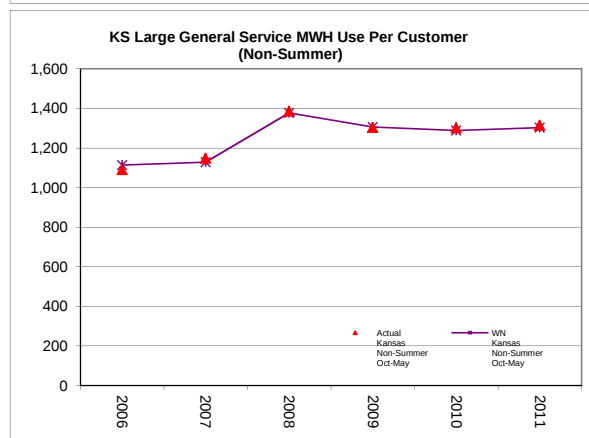
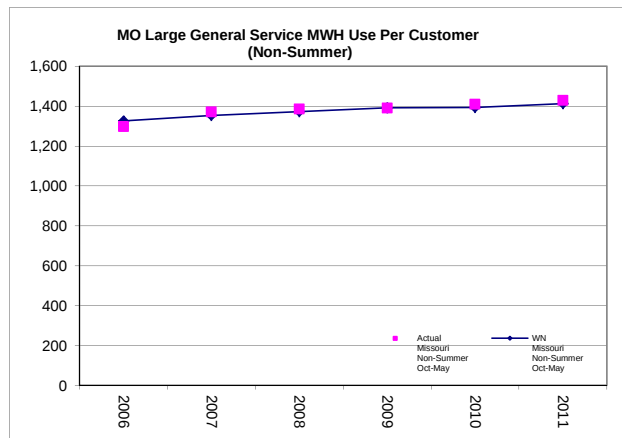
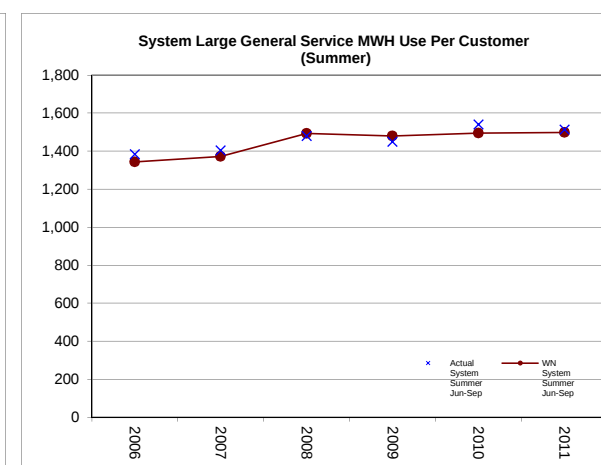
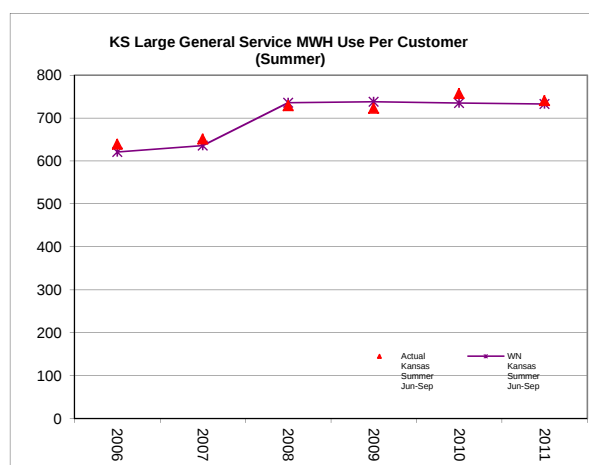
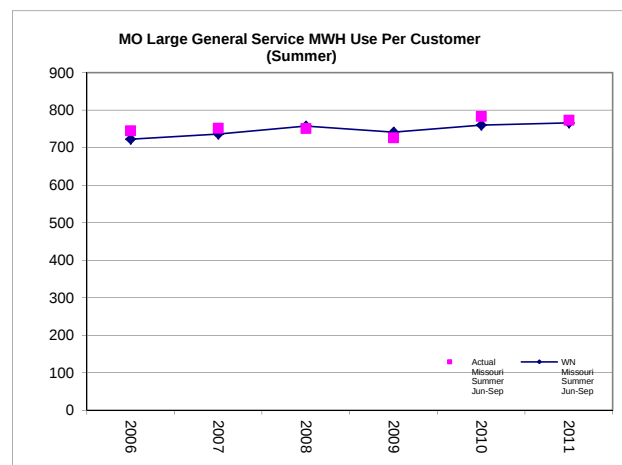
06-'10	-0.9%	-0.9%	-0.3%	-1.2%	-0.5%	-1.1%	-0.5%	-0.7%	-0.5%	-1.4%	-0.5%	-1.1%	-0.7%	-0.8%	-0.4%	-1.3%	-0.5%	-1.1%
10-'11	-2.7%	0.2%	0.7%	0.8%	-0.6%	0.6%	-3.6%	-0.7%	-0.5%	-0.1%	-1.7%	-0.3%	-3.2%	-0.2%	0.1%	0.4%	-1.1%	0.2%
06-'11	-1.3%	-0.7%	-0.1%	-0.8%	-0.5%	-0.8%	-1.1%	-0.7%	-0.5%	-1.1%	-0.7%	-1.0%	-1.2%	-0.7%	-0.3%	-1.0%	-0.6%	-0.9%



Plot 3A-12 Missouri & Kansas Large General Service MWH Use Per Customer
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer Jun-Sep	WN Missouri Summer Jun-Sep	Actual Missouri Non-Summer Oct-May	WN Missouri Non-Summer Oct-May	Actual Missouri Total Jan -Dec	WN Missouri Total Jan -Dec	Actual Kansas Summer Jun-Sep	WN Kansas Summer Jun-Sep	Actual Kansas Non-Summer Oct-May	WN Kansas Non-Summer Oct-May	Actual Kansas Total Jan -Dec	WN Kansas Total Jan -Dec	Actual System Summer Jun-Sep	WN System Summer Jun-Sep	Actual System Non-Summer Oct-May	WN System Non-Summer Oct-May	Actual System Total Jan -Dec	WN System Total Jan -Dec
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		
2002																		
2003																		
2004																		
2005																		
2006	744.6	722.1	1,296.9	1,326.2	2,041.5	2,048.3	639.7	621.1	1,090.9	1,113.3	1,730.6	1,734.4	1,384.2	1,343.2	2,387.8	2,439.5	3,772.0	3,782.7
2007	751.4	735.8	1,370.9	1,354.2	2,122.3	2,090.0	651.7	635.8	1,149.5	1,129.1	1,801.2	1,765.0	1,403.1	1,371.6	2,520.5	2,483.4	3,923.6	3,855.0
2008	750.6	757.6	1,386.4	1,372.4	2,137.0	2,129.9	728.7	735.5	1,388.0	1,378.3	2,116.7	2,113.8	1,479.3	1,493.1	2,774.5	2,750.7	4,253.7	4,243.7
2009	726.2	741.4	1,390.5	1,392.7	2,116.6	2,134.1	723.1	738.3	1,304.6	1,306.8	2,027.7	2,045.1	1,449.3	1,479.7	2,695.1	2,699.5	4,144.4	4,179.1
2010	782.7	760.0	1,409.3	1,393.3	2,192.0	2,153.2	757.4	734.7	1,303.9	1,288.7	2,061.3	2,023.4	1,540.1	1,494.7	2,713.2	2,681.9	4,253.3	4,176.6
2011	772.8	765.8	1,429.7	1,412.4	2,202.5	2,178.2	740.8	732.9	1,315.8	1,303.5	2,056.6	2,036.3	1,513.6	1,498.7	2,745.5	2,715.9	4,259.1	4,214.6

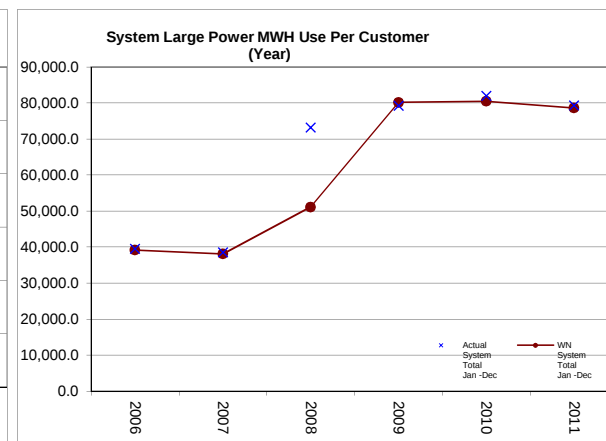
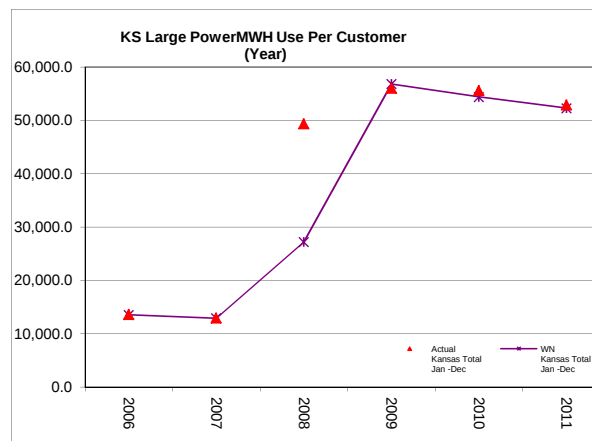
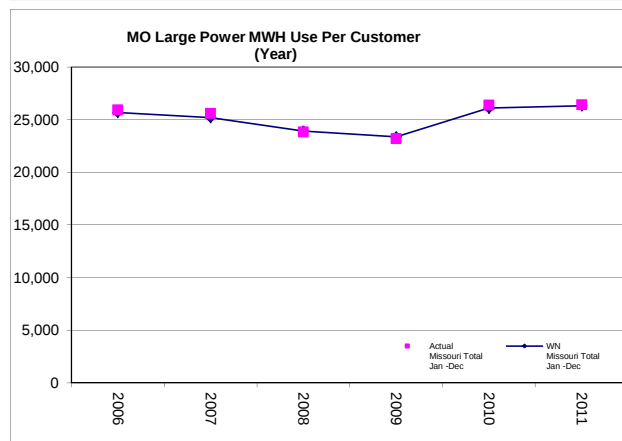
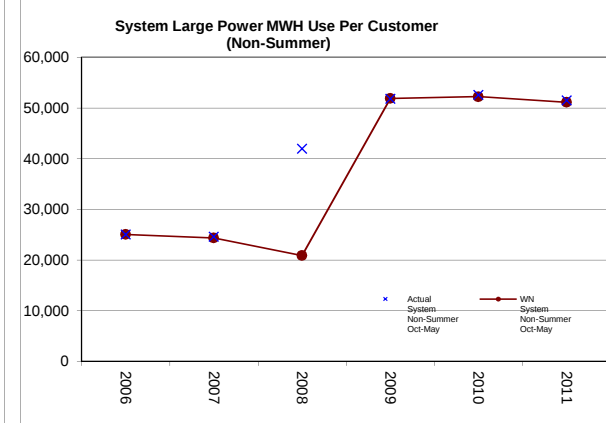
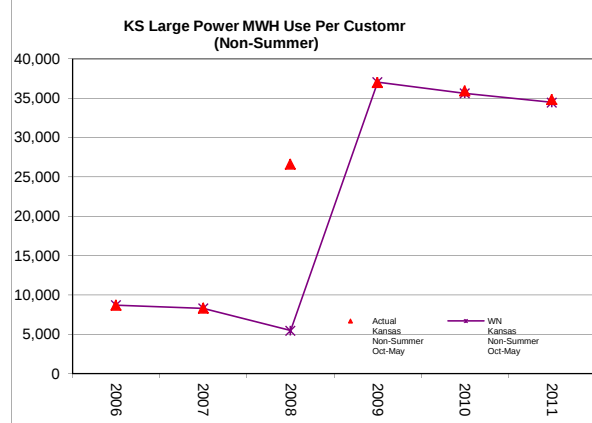
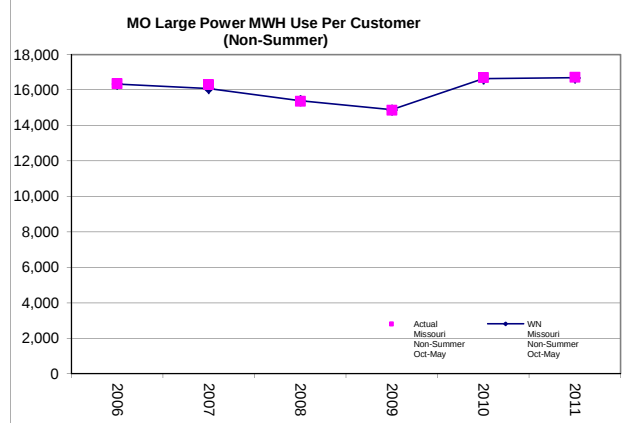
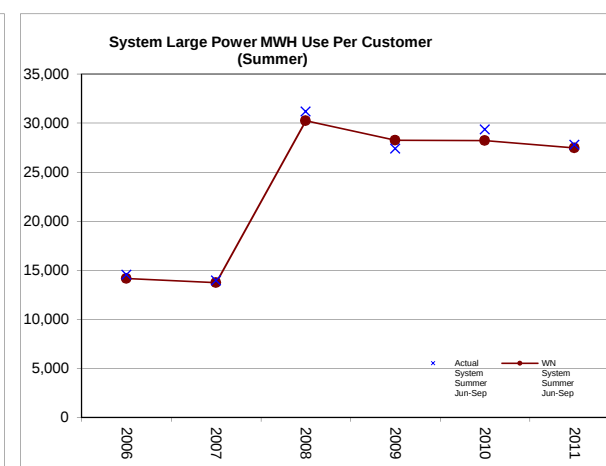
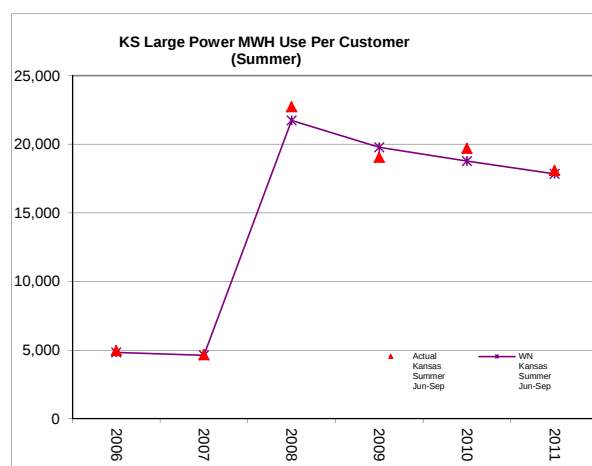
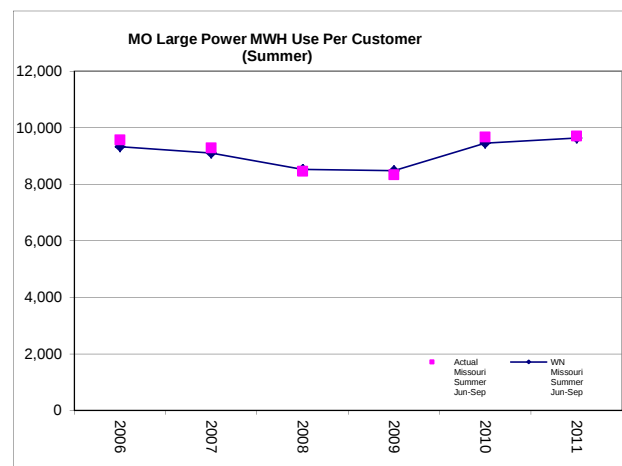
06-'10	1.3%	1.3%	2.1%	1.2%	1.8%	1.3%	4.3%	4.3%	4.6%	3.7%	4.5%	3.9%	2.7%	2.7%	3.2%	2.4%	3.0%	2.5%
10-'11	-1.3%	0.8%	1.4%	1.4%	0.5%	1.2%	-2.2%	-0.2%	0.9%	1.1%	-0.2%	0.6%	-1.7%	0.3%	1.2%	1.3%	0.1%	0.9%
06-'11	0.7%	1.2%	2.0%	1.3%	1.5%	1.2%	3.0%	3.4%	3.8%	3.2%	3.5%	3.3%	1.8%	2.2%	2.8%	2.2%	2.5%	2.2%



**Plot 3A-13 Missouri & Kansas Large Power MWH Use Per Customer
(Actual vs. Weather Normalized)**

Year	Actual Missouri Summer Jun-Sep	WN Missouri Summer Jun-Sep	Actual Missouri Non-Summer Oct-May	WN Missouri Non-Summer Oct-May	Actual Missouri Total Jan -Dec	WN Missouri Total Jan -Dec	Actual Kansas Summer Jun-Sep	WN Kansas Summer Jun-Sep	Actual Kansas Non-Summer Oct-May	WN Kansas Non-Summer Oct-May	Actual Kansas Total Jan -Dec	WN Kansas Total Jan -Dec	Actual System Summer Jun-Sep	WN System Summer Jun-Sep	Actual System Non-Summer Oct-May	WN System Non-Summer Oct-May	Actual System Total Jan -Dec	WN System Total Jan -Dec
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1996																		
1997																		
1998																		
1999																		
2000																		
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2002																		
2003																		
2004																		
2005																		
2006	9,567.2	9,329.4	16,344.1	16,339.5	25,911.3	25,668.9	4,965.6	4,841.4	8,673.3	8,677.1	13,638.9	13,518.5	14,532.8	14,170.8	25,017.4	25,016.6	39,550.2	39,187.3
2007	9,286.1	9,108.8	16,302.0	16,072.6	25,588.1	25,181.4	4,672.5	4,626.4	8,309.4	8,273.3	12,982.0	12,899.7	13,958.6	13,735.2	24,611.4	24,345.9	38,570.0	38,081.1
2008	8,457.4	8,527.6	15,364.8	15,388.1	23,822.2	23,915.7	22,726.6	21,722.7	26,622.4	5,461.9	49,349.0	27,184.6	31,183.9	30,250.3	41,987.2	20,850.1	73,171.2	51,100.3
2009	8,339.4	8,482.0	14,858.5	14,879.8	23,197.9	23,361.9	19,059.3	19,778.6	36,973.2	37,024.0	56,032.5	56,802.6	27,398.7	28,260.7	51,831.7	51,903.8	79,230.4	80,164.5
2010	9,667.5	9,458.0	16,699.8	16,630.0	26,367.3	26,088.0	19,691.3	18,773.9	35,911.3	35,596.1	55,602.5	54,370.0	29,358.8	28,231.9	52,611.0	52,226.1	81,969.8	80,458.0
2011	9,703.3	9,640.5	16,715.6	16,685.4	26,418.9	26,325.8	18,094.1	17,838.1	34,808.4	34,439.8	52,902.5	52,278.0	27,797.4	27,478.6	51,524.0	51,125.2	79,321.5	78,603.8

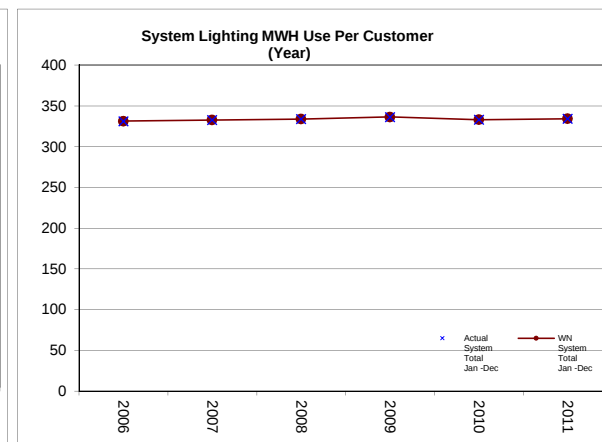
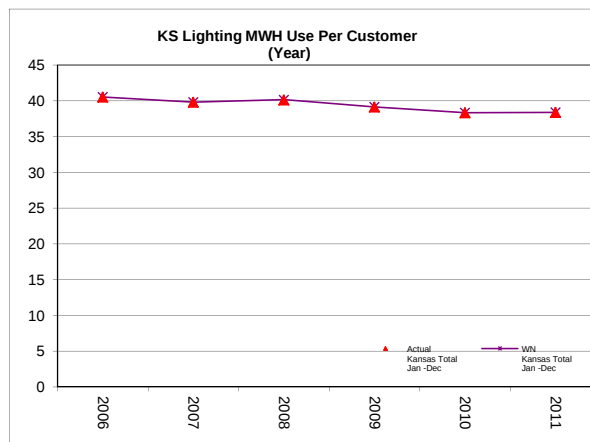
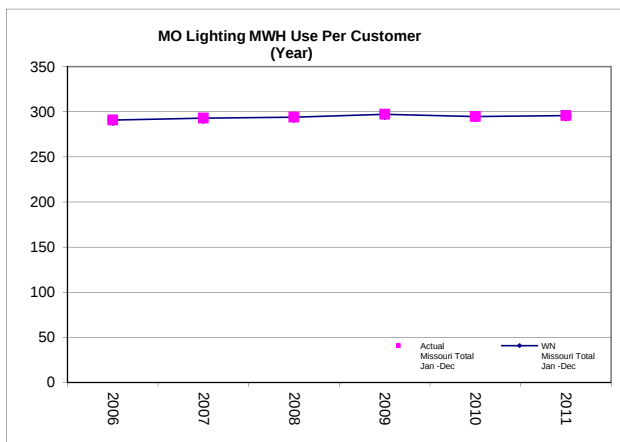
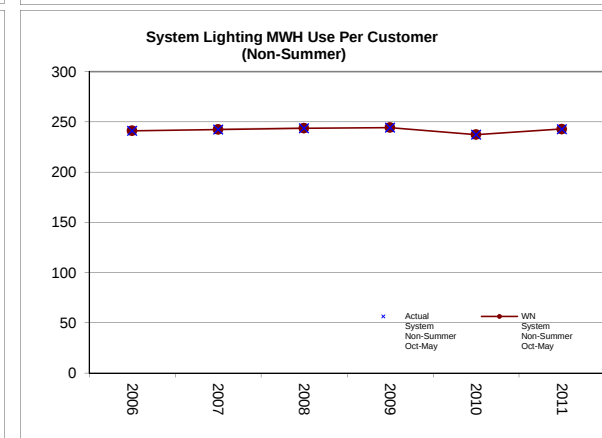
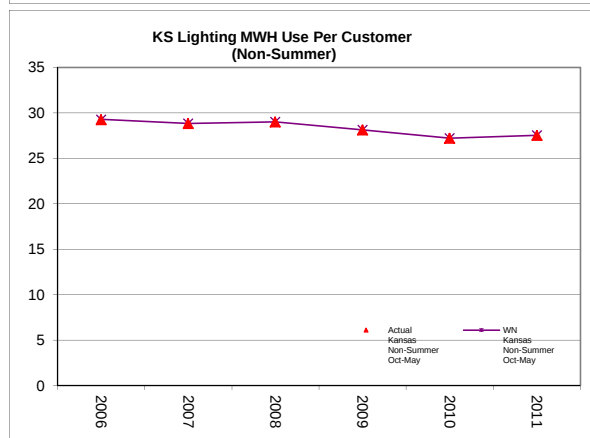
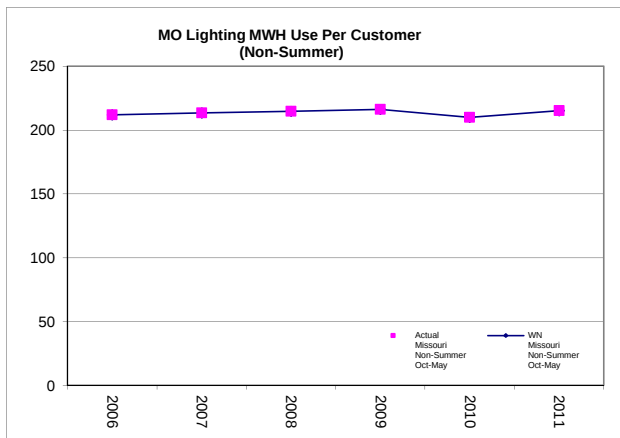
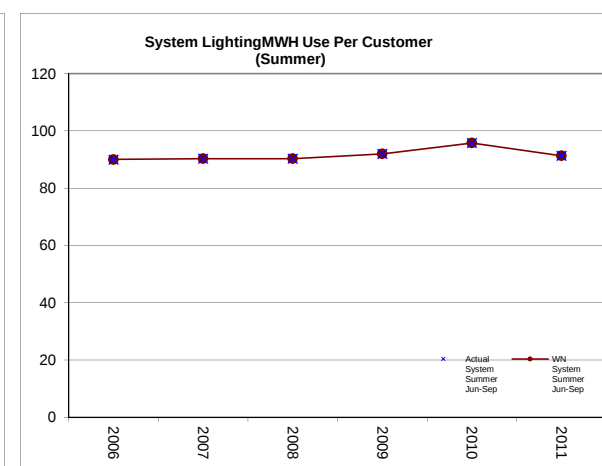
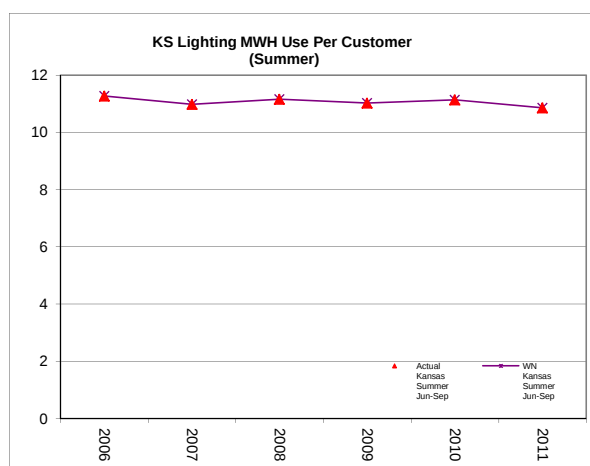
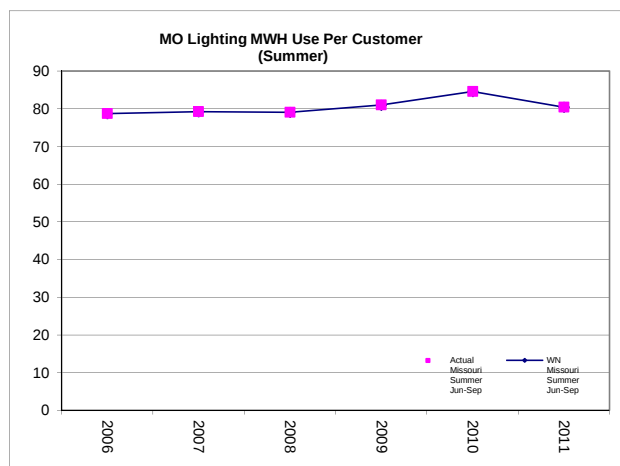
06-'10	0.3%	0.3%	0.5%	0.4%	0.4%	0.4%	41.1%	40.3%	42.6%	42.3%	42.1%	41.6%	19.2%	18.8%	20.4%	20.2%	20.0%	19.7%
10-'11	0.4%	1.9%	0.1%	0.3%	0.2%	0.9%	-8.1%	-5.0%	-3.1%	-3.2%	-4.9%	-3.8%	-5.3%	-2.7%	-2.1%	-2.1%	-3.2%	-2.3%
06-'11	0.3%	0.7%	0.5%	0.4%	0.4%	0.5%	29.5%	29.8%	32.0%	31.7%	31.1%	31.1%	13.8%	14.2%	15.5%	15.4%	14.9%	14.9%



Plot 3A-14 Missouri & Kansas Lighting MWH Use Per Customer
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer Jun-Sep	WN Missouri Summer Jun-Sep	Actual Missouri Non-Summer Oct-May	WN Missouri Non-Summer Oct-May	Actual Missouri Total Jan -Dec	WN Missouri Total Jan -Dec	Actual Kansas Summer Jun-Sep	WN Kansas Summer Jun-Sep	Actual Kansas Non-Summer Oct-May	WN Kansas Non-Summer Oct-May	Actual Kansas Total Jan -Dec	WN Kansas Total Jan -Dec	Actual System Summer Jun-Sep	WN System Summer Jun-Sep	Actual System Non-Summer Oct-May	WN System Non-Summer Oct-May	Actual System Total Jan -Dec	WN System Total Jan -Dec
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		
2002																		
2003																		
2004																		
2005																		
2006	78.8	78.8	212.0	212.0	290.7	290.7	11.3	11.3	29.3	29.3	40.5	40.6	90.0	90.0	241.2	241.2	331.2	331.3
2007	79.3	79.3	213.6	213.6	292.9	292.9	11.0	11.0	28.9	28.9	39.8	39.8	90.3	90.3	242.5	242.5	332.7	332.7
2008	79.1	79.1	214.7	214.7	293.8	293.8	11.2	11.2	29.0	29.0	40.2	40.2	90.3	90.3	243.7	243.7	334.0	334.0
2009	81.0	81.0	216.2	216.2	297.2	297.2	11.0	11.0	28.2	28.1	39.2	39.2	92.0	92.0	244.4	244.4	336.4	336.4
2010	84.6	84.6	210.1	210.1	294.7	294.7	11.1	11.1	27.2	27.2	38.4	38.4	95.7	95.8	237.3	237.3	333.1	333.1
2011	80.4	80.4	215.3	215.4	295.7	295.8	10.9	10.9	27.6	27.5	38.4	38.4	91.3	91.3	242.9	242.9	334.2	334.2

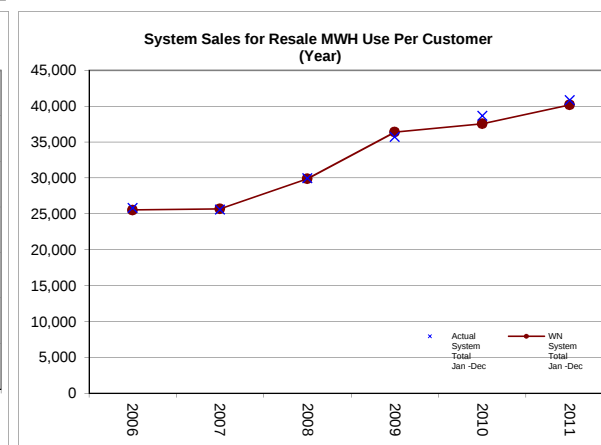
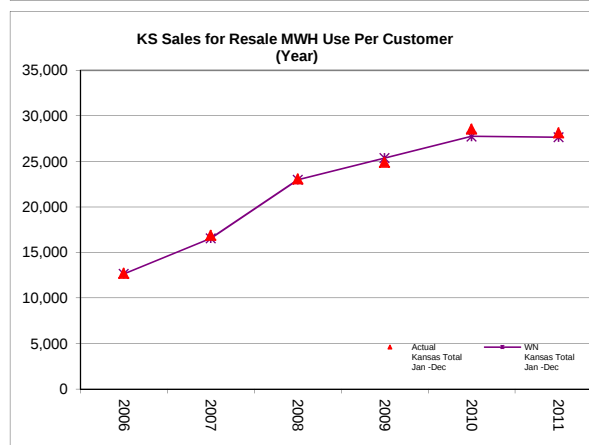
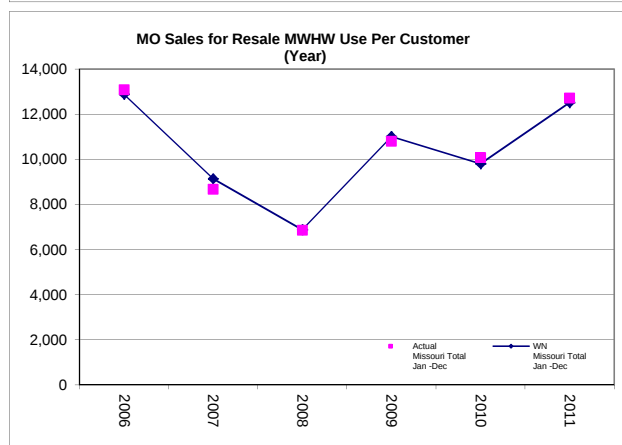
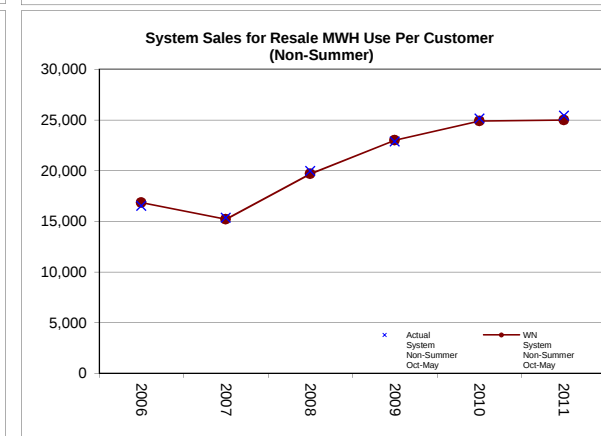
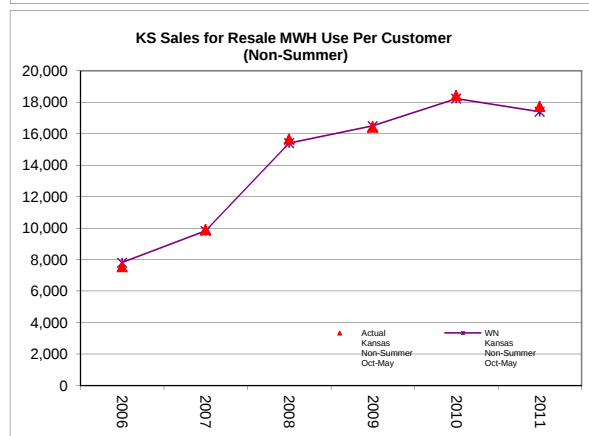
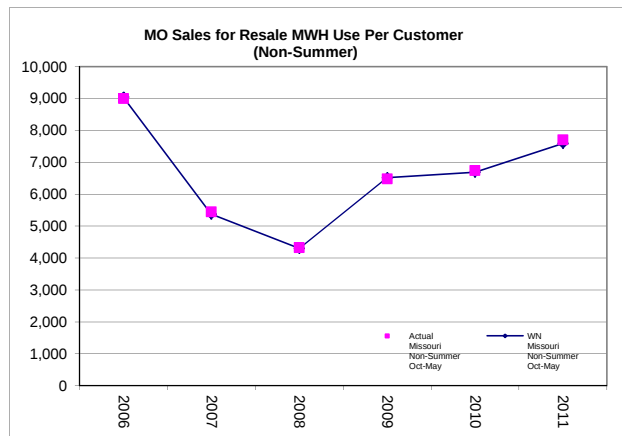
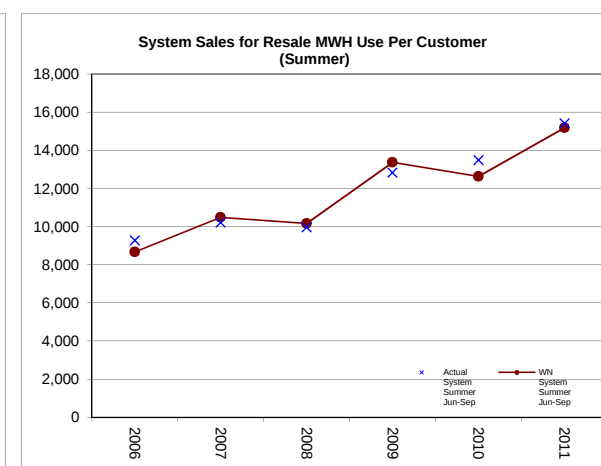
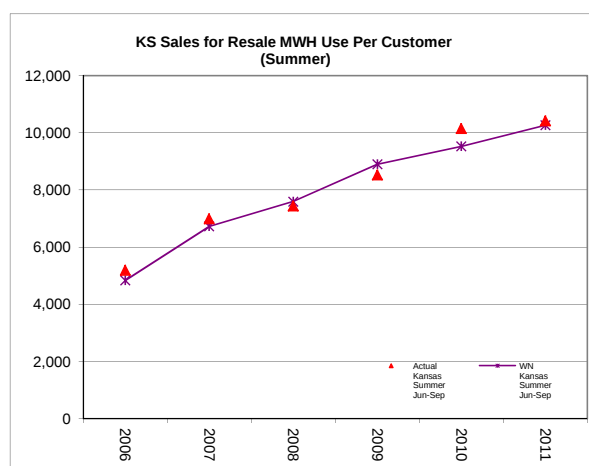
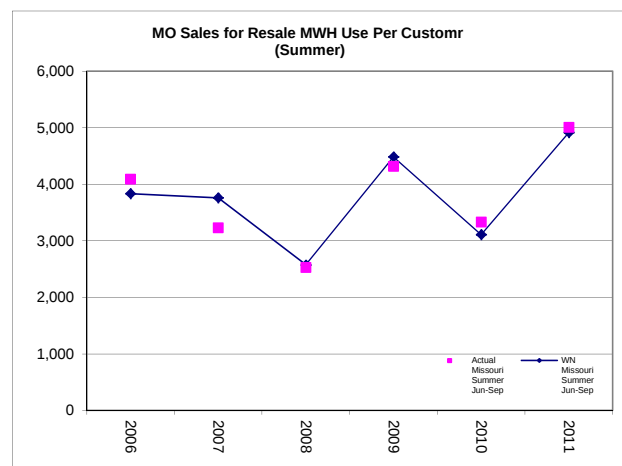
06-'10	1.8%	1.8%	-0.2%	-0.2%	0.3%	0.3%	-0.3%	-0.3%	-1.8%	-1.8%	-1.4%	-1.4%	1.6%	1.6%	-0.4%	-0.4%	0.1%	0.1%
10-'11	-4.9%	-5.0%	2.5%	2.5%	0.4%	0.4%	-2.5%	-2.5%	1.2%	1.2%	0.1%	0.1%	-4.7%	-4.7%	2.3%	2.4%	0.3%	0.3%
06-'11	0.4%	0.4%	0.3%	0.3%	0.3%	0.3%	-0.7%	-0.7%	-1.2%	-1.2%	-1.1%	-1.1%	0.3%	0.3%	0.1%	0.1%	0.2%	0.2%



Plot 3A-15 Missouri & Kansas Sales for Resale MWH Use Per Customer
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer Jun-Sep	WN Missouri Summer Jun-Sep	Actual Missouri Non-Summer Oct-May	WN Missouri Non-Summer Oct-May	Actual Missouri Total Jan -Dec	WN Missouri Total Jan -Dec	Actual Kansas Summer Jun-Sep	WN Kansas Summer Jun-Sep	Actual Kansas Non-Summer Oct-May	WN Kansas Non-Summer Oct-May	Actual Kansas Total Jan -Dec	WN Kansas Total Jan -Dec	Actual System Summer Jun-Sep	WN System Summer Jun-Sep	Actual System Non-Summer Oct-May	WN System Non-Summer Oct-May	Actual System Total Jan -Dec	WN System Total Jan -Dec
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		
2002																		
2003																		
2004																		
2005																		
2006	4,087.2	3,832.0	8,990.9	9,048.0	13,078.0	12,880.0	5,189.6	4,835.2	7,548.9	7,810.0	12,738.4	12,645.2	9,276.8	8,667.2	16,539.7	16,858.1	25,816.5	25,525.3
2007	3,230.5	3,763.0	5,442.2	5,375.6	8,672.6	9,138.7	6,995.2	6,721.6	9,916.3	9,823.2	16,911.5	16,544.8	10,225.7	10,484.6	15,358.4	15,198.9	25,584.1	25,683.5
2008	2,524.5	2,575.0	4,323.5	4,301.3	6,848.0	6,876.3	7,443.2	7,593.4	15,660.7	15,396.1	23,103.9	22,989.5	9,967.7	10,168.3	19,984.2	19,697.5	29,951.9	29,865.8
2009	4,317.9	4,485.8	6,479.4	6,521.0	10,797.3	11,006.9	8,523.0	8,891.5	16,411.5	16,486.9	24,934.5	25,378.4	12,841.0	13,377.3	22,890.8	23,008.0	35,731.8	36,385.3
2010	3,332.7	3,111.5	6,741.1	6,689.2	10,073.7	9,800.8	10,152.2	9,519.3	18,427.6	18,221.3	28,579.7	27,740.6	13,484.8	12,630.9	25,168.6	24,910.5	38,653.5	37,541.4
2011	5,005.2	4,917.0	7,705.4	7,586.8	12,710.6	12,503.9	10,418.2	10,263.6	17,741.1	17,400.1	28,159.2	27,663.7	15,423.4	15,180.6	25,446.4	24,987.0	40,869.8	40,167.6

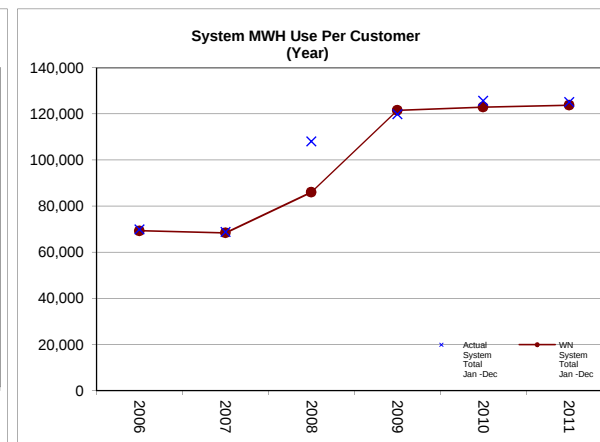
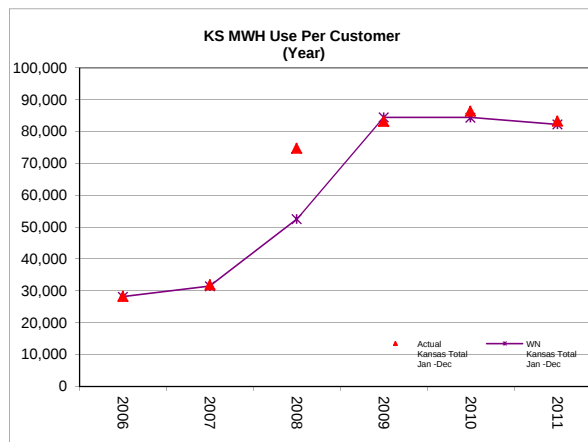
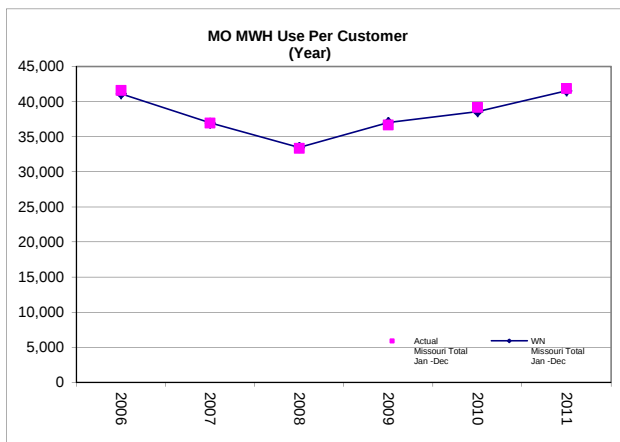
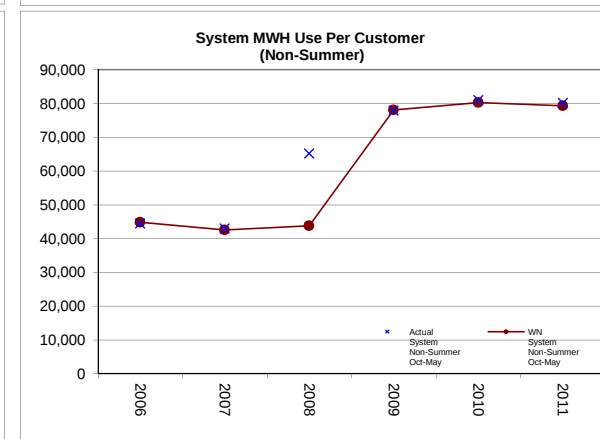
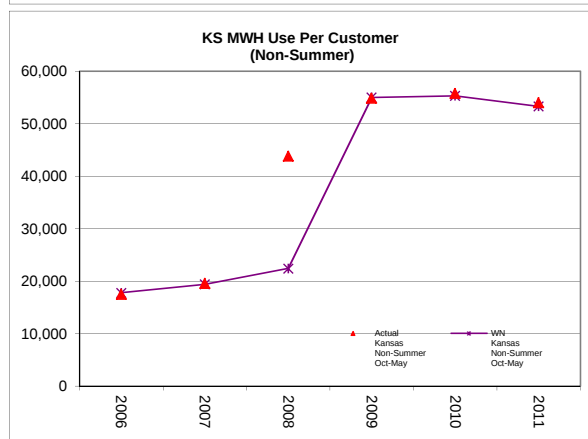
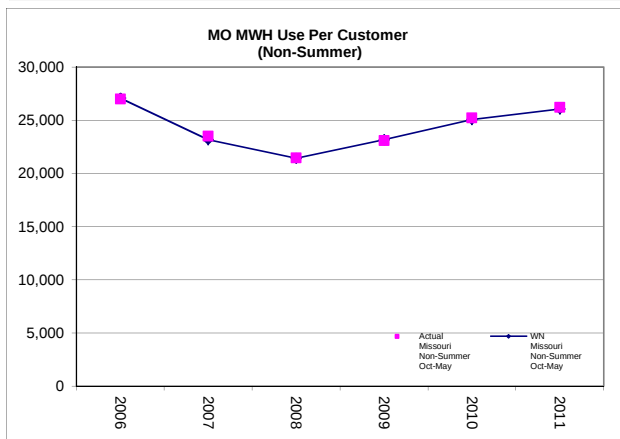
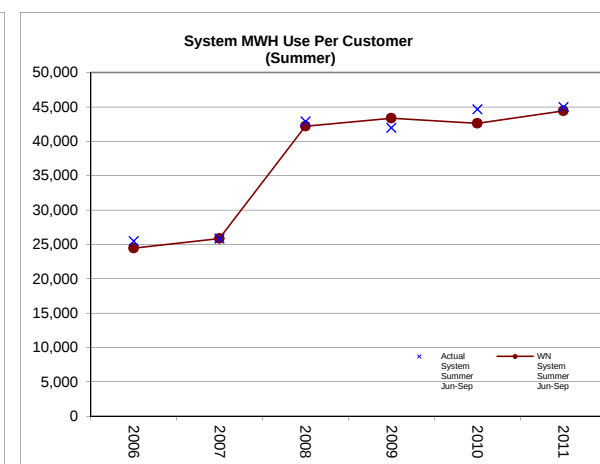
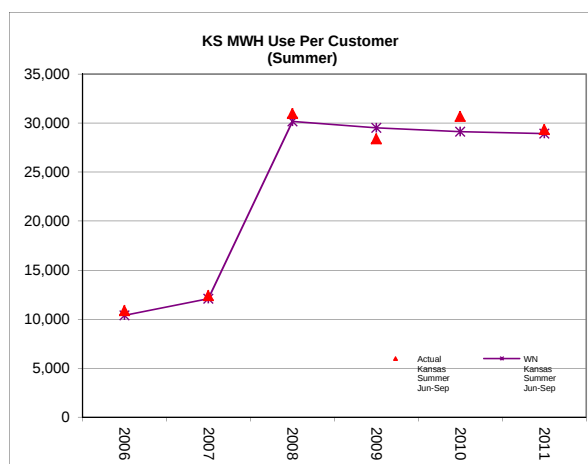
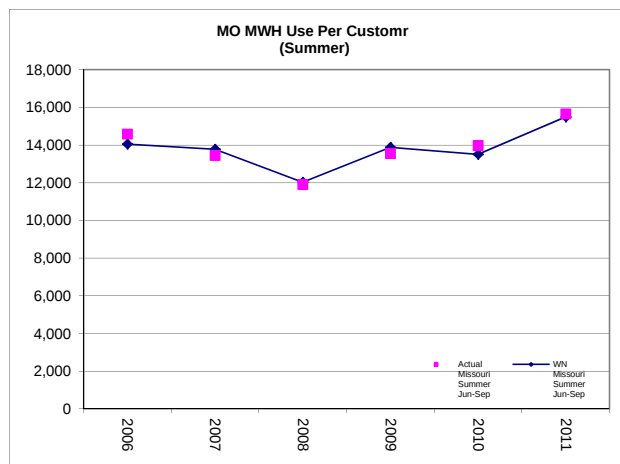
06-'10	-5.0%	-5.1%	-6.9%	-7.3%	-6.3%	-6.6%	18.3%	18.5%	25.0%	23.6%	22.4%	21.7%	9.8%	9.9%	11.1%	10.3%	10.6%	10.1%
10-'11	50.2%	58.0%	14.3%	13.4%	26.2%	27.6%	2.6%	7.8%	-3.7%	-4.5%	-1.5%	-0.3%	14.4%	20.2%	1.1%	0.3%	5.7%	7.0%
06-'11	4.1%	5.1%	-3.0%	-3.5%	-0.6%	-0.6%	15.0%	16.2%	18.6%	17.4%	17.2%	16.9%	10.7%	11.9%	9.0%	8.2%	9.6%	9.5%



**Plot 3A-16 Missouri & Kansas Total MWH Use Per Customer
(Actual vs. Weather Normalized)**

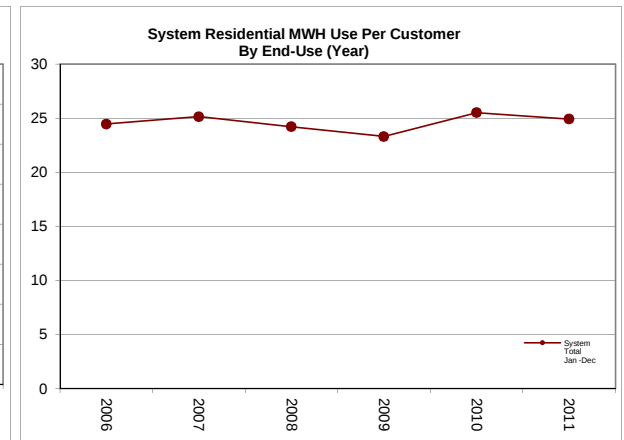
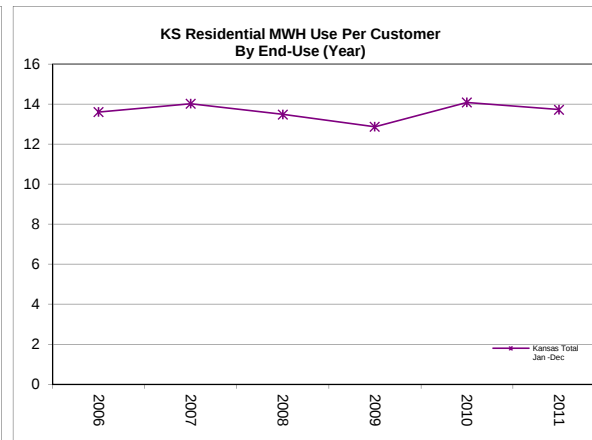
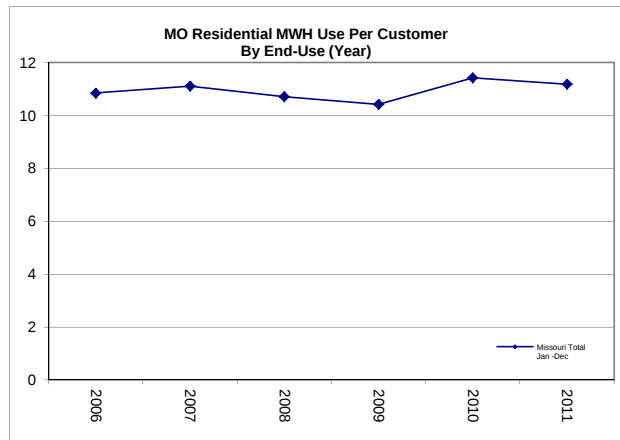
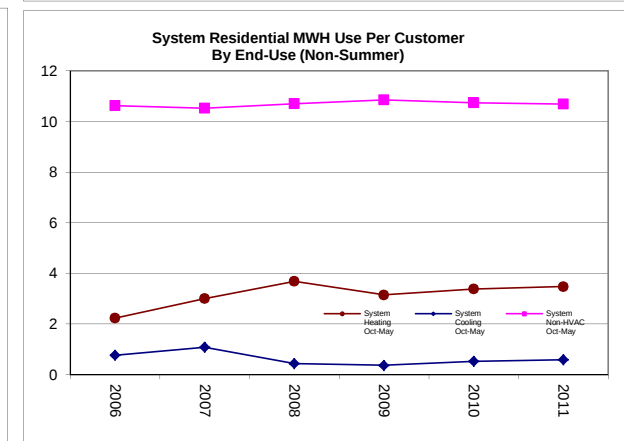
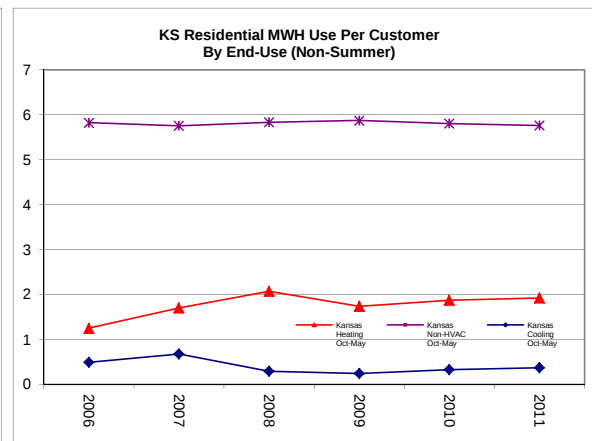
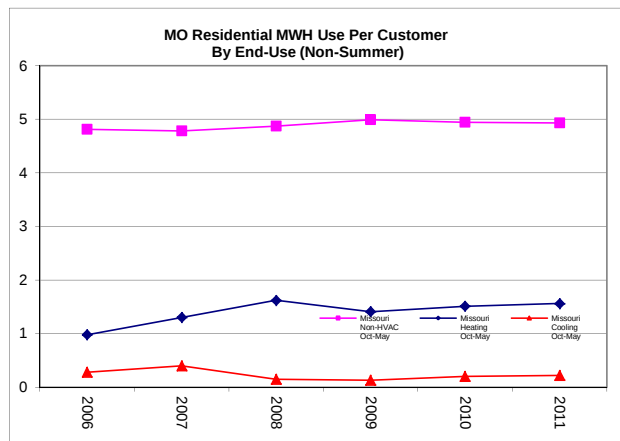
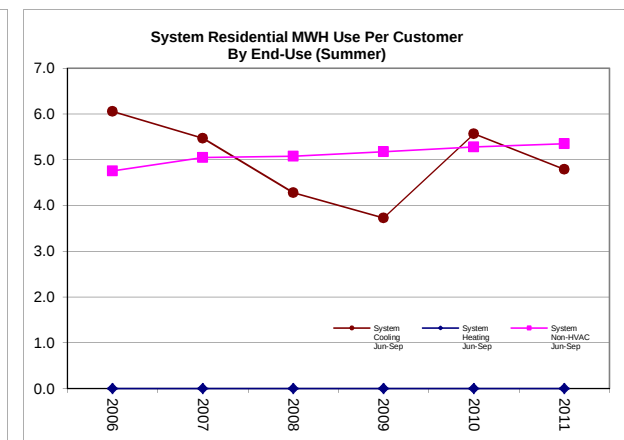
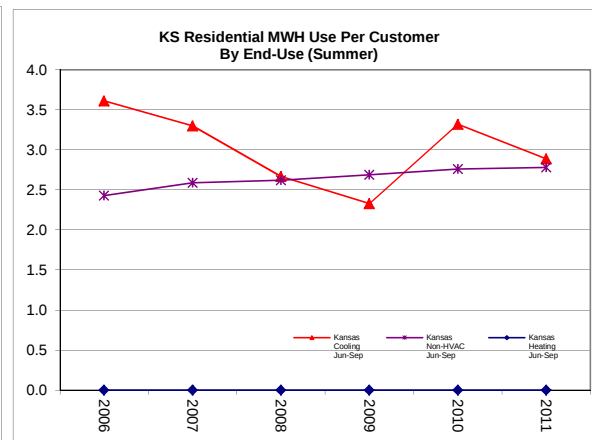
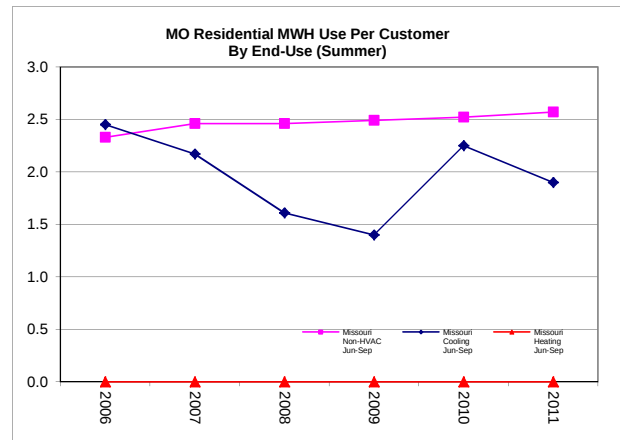
Year	Actual Missouri Summer Jun-Sep	WN Missouri Summer Jun-Sep	Actual Missouri Non-Summer Oct-May	WN Missouri Non-Summer Oct-May	Actual Missouri Total Jan -Dec	WN Missouri Total Jan -Dec	Actual Kansas Summer Jun-Sep	WN Kansas Summer Jun-Sep	Actual Kansas Non-Summer Oct-May	WN Kansas Non-Summer Oct-May	Actual Kansas Total Jan -Dec	WN Kansas Total Jan -Dec	Actual System Summer Jun-Sep	WN System Summer Jun-Sep	Actual System Non-Summer Oct-May	WN System Non-Summer Oct-May	Actual System Total Jan -Dec	WN System Total Jan -Dec
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		
2002																		
2003																		
2004																		
2005																		
2006	14,571.4	14,051.5	26,991.3	27,076.5	41,562.6	41,128.0	10,892.6	10,391.7	17,474.6	17,765.1	28,367.2	28,156.8	25,463.9	24,443.2	44,465.9	44,841.6	69,929.8	69,284.8
2007	13,441.6	13,778.2	23,482.7	23,166.9	36,924.3	36,945.2	12,416.1	12,077.5	19,541.3	19,388.6	31,957.4	31,466.1	25,857.7	25,855.8	43,024.0	42,555.5	68,881.7	68,411.3
2008	11,898.8	12,027.8	21,442.3	21,427.9	33,341.0	33,455.6	30,989.8	30,144.2	43,834.6	22,398.7	74,824.3	52,542.9	42,888.5	42,171.9	65,276.8	43,826.6	108,165.4	85,998.5
2009	13,546.9	13,875.6	23,085.7	23,151.4	36,632.6	37,027.0	28,393.3	29,499.3	54,846.2	54,975.1	83,239.6	84,474.4	41,940.2	43,374.9	77,932.0	78,126.5	119,872.2	121,501.4
2010	13,957.2	13,499.5	25,206.0	25,066.1	39,163.2	38,565.6	30,696.4	29,119.1	55,800.1	55,261.4	86,496.4	84,380.4	44,653.5	42,618.6	81,006.1	80,327.5	125,659.6	122,946.1
2011	15,648.8	15,489.5	26,212.5	26,044.4	41,861.3	41,533.8	29,345.0	28,924.9	54,022.3	53,298.8	83,367.3	82,223.7	44,993.8	44,414.3	80,234.8	79,343.2	125,228.6	123,757.5

06-'10	-1.1%	-1.0%	-1.7%	-1.9%	-1.5%	-1.6%	29.6%	29.4%	33.7%	32.8%	32.1%	31.6%	15.1%	14.9%	16.2%	15.7%	15.8%	15.4%
10-'11	12.1%	14.7%	4.0%	3.9%	6.9%	7.7%	-4.4%	-0.7%	-3.2%	-3.6%	-3.6%	-2.6%	0.8%	4.2%	-1.0%	-1.2%	-0.3%	0.7%
06-'11	1.4%	2.0%	-0.6%	-0.8%	0.1%	0.2%	21.9%	22.7%	25.3%	24.6%	24.1%	23.9%	12.1%	12.7%	12.5%	12.1%	12.4%	12.3%



Plot 3A-17 Missouri & Kansas Residential MWH Use Per Customer By End-Use

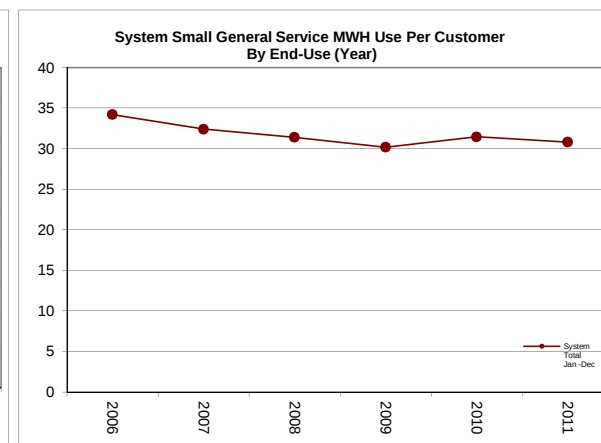
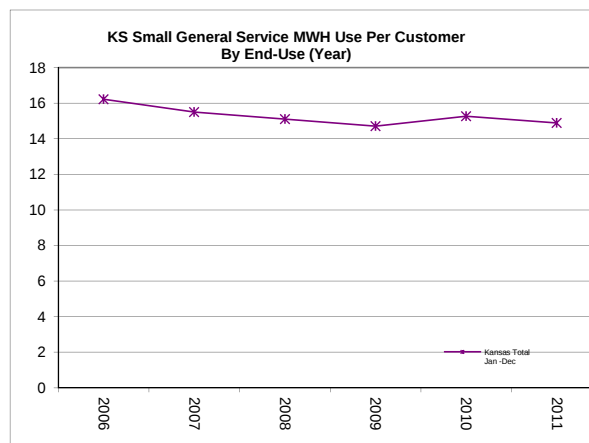
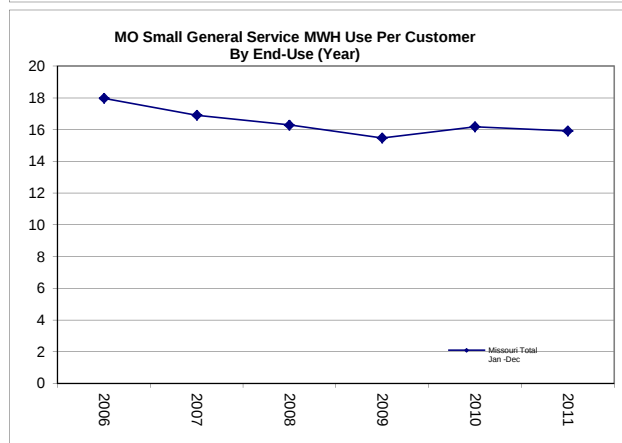
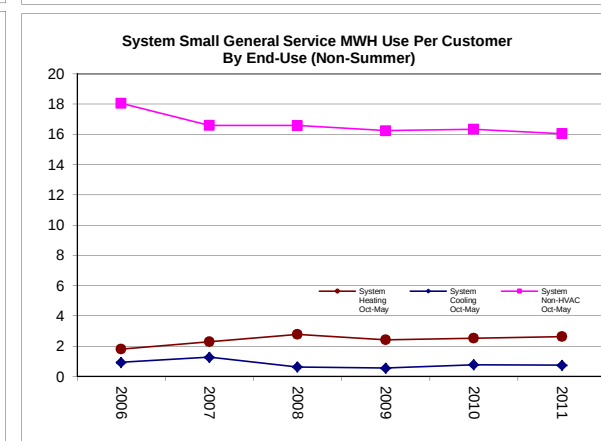
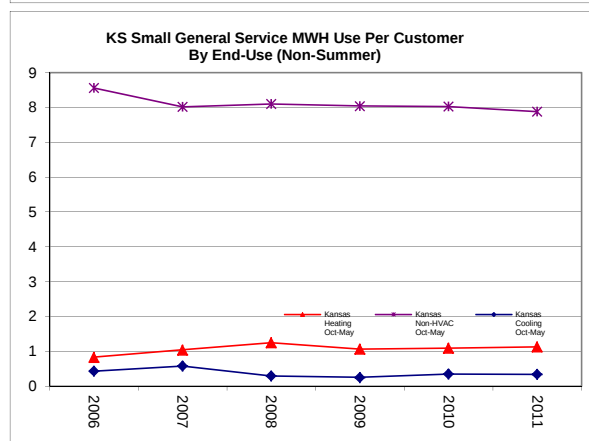
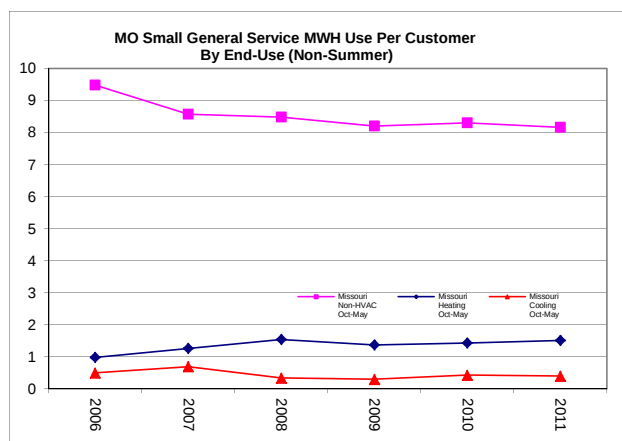
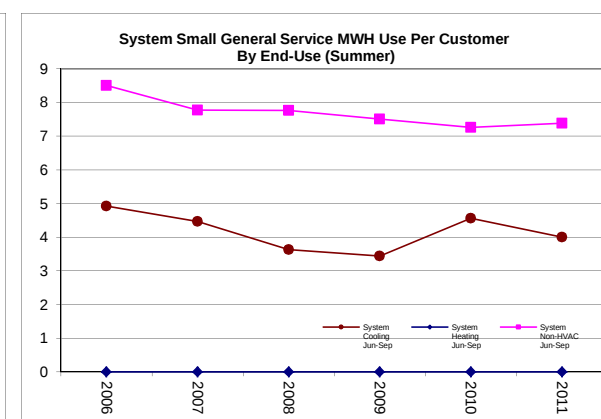
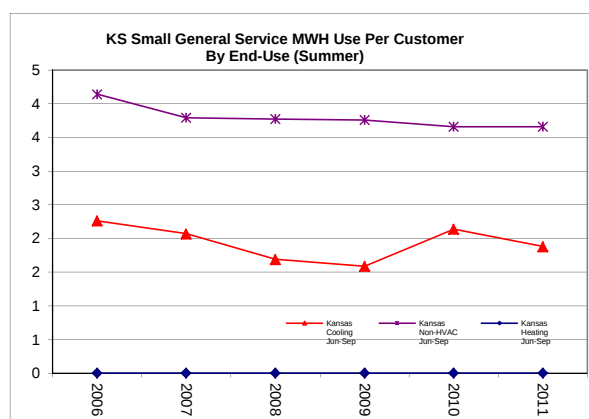
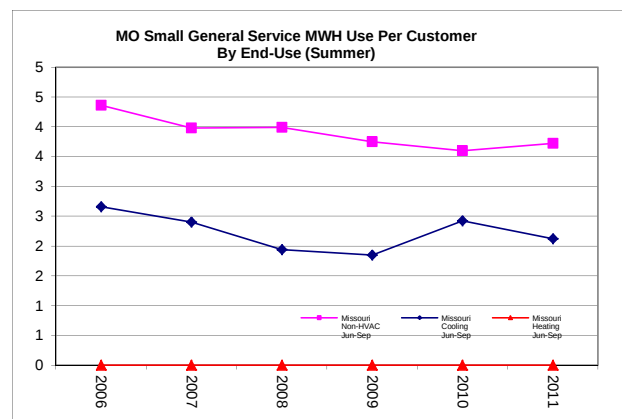
Year	Missouri Cooling	Missouri Cooling	Missouri Heating	Missouri Heating	Missouri Non-HVAC	Missouri Non-HVAC	Missouri Total	Kansas Cooling	Kansas Cooling	Kansas Heating	Kansas Heating	Kansas Non-HVAC	Kansas Non-HVAC	Kansas Total	System Cooling	System Cooling	System Heating	System Heating	System Non-HVAC	System Non-HVAC	System Total
	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jan -Dec	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jan -Dec	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jan -Dec
1995																					
1996																					
1997																					
1998																					
1999																					
2000																					
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2002																					
2003																					
2004																					
2005																					
2006	2.5	0.3	0.0	1.0	2.3	4.8	10.85	3.61	0.49	0.000	1.25	2.43	5.82	13.60	6.06	0.77	0.000	2.23	4.76	10.63	24.45
2007	2.2	0.4	0.0	1.3	2.5	4.8	11.11	3.30	0.68	0.000	1.70	2.59	5.75	14.02	5.47	1.08	0.000	3.00	5.05	10.53	25.13
2008	1.6	0.2	0.0	1.6	2.5	4.9	10.71	2.67	0.29	0.000	2.07	2.62	5.83	13.48	4.28	0.44	0.000	3.69	5.08	10.70	24.19
2009	1.4	0.1	0.0	1.4	2.5	5.0	10.42	2.33	0.24	0.000	1.74	2.69	5.87	12.87	3.73	0.37	0.000	3.15	5.18	10.86	23.29
2010	2.3	0.2	0.0	1.5	2.5	4.9	11.42	3.32	0.33	0.000	1.87	2.76	5.80	14.08	5.57	0.53	0.000	3.38	5.28	10.74	25.50
2011	1.9	0.2	0.0	1.6	2.6	4.9	11.18	2.89	0.37	0.000	1.92	2.78	5.76	13.72	4.79	0.59	0.000	3.48	5.35	10.69	24.90
06-'10	-2.1%	-8.1%	0.0%	11.4%	2.0%	0.7%	1.3%	-2.1%	-9.4%	0.0%	10.6%	3.2%	-0.1%	0.9%	-2.1%	-8.9%	0.0%	11.0%	2.6%	0.3%	1.1%
10-'11	-15.6%	10.0%	0.0%	3.3%	2.0%	-0.2%	-2.1%	-13.0%	12.1%	0.0%	2.7%	0.7%	-0.7%	-2.6%	-14.0%	11.3%	0.0%	3.0%	1.3%	-0.5%	-2.4%
06-'11	-5.0%	-4.7%	0.0%	9.7%	2.0%	0.5%	0.6%	-4.4%	-5.5%	0.0%	9.0%	2.7%	-0.2%	0.2%	-4.6%	-5.2%	0.0%	9.3%	2.4%	0.1%	0.4%



Plot 3A-18 Missouri & Kansas Small General Service MWH Use Per Customer By End-Use

Year	Missouri Cooling Jun-Sep	Missouri Cooling Oct-May	Missouri Heating Jun-Sep	Missouri Heating Oct-May	Missouri Non-HVAC Jun-Sep	Missouri Non-HVAC Oct-May	Missouri Total Jan -Dec	Kansas Cooling Jun-Sep	Kansas Cooling Oct-May	Kansas Heating Jun-Sep	Kansas Heating Oct-May	Kansas Non-HVAC Jun-Sep	Kansas Non-HVAC Oct-May	Kansas Total Jan -Dec	System Cooling Jun-Sep	System Cooling Oct-May	System Heating Jun-Sep	System Heating Oct-May	System Non-HVAC Jun-Sep	System Non-HVAC Oct-May	System Total Jan -Dec
1995																					
1996																					
1997																					
1998																					
1999																					
2000																					
2001																					
2002																					
2003																					
2004																					
2005																					
2006	2.66	0.50	0.0	0.98	4.36	9.48	17.98	2.26	0.43	0.000	0.83	4.14	8.56	16.22	4.92	0.93	0.00	1.81	8.50	18.04	34.20
2007	2.40	0.69	0.0	1.26	3.98	8.57	16.90	2.07	0.58	0.000	1.04	3.79	8.02	15.50	4.47	1.27	0.00	2.30	7.77	16.59	32.40
2008	1.94	0.34	0.0	1.54	3.99	8.48	16.29	1.69	0.29	0.000	1.25	3.77	8.10	15.10	3.63	0.63	0.00	2.79	7.76	16.58	31.39
2009	1.85	0.30	0.0	1.37	3.75	8.20	15.47	1.59	0.25	0.000	1.06	3.76	8.04	14.70	3.44	0.55	0.00	2.43	7.51	16.24	30.17
2010	2.42	0.43	0.0	1.43	3.60	8.30	16.18	2.14	0.35	0.000	1.09	3.66	8.03	15.27	4.56	0.78	0.00	2.52	7.26	16.33	31.45
2011	2.12	0.40	0.0	1.51	3.72	8.16	15.91	1.88	0.34	0.000	1.13	3.66	7.88	14.89	4.00	0.74	0.00	2.64	7.38	16.04	30.80

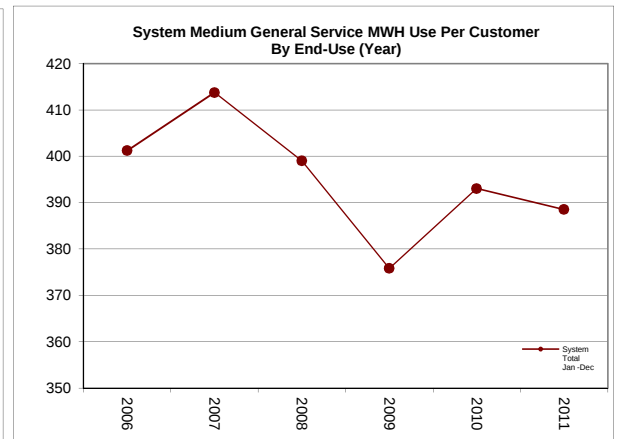
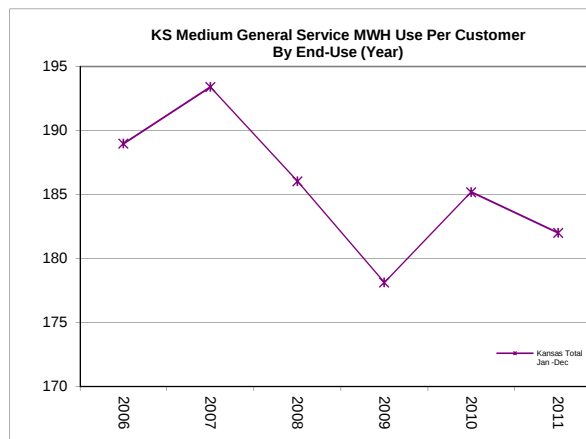
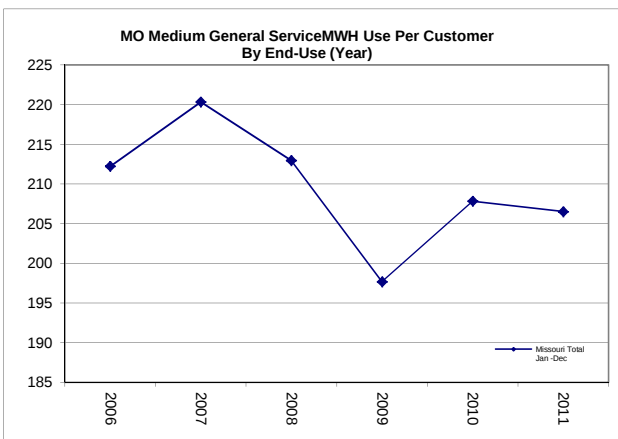
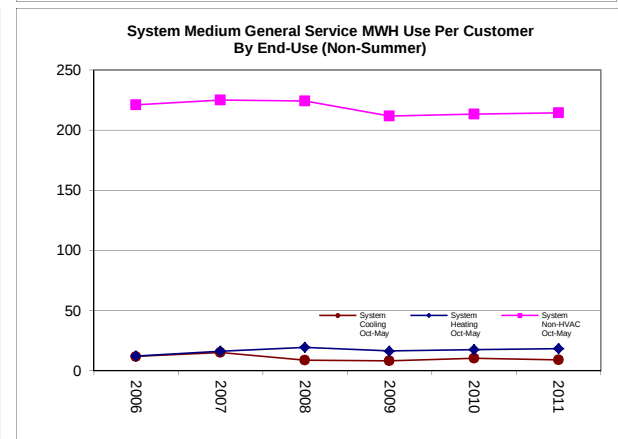
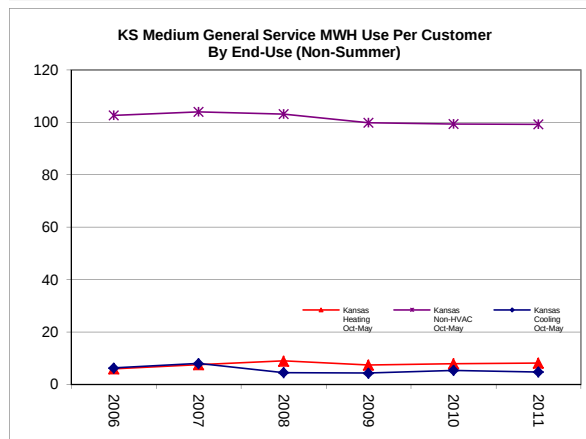
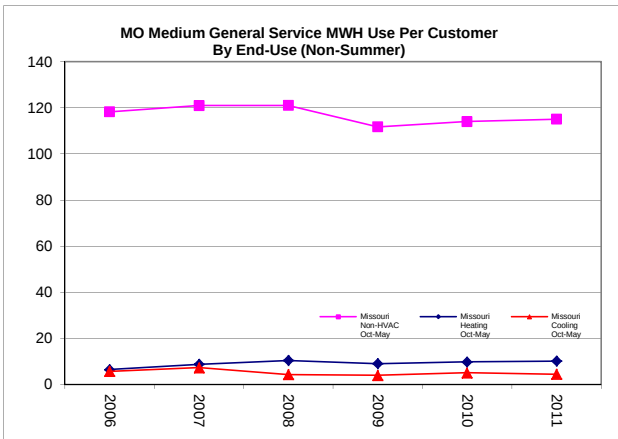
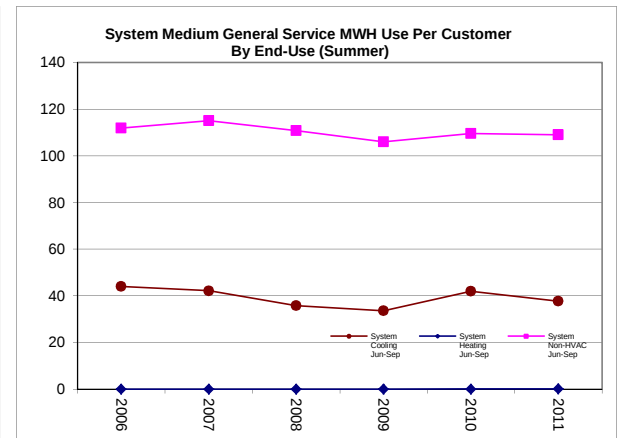
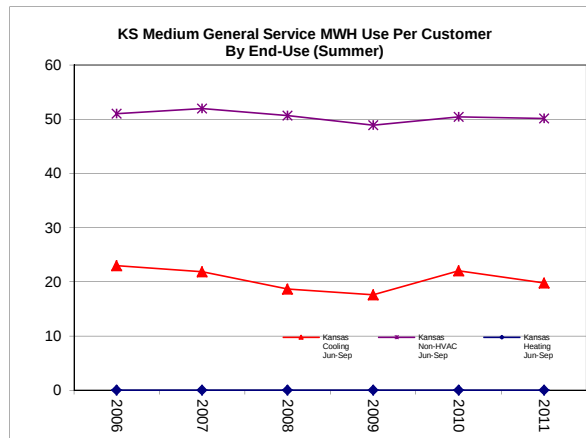
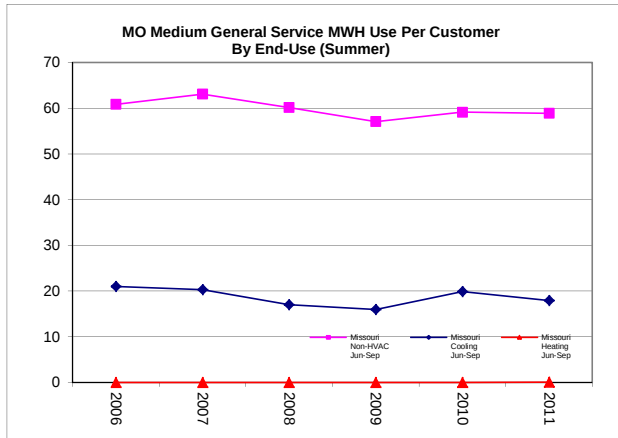
06-'10	-2.3%	-3.7%	0.0%	9.9%	-4.7%	-3.3%	-2.6%	-1.4%	-5.0%	0.0%	7.1%	-3.0%	-1.6%	-1.5%	-1.9%	-4.3%	0.0%	8.6%	-3.9%	-2.5%	-2.1%
10-'11	-12.4%	-7.0%	0.0%	5.6%	3.3%	-1.7%	-1.7%	-12.1%	-2.9%	0.0%	3.7%	0.0%	-1.9%	-2.5%	-12.3%	-5.1%	0.0%	4.8%	1.7%	-1.8%	-2.1%
06-'11	-4.4%	-4.4%	0.0%	9.0%	-3.1%	-3.0%	-2.4%	-3.6%	-4.6%	0.0%	6.4%	-2.4%	-1.6%	-1.7%	-4.1%	-4.5%	0.0%	7.8%	-2.8%	-2.3%	-2.1%



Plot 3A-19 Missouri & Kansas Medium General Service MWH Use Per Customer By End-Use

Year	Missouri Cooling Jun-Sep	Missouri Cooling Oct-May	Missouri Heating Jun-Sep	Missouri Heating Oct-May	Missouri Non-HVAC Jun-Sep	Missouri Non-HVAC Oct-May	Missouri Total Jan -Dec	Kansas Cooling Jun-Sep	Kansas Cooling Oct-May	Kansas Heating Jun-Sep	Kansas Heating Oct-May	Kansas Non-HVAC Jun-Sep	Kansas Non-HVAC Oct-May	Kansas Total Jan -Dec	System Cooling Jun-Sep	System Cooling Oct-May	System Heating Jun-Sep	System Heating Oct-May	System Non-HVAC Jun-Sep	System Non-HVAC Oct-May	System Total Jan -Dec
1995																					
1996																					
1997																					
1998																					
1999																					
2000																					
2001																					
2002																					
2003																					
2004																					
2005																					
2006	21	6	0.00	6	61	118	212	23	6	0	6	51	103	189	44	12	0.00	12	112	221	401
2007	20	7	0.00	9	63	121	220	22	8	0	8	52	104	193	42	15	0.00	16	115	225	414
2008	17	4	0.01	10	60	121	213	19	5	0	9	51	103	186	36	9	0.01	19	111	224	399
2009	16	4	0.00	9	57	112	198	18	4	0	7	49	100	178	34	8	0.00	16	106	212	376
2010	20	5	0.01	10	59	114	208	22	5	0	8	50	99	185	42	10	0.02	18	110	213	393
2011	18	4	0.02	10	59	115	207	20	5	0	8	50	99	182	38	9	0.03	18	109	214	389

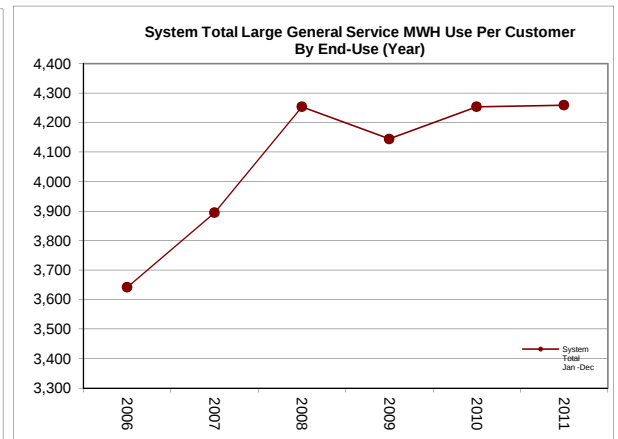
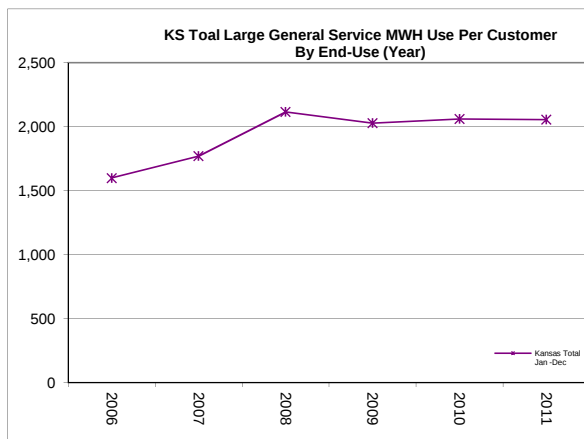
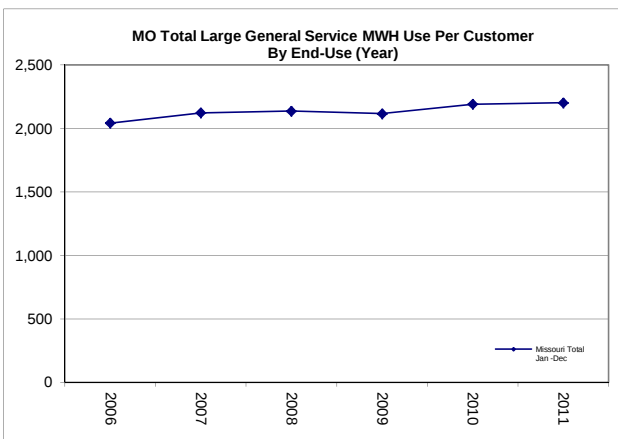
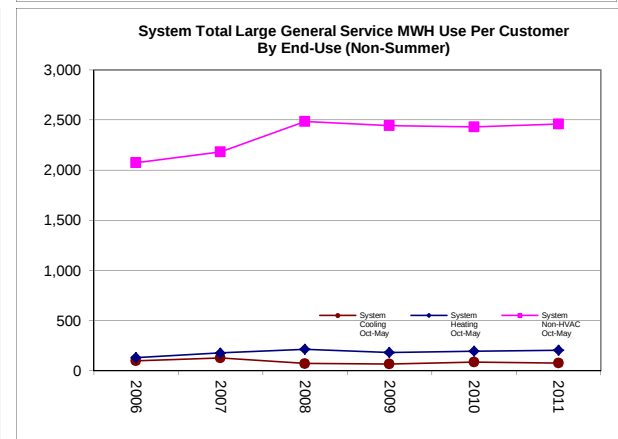
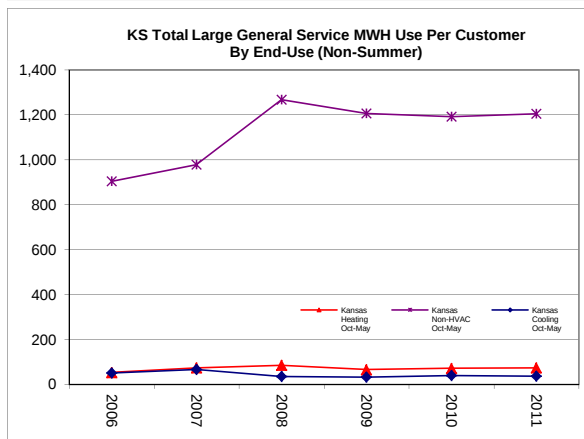
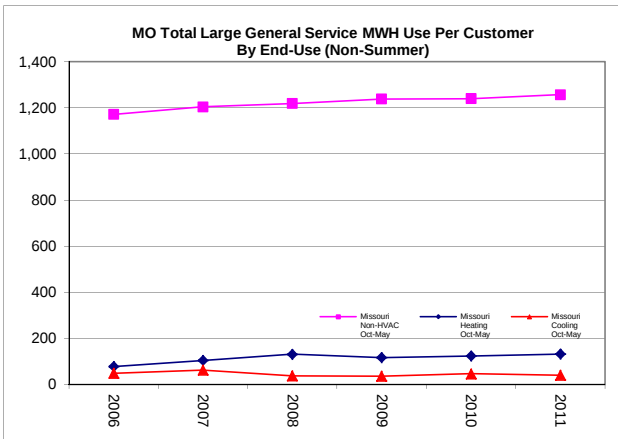
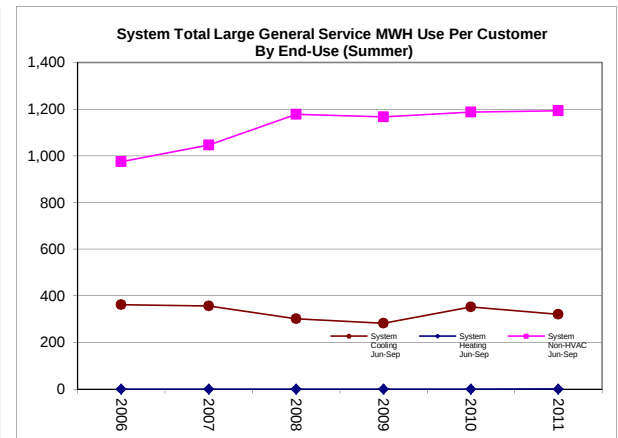
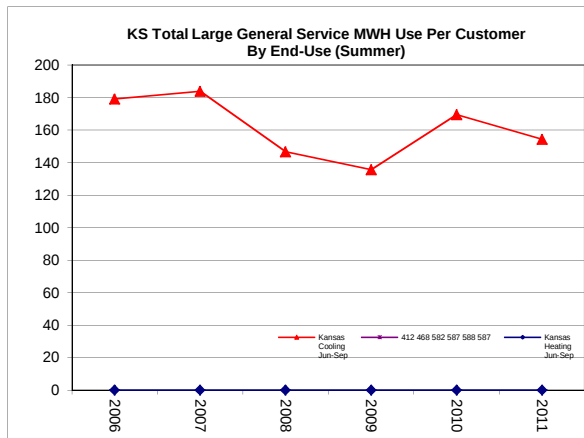
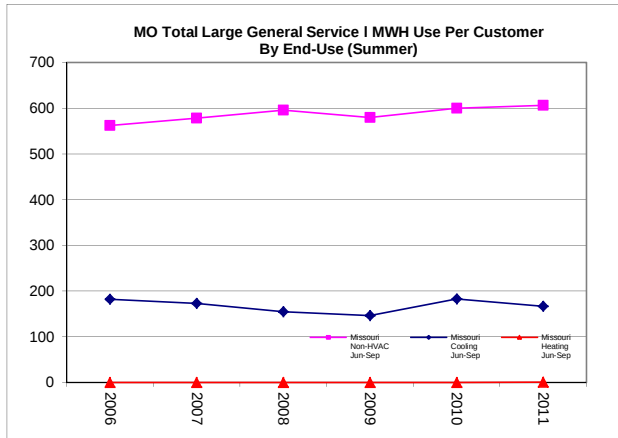
06-'10	-1.4%	-2.6%	0.0%	11.0%	-0.7%	-0.9%	-0.5%	-1.0%	-3.9%	0.0%	7.6%	-0.3%	-0.8%	-0.5%	-1.2%	-3.3%	0.0%	9.4%	-0.5%	-0.9%	-0.5%
10-'11	-9.6%	-12.6%	100.0%	4.1%	-0.5%	1.0%	-0.6%	-10.4%	-11.9%	0.0%	2.5%	-0.7%	-0.1%	-1.7%	-10.0%	-12.2%	50.0%	3.4%	-0.6%	0.5%	-1.1%
06-'11	-3.1%	-4.7%	0.0%	9.6%	-0.7%	-0.5%	-0.5%	-3.0%	-5.5%	0.0%	6.5%	-0.4%	-0.7%	-0.7%	-3.1%	-5.1%	0.0%	8.2%	-0.5%	-0.6%	-0.6%



Plot 3A-20 Missouri & Kansas Large General Service MWH Use Per Customer By End-Use

Year	Missouri Cooling Jun-Sep	Missouri Cooling Oct-May	Missouri Heating Jun-Sep	Missouri Heating Oct-May	Missouri Non-HVAC Jun-Sep	Missouri Non-HVAC Oct-May	Missouri Total Jan -Dec	Kansas Cooling Jun-Sep	Kansas Cooling Oct-May	Kansas Heating Jun-Sep	Kansas Heating Oct-May	Kansas Non-HVAC Jun-Sep	Kansas Non-HVAC Oct-May	Kansas Total Jan -Dec	System Cooling Jun-Sep	System Cooling Oct-May	System Heating Jun-Sep	System Heating Oct-May	System Non-HVAC Jun-Sep	System Non-HVAC Oct-May	System Total Jan -Dec
1995																					
1996																					
1997																					
1998																					
1999																					
2000																					
2001																					
2002																					
2003																					
2004																					
2005																					
2006	182	48	0.02	78	563	1,171	2,041	179	51	0.000	54	412	904	1,600	361	100	0.0	131	975	2,075	3,641
2007	173	63	0.01	104	578	1,204	2,122	184	67	0.000	74	468	979	1,772	357	130	0.0	178	1,046	2,183	3,894
2008	155	37	0.09	131	596	1,218	2,137	147	36	0.000	85	582	1,267	2,117	301	73	0.1	216	1,178	2,485	4,254
2009	146	36	0.00	117	580	1,238	2,117	136	33	0.000	66	587	1,206	2,028	282	69	0.0	183	1,167	2,443	4,144
2010	183	47	0.10	123	600	1,240	2,192	169	40	0.000	72	588	1,191	2,061	352	87	0.1	195	1,188	2,431	4,253
2011	166	41	0.25	132	606	1,257	2,202	154	37	0.000	75	587	1,205	2,057	321	77	0.3	207	1,193	2,462	4,259

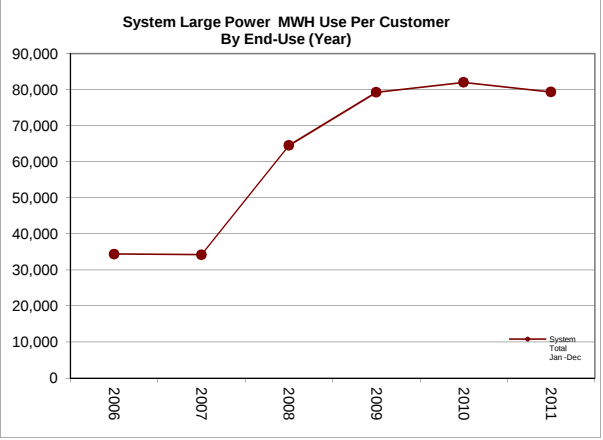
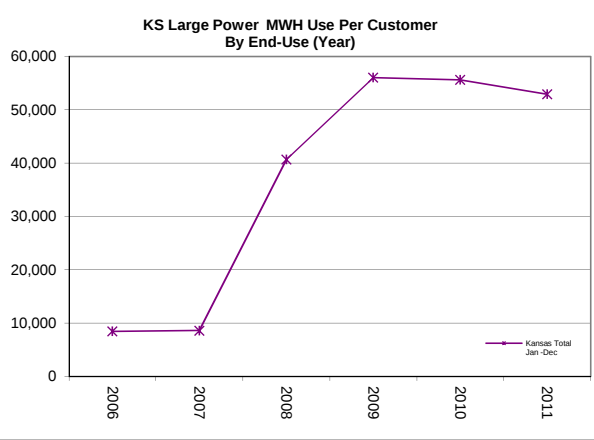
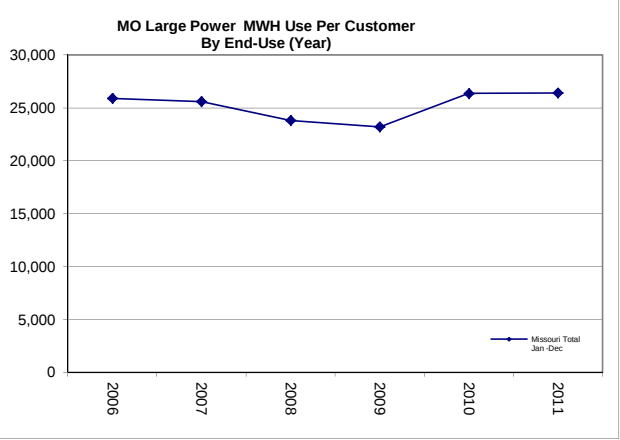
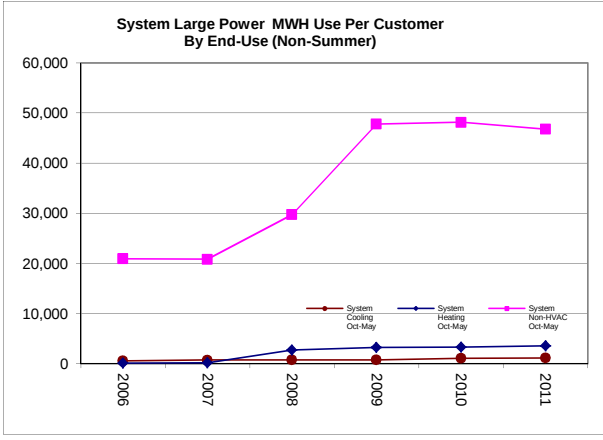
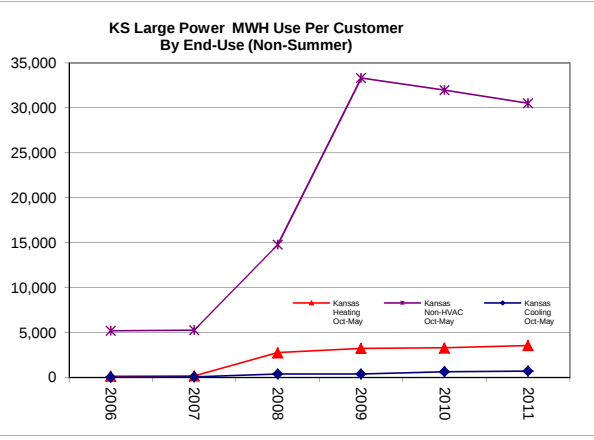
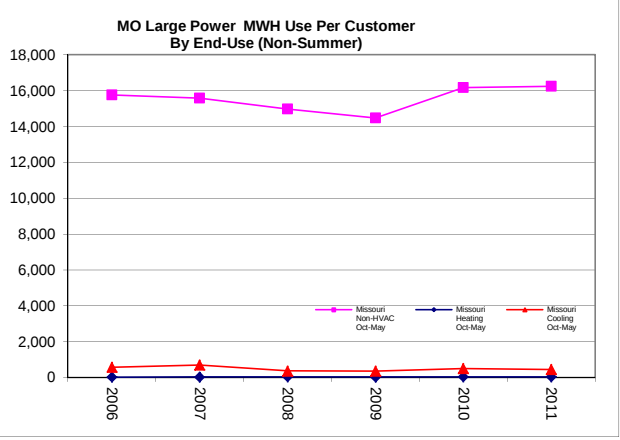
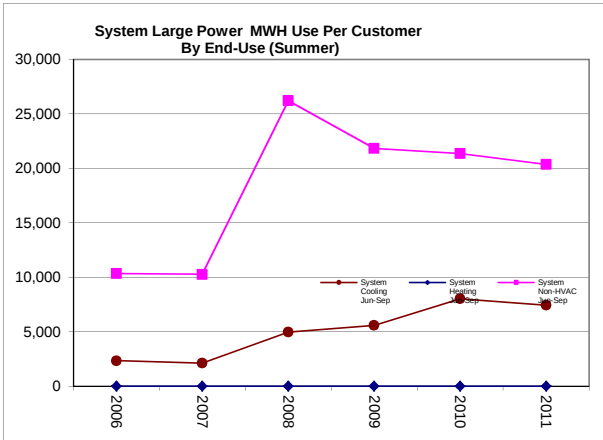
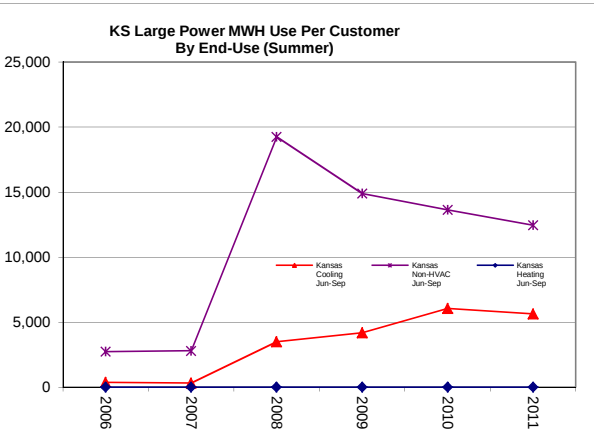
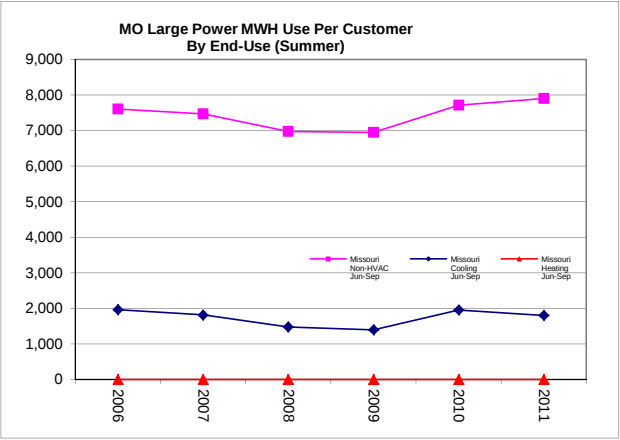
06-'10	0.1%	-0.9%	49.5%	12.2%	1.6%	1.4%	1.8%	-1.4%	-5.8%	0.0%	7.7%	9.3%	7.2%	6.5%	-0.6%	-3.3%	49.5%	10.4%	5.1%	4.0%	4.0%
10-'11	-9.0%	-12.7%	150.0%	7.4%	1.0%	1.4%	0.5%	-9.0%	-9.2%	0.0%	3.3%	-0.2%	1.1%	-0.2%	-9.0%	-11.1%	150.0%	5.9%	0.4%	1.3%	0.1%
06-'11	-1.8%	-3.4%	65.7%	11.2%	1.5%	1.4%	1.5%	-3.0%	-6.5%	0.0%	6.8%	7.3%	5.9%	5.2%	-2.4%	-5.0%	65.7%	9.5%	4.1%	3.5%	3.2%



Plot 3A-21 Missouri & Kansas Large Power MWH Use Per Customer By End-Use

Year	Missouri Cooling	Missouri Cooling	Missouri Heating	Missouri Heating	Missouri Non-HVAC	Missouri Non-HVAC	Missouri Total	Kansas Cooling	Kansas Cooling	Kansas Heating	Kansas Heating	Kansas Non-HVAC	Kansas Non-HVAC	Kansas Total	System Cooling	System Cooling	System Heating	System Heating	System Non-HVAC	System Non-HVAC	System Total
	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jan -Dec	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jan -Dec	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jan -Dec
1995																					
1996																					
1997																					
1998																					
1999																					
2000																					
2001																					
2002																					
2003																					
2004																					
2005																					
2006	1,962.32	564.16	0.00	18.51	7,604.90	15,761.44	25,911.33	365.60	38.12	0.00	139.82	2,726.63	5,196.55	8,466.72	2,327.92	602.28	0.00	158.33	10,331.53	20,957.99	34,378.05
2007	1,811.89	691.27	0.01	24.46	7,474.15	15,586.29	25,588.07	308.47	64.74	0.00	171.58	2,792.53	5,268.46	8,605.78	2,120.36	756.01	0.01	196.04	10,266.68	20,854.75	34,193.85
2008	1,477.52	365.84	0.01	28.74	6,979.84	14,970.23	23,822.18	3,483.67	404.56	0.00	2,760.22	19,242.89	14,767.84	40,659.18	4,961.19	770.40	0.01	2,788.96	26,222.73	29,738.07	64,481.36
2009	1,390.89	361.84	0.00	24.86	6,948.48	14,471.81	23,197.88	4,179.50	408.84	0.00	3,251.65	14,879.82	33,312.66	56,032.47	5,570.39	770.68	0.00	3,276.51	21,828.30	47,784.47	79,230.35
2010	1,953.60	496.57	0.02	29.52	7,713.84	16,173.71	26,367.26	6,052.83	638.19	0.00	3,295.74	13,638.46	31,977.31	55,602.53	8,006.43	1,134.76	0.02	3,325.26	21,352.30	48,151.02	81,969.79
2011	1,802.25	446.34	0.05	31.30	7,901.01	16,237.96	26,418.91	5,630.82	725.88	0.22	3,564.69	12,463.07	30,517.85	52,902.53	7,433.07	1,172.22	0.27	3,595.99	20,364.08	46,755.81	79,321.44

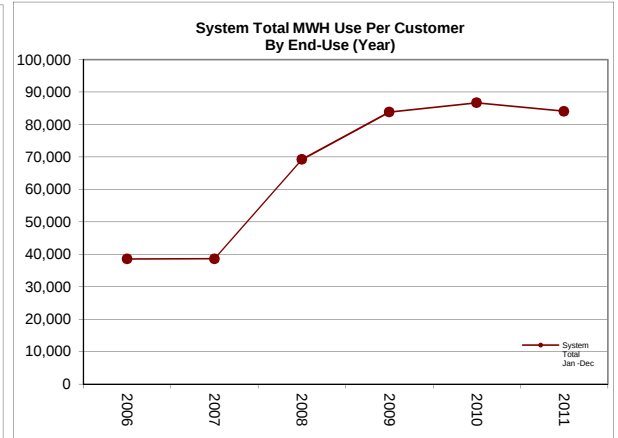
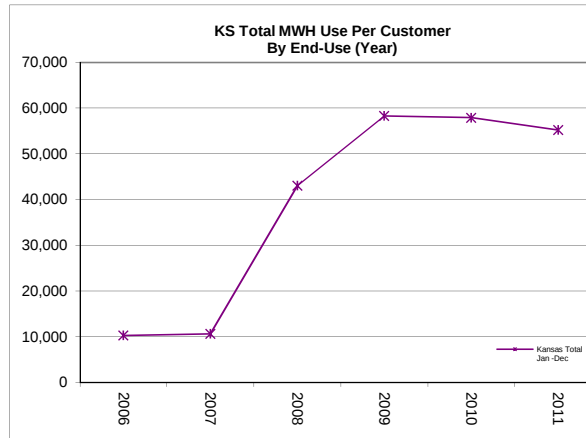
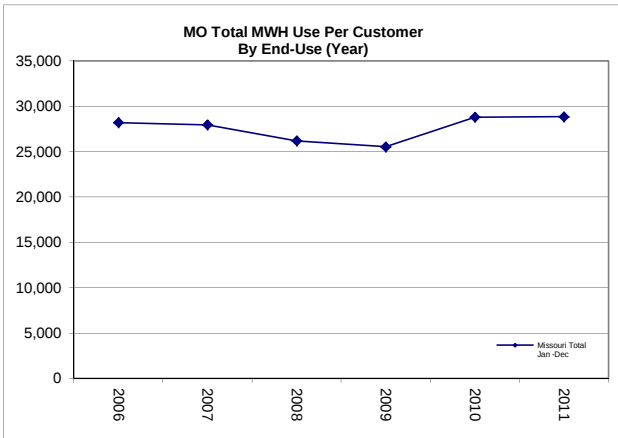
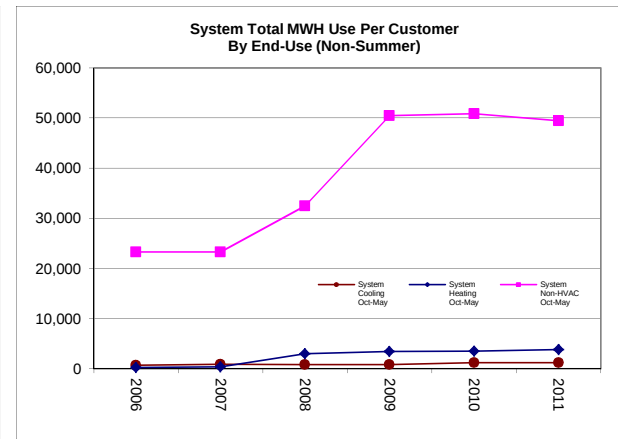
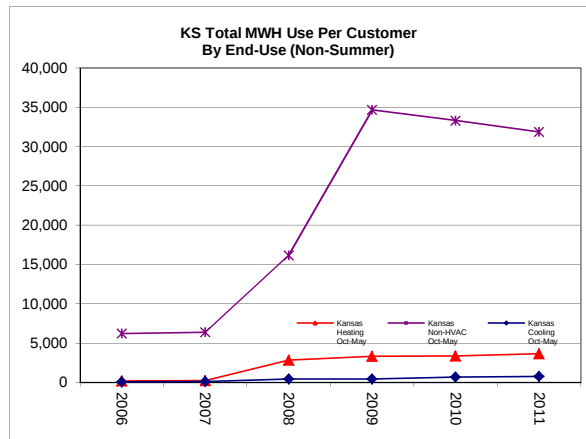
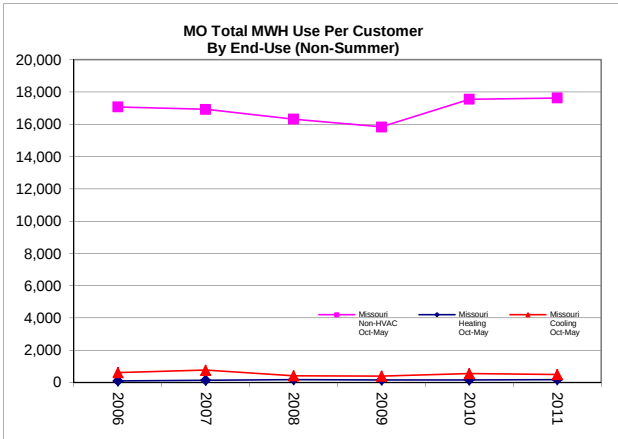
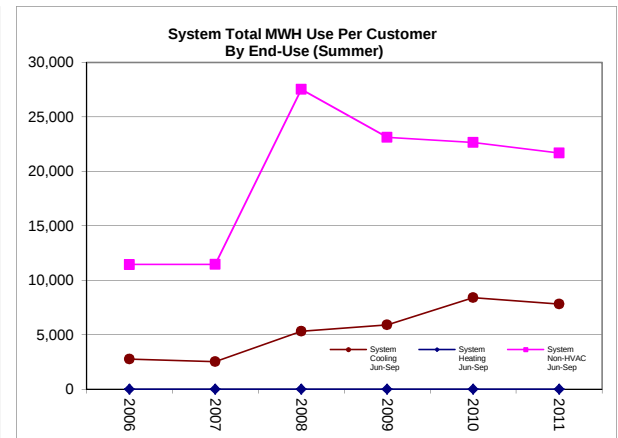
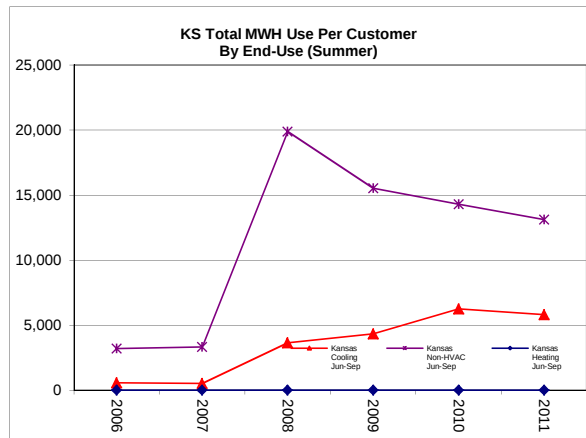
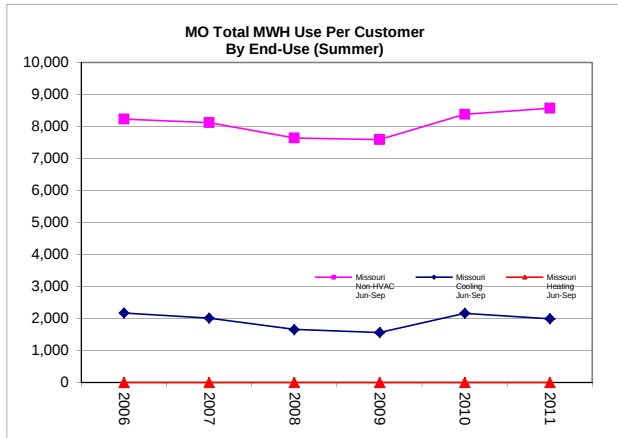
06-'10	-0.1%	-3.1%	0.0%	12.4%	0.4%	0.6%	0.4%	101.7%	102.3%	0.0%	120.3%	49.5%	57.5%	60.1%	36.2%	17.2%	0.0%	114.1%	19.9%	23.1%	24.3%
10-'11	-7.7%	-10.1%	150.0%	6.0%	2.4%	0.4%	0.2%	-7.0%	13.7%	0.0%	8.2%	-8.6%	-4.6%	-4.9%	-7.2%	3.3%	1250.0%	8.1%	-4.6%	-2.9%	-3.2%
06-'11	-1.7%	-4.6%	0.0%	11.1%	0.8%	0.6%	0.4%	72.8%	80.3%	0.0%	91.1%	35.5%	42.5%	44.3%	26.1%	14.2%	0.0%	86.7%	14.5%	17.4%	18.2%



Plot 3A-22 Missouri & Kansas Total MWH Use Per Customer By End-Use
For classes that have end-use sales

Year	Missouri Cooling	Missouri Cooling	Missouri Heating	Missouri Heating	Missouri Non-HVAC	Missouri Non-HVAC	Missouri Total	Kansas Cooling	Kansas Cooling	Kansas Heating	Kansas Heating	Kansas Non-HVAC	Kansas Non-HVAC	Kansas Total	System Cooling	System Cooling	System Heating	System Heating	System Non-HVAC	System Non-HVAC	System Total
	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jan -Dec	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jan -Dec	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jun-Sep	Oct-May	Jan -Dec
1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2006	2,170	619	0.02	105	8,235	17,065	28,194	572	96	0.00	202	3,206	6,234	10,310	2,743	715	0.02	307	11,441	23,299	38,504
2007	2,010	762	0.02	140	8,122	16,925	27,959	518	140	0.00	258	3,330	6,383	10,629	2,528	903	0.02	397	11,452	23,307	38,588
2008	1,653	408	0.11	173	7,642	16,323	26,199	3,652	445	0.01	2,859	19,892	16,170	43,019	5,305	853	0.12	3,033	27,534	32,493	69,218
2009	1,556	402	0.00	153	7,592	15,834	25,538	4,335	446	0.00	3,330	15,531	34,644	58,286	5,892	848	0.00	3,484	23,122	50,479	83,824
2010	2,161	549	0.13	165	8,379	17,541	28,795	6,248	684	0.01	3,381	14,292	33,297	57,902	8,409	1,233	0.14	3,546	22,671	50,837	86,697
2011	1,991	492	0.32	177	8,572	17,623	28,855	5,808	768	0.24	3,653	13,115	31,851	55,195	7,799	1,260	0.56	3,830	21,687	49,475	84,050

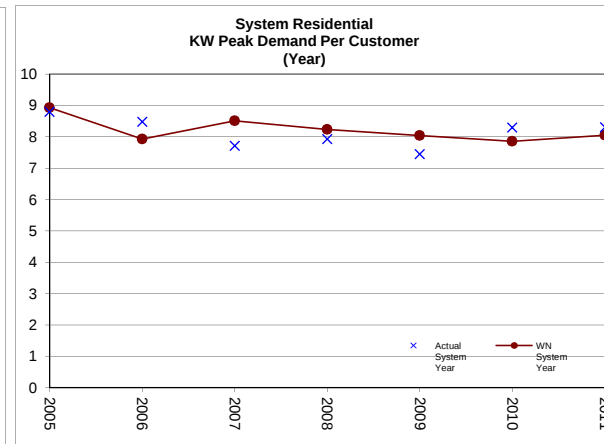
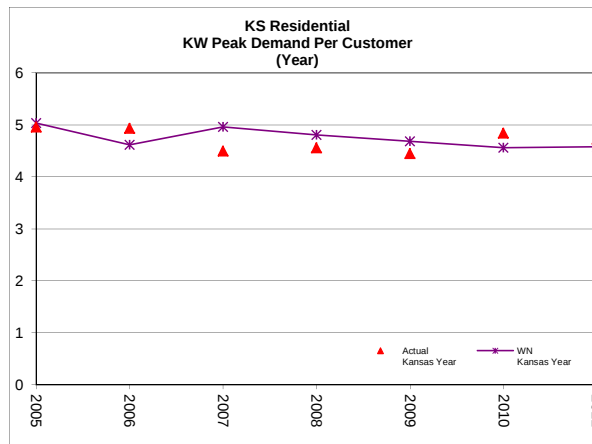
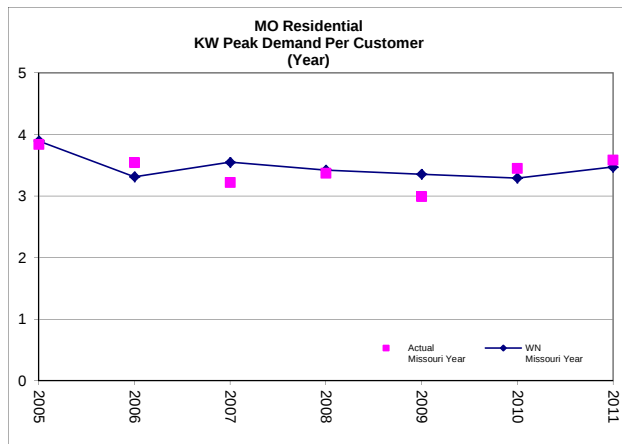
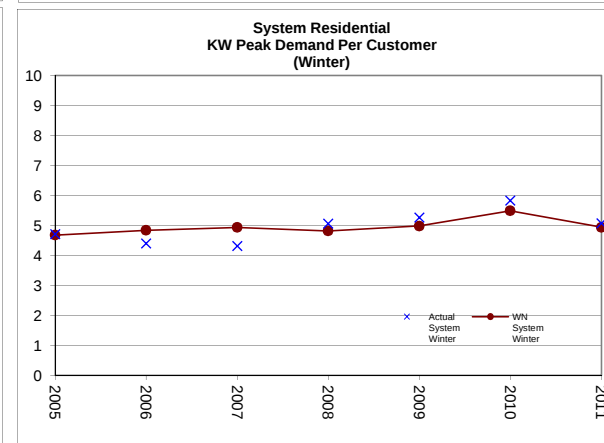
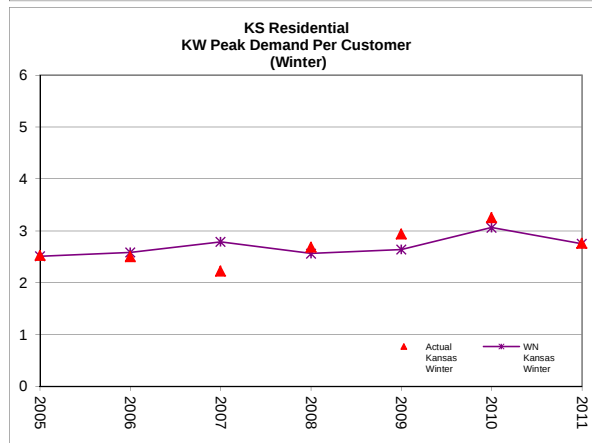
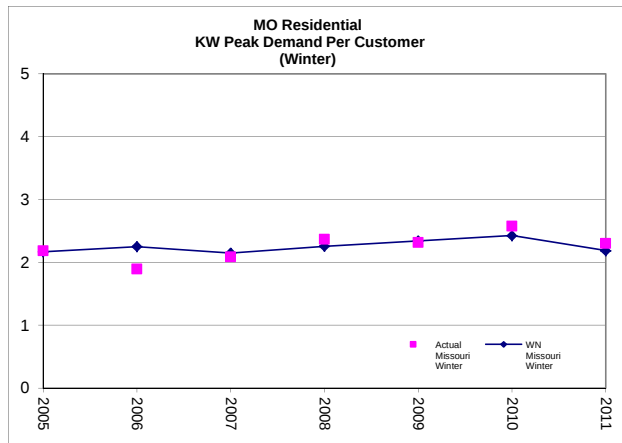
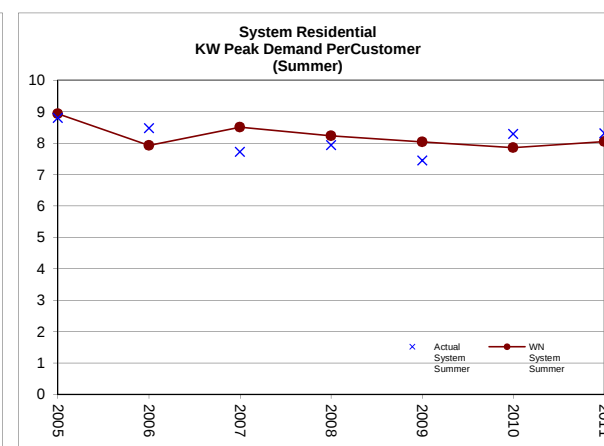
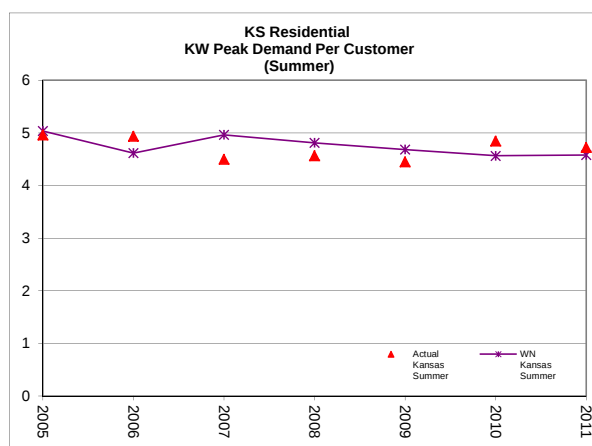
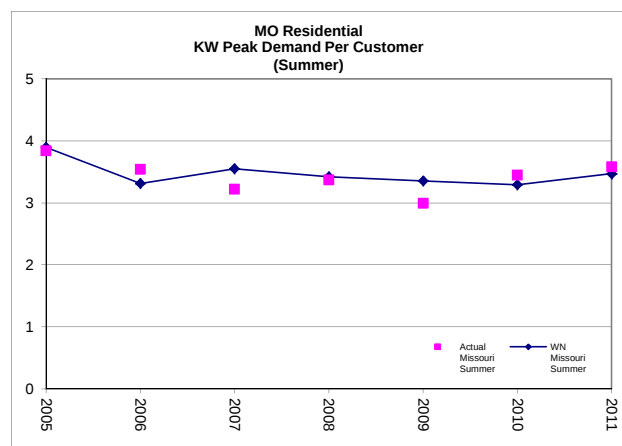
06-'10	-0.1%	-3.0%	59.7%	12.1%	0.4%	0.7%	0.5%	81.8%	63.3%	0.0%	102.3%	45.3%	52.0%	53.9%	32.3%	14.6%	62.7%	84.4%	18.6%	21.5%	22.5%
10-'11	-7.9%	-10.4%	146.2%	6.9%	2.3%	0.5%	0.2%	-7.0%	12.2%	2300%	8.0%	-8.2%	-4.3%	-4.7%	-7.3%	2.2%	300.0%	8.0%	-4.3%	-2.7%	-3.1%
06-'11	-1.7%	-4.5%	74.1%	11.1%	0.8%	0.6%	0.5%	59.0%	51.5%	0.0%	78.4%	32.5%	38.6%	39.9%	23.2%	12.0%	94.7%	65.7%	13.6%	16.3%	16.9%



Plot 3A-23 Missouri & Kansas Residential KW Peak Demand Per Customer
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		
2002																		
2003																		
2004																		
2005	3.84	3.90	2.2	2.17	3.84	3.90	4.96	5.04	2.53	2.51	4.96	5.04	8.80	8.93	4.71	4.68	8.80	8.93
2006	3.54	3.31	1.9	2.25	3.54	3.31	4.94	4.62	2.51	2.59	4.94	4.62	8.48	7.93	4.40	4.84	8.48	7.93
2007	3.22	3.55	2.1	2.15	3.22	3.55	4.50	4.96	2.23	2.79	4.50	4.96	7.72	8.51	4.31	4.94	7.72	8.51
2008	3.37	3.42	2.4	2.25	3.37	3.42	4.57	4.81	2.69	2.56	4.57	4.81	7.94	8.23	5.06	4.82	7.94	8.23
2009	2.99	3.36	2.3	2.34	2.99	3.36	4.45	4.68	2.94	2.64	4.45	4.68	7.45	8.04	5.26	4.98	7.45	8.04
2010	3.45	3.29	2.6	2.43	3.45	3.29	4.85	4.56	3.25	3.06	4.85	4.56	8.30	7.86	5.83	5.49	8.30	7.86
2011	3.58	3.47	2.3	2.19	3.58	3.47	4.73	4.58	2.77	2.75	4.73	4.58	8.31	8.05	5.07	4.94	8.31	8.05

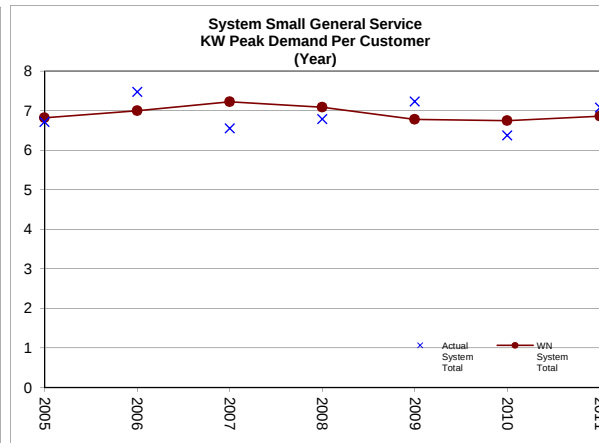
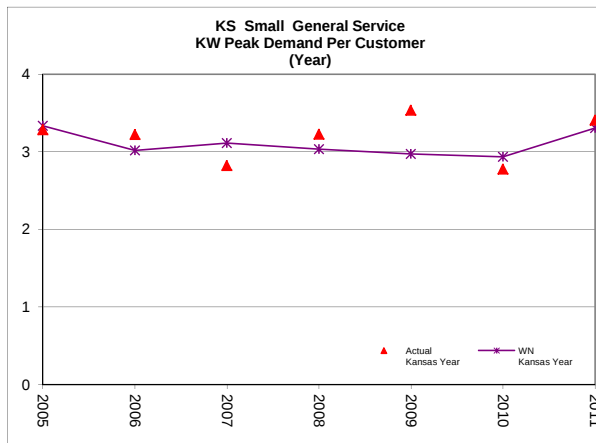
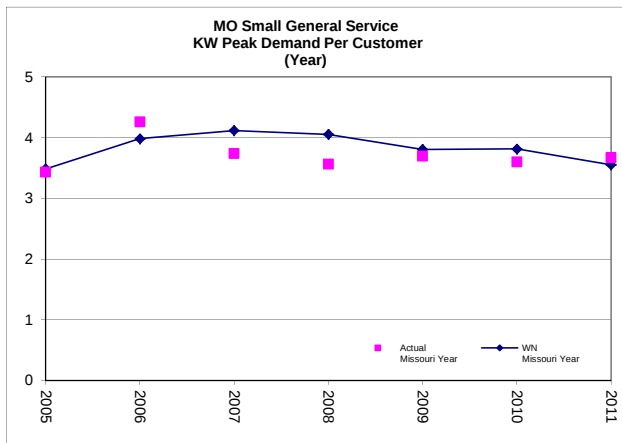
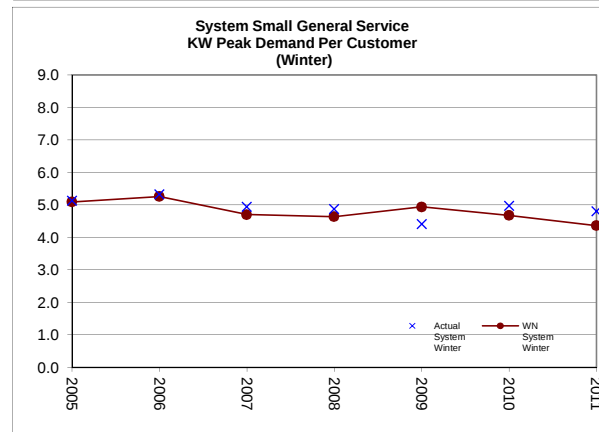
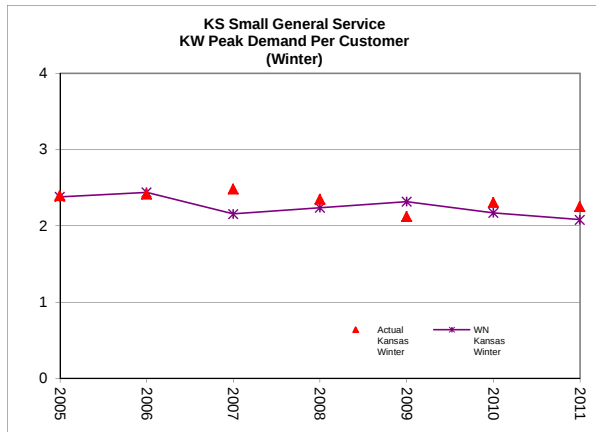
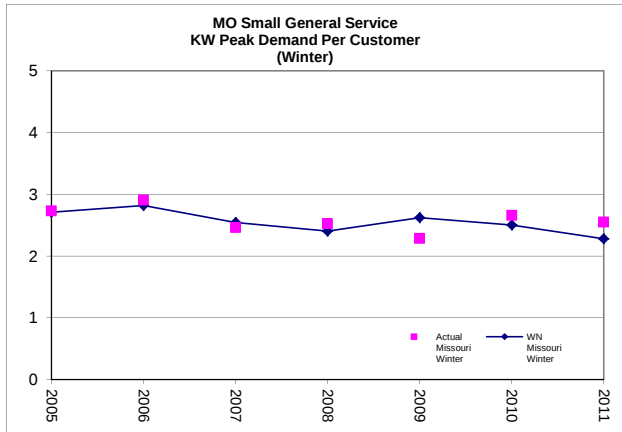
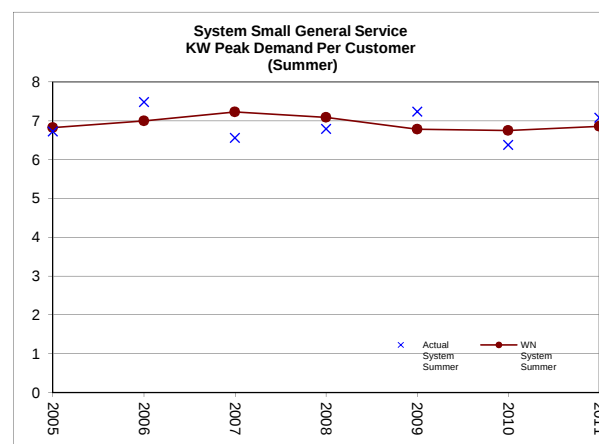
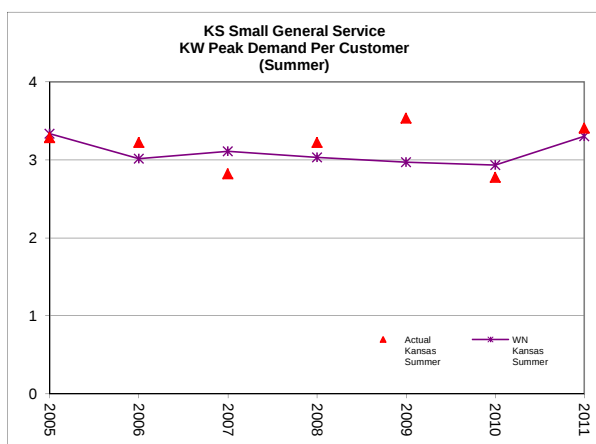
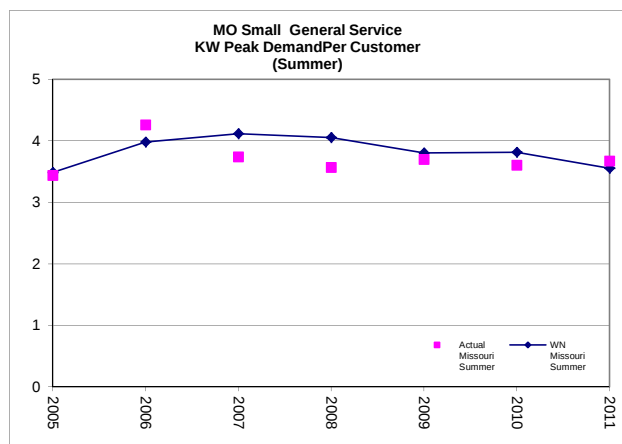
05-'10	-2.1%	-3.3%	3.4%	2.3%	-2.1%	-3.3%	-0.5%	-2.0%	5.2%	4.0%	-0.5%	-2.0%	-1.2%	-2.5%	4.4%	3.2%	-1.2%	-2.5%
10-'11	3.8%	5.5%	-10.7%	-9.9%	3.8%	5.5%	-2.4%	0.4%	-15.0%	-10.2%	-2.4%	0.4%	0.2%	2.5%	-13.1%	-10.0%	0.2%	2.5%
05-'11	-1.2%	-1.9%	0.9%	0.1%	-1.2%	-1.9%	-0.8%	-1.6%	1.5%	1.5%	-0.8%	-1.6%	-1.0%	-1.7%	1.2%	0.9%	-1.0%	-1.7%



**Plot 3A-24 Missouri & Kansas Small General Service KW Peak Demand Per Customer
(Actual vs. Weather Normalized)**

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Total	WN System Total
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		
2002																		
2003																		
2004																		
2005	3.4	3.5	2.7	2.7	3.4	3.5	3.3	3.3	2.4	2.4	3.3	3.3	6.7	6.8	5.1	5.1	6.7	6.8
2006	4.3	4.0	2.9	2.8	4.3	4.0	3.2	3.0	2.4	2.4	3.2	3.0	7.5	7.0	5.3	5.3	7.5	7.0
2007	3.7	4.1	2.5	2.5	3.7	4.1	2.8	3.1	2.5	2.2	2.8	3.1	6.6	7.2	4.9	4.7	6.6	7.2
2008	3.6	4.1	2.5	2.4	3.6	4.1	3.2	3.0	2.3	2.2	3.2	3.0	6.8	7.1	4.9	4.6	6.8	7.1
2009	3.7	3.8	2.3	2.6	3.7	3.8	3.5	3.0	2.1	2.3	3.5	3.0	7.2	6.8	4.4	4.9	7.2	6.8
2010	3.6	3.8	2.7	2.5	3.6	3.8	2.8	2.9	2.3	2.2	2.8	2.9	6.4	6.7	5.0	4.7	6.4	6.7
2011	3.7	3.6	2.6	2.3	3.7	3.6	3.4	3.3	2.3	2.1	3.4	3.3	7.1	6.9	4.8	4.4	7.1	6.9

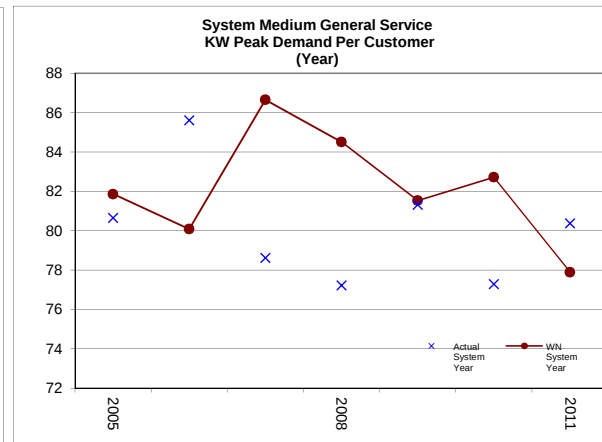
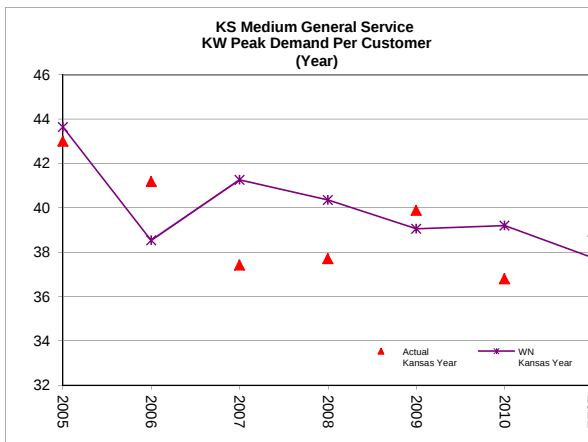
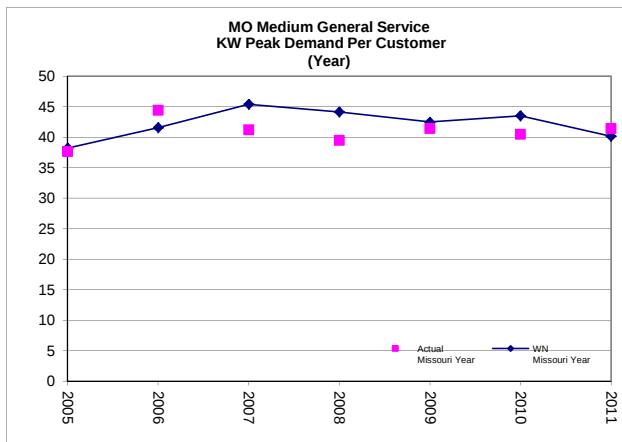
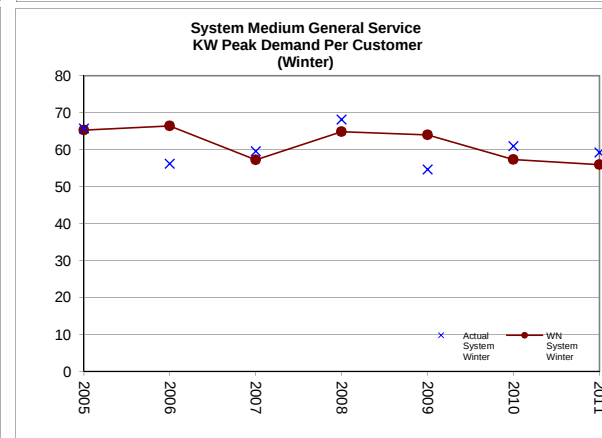
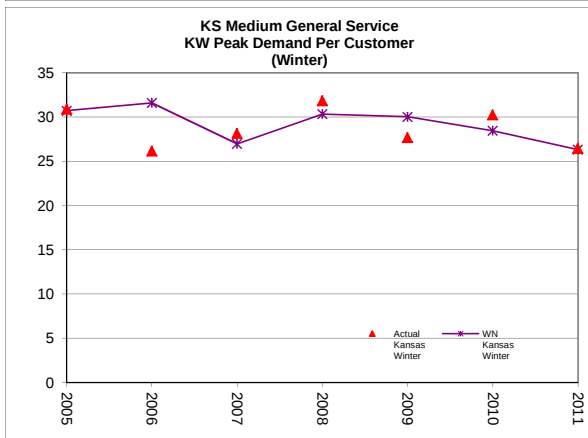
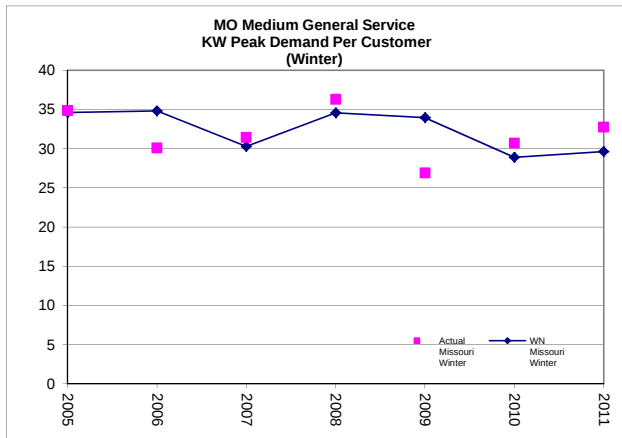
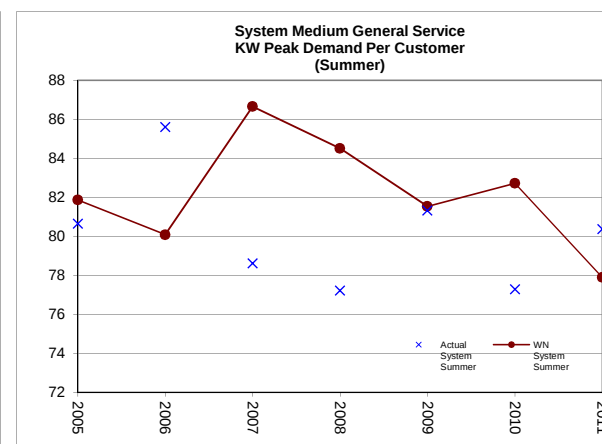
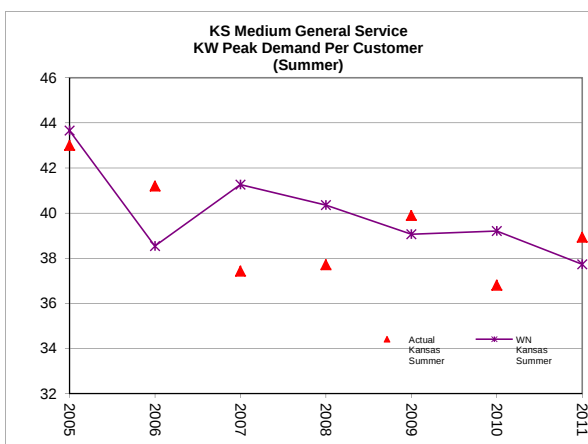
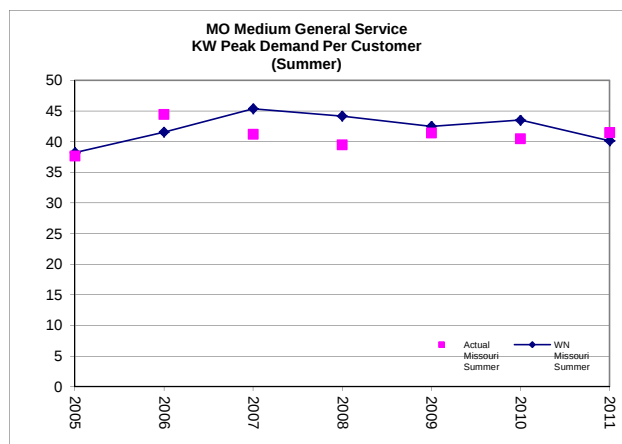
05-'10	0.9%	1.8%	-0.5%	-1.6%	0.9%	1.8%	-3.3%	-2.5%	-0.8%	-1.8%	-3.3%	-2.5%	-1.0%	-0.2%	-0.6%	-1.7%	-1.0%	-0.2%
10-'11	1.9%	-6.8%	-4.1%	-8.9%	1.9%	-6.8%	22.7%	12.6%	-2.3%	-4.2%	22.7%	12.6%	11.0%	1.7%	-3.3%	-6.7%	11.0%	1.7%
05-'11	1.1%	0.3%	-1.1%	-2.8%	1.1%	0.3%	0.6%	-0.2%	-1.0%	-2.2%	0.6%	-0.2%	0.9%	0.1%	-1.1%	-2.6%	0.9%	0.1%



**Plot 3A-25 Missouri & Kansas Medium General Service KW Peak Demand Per Customer
(Actual vs. Weather Normalized)**

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		
2002																		
2003																		
2004																		
2005	37.6	38.2	34.8	34.6	37.6	38.2	43.0	43.7	30.9	30.7	43.0	43.7	80.7	81.9	65.8	65.3	80.7	81.9
2006	44.4	41.5	30.1	34.8	44.4	41.5	41.2	38.5	26.2	31.6	41.2	38.5	85.6	80.1	56.2	66.4	85.6	80.1
2007	41.2	45.4	31.4	30.3	41.2	45.4	37.4	41.3	28.2	27.0	37.4	41.3	78.6	86.6	59.6	57.2	78.6	86.6
2008	39.5	44.1	36.3	34.5	39.5	44.1	37.7	40.4	31.9	30.3	37.7	40.4	77.2	84.5	68.1	64.9	77.2	84.5
2009	41.4	42.5	26.9	34.0	41.4	42.5	39.9	39.1	27.7	30.0	39.9	39.1	81.3	81.5	54.6	64.0	81.3	81.5
2010	40.5	43.5	30.7	28.9	40.5	43.5	36.8	39.2	30.3	28.5	36.8	39.2	77.3	82.7	60.9	57.3	77.3	82.7
2011	41.4	40.2	32.7	29.6	41.4	40.2	38.9	37.7	26.5	26.3	38.9	37.7	80.4	77.9	59.2	55.9	80.4	77.9

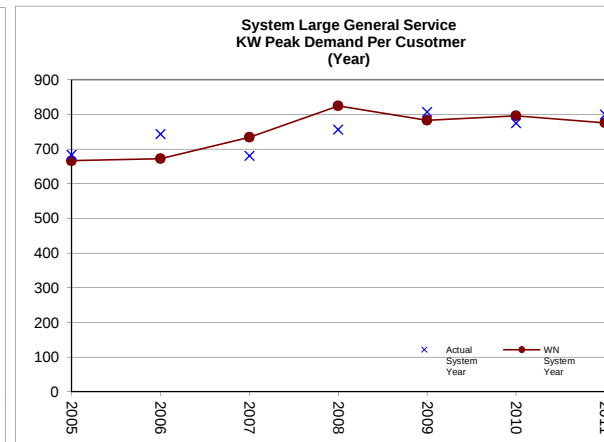
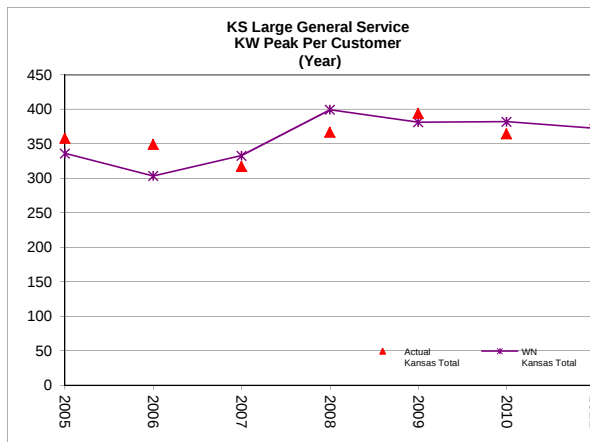
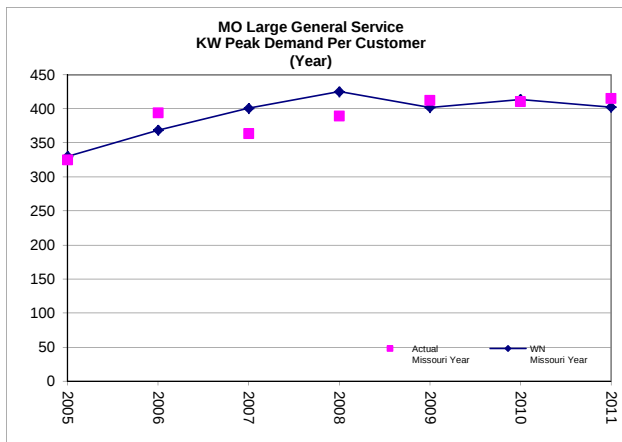
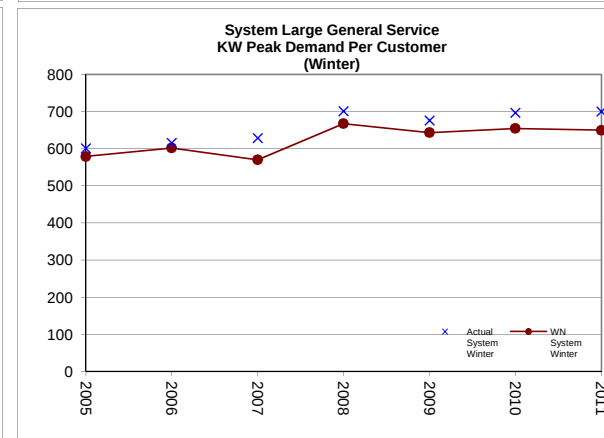
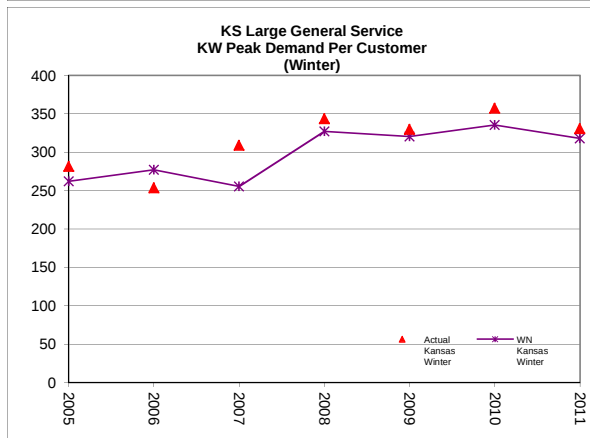
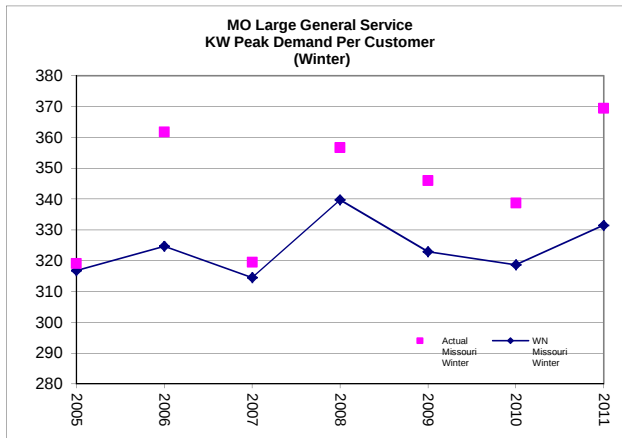
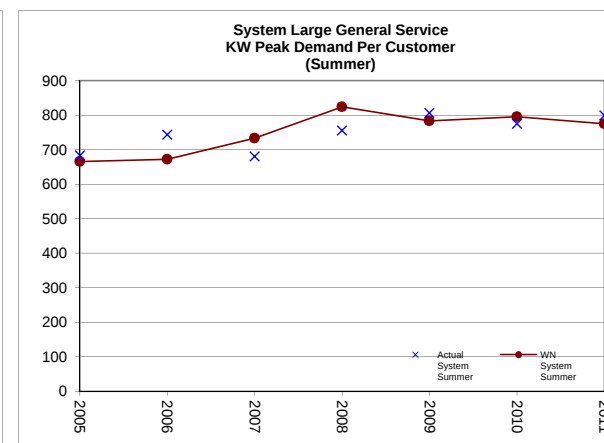
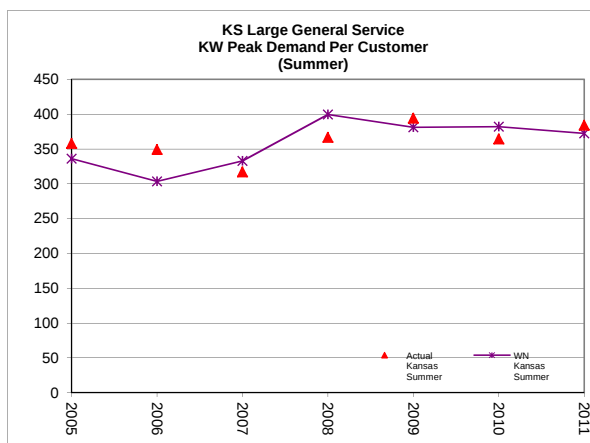
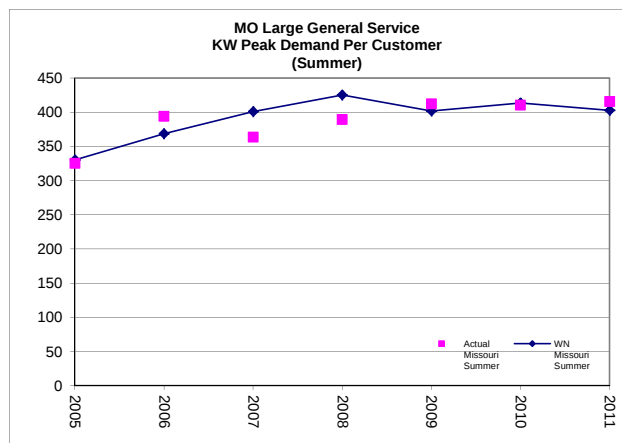
05-'10	1.5%	2.6%	-2.5%	-3.5%	1.5%	2.6%	-3.1%	-2.1%	-0.4%	-1.5%	-3.1%	-2.1%	-0.9%	0.2%	-1.5%	-2.6%	-0.9%	0.2%
10-'11	2.4%	-7.7%	6.7%	2.6%	2.4%	-7.7%	5.8%	-3.7%	-12.5%	-7.5%	5.8%	-3.7%	4.0%	-5.8%	-2.8%	-2.4%	4.0%	-5.8%
05-'11	1.6%	0.8%	-1.0%	-2.6%	1.6%	0.8%	-1.6%	-2.4%	-2.6%	-2.5%	-1.6%	-2.4%	-0.1%	-0.8%	-1.7%	-2.5%	-0.1%	-0.8%



Plot 3A-26 Missouri & Kansas Large General Service KW Peak Demand Per Customer
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Total	WN Kansas Total	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		
2002																		
2003																		
2004																		
2005	325.1	330.0	319.0	316.8	325.1	330.0	358.1	336.0	282.0	262.1	358.1	336.0	683.3	666.0	601.0	578.9	683.3	666.0
2006	394.1	368.6	361.7	324.7	394.1	368.6	349.4	303.4	254.0	277.2	349.4	303.4	743.5	672.1	615.7	601.9	743.5	672.1
2007	363.6	400.8	319.5	314.5	363.6	400.8	317.1	332.7	309.2	255.5	317.1	332.7	680.7	733.5	628.8	570.0	680.7	733.5
2008	389.1	425.2	356.6	339.7	389.1	425.2	366.7	399.4	343.8	327.3	366.7	399.4	755.9	824.6	700.5	667.0	755.9	824.6
2009	412.2	401.9	346.0	322.9	412.2	401.9	394.3	381.2	330.0	320.6	394.3	381.2	806.5	783.1	676.0	643.5	806.5	783.1
2010	410.3	413.6	338.7	318.7	410.3	413.6	364.7	381.9	357.9	335.7	364.7	381.9	775.0	795.6	696.5	654.3	775.0	795.6
2011	415.2	402.5	369.4	331.5	415.2	402.5	384.3	372.6	331.0	318.1	384.3	372.6	799.5	775.1	700.4	649.5	799.5	775.1

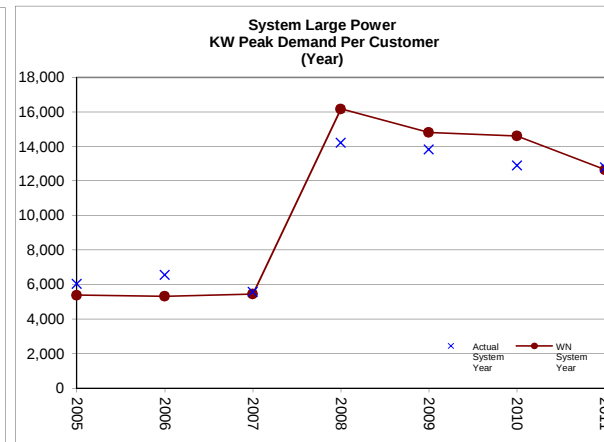
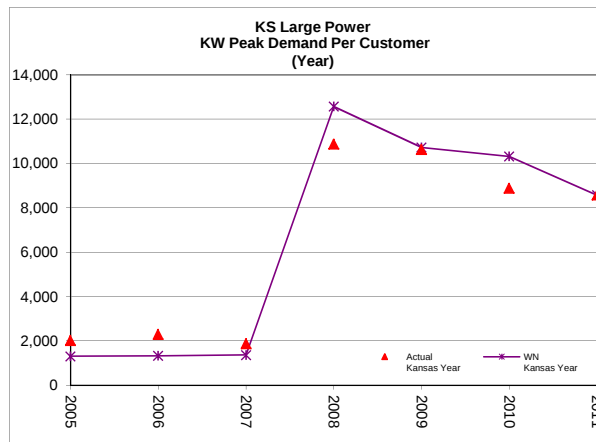
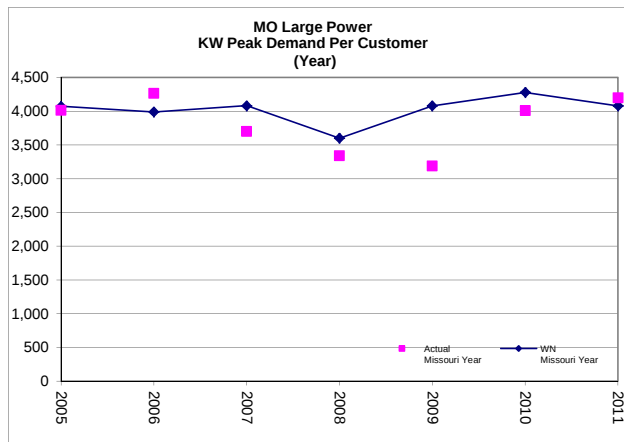
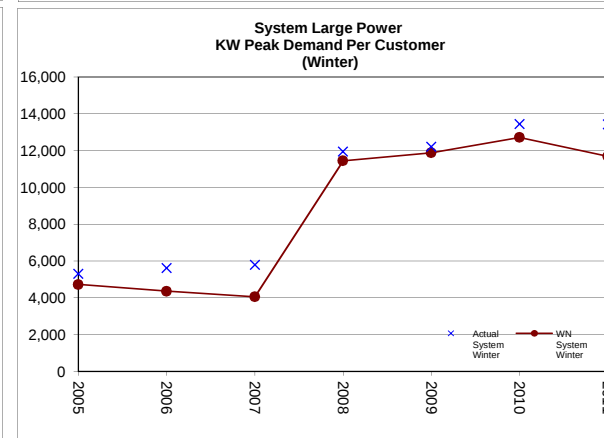
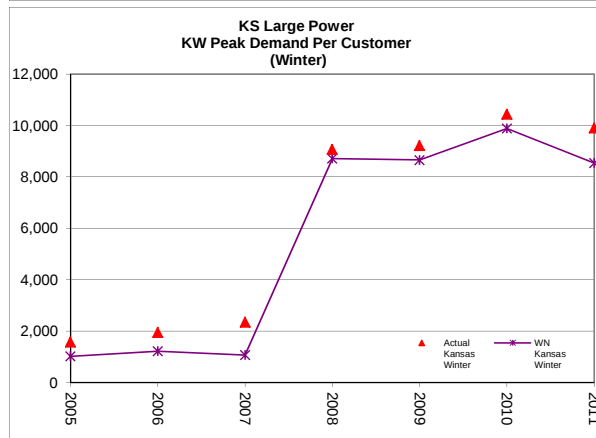
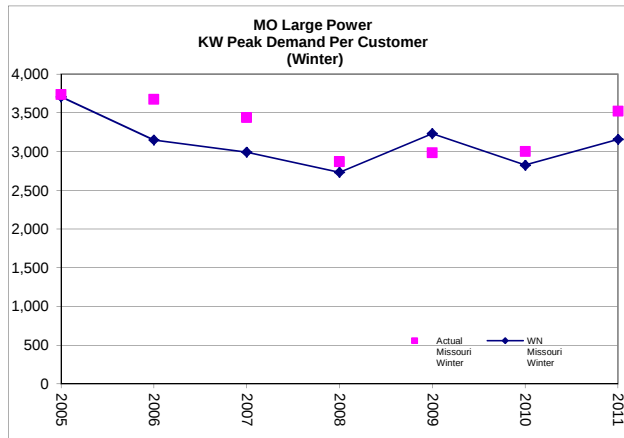
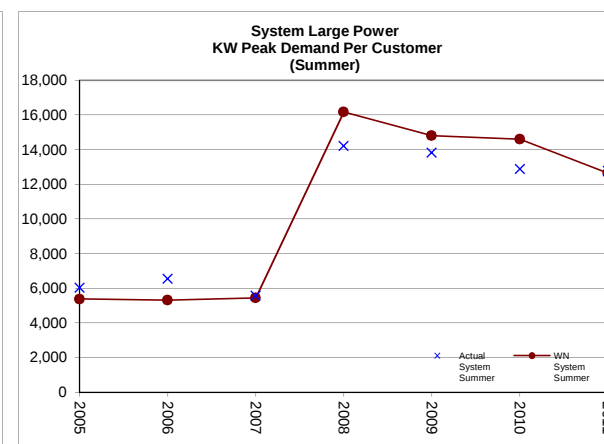
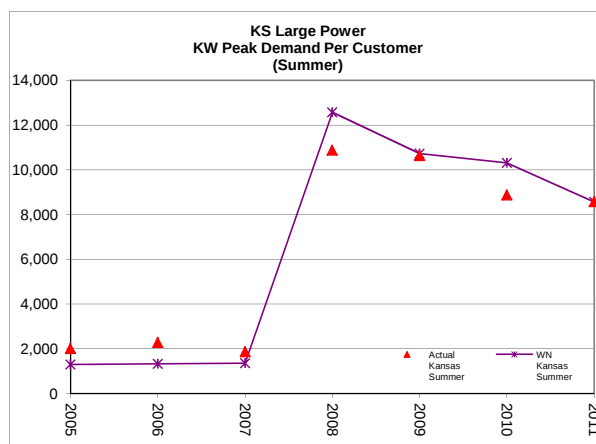
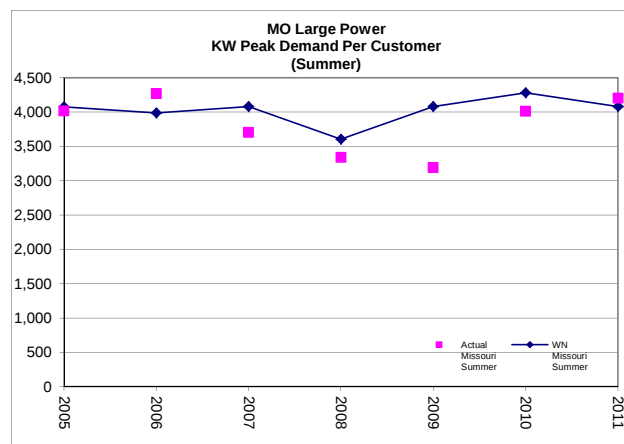
05-'10	4.8%	4.6%	1.2%	0.1%	4.8%	4.6%	0.4%	2.6%	4.9%	5.1%	0.4%	2.6%	2.6%	3.6%	3.0%	2.5%	2.6%	3.6%
10-'11	1.2%	-2.7%	9.1%	4.0%	1.2%	-2.7%	5.4%	-2.4%	-7.5%	-5.2%	5.4%	-2.4%	3.2%	-2.6%	0.6%	-0.7%	3.2%	-2.6%
05-'11	4.2%	3.4%	2.5%	0.8%	4.2%	3.4%	1.2%	1.7%	2.7%	3.3%	1.2%	1.7%	2.7%	2.6%	2.6%	1.9%	2.7%	2.6%



Plot 3A-27 Missouri & Kansas Large Power KW Peak Demand Per Customer
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		
2002																		
2003																		
2004																		
2005	4,013.0	4,073.1	3,737.2	3,710.5	4,013.0	4,073.1	2,021.8	1,304.9	1,574.5	1,020.9	2,021.8	1,304.9	6,034.9	5,378.0	5,311.7	4,731.3	6,034.9	5,378.0
2006	4,264.0	3,988.5	3,677.1	3,151.2	4,264.0	3,988.5	2,296.4	1,327.7	1,953.8	1,212.3	2,296.4	1,327.7	6,560.4	5,316.2	5,630.9	4,363.6	6,560.4	5,316.2
2007	3,703.0	4,081.7	3,441.9	2,992.7	3,703.0	4,081.7	1,876.8	1,362.0	2,352.8	1,066.7	1,876.8	1,362.0	5,579.7	5,443.7	5,794.7	4,059.3	5,579.7	5,443.7
2008	3,339.3	3,602.6	2,871.3	2,734.8	3,339.3	3,602.6	10,880.7	12,565.9	9,082.3	8,714.3	10,880.7	12,565.9	14,219.9	16,168.5	11,953.7	11,449.1	14,219.9	16,168.5
2009	3,189.9	4,079.0	2,985.3	3,232.7	3,189.9	4,079.0	10,638.3	10,722.0	9,232.0	8,659.2	10,638.3	10,722.0	13,828.1	14,801.0	12,217.3	11,891.9	13,828.1	14,801.0
2010	4,009.1	4,279.9	3,004.0	2,826.5	4,009.1	4,279.9	8,883.2	10,319.6	10,450.2	9,889.9	8,883.2	10,319.6	12,892.3	14,599.5	13,454.2	12,716.3	12,892.3	14,599.5
2011	4,199.7	4,078.3	3,522.7	3,158.2	4,199.7	4,078.3	8,584.3	8,569.1	9,914.6	8,542.8	8,584.3	8,569.1	12,784.0	12,647.5	13,437.3	11,701.1	12,784.0	12,647.5

05-'10	0.0%	1.0%	-4.3%	-5.3%	0.0%	1.0%	34.5%	51.2%	46.0%	57.5%	34.5%	51.2%	16.4%	22.1%	20.4%	21.9%	16.4%	22.1%
10-'11	4.8%	-4.7%	17.3%	11.7%	4.8%	-4.7%	-3.4%	-17.0%	-5.1%	-13.6%	-3.4%	-17.0%	-0.8%	-13.4%	-0.1%	-8.0%	-0.8%	-13.4%
05-'11	0.8%	0.0%	-1.0%	-2.6%	0.8%	0.0%	27.3%	36.8%	35.9%	42.5%	27.3%	36.8%	13.3%	15.3%	16.7%	16.3%	13.3%	15.3%



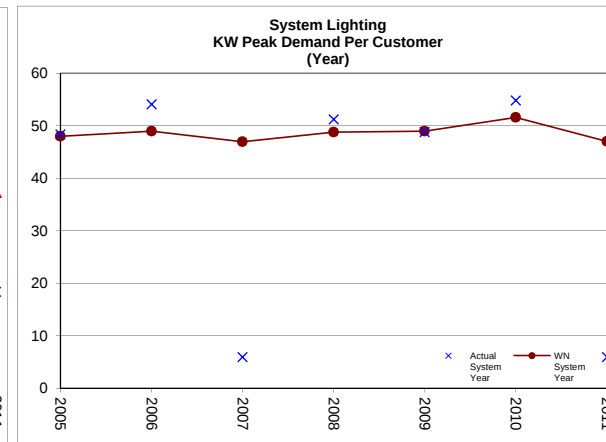
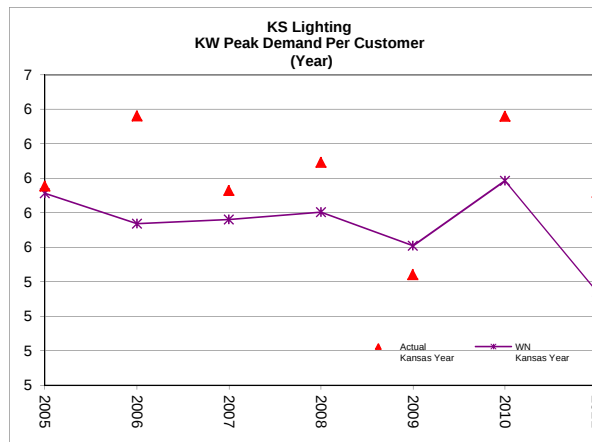
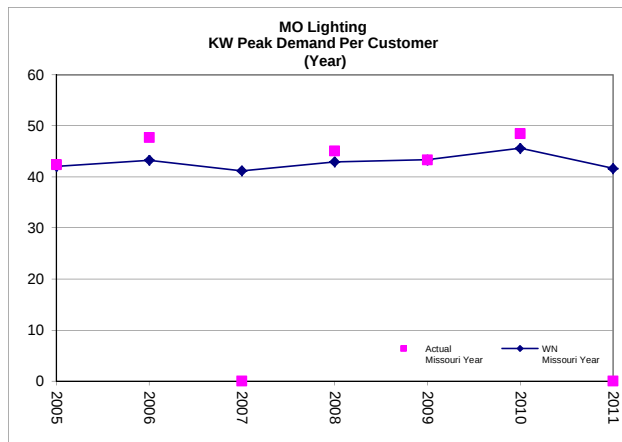
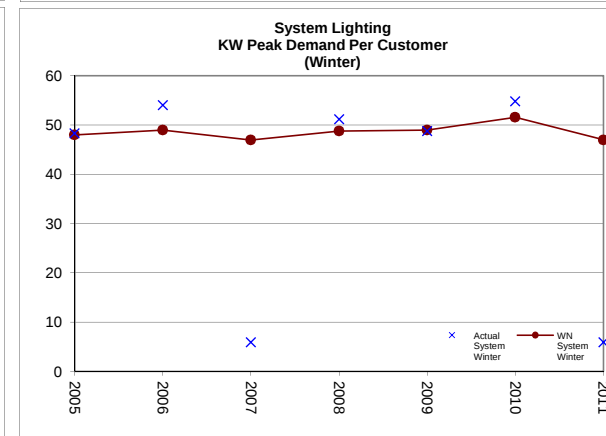
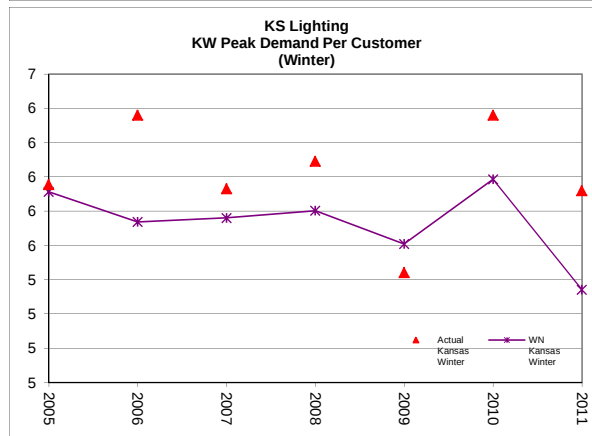
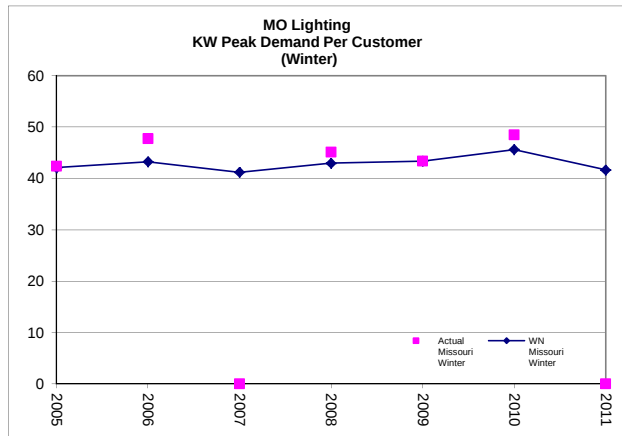
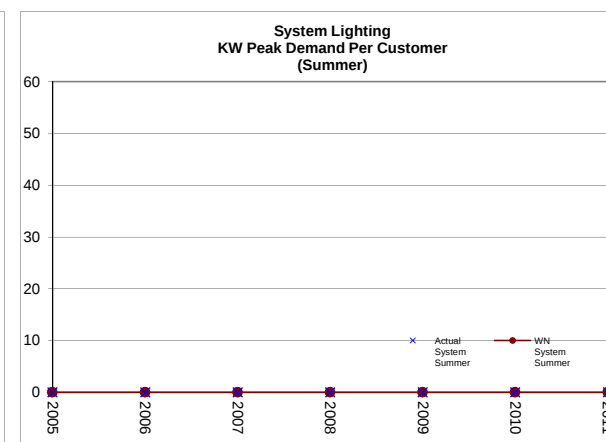
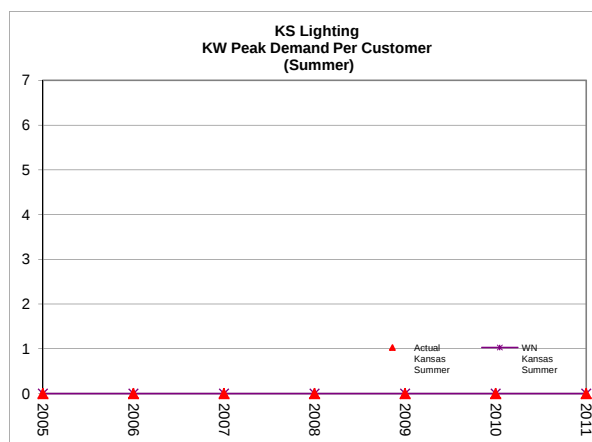
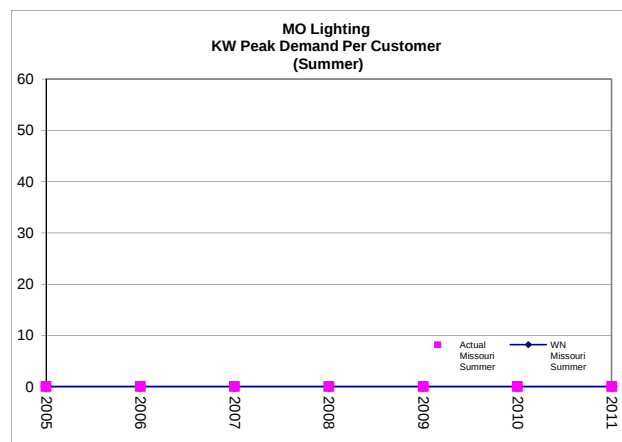
Plot 3A-28 Missouri & Kansas Lighting KW Peak Demand Per Customer
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		
2002																		
2003																		
2004																		
2005	0.0	0.0	42.4	42.1	42.4	42.1	0.0	0.0	6.0	5.9	6.0	5.9	0.0	0.0	48.3	48.0	48.3	48.0
2006	0.0	0.0	47.7	43.2	47.7	43.2	0.0	0.0	6.4	5.7	6.4	5.7	0.0	0.0	54.1	49.0	54.1	49.0
2007	0.0	0.0	0	41.2	0.0	41.2	0.0	0.0	5.9	5.8	5.9	5.8	0.0	0.0	5.9	46.9	5.9	46.9
2008	0.0	0.0	45.1	43.0	45.1	43.0	0.0	0.0	6.1	5.8	6.1	5.8	0.0	0.0	51.2	48.8	51.2	48.8
2009	0.0	0.0	43.4	43.3	43.4	43.3	0.0	0.0	5.4	5.6	5.4	5.6	0.0	0.0	48.8	49.0	48.8	49.0
2010	0.0	0.0	48.5	45.6	48.5	45.6	0.0	0.0	6.4	6.0	6.4	6.0	0.0	0.0	54.8	51.6	54.8	51.6
2011	0.0	0.0	0	41.7	0.0	41.7	0.0	0.0	5.9	5.3	5.9	5.3	0.0	0.0	5.9	47.0	5.9	47.0

05-'10	#DIV/0!	0.0%	2.7%	1.6%	2.7%	1.6%	0.0%	0.0%	1.3%	0.2%	1.3%	0.2%	0.0%	0.0%	2.5%	1.5%	2.5%	1.5%
10-'11	#DIV/0!	0.0%	-100.0%	-8.7%	-100.0%	-8.7%	0.0%	0.0%	-6.9%	-10.8%	-6.9%	-10.8%	0.0%	0.0%	-89.2%	-8.9%	-89.2%	-8.9%
05-'11	0.0%	0.0%	-100.0%	-0.2%	-100.0%	-0.2%	0.0%	0.0%	-0.1%	-1.7%	-0.1%	-1.7%	0.0%	0.0%	-29.5%	-0.4%	-29.5%	-0.4%

*2007 System Peak occurred Feb. 14th at 10am therefore no lighting load.

*2011 System Peak occurred Feb. 3rd at 6pm therefore no lighting load.

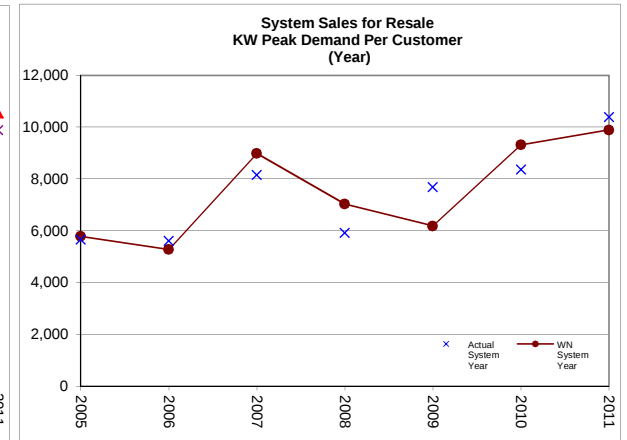
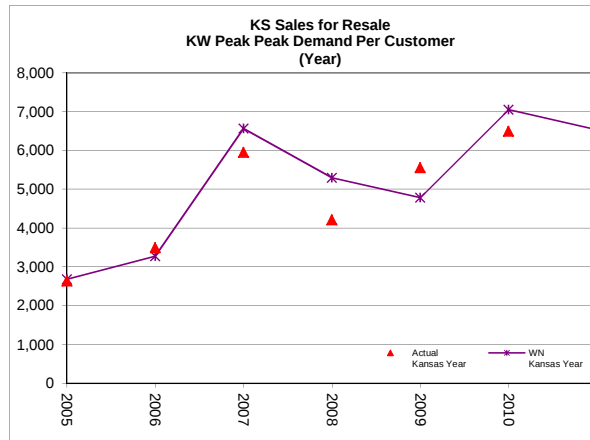
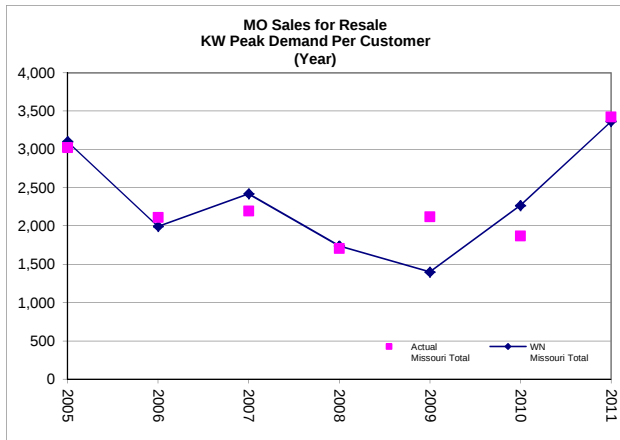
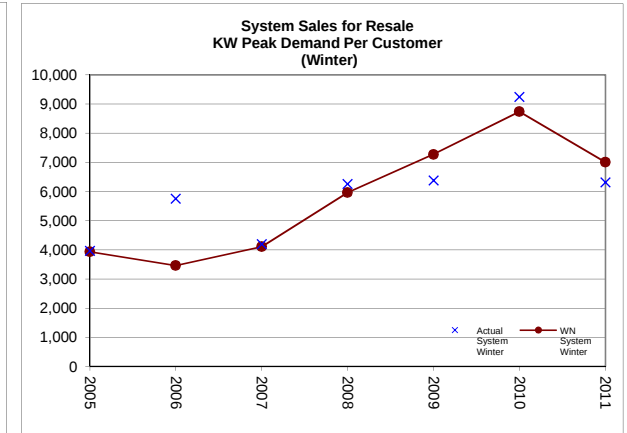
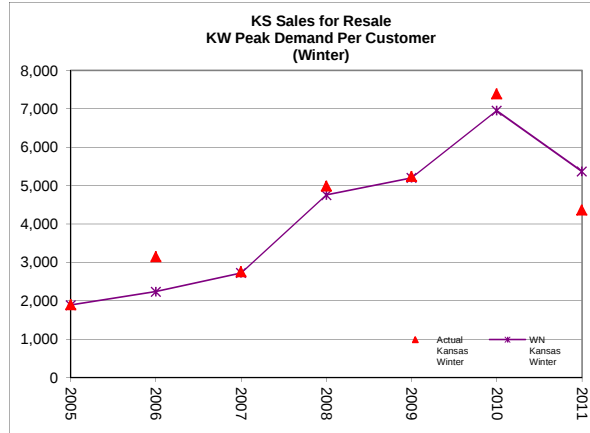
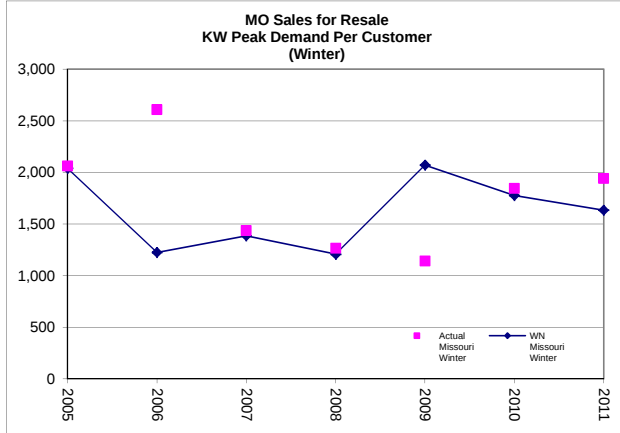
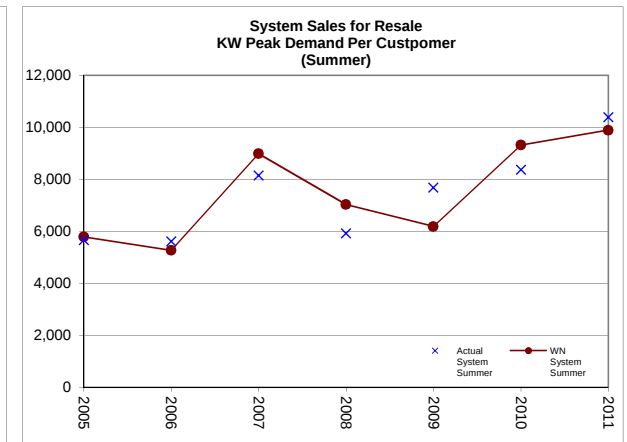
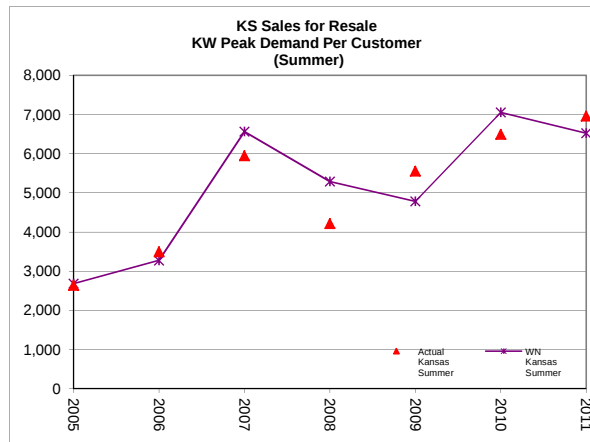
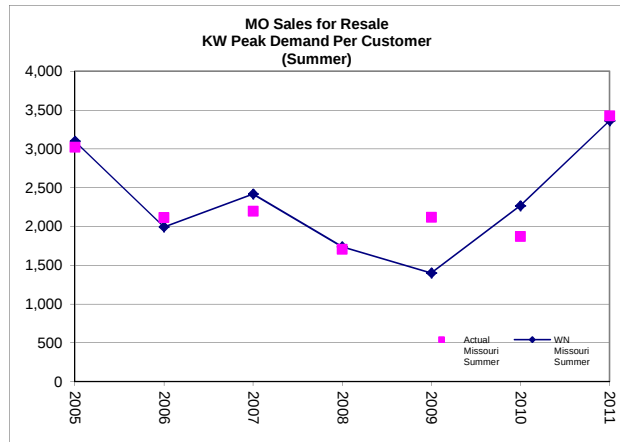


**Plot 3A-29 Missouri & Kansas Sales for Resale KW Peak Demand Per Customer
(Actual vs. Weather Normalized)**

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Total	WN Missouri Total	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		
2002																		
2003																		
2004																		
2005	3,022.6	3,099.4	2,062.1	2,042.0	3,022.6	3,099.4	2,639.7	2,679.2	1,900.2	1,886.6	2,639.7	2,679.2	5,662.3	5,778.7	3,962.3	3,928.6	5,662.3	5,778.7
2006	2,111.5	1,995.0	2,607.6	1,226.0	2,111.5	1,995.0	3,500.5	3,274.4	3,149.4	2,236.8	3,500.5	3,274.4	5,612.0	5,269.4	5,757.0	3,462.8	5,612.0	5,269.4
2007	2,194.6	2,419.1	1,437.8	1,385.6	2,194.6	2,419.1	5,954.5	6,563.6	2,757.9	2,721.4	5,954.5	6,563.6	8,149.2	8,982.7	4,195.7	4,107.1	8,149.2	8,982.7
2008	1,705.2	1,739.7	1,265.0	1,208.3	1,705.2	1,739.7	4,216.1	5,290.4	4,992.7	4,755.2	4,216.1	5,290.4	5,921.4	7,030.0	6,257.6	5,963.6	5,921.4	7,030.0
2009	2,117.8	1,398.4	1,142.2	2,070.7	2,117.8	1,398.4	5,561.9	4,785.0	5,243.3	5,202.7	5,561.9	4,785.0	7,679.7	6,183.4	6,385.5	7,273.4	7,679.7	6,183.4
2010	1,868.3	2,267.8	1,844.4	1,777.4	1,868.3	2,267.8	6,501.6	7,050.3	7,393.8	6,956.8	6,501.6	7,050.3	8,369.9	9,318.1	9,238.1	8,734.2	8,369.9	9,318.1
2011	3,424.3	3,364.1	1,940.6	1,635.0	3,424.3	3,364.1	6,967.1	6,525.6	4,368.6	5,370.1	6,967.1	6,525.6	10,391.4	9,889.8	6,309.1	7,005.0	10,391.4	9,889.8

05-'10	-9.2%	-6.1%	-2.2%	-2.7%	-9.2%	-6.1%	19.8%	21.3%	31.2%	29.8%	19.8%	21.3%	8.1%	10.0%	18.4%	17.3%	8.1%	10.0%
10-'11	83.3%	48.3%	5.2%	-8.0%	83.3%	48.3%	7.2%	-7.4%	-40.9%	-22.8%	7.2%	-7.4%	24.2%	6.1%	-31.7%	-19.8%	24.2%	6.1%
05-'11	2.1%	1.4%	-1.0%	-3.6%	2.1%	1.4%	17.6%	16.0%	14.9%	19.0%	17.6%	16.0%	10.6%	9.4%	8.1%	10.1%	10.6%	9.4%

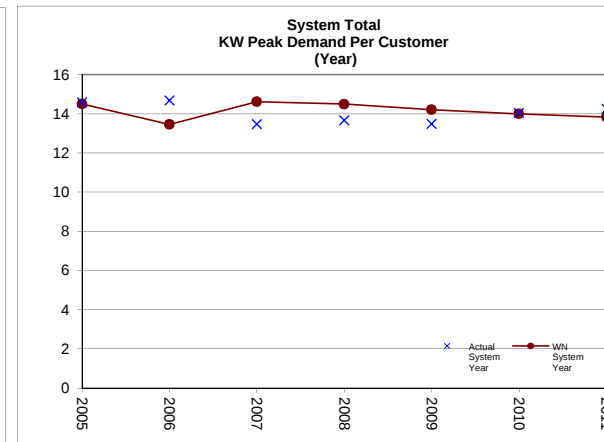
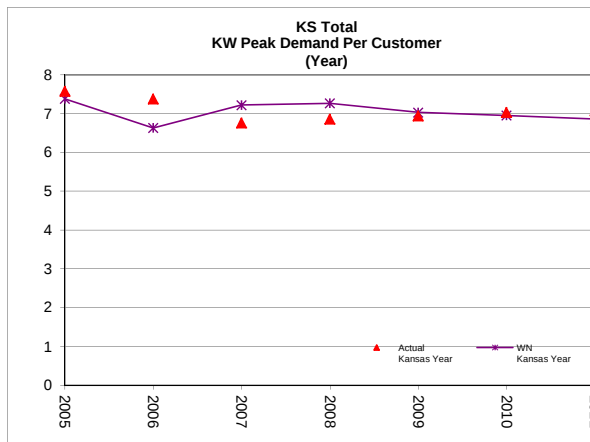
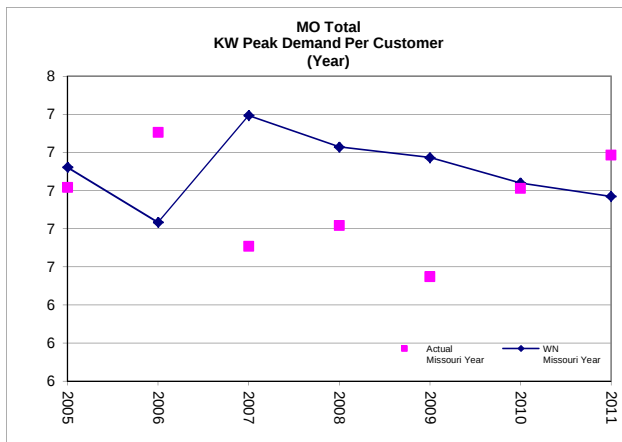
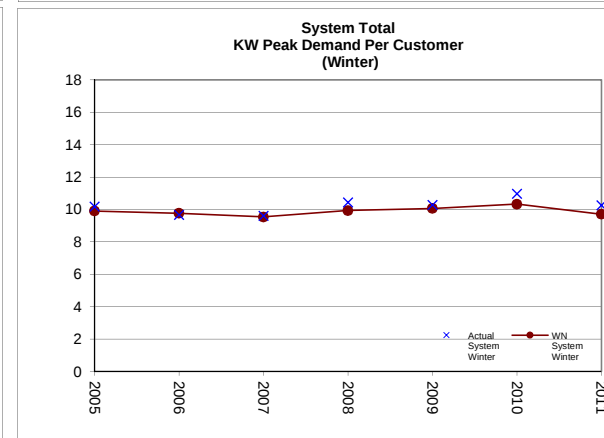
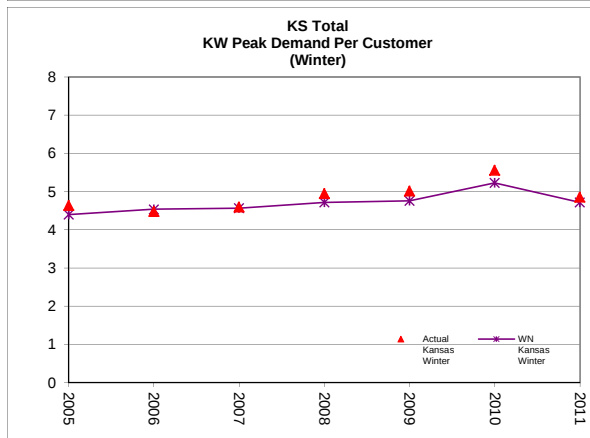
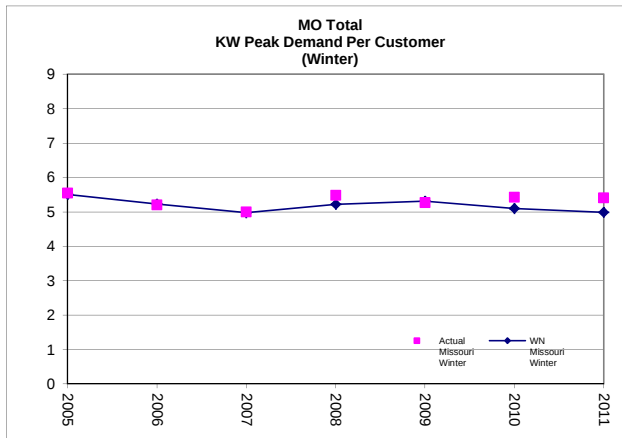
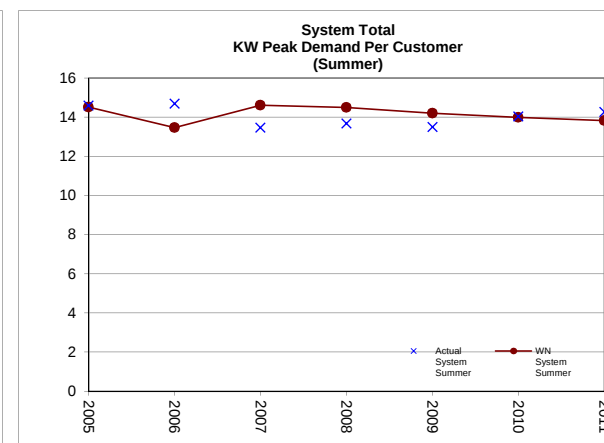
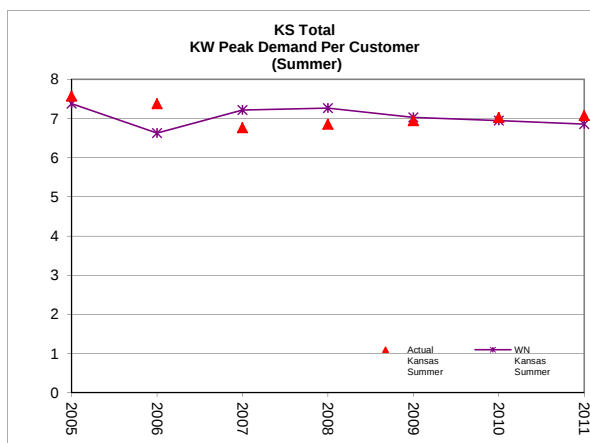
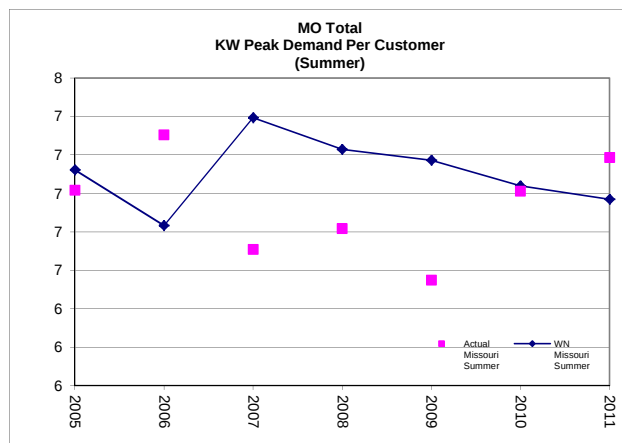
*SFR 2006 winter actual peak occurred in a different month than the weather normalized peak.



Plot 3A-30 Missouri & Kansas Total KW Peak Demand Per Customer
(Actual vs. Weather Normalized)

Year	Actual Missouri Summer	WN Missouri Summer	Actual Missouri Winter	WN Missouri Winter	Actual Missouri Year	WN Missouri Year	Actual Kansas Summer	WN Kansas Summer	Actual Kansas Winter	WN Kansas Winter	Actual Kansas Year	WN Kansas Year	Actual System Summer	WN System Summer	Actual System Winter	WN System Winter	Actual System Year	WN System Year
1995																		
1996																		
1997																		
1998																		
1999																		
2000																		
2001																		
2002																		
2003																		
2004																		
2005	7.0	7.1	5.5	5.5	7.0	7.1	7.6	7.4	4.6	4.4	7.6	7.4	14.6	14.5	10.2	9.9	14.6	14.5
2006	7.3	6.8	5.2	5.2	7.3	6.8	7.4	6.6	4.5	4.5	7.4	6.6	14.7	13.5	9.7	9.8	14.7	13.5
2007	6.7	7.4	5.0	5.0	6.7	7.4	6.8	7.2	4.6	4.6	6.8	7.2	13.5	14.6	9.6	9.5	13.5	14.6
2008	6.8	7.2	5.5	5.2	6.8	7.2	6.9	7.3	4.9	4.7	6.9	7.3	13.7	14.5	10.4	9.9	13.7	14.5
2009	6.5	7.2	5.3	5.3	6.5	7.2	6.9	7.0	5.0	4.8	6.9	7.0	13.5	14.2	10.3	10.1	13.5	14.2
2010	7.0	7.0	5.4	5.1	7.0	7.0	7.0	7.0	5.6	5.2	7.0	7.0	14.0	14.0	11.0	10.3	14.0	14.0
2011	7.2	7.0	5.4	5.0	7.2	7.0	7.1	6.9	4.9	4.7	7.1	6.9	14.3	13.8	10.3	9.7	14.3	13.8

05-'10	0.0%	-0.2%	-0.5%	-1.5%	0.0%	-0.2%	-1.5%	-1.2%	3.7%	3.5%	-1.5%	-1.2%	-0.8%	-0.7%	1.5%	0.8%	-0.8%	-0.7%
10-'11	2.5%	-1.0%	-0.4%	-2.2%	2.5%	-1.0%	0.6%	-1.3%	-12.6%	-9.8%	0.6%	-1.3%	1.5%	-1.1%	-6.6%	-6.0%	1.5%	-1.1%
05-'11	0.4%	-0.4%	-0.4%	-1.6%	0.4%	-0.4%	-1.1%	-1.2%	0.8%	1.2%	-1.1%	-1.2%	-0.4%	-0.8%	0.1%	-0.3%	-0.4%	-0.8%



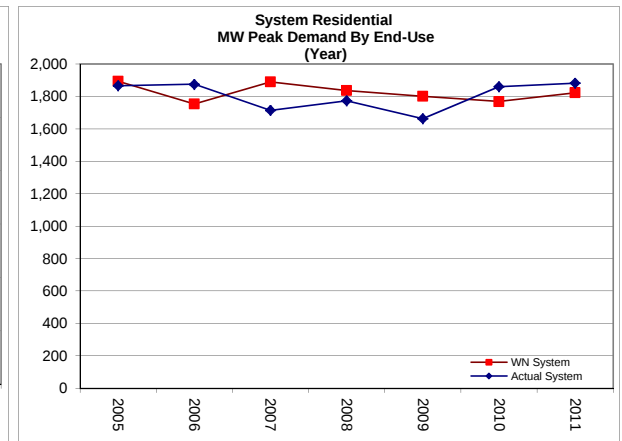
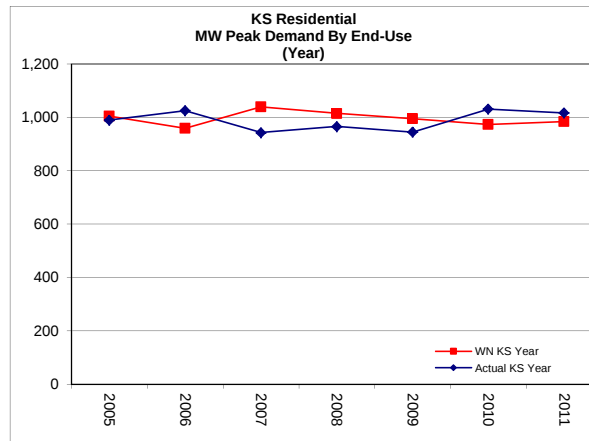
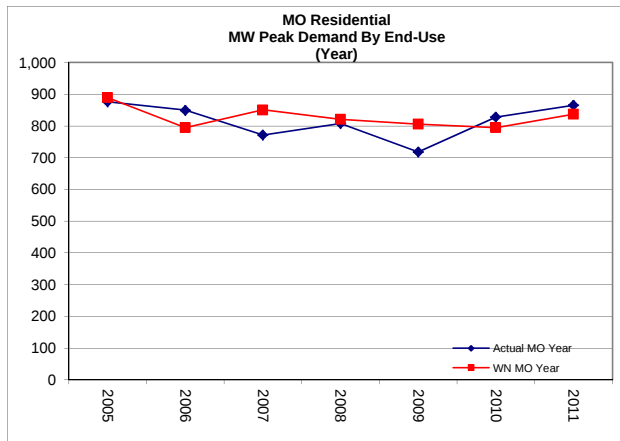
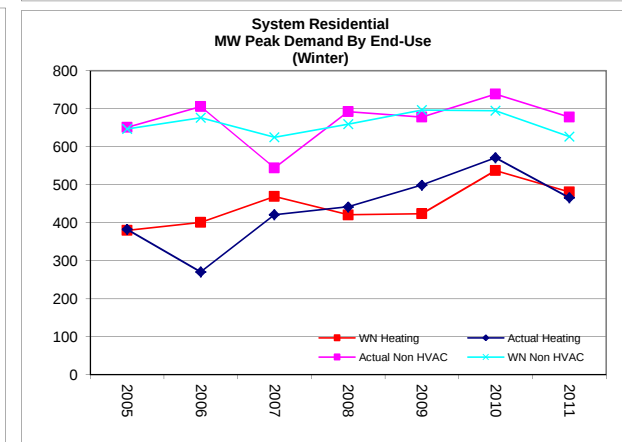
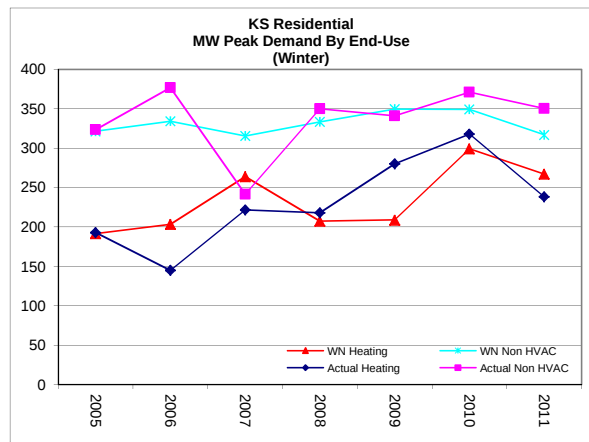
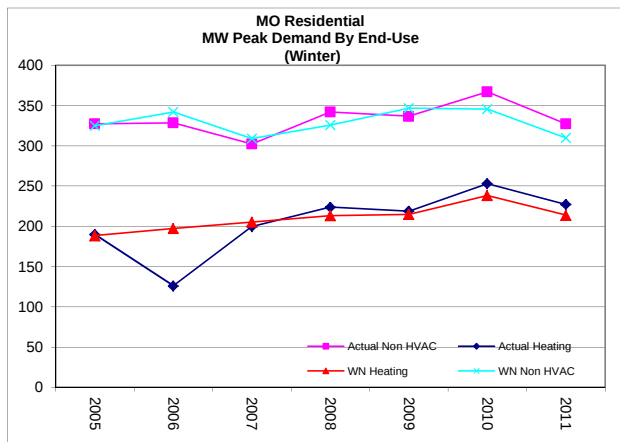
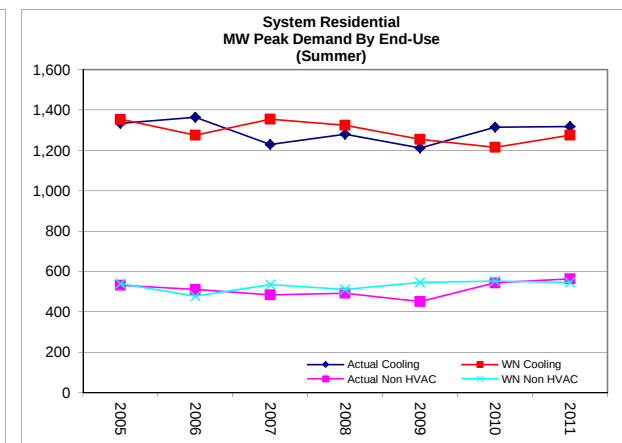
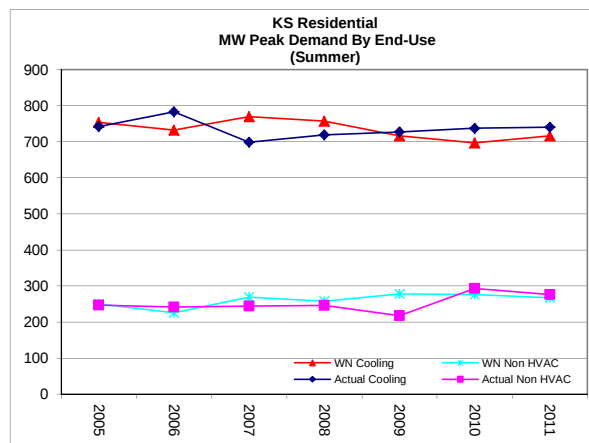
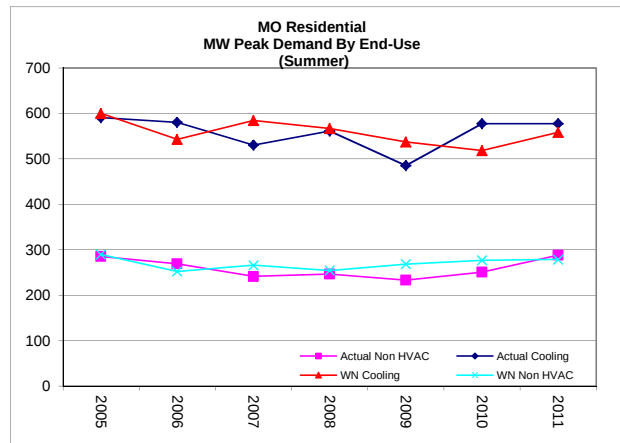
Plot 3A-31 Missouri & Kansas Residential MW Peak Demand By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	591.3	600.1	189.8	188.4	285.0	289.3	327.4	325.0	876.3	889.4	742.4	753.5	192.9	191.5	247.0	250.7	323.7	321.4	989.4	1,004.3
2006	580.5	543.0	126.0	197.4	269.1	251.8	328.5	342.2	849.7	794.8	783.1	732.5	144.8	203.4	241.8	226.2	376.9	334.3	1,024.9	958.7
2007	530.6	584.9	199.6	205.3	241.1	265.8	302.4	308.9	771.7	850.7	698.5	769.9	221.7	263.9	244.2	269.1	241.8	315.7	942.6	1,039.0
2008	561.1	567.0	223.8	213.1	246.7	254.0	342.1	325.9	807.8	821.0	718.8	756.8	217.9	207.6	246.6	257.7	349.9	333.3	965.4	1,014.6
2009	485.1	537.5	218.9	214.7	232.9	268.5	336.7	346.9	718.1	806.1	726.9	716.5	280.1	208.9	217.9	278.4	341.1	349.5	944.8	994.9
2010	577.6	518.1	253.1	238.1	250.6	276.5	367.2	345.5	828.2	794.6	737.2	696.5	318.0	299.2	293.6	276.6	371.1	349.2	1,030.9	973.2
2011	577.6	558.9	227.2	213.8	287.8	278.5	327.3	309.7	865.4	837.4	740.2	716.6	238.4	267.2	276.2	267.4	350.4	317.0	1,016.4	984.0

05-'10	-0.5%	-2.9%	5.9%	4.8%	-2.5%	-0.9%	2.3%	1.2%	-1.1%	-2.2%	-0.1%	-1.6%	10.5%	9.3%	3.5%	2.0%	2.8%	1.7%	0.8%	-0.6%
10-'11	0.0%	7.9%	-10.2%	-10.2%	14.8%	0.7%	-10.9%	-10.4%	4.5%	5.4%	0.4%	2.9%	-25.0%	-10.7%	-5.9%	-3.3%	-5.6%	-9.2%	-1.4%	1.1%
05-'11	-0.4%	-1.2%	3.0%	2.1%	0.2%	-0.6%	0.0%	-0.8%	-0.2%	-1.0%	0.0%	-0.8%	3.6%	5.7%	1.9%	1.1%	1.3%	-0.2%	0.4%	-0.3%

Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-
2005	1,333.7	1,353.7	382.7	379.9	532.1	540.0	651.1	646.4	1,865.8	1,893.7
2006	1,363.7	1,275.6	270.7	400.7	510.9	477.9	705.4	676.5	1,874.6	1,753.5
2007	1,229.1	1,354.8	421.3	469.1	485.3	534.9	544.1	624.6	1,714.4	1,889.7
2008	1,279.9	1,323.9	441.7	420.7	493.2	511.7	692.0	659.1	1,773.2	1,835.6
2009	1,212.1	1,254.1	499.0	423.7	450.8	546.9	677.8	696.4	1,662.9	1,801.0
2010	1,314.9	1,214.6	571.1	537.4	544.2	553.1	738.3	694.7	1,859.1	1,767.7
2011	1,317.8	1,275.5	465.6	481.1	564.0	545.9	677.7	626.7	1,881.8	1,821.4

05-'10	-0.3%	-2.1%	8.3%	7.2%	0.5%	0.5%	2.5%	1.5%	-0.1%	-1.4%
10-'11	0.2%	5.0%	-18.5%	-10.5%	3.6%	-1.3%	-8.2%	-9.8%	1.2%	3.0%
95-'11	-0.2%	-1.0%	3.3%	4.0%	1.0%	0.2%	0.7%	-0.5%	0.1%	-0.6%



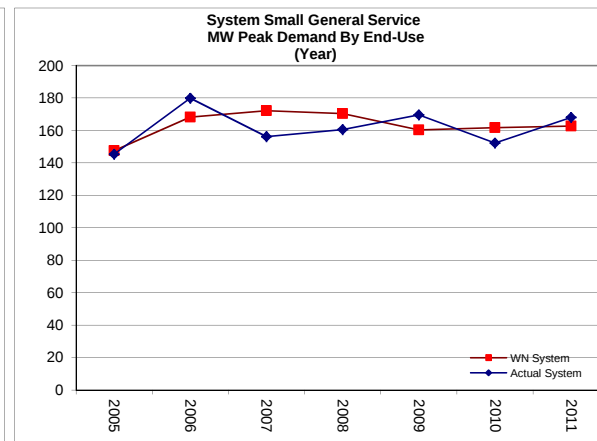
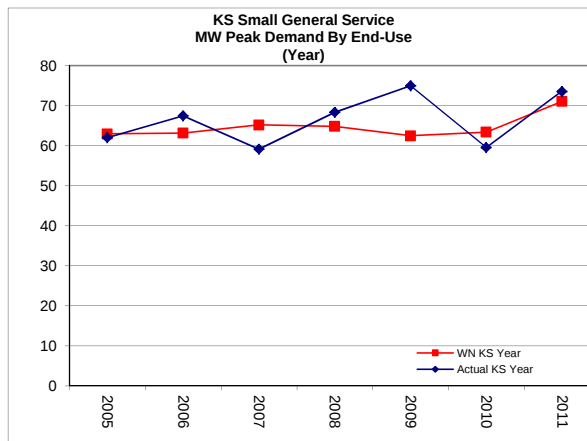
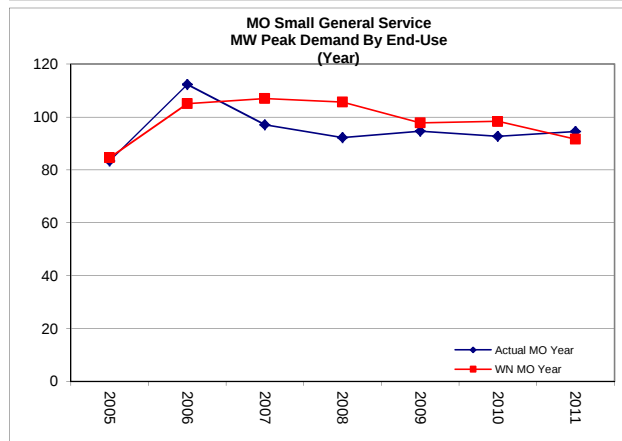
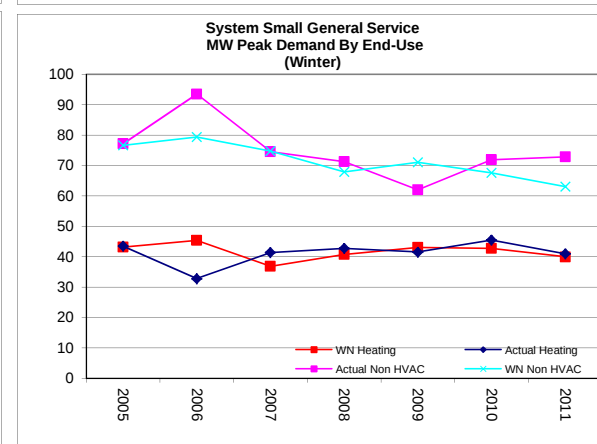
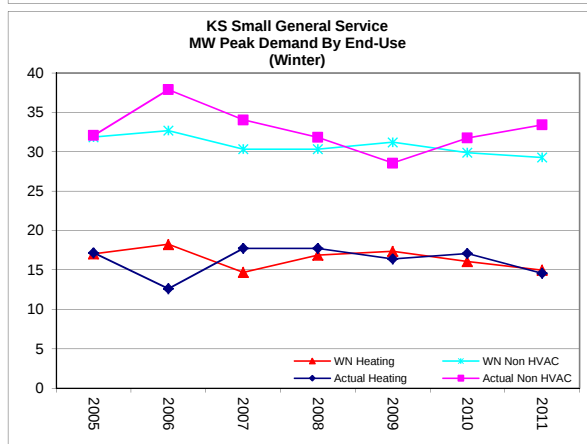
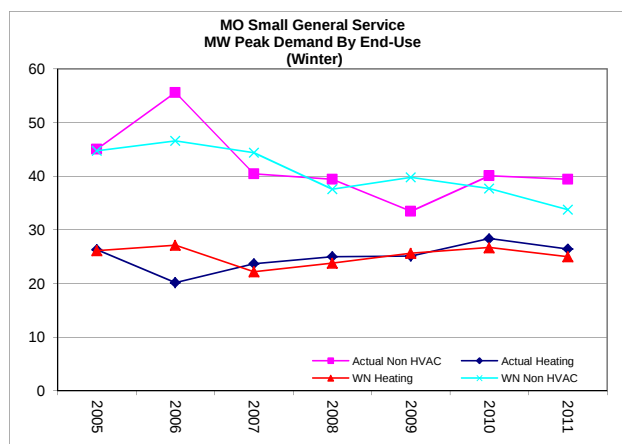
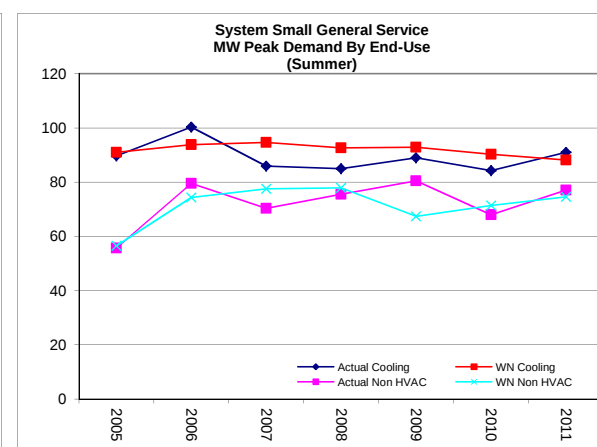
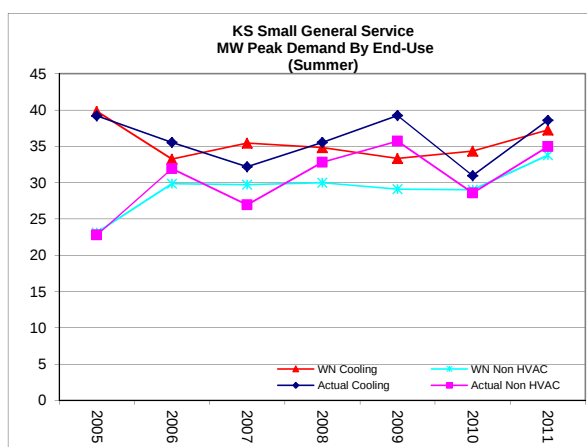
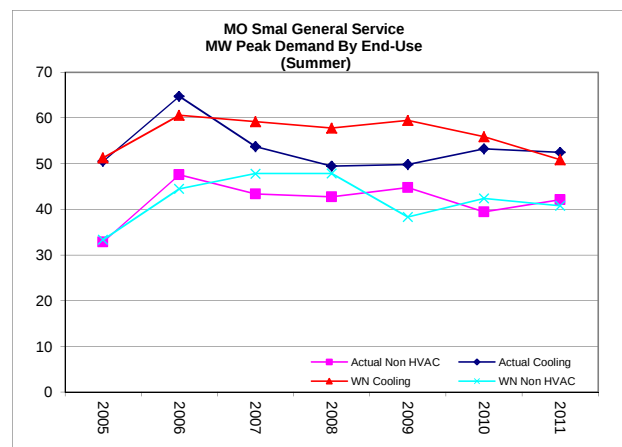
Plot 3A-32 Missouri & Kansas Small General Service MW Peak Demand By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	50.5	51.2	26.3	26.2	32.9	33.4	45.1	44.7	83.4	84.6	39.2	39.8	17.2	17.0	22.8	23.1	32.1	31.9	62.0	62.9
2006	64.7	60.6	20.2	27.1	47.6	44.5	55.6	46.6	112.3	105.1	35.5	33.2	12.6	18.3	31.9	29.9	37.9	32.7	67.5	63.1
2007	53.7	59.2	23.7	22.2	43.4	47.8	40.4	44.4	97.1	107.0	32.2	35.5	17.7	14.7	26.9	29.7	34.0	30.4	59.1	65.2
2008	49.4	57.8	25.0	23.8	42.7	47.9	39.5	37.6	92.2	105.6	35.5	34.8	17.7	16.9	32.8	30.0	31.8	30.3	68.3	64.8
2009	49.8	59.5	25.1	25.7	44.8	38.3	33.5	39.8	94.6	97.8	39.2	33.4	16.4	17.4	35.7	29.1	28.6	31.2	74.9	62.4
2010	53.2	55.9	28.4	26.7	39.4	42.4	40.1	37.7	92.7	98.3	31.0	34.3	17.1	16.1	28.6	29.0	31.8	29.9	59.6	63.4
2011	52.4	50.8	26.4	25.0	42.1	40.8	39.4	33.8	94.5	91.6	38.6	37.3	14.6	15.0	35.0	33.8	33.4	29.3	73.6	71.0

05-'10	1.1%	1.8%	1.5%	0.4%	3.7%	4.9%	-2.3%	-3.3%	2.1%	3.0%	-4.6%	-2.9%	-0.1%	-1.2%	4.6%	4.6%	-0.2%	-1.3%	-0.8%	0.1%
10-'11	-1.5%	-9.1%	-6.9%	-6.4%	6.7%	-3.8%	-1.7%	-10.6%	2.0%	-6.8%	24.6%	8.6%	-14.8%	-6.9%	22.3%	16.3%	5.2%	-2.0%	23.5%	12.1%
05-'11	0.6%	-0.1%	0.1%	-0.7%	4.2%	3.4%	-2.2%	-4.6%	2.1%	1.3%	-0.3%	-1.1%	-2.7%	-2.1%	7.4%	6.5%	0.7%	-1.4%	2.9%	2.0%

Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-
2005	89.7	91.0	43.5	43.2	55.7	56.5	77.1	76.6	145.4	147.6
2006	100.3	93.8	32.8	45.4	79.5	74.4	93.5	79.3	179.8	168.2
2007	85.9	94.7	41.4	36.9	70.3	77.5	74.5	74.7	156.2	172.2
2008	85.0	92.6	42.8	40.7	75.5	77.9	71.3	67.9	160.5	170.5
2009	89.0	92.9	41.5	43.0	80.5	67.4	62.0	71.0	169.5	160.2
2010	84.2	90.2	45.5	42.8	68.0	71.4	71.9	67.6	152.2	161.7
2011	91.0	88.1	41.0	40.0	77.0	74.6	72.8	63.0	168.1	162.7

05-'10	-1.3%	-0.2%	0.9%	-0.2%	4.1%	4.8%	-1.4%	-2.5%	0.9%	1.8%
10-'11	8.1%	-2.4%	-9.9%	-6.6%	13.3%	4.4%	1.4%	-6.8%	10.4%	0.6%
95-'11	0.2%	-0.5%	-1.0%	-1.3%	5.6%	4.7%	-1.0%	-3.2%	2.4%	1.6%



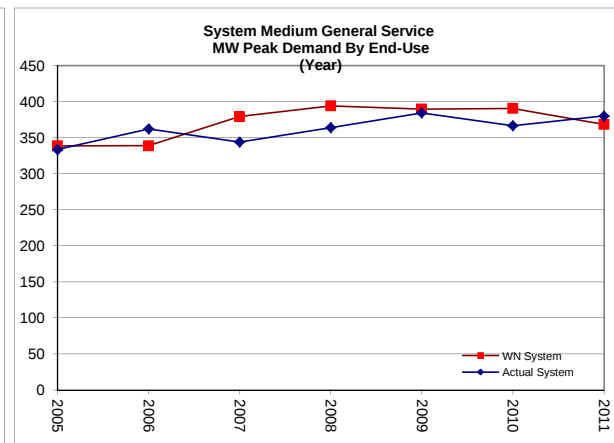
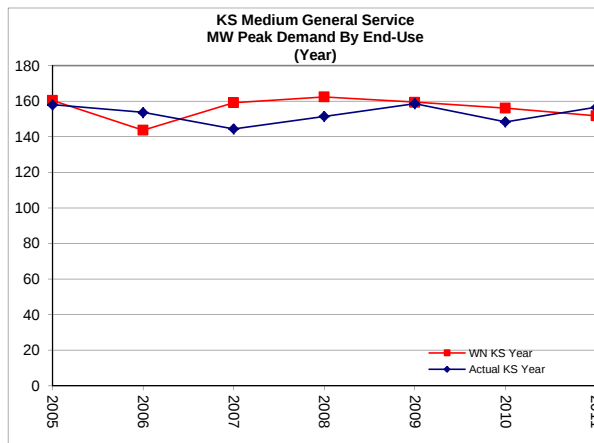
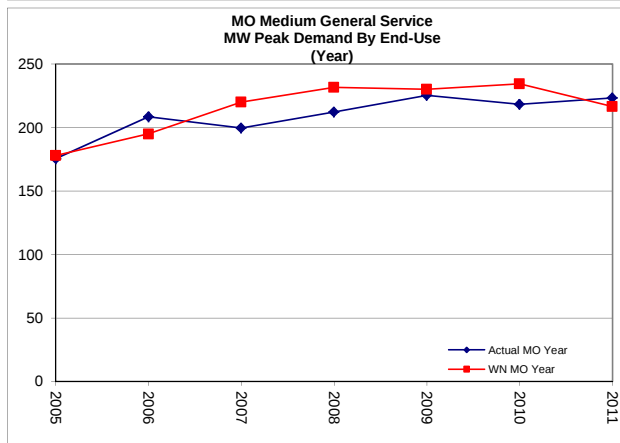
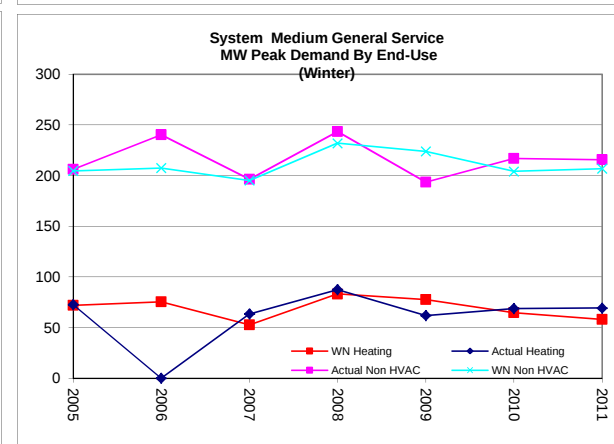
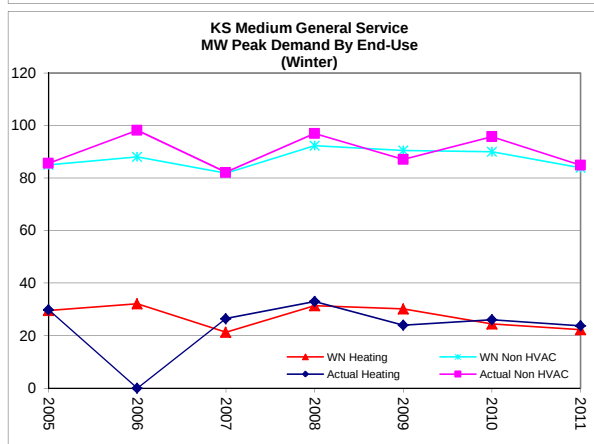
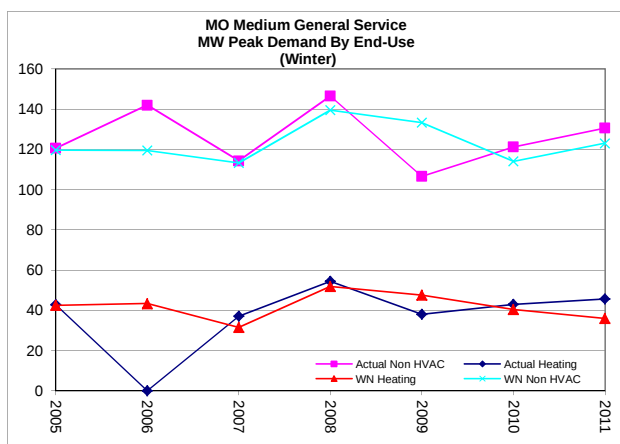
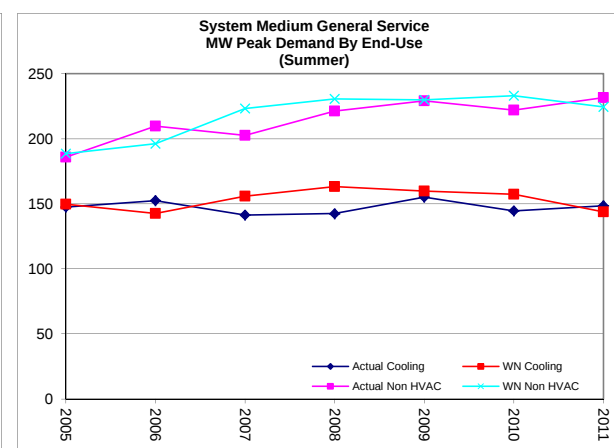
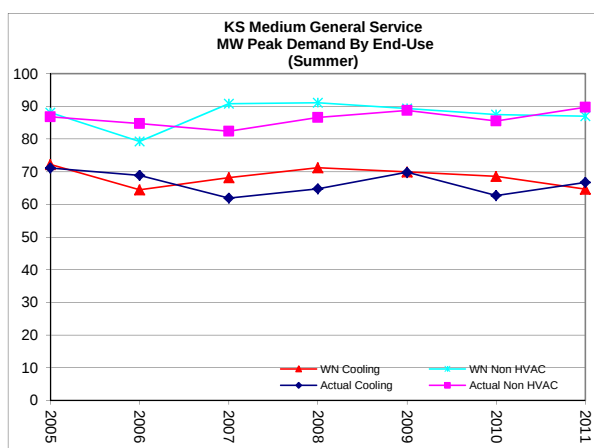
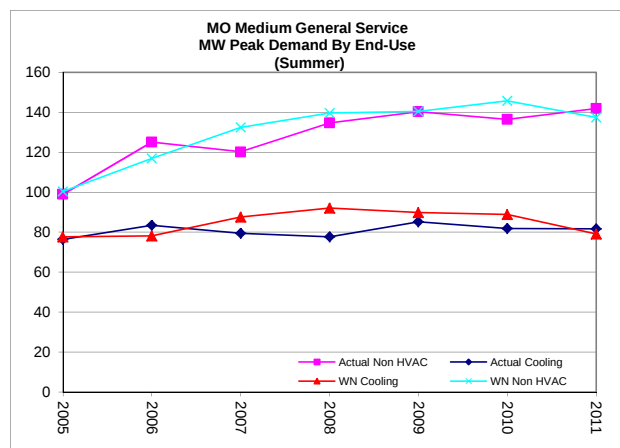
Plot 3A-33 Missouri & Kansas Medium General Service MW Peak Demand By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	76.5	77.6	42.9	42.6	99.0	100.4	120.5	119.7	175.4	178.0	71.1	72.2	29.8	29.6	86.8	88.1	85.7	85.0	158.0	160.3
2006	83.5	78.1	-	43.4	125.0	116.9	142.0	119.5	208.5	195.0	68.9	64.5	-	32.1	84.7	79.3	98.2	88.1	153.6	143.7
2007	79.5	87.6	37.1	31.6	120.2	132.5	114.3	113.3	199.7	220.1	61.9	68.2	26.5	21.3	82.4	90.8	82.2	81.9	144.3	159.1
2008	77.7	92.1	54.5	51.9	134.6	139.5	146.5	139.6	212.3	231.7	64.8	71.2	32.9	31.4	86.7	91.1	97.0	92.4	151.4	162.4
2009	85.2	89.9	38.0	47.6	140.3	140.4	106.5	133.3	225.5	230.3	69.8	70.0	23.9	30.2	88.8	89.4	87.1	90.5	158.6	159.4
2010	81.8	88.8	43.0	40.5	136.5	145.6	121.3	114.1	218.3	234.5	62.7	68.6	26.0	24.5	85.6	87.5	95.7	90.1	148.3	156.1
2011	81.7	79.2	45.7	36.0	141.8	137.4	130.7	123.1	223.5	216.6	66.8	64.7	23.7	22.3	89.7	87.0	84.9	83.9	156.5	151.7

05-'10	1.4%	2.7%	0.1%	-1.0%	6.6%	7.7%	0.1%	-0.9%	4.5%	5.7%	-2.5%	-1.0%	-2.7%	-3.8%	-0.3%	-0.1%	2.2%	1.2%	-1.3%	-0.5%
10-'11	-0.1%	-10.8%	6.3%	-11.1%	3.9%	-5.7%	7.8%	7.8%	2.4%	-7.6%	6.4%	-5.7%	-8.9%	-8.9%	4.9%	-0.6%	-11.3%	-6.9%	5.5%	-2.8%
05-'11	1.1%	0.3%	1.1%	-2.8%	6.2%	5.4%	1.4%	0.5%	4.1%	3.3%	-1.1%	-1.8%	-3.8%	-4.6%	0.6%	-0.2%	-0.2%	-0.2%	-0.2%	-0.9%

Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-
2005	147.6	149.8	72.7	72.2	185.8	188.5	206.2	204.7	333.4	338.4
2006	152.4	142.6	-	75.5	209.7	196.2	240.2	207.5	362.1	338.7
2007	141.4	155.9	63.6	52.9	202.6	223.3	196.5	195.2	344.0	379.2
2008	142.5	163.3	87.4	83.3	221.3	230.7	243.5	231.9	363.7	394.0
2009	155.0	159.8	62.0	77.8	229.1	229.8	193.7	223.8	384.1	389.7
2010	144.5	157.4	69.0	64.9	222.0	233.1	217.0	204.2	366.6	390.5
2011	148.5	143.9	69.4	58.3	231.5	224.4	215.6	207.0	380.0	368.3

05-'10	-0.4%	1.0%	-1.0%	-2.1%	3.6%	4.3%	1.0%	-0.1%	1.9%	2.9%
10-'11	2.7%	-8.6%	0.6%	-10.3%	4.3%	-3.7%	-0.7%	1.4%	3.7%	-5.7%
95-'11	0.1%	-0.7%	-0.8%	-3.5%	3.7%	2.9%	0.7%	0.2%	2.2%	1.4%



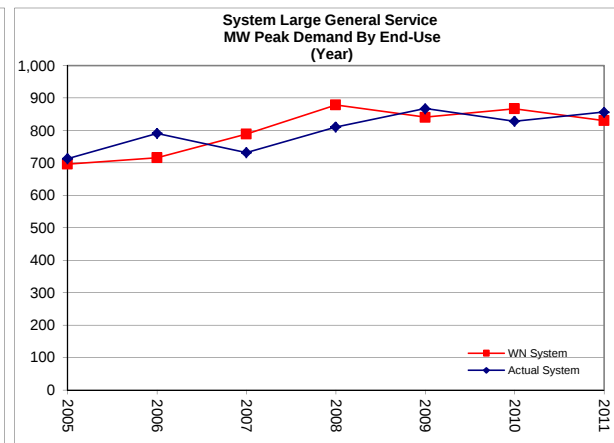
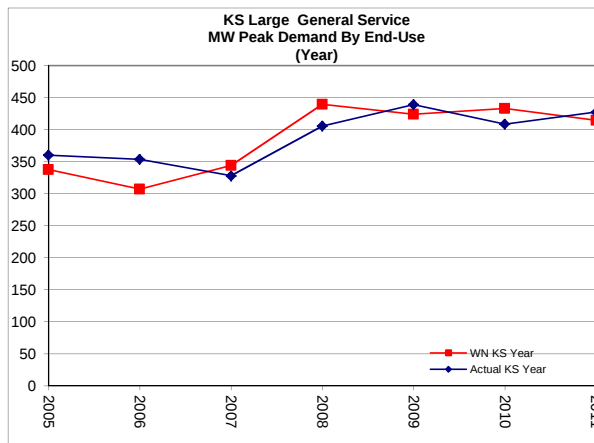
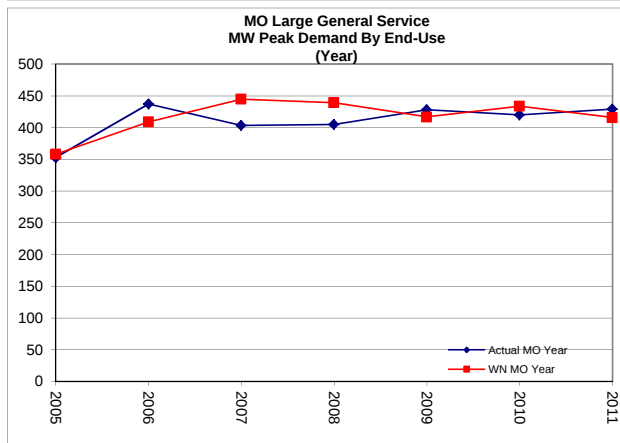
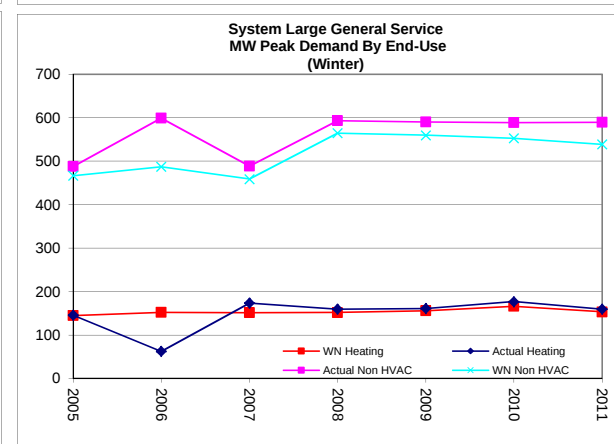
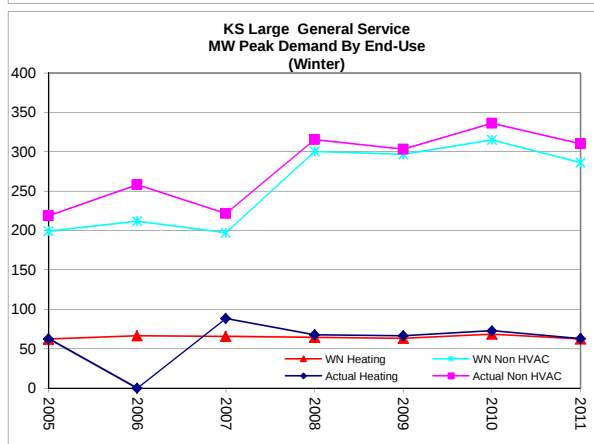
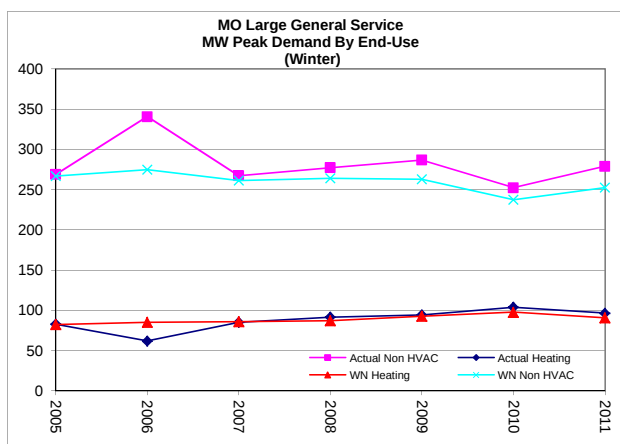
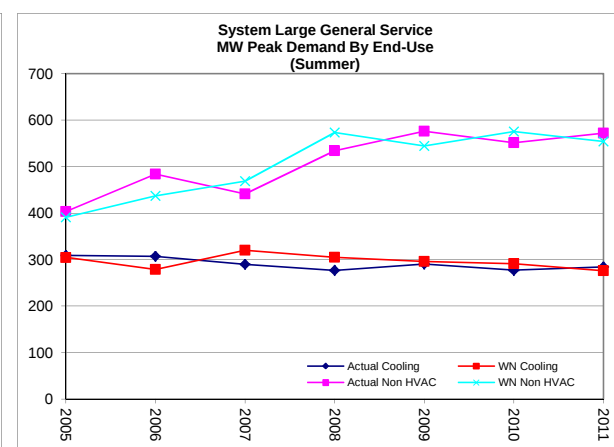
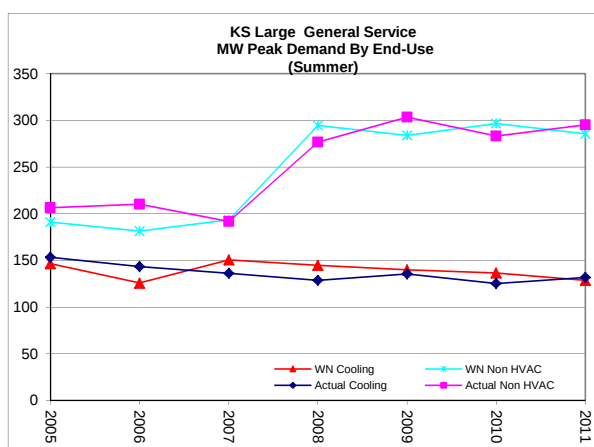
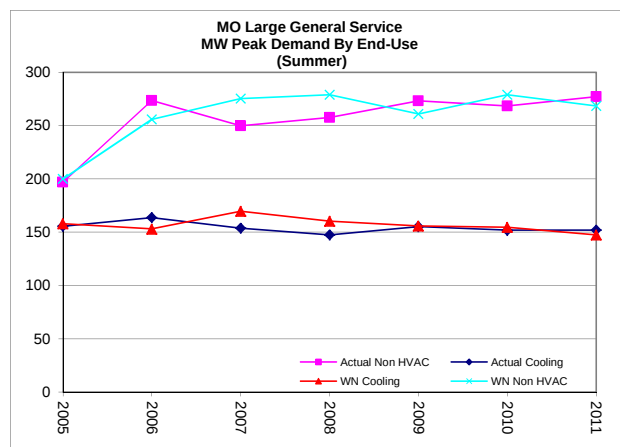
Plot 3A-34 Missouri & Kansas Large General Service MW Peak Demand By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	155.7	158.0	82.9	82.3	197.1	200.0	269.0	267.1	352.8	358.0	153.4	146.6	62.7	62.2	206.5	191.1	218.8	199.4	359.9	337.7
2006	163.6	153.0	62.0	85.4	273.5	255.8	340.6	274.7	437.0	408.8	143.3	125.7	-	66.5	210.3	181.3	258.3	212.1	353.6	307.1
2007	153.8	169.5	85.2	85.9	249.8	275.3	267.2	261.3	403.6	444.9	136.2	150.5	88.3	65.6	191.6	193.5	221.5	197.4	327.8	344.0
2008	147.6	160.5	91.5	87.2	257.5	278.8	277.2	264.1	405.1	439.2	128.8	144.7	67.7	64.5	276.8	294.6	315.7	300.4	405.6	439.3
2009	155.2	156.0	94.4	92.7	273.1	260.8	286.9	262.9	428.3	416.8	135.4	140.0	66.4	63.3	303.4	283.9	303.3	296.7	438.8	423.9
2010	151.8	154.7	103.9	97.7	268.3	278.8	252.4	237.5	420.1	433.5	125.2	136.6	72.8	68.5	283.2	296.6	336.2	315.2	408.4	433.1
2011	152.1	147.4	96.6	90.8	277.0	268.5	279.1	252.6	429.1	415.8	131.9	128.6	63.0	62.3	295.4	285.8	310.4	286.3	427.2	414.3

05-'10	-0.5%	-0.4%	4.6%	3.5%	6.4%	6.9%	-1.3%	-2.3%	3.6%	3.9%	-4.0%	-1.4%	3.1%	2.0%	6.5%	9.2%	9.0%	9.6%	2.6%	5.1%
10-'11	0.2%	-4.7%	-7.0%	-7.1%	3.2%	-3.7%	10.6%	6.4%	2.1%	-4.1%	5.3%	-5.8%	-13.5%	-9.1%	4.3%	-3.6%	-7.7%	-9.2%	4.6%	-4.3%
05-'11	-0.4%	-1.2%	2.6%	1.7%	5.8%	5.0%	0.6%	-0.9%	3.3%	2.5%	-2.5%	-2.2%	0.1%	0.0%	6.1%	6.9%	6.0%	6.2%	2.9%	3.5%

Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-
2005	309.1	304.6	145.5	144.5	403.6	391.2	487.8	466.5	712.7	695.7
2006	306.8	278.7	62.0	151.8	483.8	437.1	599.0	486.8	790.6	715.9
2007	290.0	320.1	173.6	151.4	441.4	468.9	488.7	458.7	731.4	788.9
2008	276.4	305.2	159.2	151.7	534.3	573.4	592.9	564.5	810.7	878.6
2009	290.6	296.0	160.8	155.9	576.5	544.6	590.1	559.6	867.1	840.6
2010	277.0	291.3	176.7	166.3	551.6	575.4	588.6	552.6	828.6	866.6
2011	284.0	276.0	159.6	153.1	572.4	554.2	589.5	538.9	856.3	830.2

05-'10	-2.2%	-0.9%	4.0%	2.8%	6.4%	8.0%	3.8%	3.4%	3.1%	4.5%
10-'11	2.5%	-5.3%	-9.7%	-7.9%	3.8%	-3.7%	0.1%	-2.5%	3.3%	-4.2%
95-'11	-1.4%	-1.6%	1.5%	1.0%	6.0%	6.0%	3.2%	2.4%	3.1%	3.0%



Plot 3A-35 Missouri & Kansas Total Large Power MW Peak Demand By End-Use

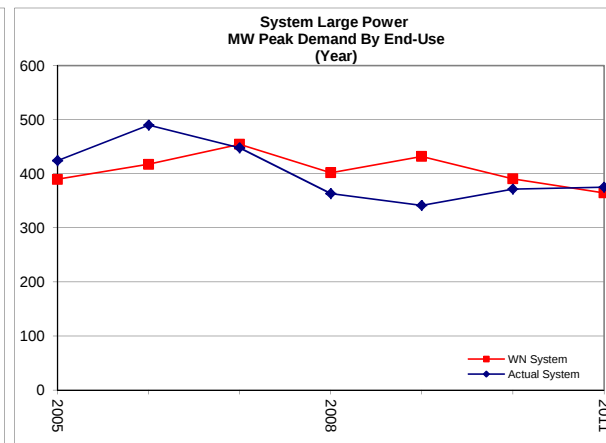
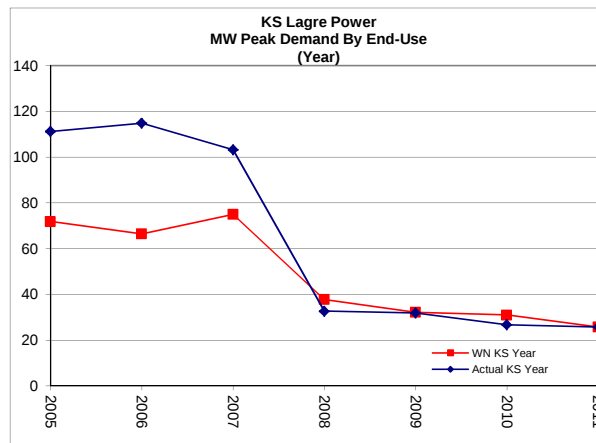
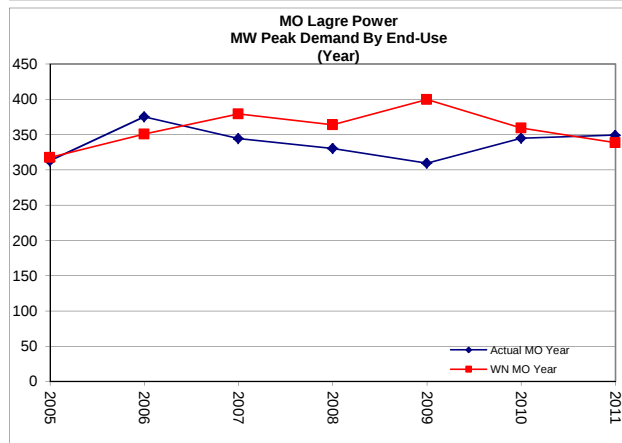
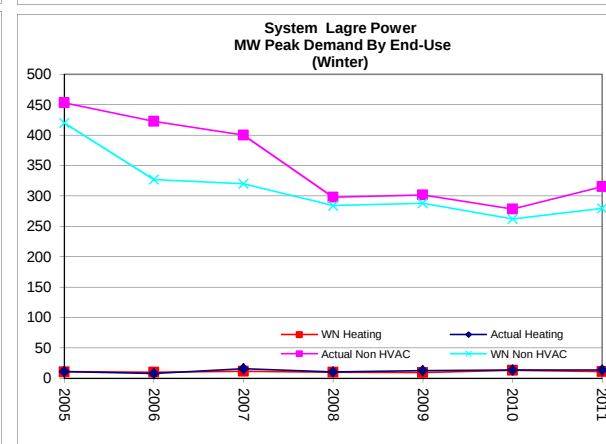
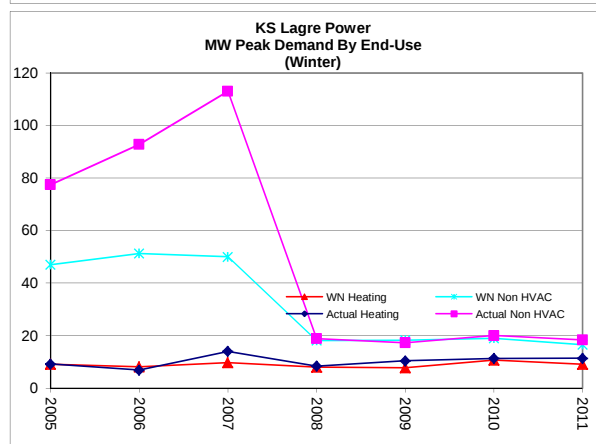
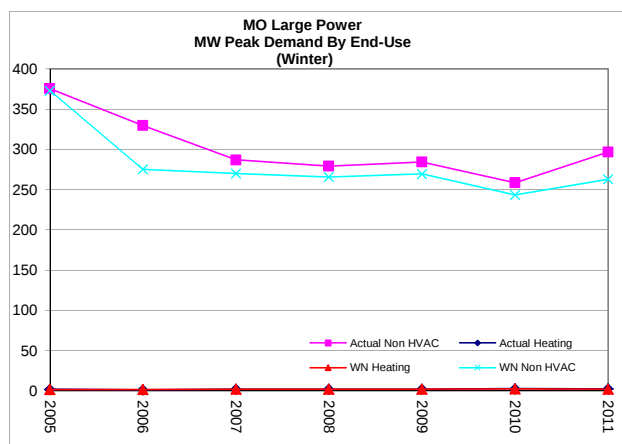
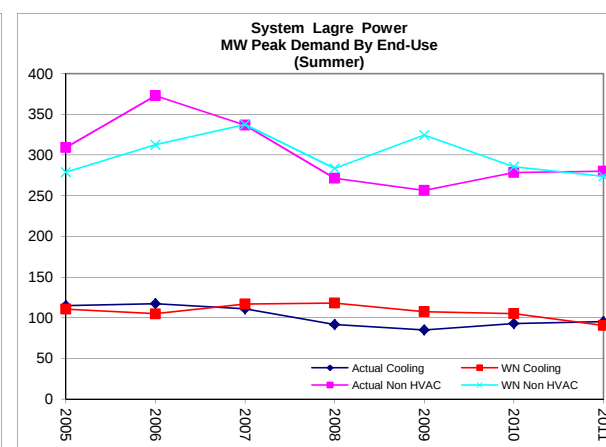
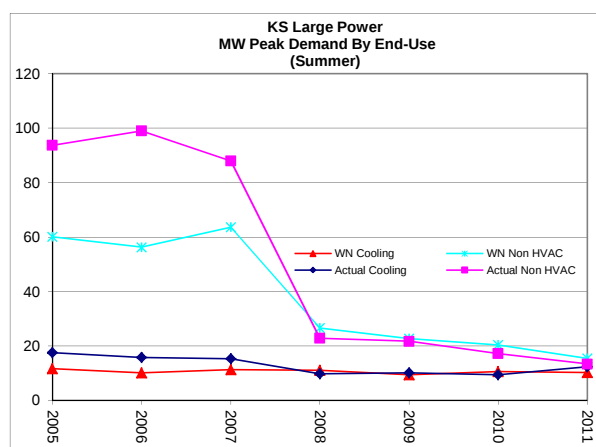
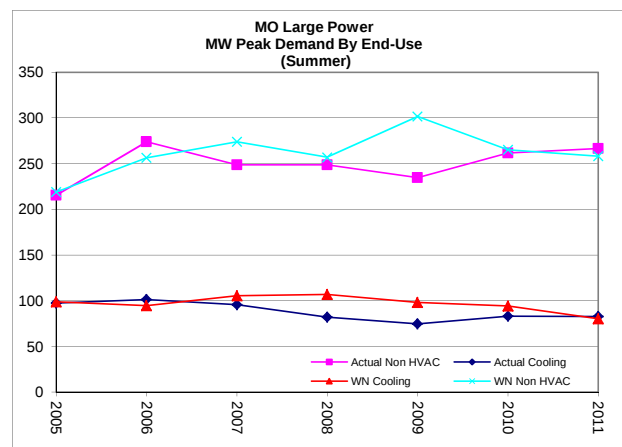
Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	97.4	98.9	1.9	1.9	215.6	218.8	375.5	372.9	313.0	317.7	17.5	11.6	9.2	9.1	93.7	60.13	77.43	47.05	111.2	71.8
2006	101.2	94.7	1.4	1.9	274.0	256.3	329.6	275.4	375.2	351.0	15.8	10.1	6.8	8.2	99.0	56.28	92.80	51.25	114.8	66.4
2007	95.8	105.6	2.1	2.2	248.6	274.0	287.0	270.1	344.4	379.6	15.3	11.3	13.9	9.7	88.0	63.62	113.11	50.00	103.2	74.9
2008	82.0	106.9	2.2	2.1	248.6	256.9	279.2	265.9	330.6	363.9	9.8	11.1	8.4	8.0	22.9	26.6	18.8	18.1	32.7	37.7
2009	74.6	98.1	2.3	2.0	234.8	301.6	284.3	269.5	309.4	399.7	10.2	9.4	10.4	7.8	21.7	22.8	17.3	18.2	31.9	32.2
2010	83.3	94.4	2.7	2.6	261.5	265.1	258.6	243.4	344.8	359.5	9.5	10.6	11.3	10.7	17.2	20.4	20.0	19.0	26.6	31.0
2011	82.8	80.2	2.5	2.3	266.5	258.3	296.9	263.0	349.3	338.5	12.4	10.3	11.4	9.1	13.4	15.4	18.4	16.5	25.8	25.7

05-'10	-3.1%	-0.9%	7.3%	6.1%	3.9%	3.9%	-7.2%	-8.2%	2.0%	2.5%	-11.6%	-1.9%	4.3%	3.2%	-28.8%	-19.5%	-23.7%	-16.6%	-24.9%	-15.5%
10-'11	-0.6%	-15.1%	-6.2%	-10.6%	1.9%	-2.6%	14.8%	8.1%	1.3%	-5.8%	30.4%	-3.0%	0.3%	-14.8%	-22.0%	-24.2%	-8.1%	-13.0%	-3.4%	-17.0%
05-'11	-2.7%	-3.4%	4.9%	3.1%	3.6%	2.8%	-3.8%	-5.7%	1.8%	1.1%	-5.7%	-2.1%	3.6%	0.0%	-27.7%	-20.3%	-21.3%	-16.0%	-21.6%	-15.7%

*The difference between KC LP 2005, 2006, and 2006 is actuals occurred in one month and weather normalized peak occurred in another.

Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-
2005	115.0	110.5	11.1	11.0	309.3	279.0	453.0	419.9	424.2	389.5
2006	117.1	104.8	8.2	10.1	373.0	312.6	422.4	326.7	490.1	417.4
2007	111.0	116.8	16.1	11.9	336.6	337.7	400.1	320.1	447.6	454.5
2008	91.8	118.0	10.7	10.2	271.5	283.5	298.0	284.0	363.2	401.6
2009	84.8	107.5	12.7	9.8	256.5	324.4	301.6	287.8	341.3	431.9
2010	92.7	105.0	14.0	13.2	278.7	285.5	278.7	262.4	371.4	390.5
2011	95.1	90.5	13.9	11.4	279.9	273.7	315.3	279.5	375.0	364.2

05-'10	-4.2%	-1.0%	4.8%	3.7%	-2.1%	0.5%	-9.3%	-9.0%	-2.6%	0.0%
10-'11	2.6%	-13.8%	-1.0%	-14.0%	0.4%	-4.1%	13.1%	6.5%	1.0%	-6.7%
95-'11	-3.1%	-3.3%	3.8%	0.5%	-1.6%	-0.3%	-5.9%	-6.6%	-2.0%	-1.1%



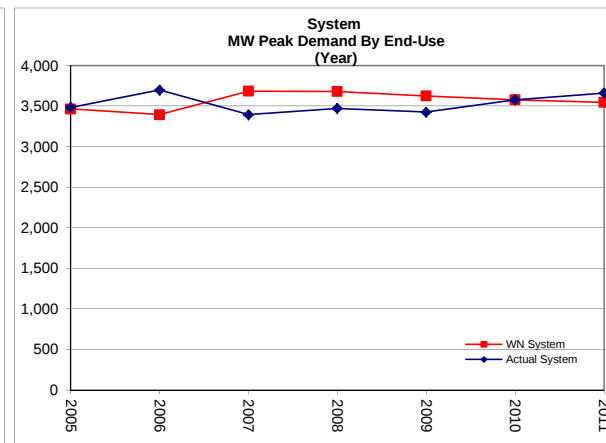
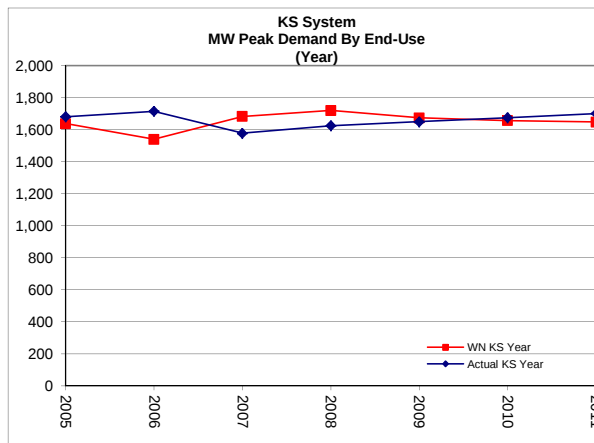
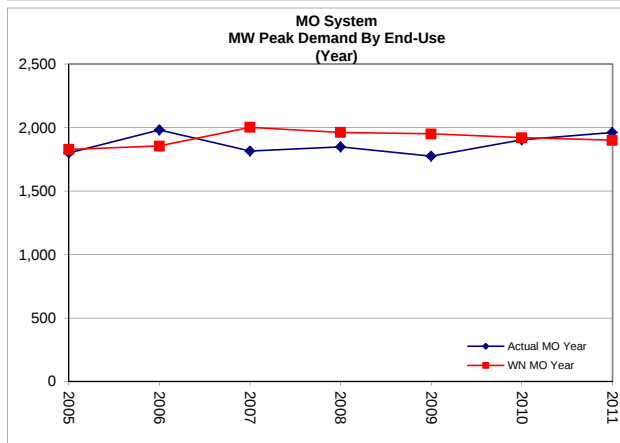
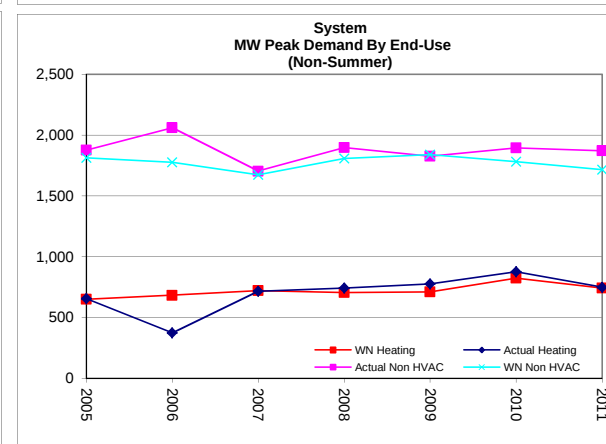
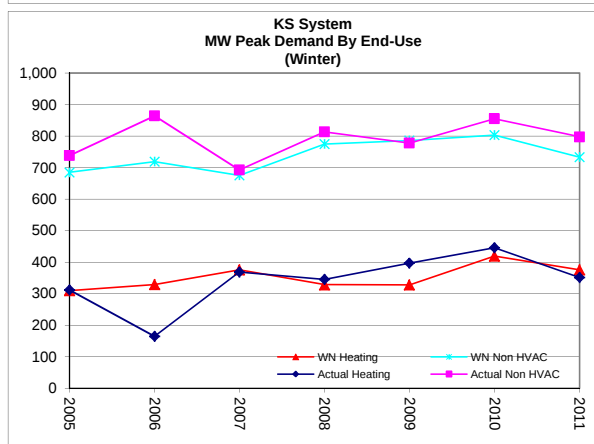
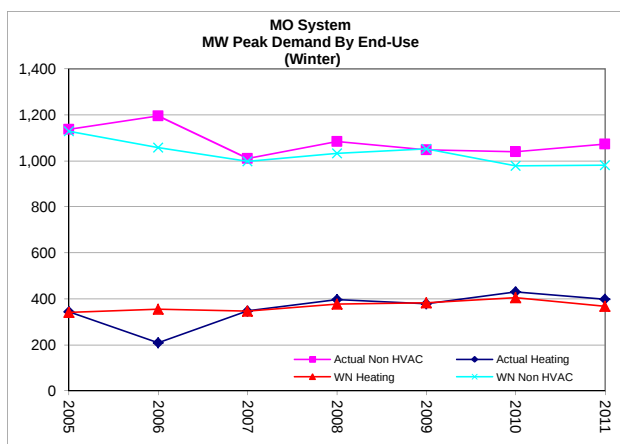
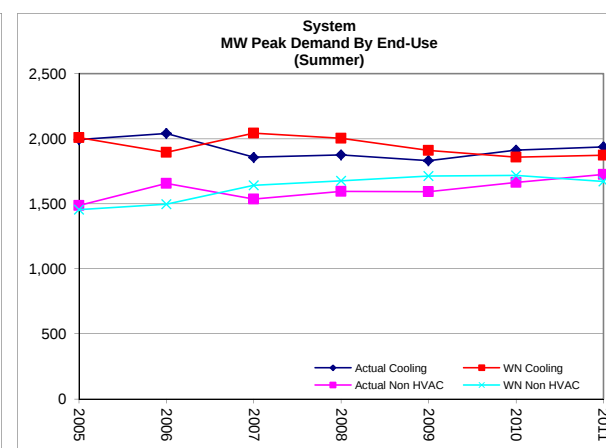
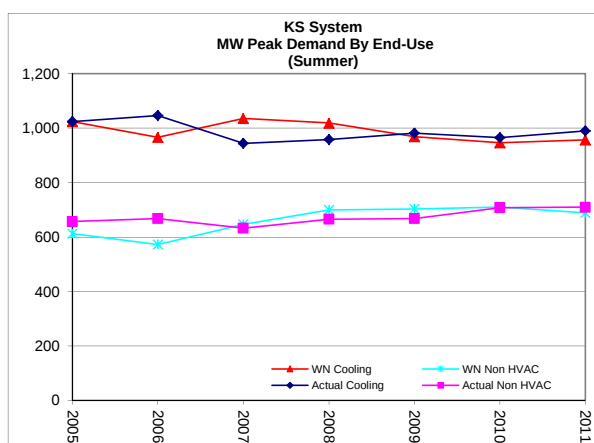
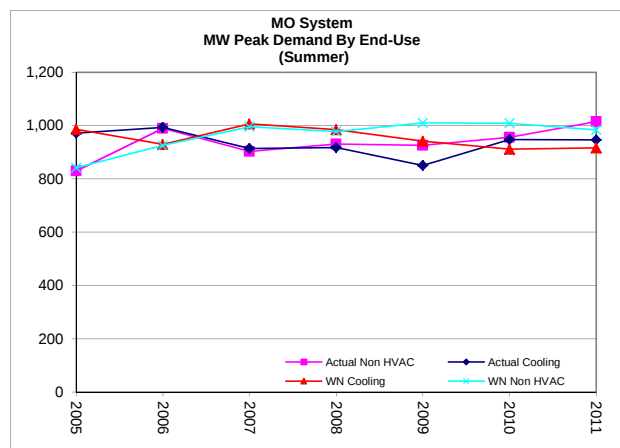
Plot 3A-36 Missouri & Kansas Total MW Peak Demand By End-Use
For classes that have end-use sales

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	971.3	985.9	343.8	341.3	829.6	842.0	1,137.5	1,129.4	1,800.9	1,827.9	1,023.7	1,023.8	311.7	309.5	656.8	613.2	737.7	684.7	1,680.5	1,637.0
2006	993.6	929.4	209.5	355.2	989.2	925.3	1,196.4	1,058.4	1,982.7	1,854.6	1,046.7	966.1	164.2	328.4	667.7	572.9	864.0	718.4	1,714.4	1,539.0
2007	913.4	1,006.9	347.7	347.2	903.1	995.4	1,011.3	998.0	1,816.5	2,002.3	944.0	1,035.4	368.2	375.1	633.1	646.8	692.6	675.3	1,577.1	1,682.2
2008	917.8	984.3	397.1	378.2	930.1	977.1	1,084.5	1,033.0	1,847.9	1,961.4	957.7	1,018.7	344.7	328.3	665.7	700.1	813.2	774.5	1,623.4	1,718.8
2009	849.9	941.0	378.7	382.7	925.9	1,009.6	1,047.8	1,052.5	1,775.9	1,950.6	981.6	969.3	397.2	327.5	667.5	703.5	777.4	786.1	1,649.1	1,672.8
2010	947.7	912.0	431.1	405.6	956.4	1,008.4	1,039.6	978.2	1,904.1	1,920.4	965.7	946.6	445.2	418.9	708.1	710.1	854.8	803.3	1,673.8	1,656.6
2011	946.5	916.5	398.5	367.9	1,015.2	983.4	1,073.3	982.1	1,961.7	1,899.9	989.8	957.4	351.0	375.9	709.7	689.4	797.5	733.0	1,699.5	1,646.8

05-'10	-0.5%	-1.5%	4.6%	3.5%	2.9%	3.7%	-1.8%	-2.8%	1.1%	1.0%	-1.2%	-1.6%	7.4%	6.2%	1.5%	3.0%	3.0%	3.2%	-0.1%	0.2%
10-'11	-0.1%	0.5%	-7.6%	-9.3%	6.1%	-2.5%	3.2%	0.4%	3.0%	-1.1%	2.5%	1.1%	-21.2%	-10.3%	0.2%	-2.9%	-6.7%	-8.8%	1.5%	-0.6%
05-'11	-0.4%	-1.2%	2.5%	1.3%	3.4%	2.6%	-1.0%	-2.3%	1.4%	0.6%	-0.6%	-1.1%	2.0%	3.3%	1.3%	2.0%	1.3%	1.1%	0.2%	0.1%

Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-
2005	1,995.1	2,009.6	655.5	650.8	1,486.4	1,455.2	1,875.2	1,814.1	3,481.4	3,464.9
2006	2,040.3	1,895.4	373.7	683.5	1,656.9	1,498.2	2,060.4	1,776.9	3,697.2	3,393.6
2007	1,857.4	2,042.2	715.9	722.3	1,536.2	1,642.3	1,704.0	1,673.3	3,393.6	3,684.5
2008	1,875.5	2,003.0	741.8	706.5	1,595.8	1,677.2	1,897.8	1,807.5	3,471.3	3,680.2
2009	1,831.5	1,910.3	776.0	710.2	1,593.5	1,713.2	1,825.2	1,838.6	3,425.0	3,623.4
2010	1,913.4	1,858.6	876.3	824.5	1,664.5	1,718.5	1,894.5	1,781.5	3,577.9	3,577.0
2011	1,936.4	1,873.9	749.5	743.8	1,724.9	1,672.8	1,870.9	1,715.1	3,661.3	3,546.7

05-'10	-0.8%	-1.6%	6.0%	4.8%	2.3%	3.4%	0.2%	-0.4%	0.5%	0.6%
10-'11	1.2%	0.8%	-14.5%	-9.8%	3.6%	-2.7%	-1.2%	-3.7%	2.3%	-0.8%
95-'11	-0.5%	-1.2%	2.3%	2.2%	2.5%	2.3%	0.0%	-0.9%	0.8%	0.4%



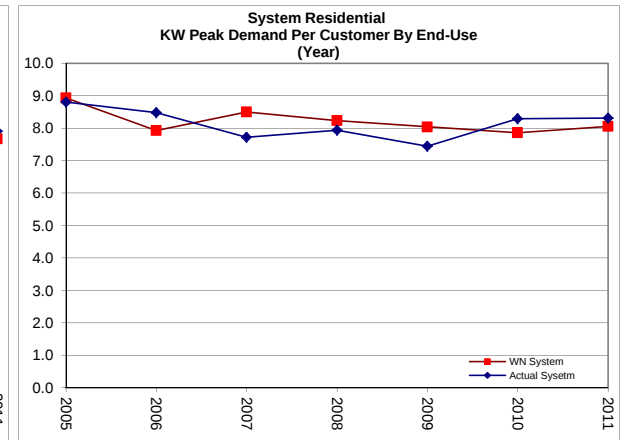
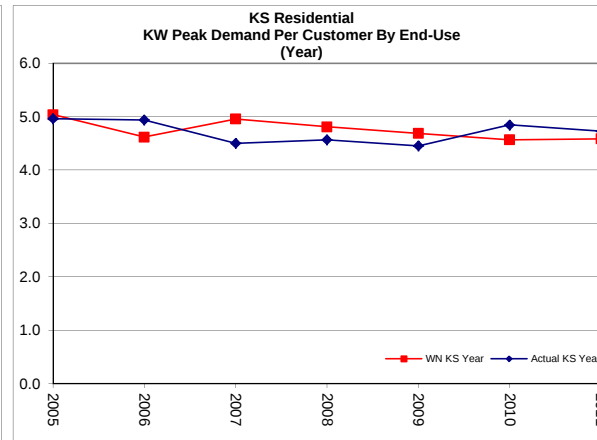
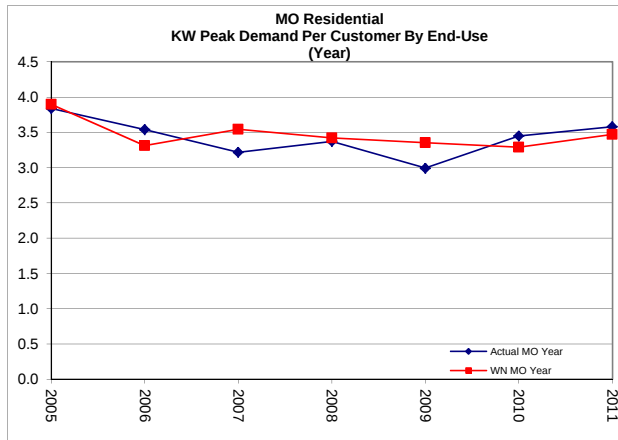
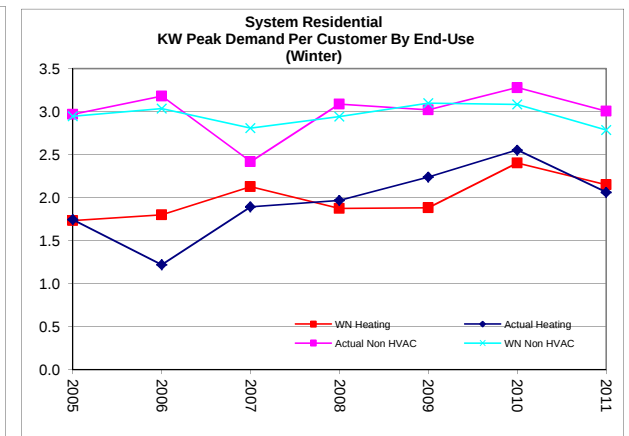
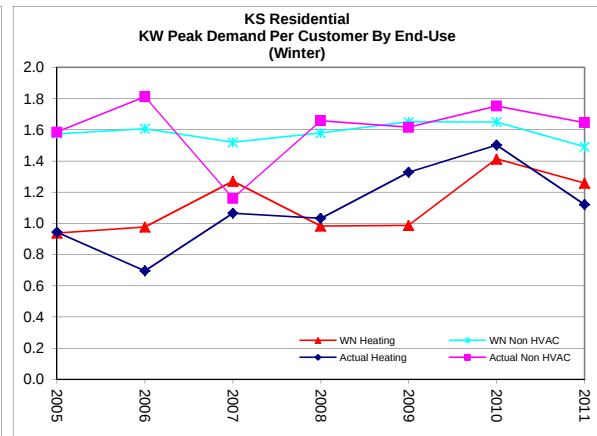
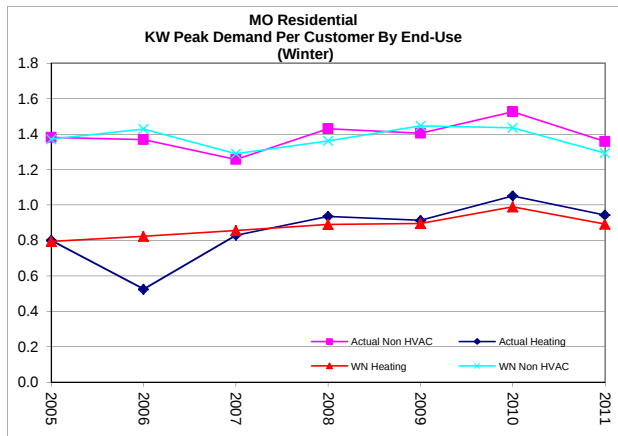
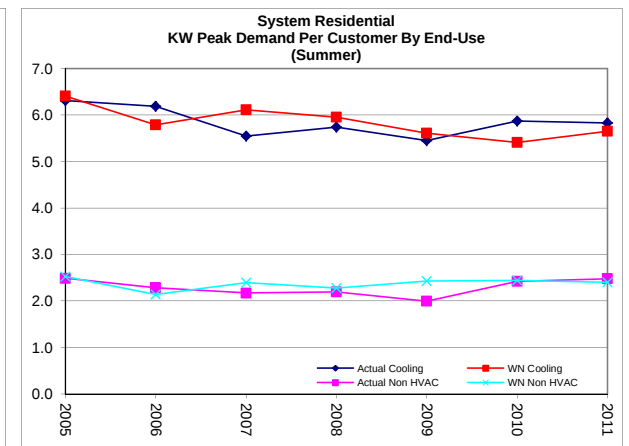
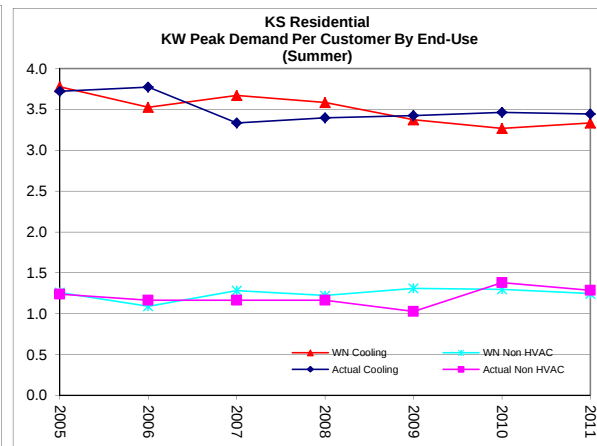
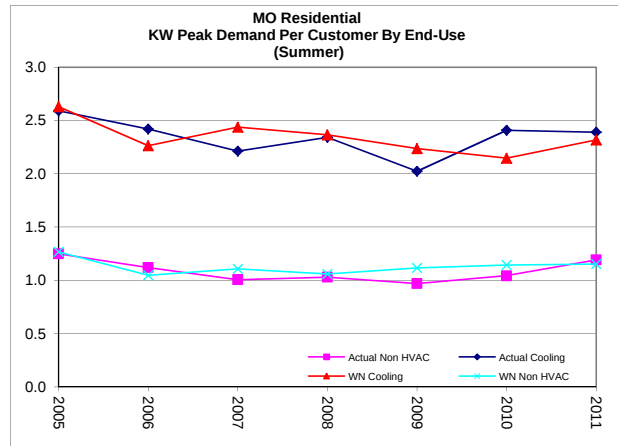
Plot 3A-37 Missouri & Kansas Residential KW Peak Demand Per Customer By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	2.6	2.6	0.8	0.8	1.2	1.3	1.4	1.4	3.8	3.9	3.7	3.8	0.9	0.9	1.2	1.3	1.6	1.6	5.0	5.0
2006	2.4	2.3	0.5	0.8	1.1	1.0	1.4	1.4	3.5	3.3	3.8	3.5	0.7	1.0	1.2	1.1	1.8	1.6	4.9	4.6
2007	2.2	2.4	0.8	0.9	1.0	1.1	1.3	1.3	3.2	3.5	3.3	3.7	1.1	1.3	1.2	1.3	1.2	1.5	4.5	5.0
2008	2.3	2.4	0.9	0.9	1.0	1.1	1.4	1.4	3.4	3.4	3.4	3.6	1.0	1.0	1.2	1.2	1.7	1.6	4.6	4.8
2009	2.0	2.2	0.9	0.9	1.0	1.1	1.4	1.4	3.0	3.4	3.4	3.4	1.3	1.0	1.0	1.3	1.6	1.7	4.5	4.7
2010	2.4	2.1	1.1	1.0	1.0	1.1	1.5	1.4	3.5	3.3	3.5	3.3	1.5	1.4	1.4	1.3	1.8	1.6	4.8	4.6
2011	2.4	2.3	0.9	0.9	1.2	1.2	1.4	1.3	3.6	3.5	3.4	3.3	1.1	1.3	1.3	1.2	1.6	1.5	4.7	4.6

05-'10	-1.5%	-4.0%	5.6%	4.5%	-3.5%	-2.0%	2.0%	0.9%	-2.1%	-3.3%	-1.4%	-2.9%	9.7%	8.5%	2.2%	0.6%	2.0%	0.9%	-0.5%	-2.0%
10-'11	-0.6%	7.9%	-10.3%	-9.8%	14.1%	0.8%	-11.0%	-9.9%	3.8%	5.5%	-0.6%	2.1%	-25.4%	-11.0%	-6.9%	-4.0%	-6.1%	-9.5%	-2.4%	0.4%
05-'11	-1.3%	-2.1%	2.8%	1.9%	-0.8%	-1.5%	-0.3%	-1.0%	-1.2%	-1.9%	-1.3%	-2.1%	2.9%	5.0%	0.6%	-0.2%	0.6%	-0.9%	-0.8%	-1.6%

Year	System									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-
2005	6.3	6.4	1.7	1.7	2.5	2.5	3.0	2.9	8.8	8.9
2006	6.2	5.8	1.2	1.8	2.3	2.1	3.2	3.0	8.5	7.9
2007	5.5	6.1	1.9	2.1	2.2	2.4	2.4	2.8	7.7	8.5
2008	5.7	6.0	2.0	1.9	2.2	2.3	3.1	2.9	7.9	8.2
2009	5.4	5.6	2.2	1.9	2.0	2.4	3.0	3.1	7.4	8.0
2010	5.9	5.4	2.6	2.4	2.4	2.4	3.3	3.1	8.3	7.9
2011	5.8	5.7	2.1	2.2	2.5	2.4	3.0	2.8	8.3	8.1

05-'10	-1.4%	-3.3%	7.9%	6.8%	-0.5%	-0.7%	2.0%	0.9%	-1.2%	-2.5%
10-'11	-0.6%	4.4%	-19.2%	-10.5%	2.1%	-1.8%	-8.4%	-9.7%	0.2%	2.5%
05-'11	-1.3%	-2.1%	2.8%	3.7%	-0.1%	-0.8%	0.2%	-0.9%	-1.0%	-1.7%



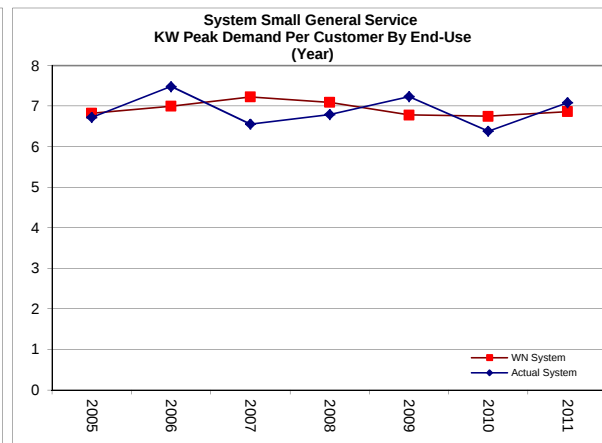
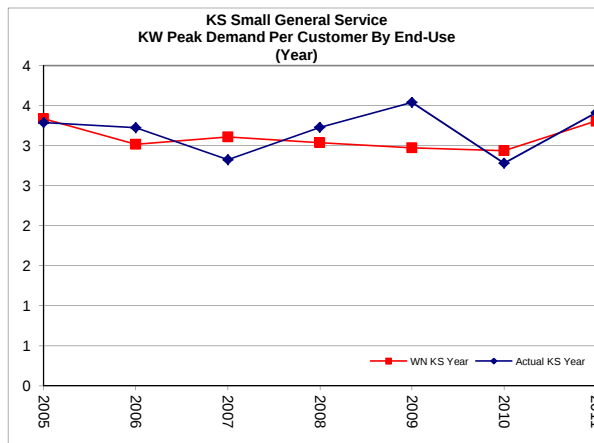
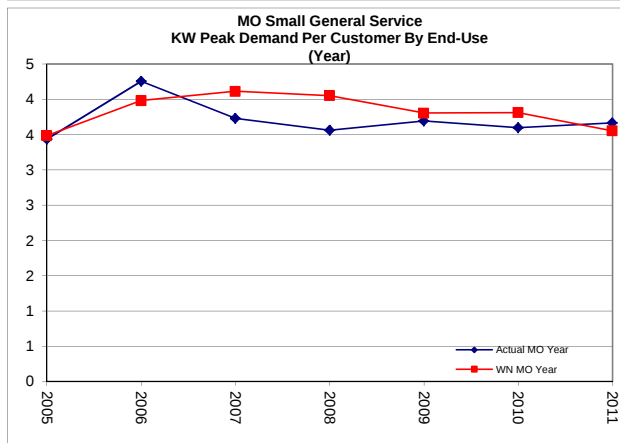
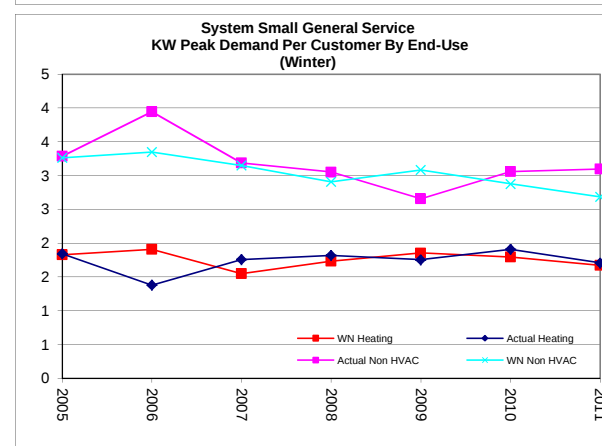
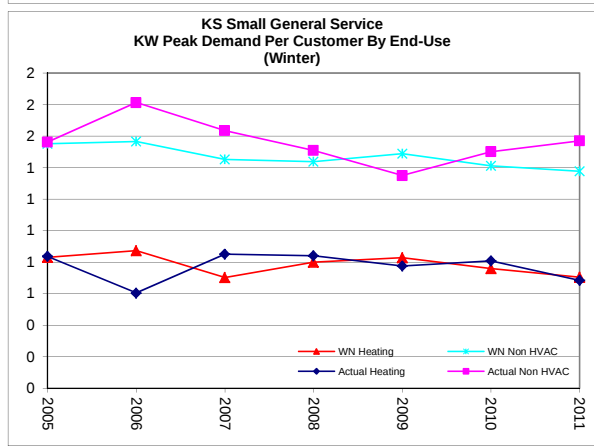
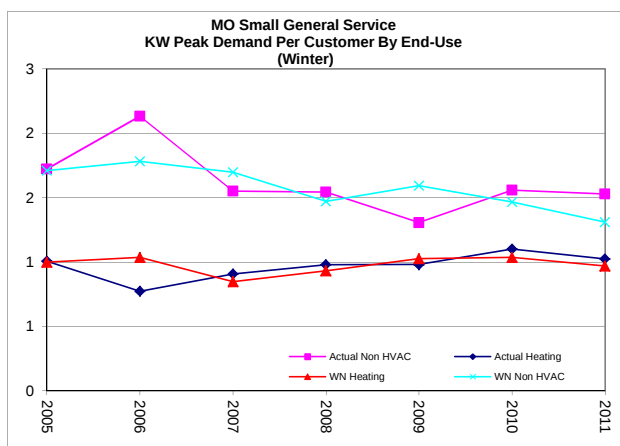
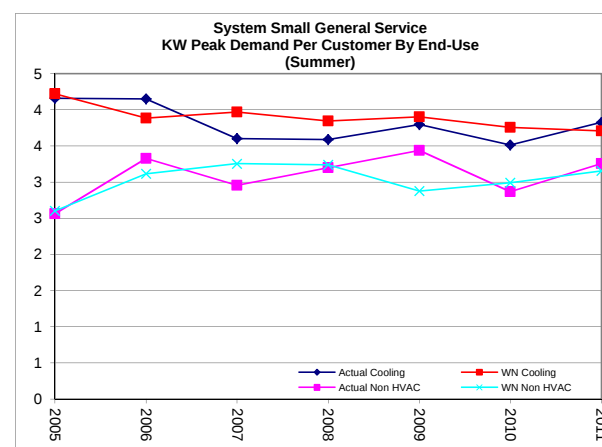
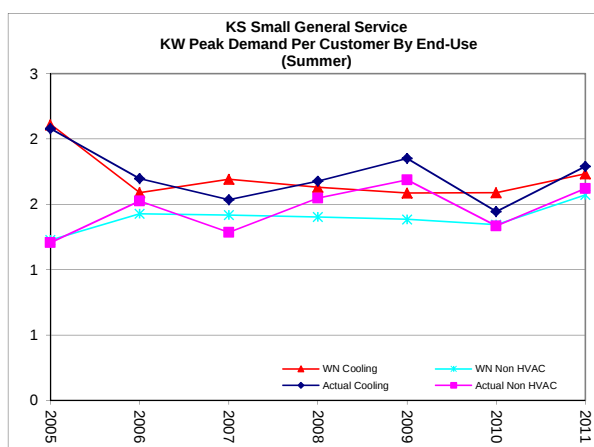
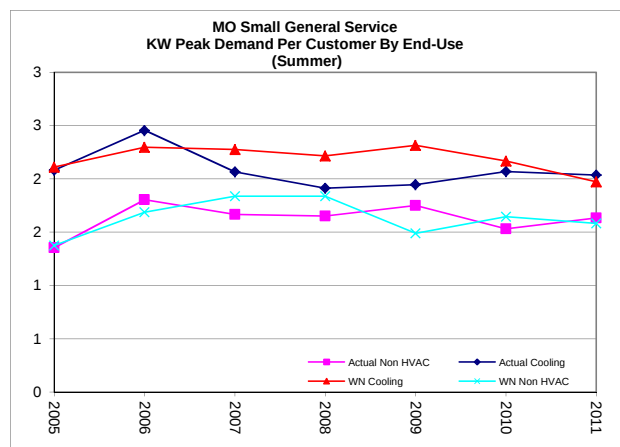
Plot 3A-38 Missouri & Kansas Small General Service KW Peak Demand Per Customer By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	2.1	2.1	1.0	1.0	1.4	1.4	1.7	1.7	3.4	3.5	2.1	2.1	0.8	0.8	1.2	1.2	1.6	1.6	3.3	3.3
2006	2.5	2.3	0.8	1.0	1.8	1.7	2.1	1.8	4.3	4.0	1.7	1.6	0.6	0.9	1.5	1.4	1.8	1.6	3.2	3.0
2007	2.1	2.3	0.9	0.8	1.7	1.8	1.6	1.7	3.7	4.1	1.5	1.7	0.9	0.7	1.3	1.4	1.6	1.5	2.8	3.1
2008	1.9	2.2	1.0	0.9	1.7	1.8	1.5	1.5	3.6	4.1	1.7	1.6	0.8	0.8	1.5	1.4	1.5	1.4	3.2	3.0
2009	1.9	2.3	1.0	1.0	1.7	1.5	1.3	1.6	3.7	3.8	1.9	1.6	0.8	0.8	1.7	1.4	1.3	1.5	3.5	3.0
2010	2.1	2.2	1.1	1.0	1.5	1.6	1.6	1.5	3.6	3.8	1.4	1.6	0.8	0.8	1.3	1.3	1.5	1.4	2.8	2.9
2011	2.0	2.0	1.0	1.0	1.6	1.6	1.5	1.3	3.7	3.6	1.8	1.7	0.7	0.7	1.6	1.6	1.6	1.4	3.4	3.3

05-'10	-0.1%	0.5%	1.8%	0.7%	2.5%	3.6%	-2.0%	-3.0%	0.9%	1.8%	-7.0%	-5.5%	-0.7%	-1.7%	2.0%	1.9%	-0.8%	-1.9%	-3.3%	-2.5%
10-'11	-1.6%	-9.0%	-7.1%	-6.5%	6.6%	-3.8%	-1.9%	-10.7%	1.9%	-6.8%	23.8%	9.0%	-15.3%	-7.4%	21.5%	16.9%	4.6%	-2.5%	22.7%	12.6%
05-'11	-0.4%	-1.1%	0.3%	-0.5%	3.2%	2.4%	-2.0%	-4.4%	1.1%	0.3%	-2.5%	-3.2%	-3.3%	-2.7%	5.0%	4.2%	0.1%	-2.0%	0.6%	-0.2%

Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-
2005	4.2	4.2	1.8	1.8	2.6	2.6	3.3	3.3	6.7	6.8
2006	4.2	3.9	1.4	1.9	3.3	3.1	3.9	3.3	7.5	7.0
2007	3.6	4.0	1.8	1.6	3.0	3.3	3.2	3.2	6.6	7.2
2008	3.6	3.8	1.8	1.7	3.2	3.2	3.1	2.9	6.8	7.1
2009	3.8	3.9	1.8	1.9	3.4	2.9	2.7	3.1	7.2	6.8
2010	3.5	3.8	1.9	1.8	2.9	3.0	3.1	2.9	6.4	6.7
2011	3.8	3.7	1.7	1.7	3.3	3.2	3.1	2.7	7.1	6.9

05-'10	-3.3%	-2.3%	0.7%	-0.4%	2.3%	2.8%	-1.4%	-2.5%	-1.0%	-0.2%
10-'11	8.9%	-1.4%	-10.6%	-6.9%	13.6%	5.5%	1.3%	-6.7%	11.0%	1.7%
05-'11	-1.4%	-2.1%	-1.3%	-1.5%	4.1%	3.3%	-1.0%	-3.2%	0.9%	0.1%



Plot 3A-39 Missouri & Kansas Medium General Service KW Peak Demand Per Customer By End-Use

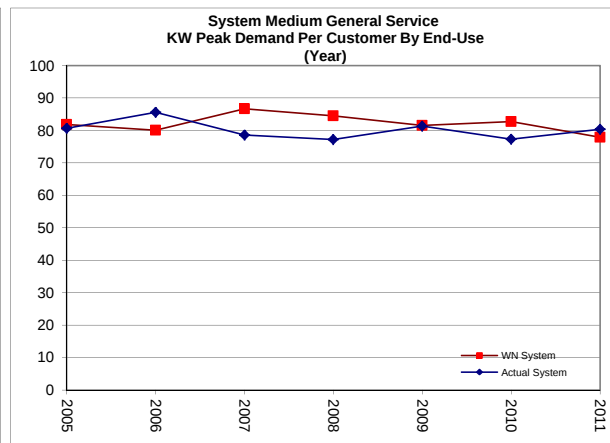
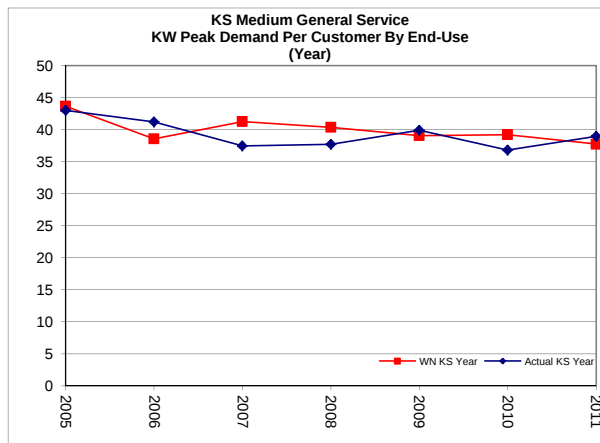
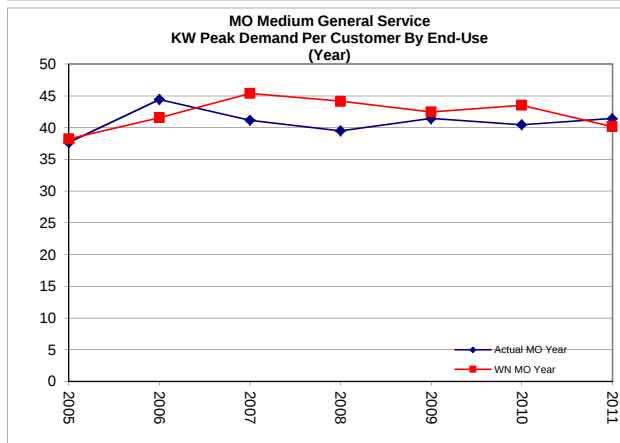
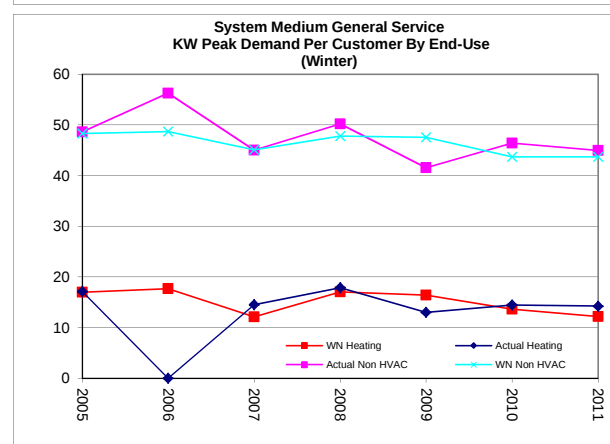
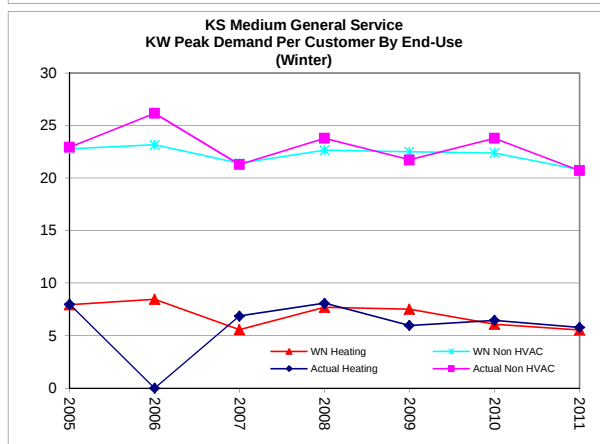
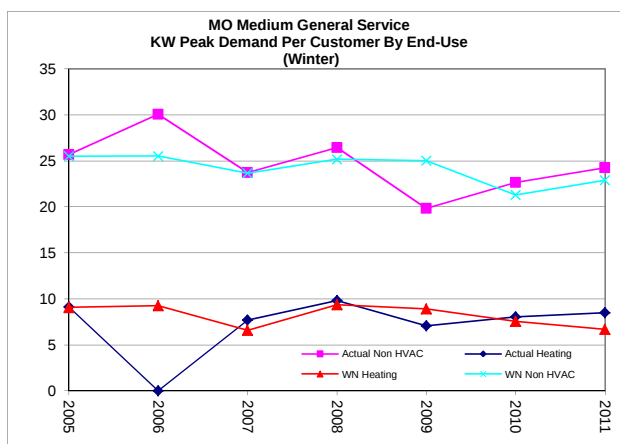
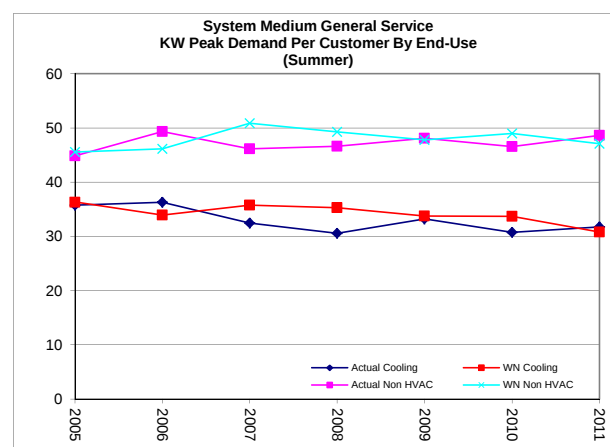
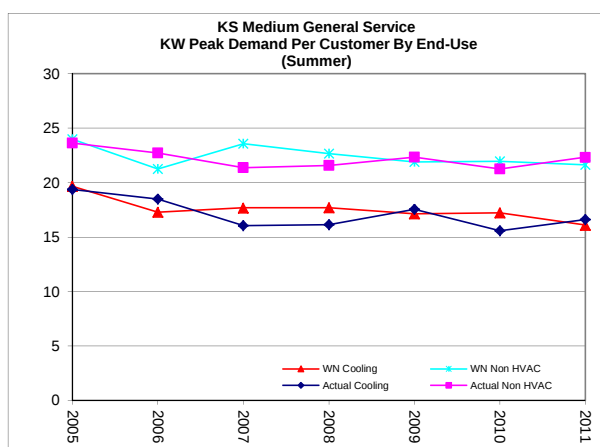
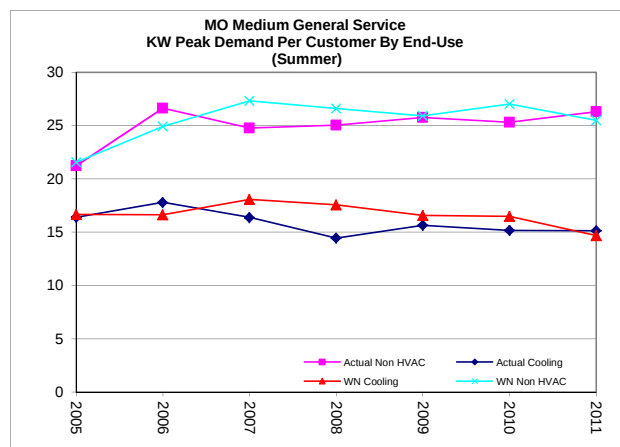
Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	16.4	16.7	9.1	9.1	21.2	21.6	25.7	25.5	37.6	38.2	19.4	19.7	8.0	7.9	23.6	24.0	22.9	22.8	43.0	43.7
2006	17.8	16.6	-	9.3	26.6	24.9	30.1	25.5	44.4	41.5	18.5	17.3	-	8.4	22.7	21.3	26.2	23.2	41.2	38.5
2007	16.4	18.1	7.7	6.6	24.8	27.3	23.7	23.7	41.1	45.4	16.1	17.7	6.9	5.6	21.4	23.6	21.3	21.4	37.4	41.2
2008	14.5	17.6	9.8	9.4	25.0	26.6	26.4	25.2	39.5	44.1	16.1	17.7	8.1	7.7	21.6	22.7	23.8	22.7	37.7	40.4
2009	15.7	16.6	7.1	8.9	25.8	25.9	19.8	25.0	41.4	42.5	17.6	17.2	6.0	7.5	22.3	21.9	21.7	22.5	39.9	39.1
2010	15.2	16.5	8.0	7.6	25.3	27.0	22.7	21.3	40.5	43.5	15.6	17.2	6.5	6.1	21.2	22.0	23.8	22.4	36.8	39.2
2011	15.1	14.7	8.5	6.7	26.3	25.5	24.3	22.9	41.4	40.2	16.6	16.1	5.8	5.5	22.3	21.6	20.7	20.8	38.9	37.7

05-'10	-1.6%	-0.2%	-2.5%	-3.6%	3.6%	4.6%	-2.5%	-3.5%	1.5%	2.6%	-4.3%	-2.6%	-4.2%	-5.2%	-2.1%	-1.7%	0.7%	-0.3%	-3.1%	-2.1%
10-'11	-0.1%	-10.9%	5.6%	-11.4%	3.9%	-5.8%	7.1%	7.5%	2.4%	-7.7%	6.7%	-6.6%	-10.6%	-9.1%	5.1%	-1.5%	-13.0%	-7.1%	5.8%	-3.7%
05-'11	-1.3%	-2.1%	-1.2%	-4.9%	3.6%	2.8%	-1.0%	-1.8%	1.6%	0.8%	-2.5%	-3.3%	-5.3%	-5.8%	-0.9%	-1.7%	-1.7%	-1.5%	-1.6%	-2.4%

*System 2006 winter peak occurred in November, Medium class typically does not have heating in November.
The weather normalized peak occurred in December.

Year	System									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-
2005	35.8	36.3	17.1	17.0	44.9	45.5	48.6	48.3	80.7	81.9
2006	36.3	33.9	-	17.7	49.3	46.2	56.2	48.7	85.6	80.1
2007	32.4	35.8	14.6	12.2	46.1	50.9	45.0	45.1	78.6	86.6
2008	30.6	35.3	17.9	17.1	46.6	49.2	50.2	47.8	77.2	84.5
2009	33.2	33.7	13.1	16.4	48.1	47.8	41.6	47.5	81.3	81.5
2010	30.7	33.7	14.5	13.6	46.5	49.0	46.4	43.7	77.3	82.7
2011	31.8	30.8	14.3	12.2	48.6	47.1	45.0	43.7	80.4	77.9

05-'10	-3.0%	-1.5%	-3.3%	-4.3%	0.7%	1.5%	-0.9%	-2.0%	-0.9%	0.2%
10-'11	3.3%	-8.7%	-1.6%	-10.4%	4.4%	-3.9%	-3.2%	0.0%	4.0%	-5.8%
05-'11	-2.0%	-2.7%	-3.0%	-5.4%	1.3%	0.6%	-1.3%	-1.6%	-0.1%	-0.8%



Plot 3A-40 Missouri & Kansas Large General Service KW Peak Demand Per Customer By End-Use

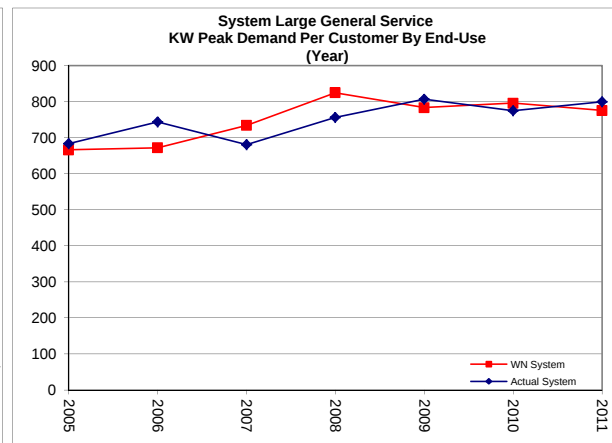
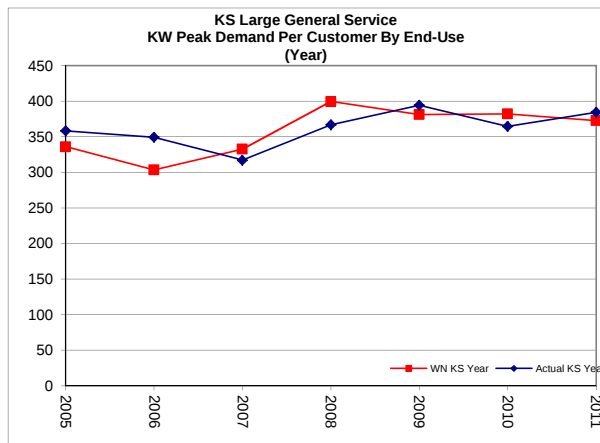
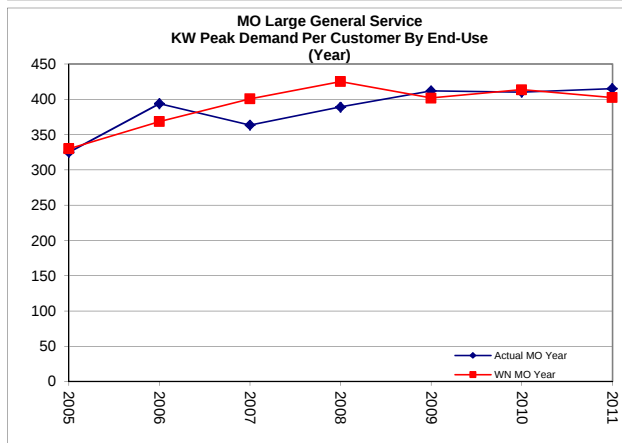
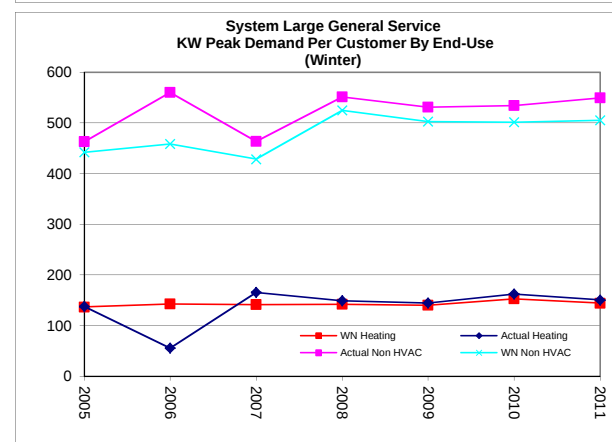
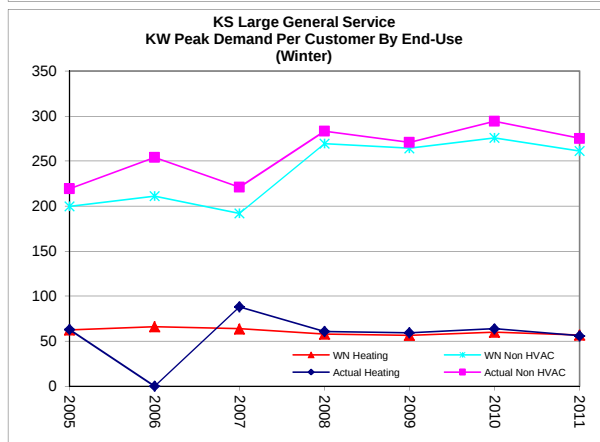
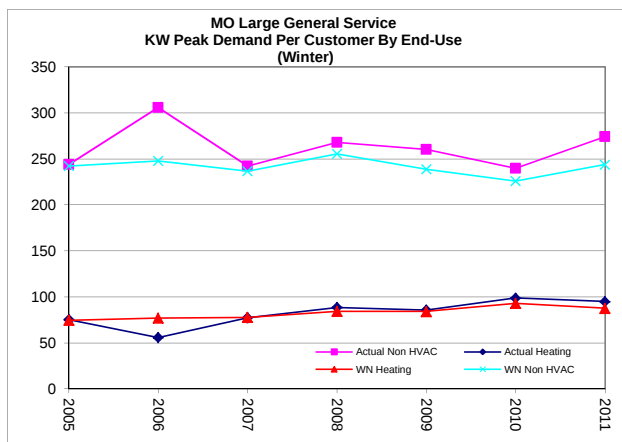
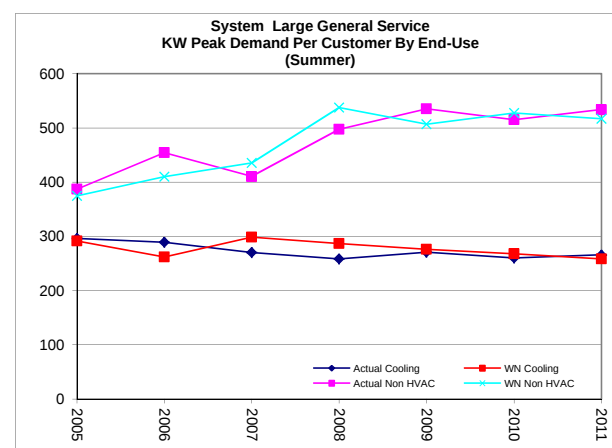
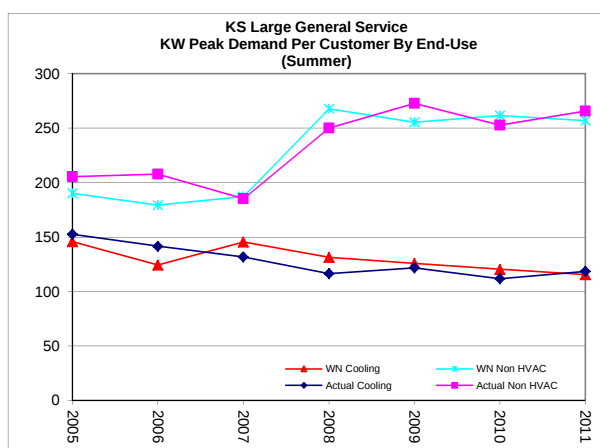
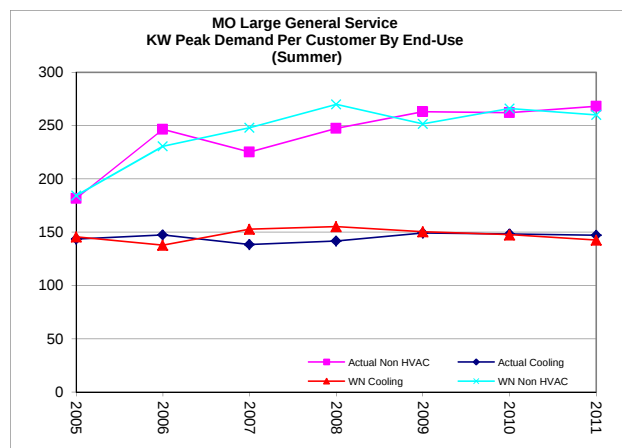
Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	143	146	75	75	182	184	244	242	325	330	153	146	63	62	205	190	219	200	358	336
2006	147	138	56	77	247	231	306	248	394	369	142	124	-	66	208	179	254	211	349	303
2007	139	153	77	78	225	248	242	237	364	401	132	146	88	64	185	187	221	192	317	333
2008	142	155	89	84	247	270	268	255	389	425	116	132	61	58	250	268	283	269	367	399
2009	149	150	86	84	263	251	260	239	412	402	122	126	59	56	273	255	271	264	394	381
2010	148	148	99	93	262	266	240	226	410	414	112	120	64	60	253	262	294	276	365	382
2011	147	143	95	88	268	260	274	244	415	403	119	116	56	57	266	257	275	261	384	373

05-'10	0.7%	0.3%	5.6%	4.5%	7.6%	7.6%	-0.3%	-1.4%	4.8%	4.6%	-6.0%	-3.8%	0.3%	-0.8%	4.2%	6.6%	6.1%	6.7%	0.4%	2.6%
10-'11	-0.7%	-3.4%	-3.8%	-5.7%	2.3%	-2.3%	14.4%	8.0%	1.2%	-2.7%	6.1%	-4.0%	-12.3%	-5.2%	5.1%	-1.7%	-6.4%	-5.3%	5.4%	-2.4%
05-'11	0.4%	-0.3%	4.0%	2.7%	6.7%	5.9%	2.0%	0.1%	4.2%	3.4%	-4.1%	-3.8%	-1.9%	-1.5%	4.4%	5.1%	3.9%	4.6%	1.2%	1.7%

*2006 winter peak occurred in Novemeber vs. a typical December or January.

Year	System									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-
2005	296	291	138	137	387	375	463	442	683	666
2006	289	262	56	143	454	410	560	459	743	672
2007	270	298	165	141	410	435	463	429	681	734
2008	258	287	149	142	498	538	551	525	756	825
2009	271	276	145	141	535	507	531	503	806	783
2010	260	268	162	153	515	528	534	501	775	796
2011	266	258	151	144	534	517	550	505	800	775

05-'10	-2.6%	-1.7%	3.3%	2.2%	5.9%	7.1%	2.9%	2.6%	2.6%	3.6%
10-'11	2.2%	-3.6%	-7.2%	-5.5%	3.7%	-2.0%	2.9%	0.7%	3.2%	-2.6%
05-'11	-1.8%	-2.0%	1.5%	0.9%	5.5%	5.5%	2.9%	2.3%	2.7%	2.6%



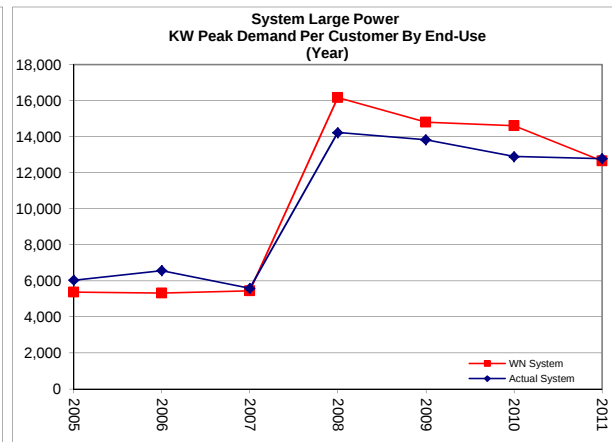
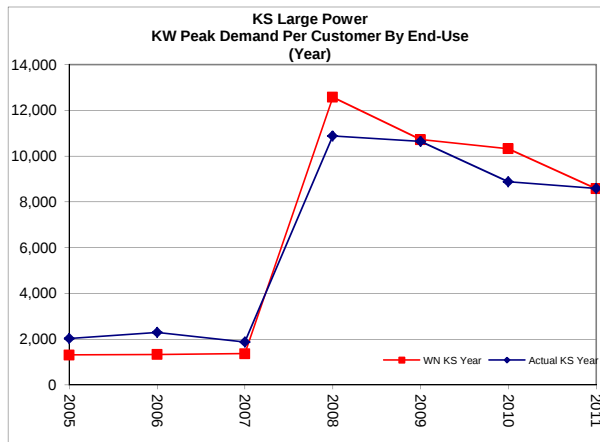
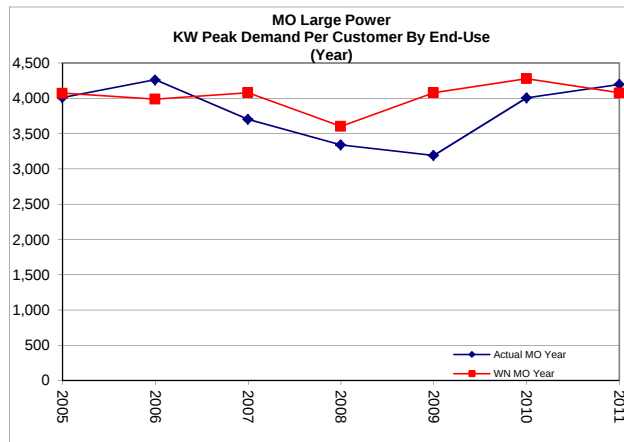
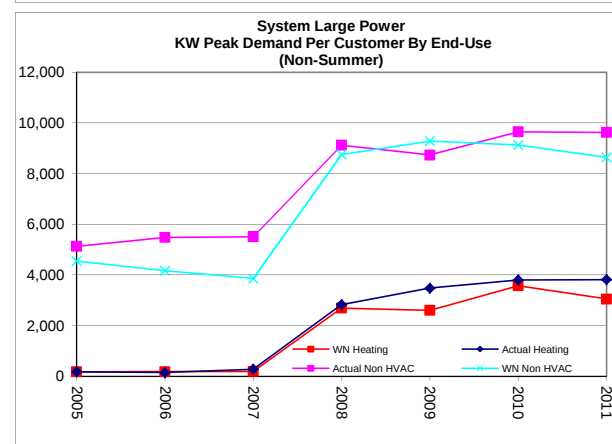
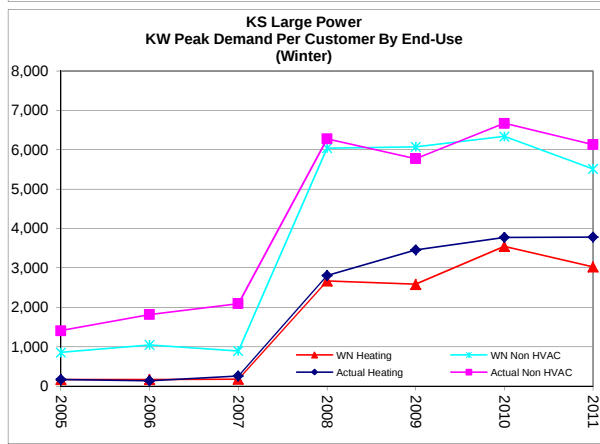
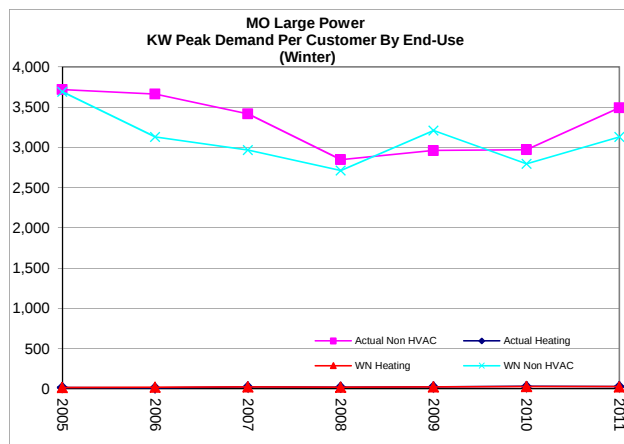
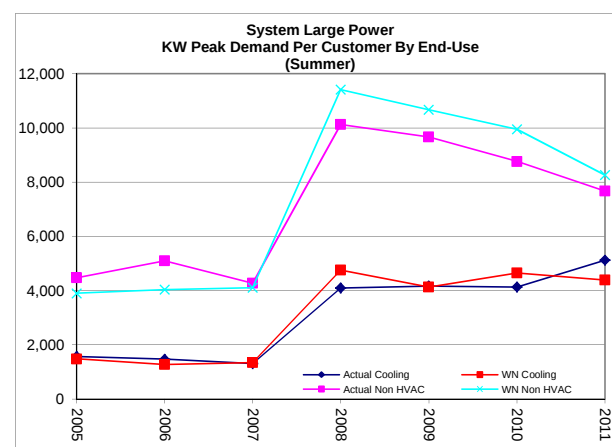
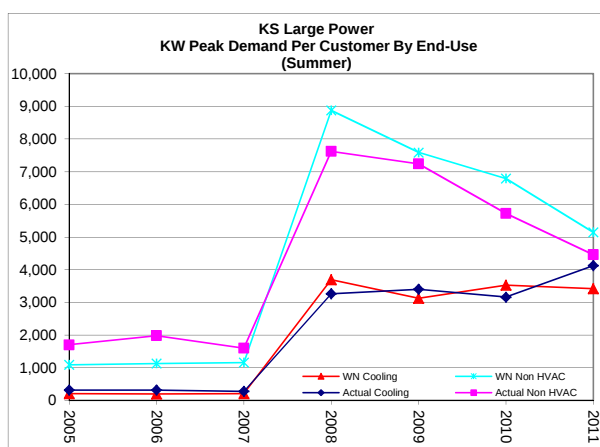
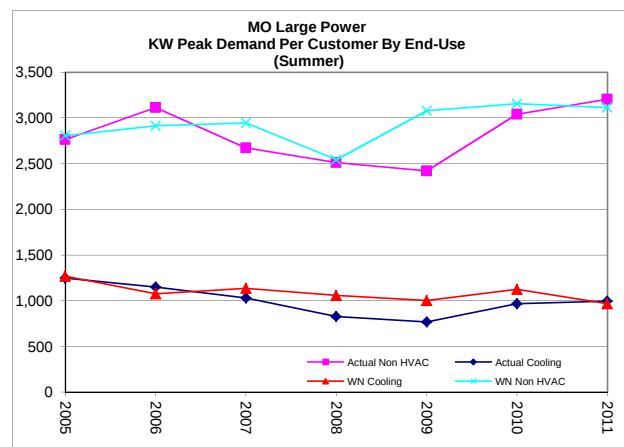
Plot 3A-41 Missouri & Kansas Total Large Power KW Peak Demand Per Customer By End-Use

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	1,249	1,268	19	19	2,764	2,805	3,718	3,692	4,013	4,073	319	212	167	165	1,703	1,093	1,408	855	2,022	1,305
2006	1,150	1,076	15	21	3,114	2,913	3,662	3,130	4,264	3,989	317	202	134	167	1,980	1,126	1,820	1,046	2,296	1,327
2007	1,030	1,135	25	24	2,673	2,947	3,417	2,968	3,703	4,082	278	205	258	174	1,599	1,157	2,095	893	1,877	1,362
2008	828	1,059	23	22	2,511	2,544	2,848	2,713	3,339	3,603	3,265	3,692	2,806	2,673	7,619	8,874	6,276	6,042	10,884	12,566
2009	769	1,001	24	24	2,421	3,078	2,961	3,209	3,190	4,079	3,398	3,130	3,459	2,585	7,240	7,589	5,773	6,074	10,638	10,719
2010	968	1,124	31	29	3,041	3,156	2,973	2,797	4,009	4,280	3,162	3,527	3,774	3,551	5,721	6,793	6,672	6,339	8,883	10,320
2011	995	966	30	27	3,205	3,112	3,493	3,131	4,200	4,078	4,123	3,422	3,784	3,027	4,461	5,148	6,131	5,512	8,584	8,569

05-'10	-5.0%	-2.4%	10.5%	9.3%	1.9%	2.4%	-4.4%	-5.4%	0.0%	1.0%	58.2%	75.5%	86.6%	84.6%	27.4%	44.1%	36.5%	49.3%	34.5%	51.2%
10-'11	2.8%	-14.0%	-4.0%	-7.4%	5.4%	-1.4%	17.5%	11.9%	4.8%	-4.7%	30.4%	-3.0%	0.3%	-14.8%	-22.0%	-24.2%	-8.1%	-13.0%	-3.4%	-17.0%
05-'11	-3.7%	-4.4%	7.9%	6.3%	2.5%	1.7%	-1.0%	-2.7%	0.8%	0.0%	53.2%	59.0%	68.3%	62.3%	17.4%	29.5%	27.8%	36.4%	27.3%	36.8%

Year	Sysetm									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-
2005	1,568	1,479	186	184	4,467	3,899	5,126	4,547	6,035	5,378
2006	1,467	1,278	149	188	5,093	4,038	5,482	4,176	6,560	5,316
2007	1,307	1,340	283	198	4,272	4,103	5,511	3,861	5,580	5,444
2008	4,092	4,751	2,829	2,694	10,131	11,418	9,125	8,755	14,223	16,169
2009	4,167	4,131	3,483	2,609	9,661	10,666	8,734	9,283	13,828	14,798
2010	4,130	4,651	3,805	3,580	8,762	9,948	9,645	9,136	12,892	14,599
2011	5,118	4,388	3,814	3,054	7,666	8,260	9,624	8,643	12,784	12,647

05-'10	21.4%	25.7%	83.0%	81.0%	14.4%	20.6%	13.5%	15.0%	16.4%	22.1%
10-'11	23.9%	-5.7%	0.2%	-14.7%	-12.5%	-17.0%	-0.2%	-5.4%	-0.8%	-13.4%
05-'11	21.8%	19.9%	65.5%	59.7%	9.4%	13.3%	11.1%	11.3%	13.3%	15.3%



Plot 3A-42 Missouri & Kansas Total KW Peak Demand Per Customer By End-Use
For classes that have end-use sales

Year	Missouri										Kansas									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year		Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	1,414	1,435	105	104	2,970	3,014	3,991	3,962	4,383	4,449	497	383	239	237	1,934	1,310	1,653	1,081	2,431	1,693
2006	1,320	1,235	72	109	3,390	3,171	4,002	3,406	4,710	4,406	482	349	136	243	2,213	1,328	2,103	1,283	2,695	1,677
2007	1,189	1,311	112	110	2,926	3,225	3,685	3,232	4,115	4,536	430	374	355	245	1,808	1,370	2,340	1,109	2,239	1,744
2008	988	1,236	123	117	2,786	2,843	3,146	2,996	3,775	4,079	3,402	3,846	2,877	2,740	7,894	9,167	6,586	6,337	11,296	13,013
2009	938	1,173	119	119	2,712	3,358	3,244	3,476	3,650	4,531	3,543	3,278	3,527	2,651	7,538	7,869	6,068	6,364	11,080	11,146
2010	1,136	1,292	140	132	3,331	3,452	3,238	3,047	4,467	4,744	3,294	3,669	3,846	3,619	5,998	7,079	6,993	6,640	9,292	10,748
2011	1,162	1,128	135	123	3,502	3,400	3,794	3,400	4,664	4,528	4,264	3,558	3,847	3,091	4,752	5,429	6,430	5,797	9,016	8,987

05-'10	-4.3%	-2.1%	5.9%	4.8%	2.3%	2.7%	-4.1%	-5.1%	0.4%	1.3%	46.0%	57.1%	74.3%	72.4%	25.4%	40.1%	33.4%	43.8%	30.8%	44.7%
10-'11	2.3%	-12.7%	-3.4%	-6.4%	5.1%	-1.5%	17.2%	11.6%	4.4%	-4.6%	29.4%	-3.0%	0.0%	-14.6%	-20.8%	-23.3%	-8.1%	-12.7%	-3.0%	-16.4%
05-'11	-3.2%	-3.9%	4.3%	2.8%	2.8%	2.0%	-0.8%	-2.5%	1.0%	0.3%	43.1%	45.0%	58.9%	53.4%	16.2%	26.7%	25.4%	32.3%	24.4%	32.1%

Year	System									
	Cooling		Heating		Non-HVAC Summer		Non-HVAC Winter		Year	
	Actual	WN	Actual	WN	Actual	WN	Actual	WN	Actual	WN
1995	-	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-
2005	1,910	1,818	344	342	4,904	4,324	5,644	5,043	6,814	6,142
2006	1,803	1,584	208	353	5,603	4,499	6,105	4,690	7,405	6,083
2007	1,619	1,684	467	355	4,734	4,595	6,025	4,341	6,353	6,279
2008	4,391	5,083	3,000	2,857	10,680	12,010	9,732	9,333	15,071	17,093
2009	4,481	4,451	3,645	2,770	10,250	11,226	9,312	9,839	14,731	15,677
2010	4,430	4,962	3,986	3,751	9,329	10,530	10,232	9,687	13,759	15,492
2011	5,425	4,686	3,982	3,215	8,254	8,829	10,224	9,198	13,679	13,515

05-'10	18.3%	22.2%	63.2%	61.5%	13.7%	19.5%	12.6%	13.9%	15.1%	20.3%
10-'11	22.5%	-5.6%	-0.1%	-14.3%	-11.5%	-16.2%	-0.1%	-5.1%	-0.6%	-12.8%
05-'11	19.0%	17.1%	50.4%	45.3%	9.1%	12.6%	10.4%	10.5%	12.3%	14.0%

