

NORTHWESTERN ENERGY SOUTH DAKOTA  
SYSTEM PEAK DEMAND (MW)

Line	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2014	304	298	285	243	258	264	302	288	260			
2	2013	284	279	257	238	222	279	310	327	290	220	253	293
3	2012	272	252	229	199	245	288	337	319	274	210	235	262
4	2011	273	281	258	208	206	303	333	341	289	215	230	265
5	2010	278	252	231	191	236	272	302	311	215	211	246	264
6	2009	276	251	258	213	217	262	259	286	223	203	215	277
7	2008	249	253	227	194	203	236	284	266	224	205	232	274
8	2007	229	230	201	192	214	282	315	278	279	204	228	221
9	2006	194	210	184	168	190	256	307	296	294	197	223	224
10	2005	237	212	200	163	186	283	277	296	264	177	197	221
11	2004	215	203	182	164	185	232	277	240	253	168	193	218
12	2003	189	189	191	187	171	216	264	285	262	262	182	185
13	Count	12	12	12	12	12	12	12	12	12	11	11	11
14	Average	250	243	225	197	211	264	297	294	261	207	221	246
15	Std Dev	37	34	34	26	26	26	25	28	27	24	22	33

NORTHWESTERN ENERGY SOUTH DAKOTA  
PERCENT OF ANNUAL SYSTEM PEAK DEMAND

Line	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2014	100.00%	98.03%	93.75%	79.93%	84.87%	86.84%	99.34%	94.74%	85.53%			
2	2013	86.85%	85.32%	78.59%	72.78%	67.89%	85.32%	94.80%	100.00%	88.69%	67.28%	77.37%	89.60%
3	2012	80.71%	74.78%	67.95%	59.05%	72.70%	85.46%	100.00%	94.66%	81.31%	62.31%	69.73%	77.74%
4	2011	80.06%	82.40%	75.66%	61.00%	60.41%	88.86%	97.65%	100.00%	84.75%	63.05%	67.45%	77.71%
5	2010	89.39%	81.03%	74.28%	61.41%	75.88%	87.46%	97.11%	100.00%	69.13%	67.85%	79.10%	84.89%
6	2009	96.50%	87.76%	90.21%	74.48%	75.87%	91.61%	90.56%	100.00%	77.97%	70.98%	75.17%	96.85%
7	2008	87.68%	89.08%	79.93%	68.31%	71.48%	83.10%	100.00%	93.66%	78.87%	72.18%	81.69%	96.48%
8	2007	72.70%	73.02%	63.81%	60.95%	67.94%	89.52%	100.00%	88.25%	88.57%	64.76%	72.38%	70.16%
9	2006	63.19%	68.40%	59.93%	54.72%	61.89%	83.39%	100.00%	96.42%	95.77%	64.17%	72.64%	72.96%
10	2005	80.07%	71.62%	67.57%	55.07%	62.84%	95.61%	93.58%	100.00%	89.19%	59.80%	66.55%	74.66%
11	2004	77.62%	73.29%	65.70%	59.21%	66.79%	83.75%	100.00%	86.64%	91.34%	60.65%	69.68%	78.70%
12	2003	66.32%	66.32%	67.02%	65.61%	60.00%	75.79%	92.63%	100.00%	91.93%	91.93%	63.86%	64.91%
13	Average	81.76%	79.25%	73.70%	64.38%	69.05%	86.39%	97.14%	96.20%	85.25%	67.72%	72.33%	80.43%
14	6 Yr Avg	88.92%	84.89%	80.07%	68.11%	72.94%	87.59%	96.58%	98.23%	81.23%	67.28%	75.09%	87.21%

## NORTHWESTERN ENERGY SOUTH DAKOTA

## TEST OF HYPOTHESIS THAT MONTHLY PEAK DEMAND IS NOT SIGNIFICANTLY DIFFERENT FROM HISTORICAL AVERAGE SYSTEM PEAK MONTH

Line	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2014	Accept	Accept	Accept	Reject	Reject	Accept	Accept	Accept	Reject			
2	2013	Accept	Accept	Reject	Reject	Reject	Accept	Accept	Accept	Accept	Reject	Reject	Accept
3	2012	Accept	Reject	Reject	Reject	Reject	Accept	Accept	Accept	Accept	Reject	Reject	Accept
4	2011	Accept	Accept	Reject	Reject	Reject	Accept	Accept	Accept	Accept	Reject	Reject	Accept
5	2010	Accept	Reject	Reject	Reject	Reject	Accept	Accept	Accept	Reject	Reject	Reject	Accept
6	2009	Accept	Reject	Reject	Reject	Reject	Accept	Reject	Accept	Reject	Reject	Reject	Accept
7	2008	Reject	Reject	Reject	Reject	Reject	Reject	Accept	Accept	Reject	Reject	Reject	Accept
8	2007	Reject	Reject	Reject	Reject	Reject	Accept	Accept	Accept	Accept	Reject	Reject	Reject
9	2006	Reject	Reject	Reject	Reject	Reject	Reject	Accept	Accept	Accept	Reject	Reject	Reject
10	2005	Reject	Reject	Reject	Reject	Reject	Accept	Accept	Accept	Accept	Reject	Reject	Reject
11	2004	Reject	Reject	Reject	Reject	Reject	Reject	Accept	Reject	Reject	Reject	Reject	Reject
12	2003	Reject	Reject	Reject	Reject	Reject	Reject	Accept	Accept	Accept	Accept	Reject	Reject
13	Accept	6	3	1	0	0	8	11	11	7	1	0	6
14	Reject	6	9	11	12	12	4	1	1	5	10	11	5
15	% Accepted	50%	25%	8%	0%	0%	67%	92%	92%	58%	9%	0%	55%

## NORTHWESTERN ENERGY SOUTH DAKOTA

TEST OF HYPOTHESIS THAT MONTHLY SYSTEM PEAK DEMAND IS NOT SIGNIFICANTLY DIFFERENT FROM SAME YEAR ANNUAL SYSTEM PEAK MONTH DEMAND

Line	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2014	Accept	Accept	Accept	Reject	Reject	Accept	Accept	Accept	Accept			
2	2013	Accept	Reject	Reject	Reject	Reject	Reject	Accept	Accept	Accept	Reject	Reject	Accept
3	2012	Reject	Reject	Reject	Reject	Reject	Reject	Accept	Accept	Reject	Reject	Reject	Reject
4	2011	Reject	Reject	Reject	Reject	Reject	Accept	Accept	Accept	Reject	Reject	Reject	Reject
5	2010	Accept	Reject	Reject	Reject	Reject	Accept	Accept	Accept	Reject	Reject	Reject	Reject
6	2009	Accept	Accept	Accept	Reject	Reject	Accept	Accept	Accept	Reject	Reject	Reject	Accept
7	2008	Accept	Accept	Reject	Reject	Reject	Reject	Accept	Accept	Reject	Reject	Reject	Accept
8	2007	Reject	Reject	Reject	Reject	Reject	Accept	Accept	Accept	Accept	Reject	Reject	Reject
9	2006	Reject	Reject	Reject	Reject	Reject	Reject	Accept	Accept	Accept	Reject	Reject	Reject
10	2005	Reject	Reject	Reject	Reject	Reject	Accept	Accept	Accept	Accept	Reject	Reject	Reject
11	2004	Reject	Reject	Reject	Reject	Reject	Accept	Accept	Accept	Accept	Reject	Reject	Reject
12	2003	Reject	Reject	Reject	Reject	Reject	Reject	Accept	Accept	Accept	Accept	Reject	Reject
13	Accept	4	2	1	0	0	6	11	11	6	1	0	3
14	Reject	8	10	11	12	12	6	1	1	6	11	12	9
15	% Accepted	33%	17%	8%	0%	0%	50%	92%	92%	50%	8%	0%	25%

NORTHWESTERN ENERGY SOUTH DAKOTA  
GRAPHIC OF MONTHLY SYSTEM PEAK DEMANDS FOR THE PERIOD 2000-2011

