



825 Rice Street  
Saint Paul, MN 55117

June 22, 2017



Darrell Nitschke, Executive Secretary  
North Dakota Public Service Commission  
State Capitol Building, Dept. 408  
600 East Boulevard  
Bismarck, ND 58505-0480

SUBJECT: Xcel Energy Gas Heating Values Report

Dear Mr. Nitschke:

Enclosed with this letter are Xcel Energy's natural gas heating value reports for May 2017 as required by N.D. Admin. Code 69-09-01-02, part 2.

If you need further information or clarification regarding the enclosed response, please contact Lisa Kallberg at 651-229-2282.

Sincerely,

Jeff Murray  
Manager Pipeline Compliance & Standards  
Xcel Energy

Xcel Energy  
 Natural Gas Utility - State of North Dakota  
 Monthly Heating Values Report

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
5/1/2017 0:00	1024	1024	1191	1192
5/1/2017 1:00	1024	1024	1192	1192
5/1/2017 2:00	1024	1024	1192	1193
5/1/2017 3:00	1024	1024	1193	1194
5/1/2017 4:00	1024	1024	1194	1194
5/1/2017 5:00	1024	1024	1193	1194
5/1/2017 6:00	1024	1024	1192	1193
5/1/2017 7:00	1024	1024	1192	1192
5/1/2017 8:00	1024	1024	1192	1192
5/1/2017 9:00	1023	1024	1192	1192
5/1/2017 10:00	1023	1023	1192	1192
5/1/2017 11:00	1023	1023	1192	1192
5/1/2017 12:00	1023	1023	1192	1194
5/1/2017 13:00	1023	1023	1194	1198
5/1/2017 14:00	1023	1023	1198	1200
5/1/2017 15:00	1023	1023	1200	1200
5/1/2017 16:00	1023	1023	1199	1200
5/1/2017 17:00	1022	1023	1195	1199
5/1/2017 18:00	1022	1022	1193	1195
5/1/2017 19:00	1022	1023	1192	1194
5/1/2017 20:00	1023	1023	1190	1192
5/1/2017 21:00	1023	1024	1190	1190
5/1/2017 22:00	1024	1024	1190	1190
5/1/2017 23:00	1024	1025	1190	1191
5/2/2017 0:00	1025	1025	1191	1192
5/2/2017 1:00	1025	1025	1192	1193
5/2/2017 2:00	1025	1025	1192	1193
5/2/2017 3:00	1025	1025	1192	1193
5/2/2017 4:00	1025	1025	1193	1194
5/2/2017 5:00	1025	1025	1193	1194
5/2/2017 6:00	1025	1025	1194	1194
5/2/2017 7:00	1025	1025	1194	1194
5/2/2017 8:00	1025	1025	1194	1194
5/2/2017 9:00	1025	1025	1194	1194
5/2/2017 10:00	1025	1026	1194	1194
5/2/2017 11:00	1026	1026	1194	1194
5/2/2017 12:00	1026	1026	1194	1194
5/2/2017 13:00	1026	1026	1194	1194
5/2/2017 14:00	1026	1027	1193	1194
5/2/2017 15:00	1027	1027	1193	1193
5/2/2017 16:00	1027	1027	1192	1193
5/2/2017 17:00	1027	1027	1192	1192
5/2/2017 18:00	1027	1027	1192	1192
5/2/2017 19:00	1027	1027	1191	1192
5/2/2017 20:00	1027	1027	1191	1192
5/2/2017 21:00	1027	1027	1191	1192
5/2/2017 22:00	1027	1027	1192	1192
5/2/2017 23:00	1027	1027	1192	1193
5/3/2017 0:00	1026	1027	1193	1194
5/3/2017 1:00	1026	1026	1194	1194
5/3/2017 2:00	1026	1026	1194	1194
5/3/2017 3:00	1026	1026	1194	1194
5/3/2017 4:00	1026	1026	1193	1194
5/3/2017 5:00	1026	1026	1194	1194
5/3/2017 6:00	1026	1026	1194	1195
5/3/2017 7:00	1026	1026	1195	1195
5/3/2017 8:00	1026	1026	1195	1195
5/3/2017 9:00	1026	1026	1195	1195
5/3/2017 10:00	1026	1027	1195	1195
5/3/2017 11:00	1027	1027	1194	1195
5/3/2017 12:00	1027	1027	1194	1194
5/3/2017 13:00	1027	1027	1194	1194
5/3/2017 14:00	1027	1027	1194	1194
5/3/2017 15:00	1027	1027	1194	1194
5/3/2017 16:00	1027	1027	1194	1194
5/3/2017 17:00	1027	1027	1194	1194
5/3/2017 18:00	1026	1027	1194	1195

Xcel Energy  
 Natural Gas Utility - State of North Dakota  
 Monthly Heating Values Report

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
5/3/2017 19:00	1026	1026	1194	1194
5/3/2017 20:00	1026	1026	1193	1194
5/3/2017 21:00	1026	1026	1193	1193
5/3/2017 22:00	1025	1026	1193	1193
5/3/2017 23:00	1025	1025	1193	1193
5/4/2017 0:00	1025	1025	1193	1193
5/4/2017 1:00	1025	1025	1192	1193
5/4/2017 2:00	1025	1026	1192	1192
5/4/2017 3:00	1026	1026	1192	1192
5/4/2017 4:00	1026	1026	1192	1193
5/4/2017 5:00	1026	1026	1193	1193
5/4/2017 6:00	1026	1026	1193	1194
5/4/2017 7:00	1026	1026	1194	1194
5/4/2017 8:00	1026	1026	1194	1194
5/4/2017 9:00	1026	1026	1194	1194
5/4/2017 10:00	1026	1026	1194	1194
5/4/2017 11:00	1026	1026	1194	1194
5/4/2017 12:00	1026	1026	1194	1195
5/4/2017 13:00	1026	1026	1195	1196
5/4/2017 14:00	1026	1027	1195	1196
5/4/2017 15:00	1027	1027	1196	1196
5/4/2017 16:00	1026	1027	1194	1196
5/4/2017 17:00	1026	1026	1194	1195
5/4/2017 18:00	1025	1026	1194	1195
5/4/2017 19:00	1025	1025	1193	1194
5/4/2017 20:00	1025	1025	1193	1194
5/4/2017 21:00	1025	1026	1192	1194
5/4/2017 22:00	1026	1026	1191	1192
5/4/2017 23:00	1026	1026	1190	1191
5/5/2017 0:00	1026	1026	1189	1190
5/5/2017 1:00	1025	1026	1190	1190
5/5/2017 2:00	1024	1025	1190	1191
5/5/2017 3:00	1024	1024	1190	1191
5/5/2017 4:00	1024	1024	1190	1191
5/5/2017 5:00	1024	1024	1191	1191
5/5/2017 6:00	1024	1025	1191	1192
5/5/2017 7:00	1025	1025	1192	1193
5/5/2017 8:00	1025	1025	1193	1193
5/5/2017 9:00	1025	1025	1192	1193
5/5/2017 10:00	1024	1025	1192	1193
5/5/2017 11:00	1024	1024	1193	1193
5/5/2017 12:00	1024	1024	1193	1193
5/5/2017 13:00	1024	1024	1190	1192
5/5/2017 14:00	1024	1024	1190	1190
5/5/2017 15:00	1024	1024	1189	1189
5/5/2017 16:00	1024	1024	1189	1190
5/5/2017 17:00	1024	1025	1191	1191
5/5/2017 18:00	1025	1025	1191	1191
5/5/2017 19:00	1025	1025	1189	1190
5/5/2017 20:00	1025	1025	1188	1189
5/5/2017 21:00	1025	1025	1187	1188
5/5/2017 22:00	1025	1025	1186	1188
5/5/2017 23:00	1025	1025	1184	1185
5/6/2017 0:00	1025	1025	1184	1185
5/6/2017 1:00	1025	1025	1185	1186
5/6/2017 2:00	1025	1025	1186	1187
5/6/2017 3:00	1025	1025	1186	1187
5/6/2017 4:00	1025	1025	1186	1187
5/6/2017 5:00	1025	1025	1187	1189
5/6/2017 6:00	1024	1025	1189	1191
5/6/2017 7:00	1024	1024	1190	1191
5/6/2017 8:00	1024	1024	1190	1191
5/6/2017 9:00	1024	1024	1191	1192
5/6/2017 10:00	1024	1024	1192	1192
5/6/2017 11:00	1023	1024	1191	1192
5/6/2017 12:00	1023	1023	1192	1192
5/6/2017 13:00	1023	1024	1192	1193
5/6/2017 14:00	1024	1024	1193	1193
5/6/2017 15:00	1024	1024	1192	1193
5/6/2017 16:00	1024	1024	1192	1193
5/6/2017 17:00	1024	1024	1192	1193
5/6/2017 18:00	1024	1024	1193	1194
5/6/2017 19:00	1023	1024	1192	1194
5/6/2017 20:00	1023	1024	1191	1192
5/6/2017 21:00	1024	1026	1191	1191

Xcel Energy  
 Natural Gas Utility - State of North Dakota  
 Monthly Heating Values Report

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
5/6/2017 22:00	1026	1028	1190	1191
5/6/2017 23:00	1028	1028	1190	1190
5/7/2017 0:00	1028	1028	1189	1190
5/7/2017 1:00	1026	1028	1189	1189
5/7/2017 2:00	1025	1026	1187	1189
5/7/2017 3:00	1025	1025	1186	1187
5/7/2017 4:00	1025	1025	1184	1186
5/7/2017 5:00	1025	1026	1183	1184
5/7/2017 6:00	1026	1026	1183	1186
5/7/2017 7:00	1026	1026	1186	1188
5/7/2017 8:00	1026	1027	1187	1188
5/7/2017 9:00	1026	1027	1187	1188
5/7/2017 10:00	1026	1027	1188	1189
5/7/2017 11:00	1027	1028	1189	1190
5/7/2017 12:00	1028	1029	1190	1191
5/7/2017 13:00	1027	1029	1191	1191
5/7/2017 14:00	1026	1027	1190	1191
5/7/2017 15:00	1026	1026	1190	1190
5/7/2017 16:00	1026	1026	1190	1191
5/7/2017 17:00	1026	1026	1191	1191
5/7/2017 18:00	1026	1026	1191	1192
5/7/2017 19:00	1025	1026	1191	1192
5/7/2017 20:00	1025	1025	1191	1191
5/7/2017 21:00	1025	1025	1189	1191
5/7/2017 22:00	1025	1026	1187	1189
5/7/2017 23:00	1025	1026	1187	1189
5/8/2017 0:00	1025	1025	1189	1191
5/8/2017 1:00	1024	1025	1191	1191
5/8/2017 2:00	1024	1024	1189	1191
5/8/2017 3:00	1024	1024	1186	1189
5/8/2017 4:00	1024	1024	1184	1186
5/8/2017 5:00	1024	1025	1184	1185
5/8/2017 6:00	1025	1025	1184	1186
5/8/2017 7:00	1025	1025	1186	1187
5/8/2017 8:00	1024	1025	1187	1188
5/8/2017 9:00	1024	1024	1188	1190
5/8/2017 10:00	1024	1026	1190	1191
5/8/2017 11:00	1026	1026	1190	1191
5/8/2017 12:00	1026	1026	1190	1191
5/8/2017 13:00	1026	1026	1191	1191
5/8/2017 14:00	1026	1027	1191	1192
5/8/2017 15:00	1027	1027	1192	1192
5/8/2017 16:00	1027	1027	1192	1192
5/8/2017 17:00	1026	1027	1191	1192
5/8/2017 18:00	1025	1026	1191	1192
5/8/2017 19:00	1025	1025	1192	1192
5/8/2017 20:00	1024	1025	1192	1193
5/8/2017 21:00	1024	1024	1193	1193
5/8/2017 22:00	1024	1024	1192	1193
5/8/2017 23:00	1024	1024	1190	1192
5/9/2017 0:00	1024	1024	1190	1190
5/9/2017 1:00	1023	1024	1190	1190
5/9/2017 2:00	1023	1023	1190	1191
5/9/2017 3:00	1023	1023	1191	1192
5/9/2017 4:00	1023	1023	1191	1192
5/9/2017 5:00	1023	1023	1191	1191
5/9/2017 6:00	1023	1023	1191	1191
5/9/2017 7:00	1023	1023	1191	1191
5/9/2017 8:00	1023	1023	1191	1192
5/9/2017 9:00	1023	1023	1192	1193
5/9/2017 10:00	1023	1023	1192	1193
5/9/2017 11:00	1023	1023	1192	1192
5/9/2017 12:00	1023	1023	1191	1192
5/9/2017 13:00	1023	1023	1191	1191
5/9/2017 14:00	1023	1023	1191	1192
5/9/2017 15:00	1022	1023	1191	1192
5/9/2017 16:00	1022	1022	1191	1192
5/9/2017 17:00	1022	1022	1191	1192
5/9/2017 18:00	1022	1022	1190	1192
5/9/2017 19:00	1022	1022	1190	1192
5/9/2017 20:00	1022	1022	1192	1192
5/9/2017 21:00	1022	1023	1192	1192
5/9/2017 22:00	1023	1023	1191	1192
5/9/2017 23:00	1021	1023	1191	1191
5/10/2017 0:00	1020	1021	1189	1191

Xcel Energy  
 Natural Gas Utility - State of North Dakota  
 Monthly Heating Values Report

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
5/10/2017 1:00	1020	1020	1185	1189
5/10/2017 2:00	1020	1020	1182	1185
5/10/2017 3:00	1020	1020	1182	1183
5/10/2017 4:00	1020	1020	1183	1183
5/10/2017 5:00	1020	1020	1183	1185
5/10/2017 6:00	1020	1020	1185	1188
5/10/2017 7:00	1020	1020	1187	1188
5/10/2017 8:00	1020	1020	1187	1187
5/10/2017 9:00	1020	1020	1187	1187
5/10/2017 10:00	1020	1020	1187	1188
5/10/2017 11:00	1020	1020	1188	1189
5/10/2017 12:00	1020	1020	1188	1189
5/10/2017 13:00	1020	1020	1187	1188
5/10/2017 14:00	1020	1020	1186	1187
5/10/2017 15:00	1020	1020	1186	1187
5/10/2017 16:00	1020	1020	1187	1190
5/10/2017 17:00	1020	1020	1190	1191
5/10/2017 18:00	1020	1020	1190	1191
5/10/2017 19:00	1020	1020	1190	1190
5/10/2017 20:00	1020	1021	1190	1190
5/10/2017 21:00	1021	1021	1189	1190
5/10/2017 22:00	1021	1021	1188	1189
5/10/2017 23:00	1021	1021	1188	1189
5/11/2017 0:00	1021	1021	1189	1190
5/11/2017 1:00	1021	1022	1190	1190
5/11/2017 2:00	1022	1022	1190	1191
5/11/2017 3:00	1022	1022	1190	1190
5/11/2017 4:00	1022	1022	1190	1190
5/11/2017 5:00	1022	1022	1190	1190
5/11/2017 6:00	1022	1022	1190	1190
5/11/2017 7:00	1022	1022	1190	1190
5/11/2017 8:00	1022	1022	1190	1191
5/11/2017 9:00	1022	1022	1189	1190
5/11/2017 10:00	1022	1022	1189	1190
5/11/2017 11:00	1021	1022	1190	1190
5/11/2017 12:00	1021	1021	1190	1190
5/11/2017 13:00	1020	1021	1189	1190
5/11/2017 14:00	1020	1020	1189	1191
5/11/2017 15:00	1020	1020	1190	1191
5/11/2017 16:00	1020	1020	1191	1191
5/11/2017 17:00	1020	1020	1190	1191
5/11/2017 18:00	1020	1020	1190	1191
5/11/2017 19:00	1020	1020	1191	1191
5/11/2017 20:00	1020	1021	1190	1191
5/11/2017 21:00	1021	1021	1190	1191
5/11/2017 22:00	1021	1021	1190	1191
5/11/2017 23:00	1021	1021	1189	1190
5/12/2017 0:00	1021	1021	1189	1189
5/12/2017 1:00	1021	1021	1189	1190
5/12/2017 2:00	1021	1021	1190	1190
5/12/2017 3:00	1021	1021	1190	1191
5/12/2017 4:00	1021	1021	1191	1191
5/12/2017 5:00	1021	1022	1189	1191
5/12/2017 6:00	1022	1022	1185	1189
5/12/2017 7:00	1022	1022	1185	1186
5/12/2017 8:00	1022	1022	1186	1186
5/12/2017 9:00	1021	1022	1186	1186
5/12/2017 10:00	1021	1021	1186	1190
5/12/2017 11:00	1021	1021	1190	1191
5/12/2017 12:00	1021	1022	1191	1192
5/12/2017 13:00	1022	1022	1192	1192
5/12/2017 14:00	1022	1023	1192	1192
5/12/2017 15:00	1023	1023	1192	1192
5/12/2017 16:00	1023	1024	1191	1192
5/12/2017 17:00	1023	1024	1191	1192
5/12/2017 18:00	1023	1023	1192	1192
5/12/2017 19:00	1023	1023	1192	1192
5/12/2017 20:00	1023	1023	1192	1192
5/12/2017 21:00	1022	1023	1190	1192
5/12/2017 22:00	1022	1022	1190	1191
5/12/2017 23:00	1022	1022	1190	1191
5/13/2017 0:00	1022	1023	1190	1191
5/13/2017 1:00	1023	1023	1191	1192
5/13/2017 2:00	1023	1023	1192	1192
5/13/2017 3:00	1022	1023	1192	1193

Xcel Energy  
 Natural Gas Utility - State of North Dakota  
 Monthly Heating Values Report

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
5/13/2017 4:00	1022	1022	1192	1193
5/13/2017 5:00	1022	1022	1193	1194
5/13/2017 6:00	1022	1022	1194	1194
5/13/2017 7:00	1022	1022	1194	1194
5/13/2017 8:00	1022	1022	1194	1194
5/13/2017 9:00	1021	1022	1193	1194
5/13/2017 10:00	1021	1021	1193	1193
5/13/2017 11:00	1021	1021	1191	1193
5/13/2017 12:00	1021	1021	1190	1191
5/13/2017 13:00	1020	1021	1190	1190
5/13/2017 14:00	1020	1020	1190	1190
5/13/2017 15:00	1020	1020	1190	1190
5/13/2017 16:00	1020	1020	1190	1190
5/13/2017 17:00	1020	1020	1189	1190
5/13/2017 18:00	1020	1020	1188	1189
5/13/2017 19:00	1020	1020	1187	1188
5/13/2017 20:00	1020	1020	1187	1187
5/13/2017 21:00	1020	1020	1187	1187
5/13/2017 22:00	1020	1020	1187	1188
5/13/2017 23:00	1020	1020	1186	1187
5/14/2017 0:00	1020	1020	1186	1186
5/14/2017 1:00	1020	1020	1186	1187
5/14/2017 2:00	1020	1020	1186	1187
5/14/2017 3:00	1020	1020	1187	1187
5/14/2017 4:00	1020	1020	1187	1188
5/14/2017 5:00	1020	1020	1188	1189
5/14/2017 6:00	1020	1020	1189	1189
5/14/2017 7:00	1020	1020	1189	1189
5/14/2017 8:00	1020	1020	1189	1189
5/14/2017 9:00	1020	1020	1189	1190
5/14/2017 10:00	1020	1020	1189	1190
5/14/2017 11:00	1020	1020	1189	1190
5/14/2017 12:00	1020	1020	1190	1191
5/14/2017 13:00	1020	1020	1191	1192
5/14/2017 14:00	1020	1020	1192	1192
5/14/2017 15:00	1020	1020	1192	1192
5/14/2017 16:00	1019	1020	1192	1192
5/14/2017 17:00	1019	1019	1192	1192
5/14/2017 18:00	1019	1019	1192	1192
5/14/2017 19:00	1019	1019	1192	1193
5/14/2017 20:00	1019	1019	1191	1192
5/14/2017 21:00	1019	1019	1191	1191
5/14/2017 22:00	1018	1019	1191	1191
5/14/2017 23:00	1018	1018	1191	1191
5/15/2017 0:00	1018	1018	1190	1191
5/15/2017 1:00	1018	1018	1190	1191
5/15/2017 2:00	1018	1018	1191	1191
5/15/2017 3:00	1018	1018	1191	1191
5/15/2017 4:00	1018	1018	1191	1192
5/15/2017 5:00	1018	1018	1192	1192
5/15/2017 6:00	1018	1018	1192	1193
5/15/2017 7:00	1018	1018	1193	1193
5/15/2017 8:00	1018	1018	1193	1193
5/15/2017 9:00	1018	1018	1192	1193
5/15/2017 10:00	1018	1018	1192	1192
5/15/2017 11:00	1018	1019	1192	1193
5/15/2017 12:00	1019	1020	1192	1193
5/15/2017 13:00	1020	1021	1191	1192
5/15/2017 14:00	1021	1021	1191	1191
5/15/2017 15:00	1021	1022	1191	1191
5/15/2017 16:00	1022	1022	1191	1191
5/15/2017 17:00	1022	1022	1191	1191
5/15/2017 18:00	1022	1022	1191	1191
5/15/2017 19:00	1022	1022	1180	1191
5/15/2017 20:00	1021	1022	1180	1184
5/15/2017 21:00	1021	1021	1184	1187
5/15/2017 22:00	1021	1021	1186	1187
5/15/2017 23:00	1021	1021	1186	1189
5/16/2017 0:00	1021	1021	1188	1189
5/16/2017 1:00	1021	1021	1189	1190
5/16/2017 2:00	1021	1021	1189	1190
5/16/2017 3:00	1021	1021	1189	1189
5/16/2017 4:00	1021	1021	1188	1189
5/16/2017 5:00	1021	1021	1188	1189
5/16/2017 6:00	1021	1021	1189	1190

Xcel Energy  
 Natural Gas Utility - State of North Dakota  
 Monthly Heating Values Report

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
5/16/2017 7:00	1021	1021	1190	1190
5/16/2017 8:00	1021	1021	1190	1191
5/16/2017 9:00	1021	1021	1191	1191
5/16/2017 10:00	1021	1021	1191	1192
5/16/2017 11:00	1021	1021	1189	1191
5/16/2017 12:00	1021	1021	1189	1189
5/16/2017 13:00	1021	1021	1189	1190
5/16/2017 14:00	1021	1021	1190	1190
5/16/2017 15:00	1021	1022	1190	1190
5/16/2017 16:00	1022	1022	1186	1190
5/16/2017 17:00	1022	1022	1173	1186
5/16/2017 18:00	1022	1022	1167	1173
5/16/2017 19:00	1022	1022	1166	1170
5/16/2017 20:00	1022	1022	1170	1174
5/16/2017 21:00	1022	1022	1174	1176
5/16/2017 22:00	1022	1022	1175	1178
5/16/2017 23:00	1022	1022	1178	1182
5/17/2017 0:00	1022	1022	1182	1185
5/17/2017 1:00	1022	1022	1184	1187
5/17/2017 2:00	1022	1022	1187	1188
5/17/2017 3:00	1022	1022	1188	1188
5/17/2017 4:00	1022	1022	1188	1188
5/17/2017 5:00	1022	1022	1188	1189
5/17/2017 6:00	1022	1022	1189	1190
5/17/2017 7:00	1022	1022	1190	1191
5/17/2017 8:00	1022	1022	1191	1192
5/17/2017 9:00	1022	1022	1192	1192
5/17/2017 10:00	1022	1022	1192	1192
5/17/2017 11:00	1022	1022	1192	1192
5/17/2017 12:00	1022	1022	1191	1192
5/17/2017 13:00	1022	1022	1191	1192
5/17/2017 14:00	1022	1022	1191	1191
5/17/2017 15:00	1022	1022	1191	1191
5/17/2017 16:00	1022	1022	1191	1191
5/17/2017 17:00	1022	1022	1191	1191
5/17/2017 18:00	1022	1022	1191	1191
5/17/2017 19:00	1022	1022	1191	1191
5/17/2017 20:00	1022	1022	1190	1191
5/17/2017 21:00	1021	1022	1190	1190
5/17/2017 22:00	1021	1021	1190	1190
5/17/2017 23:00	1021	1021	1190	1191
5/18/2017 0:00	1021	1021	1190	1191
5/18/2017 1:00	1021	1021	1191	1191
5/18/2017 2:00	1021	1022	1190	1191
5/18/2017 3:00	1022	1022	1190	1192
5/18/2017 4:00	1022	1022	1191	1192
5/18/2017 5:00	1022	1022	1191	1191
5/18/2017 6:00	1022	1022	1191	1191
5/18/2017 7:00	1022	1022	1190	1191
5/18/2017 8:00	1022	1022	1191	1191
5/18/2017 9:00	1022	1022	1191	1191
5/18/2017 10:00	1022	1022	1191	1191
5/18/2017 11:00	1022	1022	1191	1191
5/18/2017 12:00	1022	1022	1191	1191
5/18/2017 13:00	1022	1022	1191	1191
5/18/2017 14:00	1021	1022	1191	1191
5/18/2017 15:00	1021	1022	1191	1191
5/18/2017 16:00	1022	1022	1191	1191
5/18/2017 17:00	1022	1022	1191	1191
5/18/2017 18:00	1022	1023	1191	1191
5/18/2017 19:00	1023	1023	1191	1191
5/18/2017 20:00	1022	1023	1191	1191
5/18/2017 21:00	1022	1022	1191	1191
5/18/2017 22:00	1022	1022	1191	1191
5/18/2017 23:00	1022	1022	1191	1191
5/19/2017 0:00	1021	1022	1191	1191
5/19/2017 1:00	1021	1021	1191	1191
5/19/2017 2:00	1021	1021	1191	1191
5/19/2017 3:00	1021	1021	1191	1191
5/19/2017 4:00	1021	1021	1191	1191
5/19/2017 5:00	1021	1021	1191	1191
5/19/2017 6:00	1021	1022	1191	1191
5/19/2017 7:00	1022	1022	1191	1191
5/19/2017 8:00	1022	1022	1191	1191
5/19/2017 9:00	1022	1022	1191	1191

Xcel Energy  
 Natural Gas Utility - State of North Dakota  
 Monthly Heating Values Report

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
5/19/2017 10:00	1021	1022	1191	1191
5/19/2017 11:00	1021	1021	1191	1191
5/19/2017 12:00	1021	1021	1191	1191
5/19/2017 13:00	1021	1021	1191	1191
5/19/2017 14:00	1021	1021	1191	1191
5/19/2017 15:00	1020	1021	1191	1191
5/19/2017 16:00	1020	1020	1191	1191
5/19/2017 17:00	1020	1020	1191	1191
5/19/2017 18:00	1020	1020	1191	1191
5/19/2017 19:00	1020	1021	1191	1191
5/19/2017 20:00	1021	1021	1191	1191
5/19/2017 21:00	1021	1021	1191	1191
5/19/2017 22:00	1021	1021	1191	1191
5/19/2017 23:00	1020	1021	1191	1191
5/20/2017 0:00	1020	1020	1191	1191
5/20/2017 1:00	1020	1020	1191	1191
5/20/2017 2:00	1020	1020	1191	1191
5/20/2017 3:00	1020	1020	1191	1191
5/20/2017 4:00	1020	1020	1191	1191
5/20/2017 5:00	1020	1020	1191	1191
5/20/2017 6:00	1020	1020	1191	1191
5/20/2017 7:00	1020	1020	1191	1191
5/20/2017 8:00	1020	1020	1191	1191
5/20/2017 9:00	1020	1021	1191	1191
5/20/2017 10:00	1021	1021	1191	1191
5/20/2017 11:00	1021	1021	1191	1191
5/20/2017 12:00	1021	1021	1191	1191
5/20/2017 13:00	1021	1022	1191	1191
5/20/2017 14:00	1022	1022	1191	1191
5/20/2017 15:00	1022	1022	1191	1191
5/20/2017 16:00	1022	1022	1191	1191
5/20/2017 17:00	1022	1022	1191	1191
5/20/2017 18:00	1022	1022	1191	1191
5/20/2017 19:00	1022	1022	1191	1191
5/20/2017 20:00	1022	1022	1191	1191
5/20/2017 21:00	1022	1022	1191	1191
5/20/2017 22:00	1022	1022	1191	1191
5/20/2017 23:00	1022	1022	1191	1191
5/21/2017 0:00	1022	1022	1191	1191
5/21/2017 1:00	1022	1022	1191	1191
5/21/2017 2:00	1022	1022	1191	1191
5/21/2017 3:00	1022	1022	1191	1191
5/21/2017 4:00	1022	1022	1191	1191
5/21/2017 5:00	1022	1022	1191	1191
5/21/2017 6:00	1022	1022	1191	1191
5/21/2017 7:00	1022	1022	1191	1191
5/21/2017 8:00	1022	1022	1191	1193
5/21/2017 9:00	1022	1022	1192	1193
5/21/2017 10:00	1022	1022	1192	1192
5/21/2017 11:00	1022	1022	1192	1192
5/21/2017 12:00	1022	1023	1192	1192
5/21/2017 13:00	1023	1023	1192	1193
5/21/2017 14:00	1023	1023	1193	1193
5/21/2017 15:00	1023	1023	1193	1193
5/21/2017 16:00	1023	1023	1193	1193
5/21/2017 17:00	1023	1023	1193	1193
5/21/2017 18:00	1022	1023	1192	1193
5/21/2017 19:00	1022	1022	1192	1193
5/21/2017 20:00	1022	1022	1193	1193
5/21/2017 21:00	1022	1022	1191	1193
5/21/2017 22:00	1022	1022	1191	1192
5/21/2017 23:00	1022	1022	1192	1193
5/22/2017 0:00	1022	1022	1192	1193
5/22/2017 1:00	1022	1023	1192	1193
5/22/2017 2:00	1023	1023	1192	1192
5/22/2017 3:00	1023	1023	1192	1193
5/22/2017 4:00	1023	1024	1192	1193
5/22/2017 5:00	1023	1024	1192	1192
5/22/2017 6:00	1023	1023	1192	1192
5/22/2017 7:00	1023	1023	1192	1193
5/22/2017 8:00	1023	1023	1192	1192
5/22/2017 9:00	1023	1024	1192	1193
5/22/2017 10:00	1024	1024	1192	1193
5/22/2017 11:00	1024	1024	1192	1193
5/22/2017 12:00	1024	1024	1193	1193

Xcel Energy  
 Natural Gas Utility - State of North Dakota  
 Monthly Heating Values Report

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
5/22/2017 13:00	1024	1024	1192	1193
5/22/2017 14:00	1024	1024	1193	1193
5/22/2017 15:00	1024	1024	1193	1193
5/22/2017 16:00	1024	1024	1193	1194
5/22/2017 17:00	1024	1024	1194	1194
5/22/2017 18:00	1024	1024	1193	1194
5/22/2017 19:00	1024	1024	1193	1193
5/22/2017 20:00	1024	1024	1192	1193
5/22/2017 21:00	1024	1025	1192	1192
5/22/2017 22:00	1025	1025	1191	1192
5/22/2017 23:00	1025	1025	1191	1192
5/23/2017 0:00	1025	1025	1191	1192
5/23/2017 1:00	1025	1025	1191	1192
5/23/2017 2:00	1025	1025	1191	1191
5/23/2017 3:00	1025	1026	1191	1191
5/23/2017 4:00	1026	1027	1191	1191
5/23/2017 5:00	1027	1027	1191	1191
5/23/2017 6:00	1027	1028	1191	1192
5/23/2017 7:00	1028	1030	1192	1192
5/23/2017 8:00	1030	1030	1191	1192
5/23/2017 9:00	1030	1031	1191	1192
5/23/2017 10:00	1031	1031	1191	1192
5/23/2017 11:00	1031	1031	1191	1192
5/23/2017 12:00	1030	1031	1191	1192
5/23/2017 13:00	1030	1030	1192	1192
5/23/2017 14:00	1030	1030	1192	1193
5/23/2017 15:00	1030	1030	1193	1193
5/23/2017 16:00	1030	1030	1193	1193
5/23/2017 17:00	1030	1030	1193	1193
5/23/2017 18:00	1029	1030	1193	1193
5/23/2017 19:00	1029	1029	1193	1193
5/23/2017 20:00	1029	1029	1192	1193
5/23/2017 21:00	1028	1029	1192	1193
5/23/2017 22:00	1028	1028	1193	1193
5/23/2017 23:00	1028	1028	1193	1193
5/24/2017 0:00	1028	1028	1192	1193
5/24/2017 1:00	1028	1028	1192	1193
5/24/2017 2:00	1028	1028	1191	1192
5/24/2017 3:00	1028	1028	1190	1191
5/24/2017 4:00	1028	1028	1190	1190
5/24/2017 5:00	1028	1029	1190	1191
5/24/2017 6:00	1029	1029	1191	1191
5/24/2017 7:00	1029	1030	1191	1191
5/24/2017 8:00	1030	1030	1191	1191
5/24/2017 9:00	1030	1031	1191	1191
5/24/2017 10:00	1031	1032	1191	1192
5/24/2017 11:00	1032	1033	1192	1192
5/24/2017 12:00	1033	1033	1192	1193
5/24/2017 13:00	1033	1034	1193	1193
5/24/2017 14:00	1034	1034	1192	1193
5/24/2017 15:00	1034	1034	1191	1193
5/24/2017 16:00	1034	1034	1192	1192
5/24/2017 17:00	1034	1034	1192	1193
5/24/2017 18:00	1034	1034	1191	1193
5/24/2017 19:00	1034	1034	1191	1192
5/24/2017 20:00	1034	1034	1192	1192
5/24/2017 21:00	1033	1034	1192	1192
5/24/2017 22:00	1033	1033	1192	1192
5/24/2017 23:00	1032	1033	1191	1192
5/25/2017 0:00	1031	1032	1191	1191
5/25/2017 1:00	1031	1031	1191	1191
5/25/2017 2:00	1031	1032	1191	1191
5/25/2017 3:00	1032	1033	1191	1191
5/25/2017 4:00	1033	1033	1191	1191
5/25/2017 5:00	1033	1034	1191	1191
5/25/2017 6:00	1034	1034	1192	1192
5/25/2017 7:00	1034	1034	1192	1193
5/25/2017 8:00	1034	1034	1193	1193
5/25/2017 9:00	1034	1034	1193	1193
5/25/2017 10:00	1034	1034	1192	1193
5/25/2017 11:00	1034	1034	1192	1192
5/25/2017 12:00	1033	1034	1192	1192
5/25/2017 13:00	1033	1033	1192	1193
5/25/2017 14:00	1033	1033	1191	1192
5/25/2017 15:00	1032	1033	1190	1191

Xcel Energy  
 Natural Gas Utility - State of North Dakota  
 Monthly Heating Values Report

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
5/25/2017 16:00	1032	1032	1189	1190
5/25/2017 17:00	1031	1032	1190	1190
5/25/2017 18:00	1031	1031	1190	1191
5/25/2017 19:00	1031	1032	1191	1192
5/25/2017 20:00	1032	1032	1192	1192
5/25/2017 21:00	1032	1032	1192	1192
5/25/2017 22:00	1032	1033	1192	1192
5/25/2017 23:00	1033	1033	1191	1192
5/26/2017 0:00	1033	1033	1191	1191
5/26/2017 1:00	1033	1033	1191	1192
5/26/2017 2:00	1033	1033	1192	1192
5/26/2017 3:00	1033	1033	1191	1191
5/26/2017 4:00	1033	1033	1191	1191
5/26/2017 5:00	1032	1033	1191	1192
5/26/2017 6:00	1032	1032	1192	1192
5/26/2017 7:00	1031	1032	1192	1192
5/26/2017 8:00	1031	1031	1191	1192
5/26/2017 9:00	1031	1031	1191	1193
5/26/2017 10:00	1031	1031	1193	1194
5/26/2017 11:00	1031	1031	1194	1194
5/26/2017 12:00	1031	1032	1194	1194
5/26/2017 13:00	1032	1033	1194	1195
5/26/2017 14:00	1033	1033	1194	1194
5/26/2017 15:00	1033	1033	1193	1194
5/26/2017 16:00	1033	1033	1193	1194
5/26/2017 17:00	1032	1033	1193	1193
5/26/2017 18:00	1032	1032	1193	1193
5/26/2017 19:00	1032	1032	1193	1193
5/26/2017 20:00	1032	1032	1193	1193
5/26/2017 21:00	1032	1032	1192	1193
5/26/2017 22:00	1032	1032	1192	1192
5/26/2017 23:00	1032	1032	1192	1192
5/27/2017 0:00	1032	1032	1191	1192
5/27/2017 1:00	1032	1032	1189	1190
5/27/2017 2:00	1032	1032	1188	1189
5/27/2017 3:00	1032	1032	1188	1189
5/27/2017 4:00	1032	1032	1189	1189
5/27/2017 5:00	1032	1032	1189	1189
5/27/2017 6:00	1032	1032	1188	1189
5/27/2017 7:00	1032	1032	1188	1190
5/27/2017 8:00	1032	1032	1190	1190
5/27/2017 9:00	1031	1032	1192	1194
5/27/2017 10:00	1031	1031	1195	1196
5/27/2017 11:00	1031	1032	1196	1197
5/27/2017 12:00	1032	1032	1196	1197
5/27/2017 13:00	1032	1033	1196	1196
5/27/2017 14:00	1033	1033	1194	1195
5/27/2017 15:00	1033	1034	1192	1194
5/27/2017 16:00	1034	1034	1192	1193
5/27/2017 17:00	1034	1035	1193	1193
5/27/2017 18:00	1035	1035	1193	1193
5/27/2017 19:00	1035	1035	1193	1193
5/27/2017 20:00	1034	1035	1193	1193
5/27/2017 21:00	1034	1034	1193	1194
5/27/2017 22:00	1034	1034	1193	1193
5/27/2017 23:00	1033	1034	1193	1193
5/28/2017 0:00	1033	1033	1193	1193
5/28/2017 1:00	1032	1033	1193	1193
5/28/2017 2:00	1032	1032	1192	1193
5/28/2017 3:00	1032	1032	1192	1194
5/28/2017 4:00	1032	1032	1194	1194
5/28/2017 5:00	1032	1032	1194	1194
5/28/2017 6:00	1032	1032	1194	1195
5/28/2017 7:00	1032	1033	1194	1195
5/28/2017 8:00	1033	1033	1193	1194
5/28/2017 9:00	1033	1035	1192	1193
5/28/2017 10:00	1035	1035	1192	1194
5/28/2017 11:00	1034	1035	1194	1194
5/28/2017 12:00	1033	1034	1194	1194
5/28/2017 13:00	1032	1033	1194	1194
5/28/2017 14:00	1031	1032	1193	1194
5/28/2017 15:00	1031	1031	1192	1192
5/28/2017 16:00	1031	1031	1191	1192
5/28/2017 17:00	1031	1032	1192	1192
5/28/2017 18:00	1032	1033	1192	1193

Xcel Energy  
 Natural Gas Utility - State of North Dakota  
 Monthly Heating Values Report

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
5/28/2017 19:00	1033	1033	1193	1193
5/28/2017 20:00	1033	1033	1193	1193
5/28/2017 21:00	1032	1033	1193	1193
5/28/2017 22:00	1031	1032	1193	1193
5/28/2017 23:00	1030	1031	1193	1193
5/29/2017 0:00	1030	1030	1193	1193
5/29/2017 1:00	1030	1030	1193	1193
5/29/2017 2:00	1030	1030	1193	1193
5/29/2017 3:00	1030	1030	1193	1194
5/29/2017 4:00	1030	1030	1193	1194
5/29/2017 5:00	1029	1030	1193	1194
5/29/2017 6:00	1029	1029	1193	1194
5/29/2017 7:00	1029	1029	1193	1194
5/29/2017 8:00	1029	1029	1191	1193
5/29/2017 9:00	1029	1029	1190	1191
5/29/2017 10:00	1029	1030	1190	1192
5/29/2017 11:00	1030	1030	1192	1193
5/29/2017 12:00	1030	1030	1193	1193
5/29/2017 13:00	1030	1030	1193	1194
5/29/2017 14:00	1030	1030	1193	1194
5/29/2017 15:00	1030	1031	1193	1194
5/29/2017 16:00	1031	1031	1193	1193
5/29/2017 17:00	1031	1032	1193	1193
5/29/2017 18:00	1032	1032	1193	1193
5/29/2017 19:00	1032	1032	1193	1193
5/29/2017 20:00	1032	1032	1192	1193
5/29/2017 21:00	1032	1032	1192	1192
5/29/2017 22:00	1032	1032	1192	1192
5/29/2017 23:00	1032	1032	1192	1192
5/30/2017 0:00	1032	1032	1191	1192
5/30/2017 1:00	1032	1032	1191	1193
5/30/2017 2:00	1032	1032	1192	1193
5/30/2017 3:00	1032	1032	1190	1192
5/30/2017 4:00	1032	1032	1189	1190
5/30/2017 5:00	1032	1032	1188	1189
5/30/2017 6:00	1032	1032	1188	1190
5/30/2017 7:00	1032	1032	1190	1192
5/30/2017 8:00	1032	1032	1192	1193
5/30/2017 9:00	1032	1032	1193	1193
5/30/2017 10:00	1032	1032	1193	1193
5/30/2017 11:00	1032	1033	1193	1193
5/30/2017 12:00	1033	1033	1193	1194
5/30/2017 13:00	1033	1033	1194	1194
5/30/2017 14:00	1033	1033	1193	1194
5/30/2017 15:00	1033	1033	1193	1194
5/30/2017 16:00	1033	1034	1193	1193
5/30/2017 17:00	1034	1034	1193	1193
5/30/2017 18:00	1033	1034	1193	1193
5/30/2017 19:00	1033	1033	1193	1193
5/30/2017 20:00	1033	1033	1193	1193

Xcel Energy  
 Natural Gas Utility - State of North Dakota  
 Monthly Heating Values Report

Date/Time	Viking Gas Transmission (Fargo)		Williston Basin Interstate (Mapleton)	
	Min BTU	Max BTU	Min BTU	Max BTU
5/30/2017 21:00	1033	1033	1193	1193
5/30/2017 22:00	1032	1033	1192	1193
5/30/2017 23:00	1032	1032	1191	1192
5/31/2017 0:00	1032	1032	1192	1192
5/31/2017 1:00	1031	1032	1192	1192
5/31/2017 2:00	1031	1031	1192	1193
5/31/2017 3:00	1031	1032	1193	1193
5/31/2017 4:00	1032	1032	1192	1193
5/31/2017 5:00	1032	1032	1193	1193
5/31/2017 6:00	1032	1032	1193	1193
5/31/2017 7:00	1031	1032	1193	1193
5/31/2017 8:00	1031	1031	1193	1193
5/31/2017 9:00	1030	1031	1193	1194
5/31/2017 10:00	1030	1030	1193	1193
5/31/2017 11:00	1030	1030	1193	1193
5/31/2017 12:00	1030	1031	1193	1193
5/31/2017 13:00	1031	1031	1192	1193
5/31/2017 14:00	1031	1031	1192	1192
5/31/2017 15:00	1031	1031	1192	1192
5/31/2017 16:00	1031	1032	1192	1193
5/31/2017 17:00	1032	1033	1192	1193
5/31/2017 18:00	1033	1033	1192	1193
5/31/2017 19:00	1033	1033	1193	1193
5/31/2017 20:00	1033	1033	1192	1193
5/31/2017 21:00	1033	1033	1192	1193
5/31/2017 22:00	1032	1033	1191	1192
5/31/2017 23:00	1032	1032	1191	1192
	Min (Btu/cf)	Max (Btu/cf)	Min (Btu/cf)	Max (Btu/cf)
	1018	1035	1166	1200