



825 Rice Street  
Saint Paul, MN 55117

June 29, 2023

Steve Kahl, 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. Kahl:

Enclosed with this letter are Xcel Energy's natural gas heating value reports for May 2023 as required by N.D. PU-23-13.

If you need further information or clarification regarding the enclosed response, please contact Lisa Kallberg at 651-788-0648.

Sincerely,

A handwritten signature in black ink that reads 'Jeffrey Cremin'. The signature is written in a cursive, flowing style.

Jeffrey Cremin, Manager Gas 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
5/1/2023 0:00	1047	1048	1198	1200
5/1/2023 1:00	1048	1048	1197	1199
5/1/2023 2:00	1048	1048	1197	1199
5/1/2023 3:00	1048	1048	1192	1199
5/1/2023 4:00	1045	1048	1192	1192
5/1/2023 5:00	1046	1047	1192	1193
5/1/2023 6:00	1047	1047	1193	1195
5/1/2023 7:00	1047	1048	1195	1196
5/1/2023 8:00	1047	1048	1196	1196
5/1/2023 9:00	1046	1047	1193	1196
5/1/2023 10:00	1045	1046	1189	1193
5/1/2023 11:00	1044	1045	1187	1189
5/1/2023 12:00	1043	1044	1185	1188
5/1/2023 13:00	1043	1043	1182	1185
5/1/2023 14:00	1043	1043	1180	1182
5/1/2023 15:00	1043	1043	1181	1183
5/1/2023 16:00	1043	1044	1183	1188
5/1/2023 17:00	1044	1045	1184	1188
5/1/2023 18:00	1045	1045	1184	1185
5/1/2023 19:00	1045	1045	1185	1187
5/1/2023 20:00	1045	1045	1186	1187
5/1/2023 21:00	1045	1045	1187	1192
5/1/2023 22:00	1045	1045	1192	1197
5/1/2023 23:00	1045	1045	1196	1198
5/2/2023 0:00	1044	1045	1197	1198
5/2/2023 1:00	1044	1044	1197	1198
5/2/2023 2:00	1044	1044	1198	1199
5/2/2023 3:00	1044	1044	1192	1199
5/2/2023 4:00	1043	1044	1190	1192
5/2/2023 5:00	1044	1044	1189	1190
5/2/2023 6:00	1044	1044	1189	1190
5/2/2023 7:00	1044	1044	1190	1191
5/2/2023 8:00	1044	1044	1191	1192
5/2/2023 9:00	1043	1044	1191	1192
5/2/2023 10:00	1043	1044	1188	1191
5/2/2023 11:00	1044	1044	1184	1188
5/2/2023 12:00	1044	1044	1180	1184
5/2/2023 13:00	1044	1044	1180	1189
5/2/2023 14:00	1043	1044	1189	1191
5/2/2023 15:00	1043	1043	1188	1191
5/2/2023 16:00	1042	1043	1188	1189
5/2/2023 17:00	1041	1042	1189	1192
5/2/2023 18:00	1041	1041	1187	1192
5/2/2023 19:00	1041	1041	1185	1188
5/2/2023 20:00	1041	1041	1184	1185
5/2/2023 21:00	1041	1041	1184	1185
5/2/2023 22:00	1041	1041	1184	1184
5/2/2023 23:00	1041	1041	1184	1186
5/3/2023 0:00	1041	1041	1185	1190
5/3/2023 1:00	1041	1041	1190	1193
5/3/2023 2:00	1041	1042	1192	1193
5/3/2023 3:00	1041	1042	1192	1193
5/3/2023 4:00	1041	1042	1192	1195
5/3/2023 5:00	1042	1042	1195	1199
5/3/2023 6:00	1042	1043	1196	1199
5/3/2023 7:00	1043	1043	1195	1196
5/3/2023 8:00	1043	1043	1195	1196
5/3/2023 9:00	1043	1044	1196	1197
5/3/2023 10:00	1043	1044	1197	1198
5/3/2023 11:00	1043	1043	1194	1198
5/3/2023 12:00	1043	1043	1191	1194
5/3/2023 13:00	1042	1043	1189	1191
5/3/2023 14:00	1041	1042	1188	1190
5/3/2023 15:00	1041	1041	1188	1190
5/3/2023 16:00	1041	1041	1189	1190
5/3/2023 17:00	1041	1041	1189	1190
5/3/2023 18:00	1041	1041	1190	1191
5/3/2023 19:00	1041	1041	1188	1191
5/3/2023 20:00	1041	1042	1188	1190
5/3/2023 21:00	1041	1042	1190	1192
5/3/2023 22:00	1041	1042	1192	1193
5/3/2023 23:00	1042	1042	1193	1197

**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
5/4/2023 0:00	1042	1042	1197	1199
5/4/2023 1:00	1042	1042	1199	1200
5/4/2023 2:00	1042	1042	1199	1200
5/4/2023 3:00	1042	1042	1199	1200
5/4/2023 4:00	1042	1042	1199	1199
5/4/2023 5:00	1042	1042	1197	1199
5/4/2023 6:00	1042	1042	1195	1197
5/4/2023 7:00	1042	1043	1195	1197
5/4/2023 8:00	1043	1043	1197	1199
5/4/2023 9:00	1043	1043	1198	1200
5/4/2023 10:00	1043	1043	1198	1199
5/4/2023 11:00	1043	1043	1198	1199
5/4/2023 12:00	1043	1043	1196	1198
5/4/2023 13:00	1043	1043	1194	1196
5/4/2023 14:00	1042	1043	1192	1194
5/4/2023 15:00	1042	1043	1191	1192
5/4/2023 16:00	1042	1043	1190	1191
5/4/2023 17:00	1042	1042	1191	1193
5/4/2023 18:00	1042	1042	1189	1193
5/4/2023 19:00	1041	1042	1188	1189
5/4/2023 20:00	1041	1041	1185	1188
5/4/2023 21:00	1041	1041	1184	1185
5/4/2023 22:00	1041	1041	1185	1188
5/4/2023 23:00	1041	1041	1187	1188
5/5/2023 0:00	1041	1041	1187	1189
5/5/2023 1:00	1041	1041	1189	1192
5/5/2023 2:00	1041	1041	1191	1194
5/5/2023 3:00	1041	1041	1189	1199
5/5/2023 4:00	1041	1043	1183	1189
5/5/2023 5:00	1043	1043	1185	1186
5/5/2023 6:00	1043	1044	1185	1186
5/5/2023 7:00	1044	1044	1186	1186
5/5/2023 8:00	1044	1044	1186	1189
5/5/2023 9:00	1044	1044	1189	1192
5/5/2023 10:00	1044	1044	1192	1194
5/5/2023 11:00	1043	1044	1194	1197
5/5/2023 12:00	1043	1043	1197	1198
5/5/2023 13:00	1043	1043	1198	1200
5/5/2023 14:00	1043	1043	1195	1200
5/5/2023 15:00	1042	1043	1190	1195
5/5/2023 16:00	1042	1042	1190	1190
5/5/2023 17:00	1042	1043	1190	1191
5/5/2023 18:00	1043	1043	1191	1191
5/5/2023 19:00	1043	1043	1191	1192
5/5/2023 20:00	1043	1043	1189	1192
5/5/2023 21:00	1043	1043	1188	1189
5/5/2023 22:00	1043	1043	1187	1188
5/5/2023 23:00	1043	1043	1187	1187
5/6/2023 0:00	1043	1043	1187	1189
5/6/2023 1:00	1043	1043	1186	1188
5/6/2023 2:00	1042	1043	1184	1186
5/6/2023 3:00	1042	1042	1186	1192
5/6/2023 4:00	1042	1042	1192	1196
5/6/2023 5:00	1042	1042	1189	1196
5/6/2023 6:00	1042	1042	1189	1189
5/6/2023 7:00	1042	1042	1189	1189
5/6/2023 8:00	1042	1042	1189	1191
5/6/2023 9:00	1042	1042	1191	1192
5/6/2023 10:00	1042	1043	1192	1194
5/6/2023 11:00	1043	1043	1194	1196
5/6/2023 12:00	1043	1043	1196	1198
5/6/2023 13:00	1043	1043	1198	1200
5/6/2023 14:00	1042	1043	1199	1200
5/6/2023 15:00	1042	1042	1198	1200
5/6/2023 16:00	1042	1042	1196	1198
5/6/2023 17:00	1042	1042	1192	1196
5/6/2023 18:00	1042	1042	1191	1194
5/6/2023 19:00	1042	1042	1194	1199
5/6/2023 20:00	1042	1042	1194	1199
5/6/2023 21:00	1042	1042	1195	1200
5/6/2023 22:00	1042	1043	1195	1198
5/6/2023 23:00	1043	1043	1193	1195
5/7/2023 0:00	1043	1043	1195	1198
5/7/2023 1:00	1043	1043	1194	1196
5/7/2023 2:00	1043	1043	1194	1197
5/7/2023 3:00	1043	1043	1197	1197
5/7/2023 4:00	1043	1045	1197	1199
5/7/2023 5:00	1045	1045	1191	1197
5/7/2023 6:00	1045	1045	1186	1191
5/7/2023 7:00	1045	1045	1179	1186

**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
5/7/2023 8:00	1045	1045	1179	1194
5/7/2023 9:00	1045	1045	1194	1200
5/7/2023 10:00	1045	1045	1200	1200
5/7/2023 11:00	1045	1045	1194	1200
5/7/2023 12:00	1045	1045	1186	1194
5/7/2023 13:00	1045	1045	1185	1187
5/7/2023 14:00	1045	1045	1179	1185
5/7/2023 15:00	1044	1045	1178	1179
5/7/2023 16:00	1044	1044	1179	1183
5/7/2023 17:00	1044	1044	1182	1183
5/7/2023 18:00	1043	1044	1182	1183
5/7/2023 19:00	1043	1043	1182	1184
5/7/2023 20:00	1043	1043	1184	1185
5/7/2023 21:00	1043	1043	1184	1187
5/7/2023 22:00	1043	1043	1187	1188
5/7/2023 23:00	1043	1043	1187	1188
5/8/2023 0:00	1042	1043	1187	1187
5/8/2023 1:00	1042	1042	1187	1189
5/8/2023 2:00	1042	1042	1189	1190
5/8/2023 3:00	1042	1042	1190	1192
5/8/2023 4:00	1042	1042	1190	1193
5/8/2023 5:00	1042	1042	1186	1190
5/8/2023 6:00	1042	1042	1186	1187
5/8/2023 7:00	1042	1042	1187	1188
5/8/2023 8:00	1041	1042	1186	1188
5/8/2023 9:00	1041	1041	1186	1187
5/8/2023 10:00	1041	1041	1187	1188
5/8/2023 11:00	1041	1041	1188	1189
5/8/2023 12:00	1041	1042	1189	1189
5/8/2023 13:00	1042	1042	1186	1189
5/8/2023 14:00	1042	1042	1183	1186
5/8/2023 15:00	1042	1042	1183	1183
5/8/2023 16:00	1041	1042	1183	1189
5/8/2023 17:00	1041	1041	1189	1190
5/8/2023 18:00	1040	1041	1189	1190
5/8/2023 19:00	1040	1040	1187	1189
5/8/2023 20:00	1040	1040	1184	1187
5/8/2023 21:00	1040	1040	1184	1185
5/8/2023 22:00	1040	1040	1185	1187
5/8/2023 23:00	1039	1040	1187	1197
5/9/2023 0:00	1039	1039	1192	1197
5/9/2023 1:00	1039	1039	1189	1192
5/9/2023 2:00	1039	1039	1189	1190
5/9/2023 3:00	1039	1039	1190	1192
5/9/2023 4:00	1039	1039	1190	1192
5/9/2023 5:00	1039	1039	1190	1190
5/9/2023 6:00	1039	1039	1190	1190
5/9/2023 7:00	1039	1039	1189	1190
5/9/2023 8:00	1039	1039	1189	1189
5/9/2023 9:00	1039	1039	1189	1190
5/9/2023 10:00	1039	1039	1189	1190
5/9/2023 11:00	1039	1039	1190	1192
5/9/2023 12:00	1039	1039	1192	1193
5/9/2023 13:00	1039	1039	1193	1193
5/9/2023 14:00	1039	1039	1191	1193
5/9/2023 15:00	1039	1039	1190	1191
5/9/2023 16:00	1039	1040	1190	1190
5/9/2023 17:00	1040	1040	1190	1190
5/9/2023 18:00	1040	1040	1189	1190
5/9/2023 19:00	1040	1040	1188	1189
5/9/2023 20:00	1039	1040	1188	1188
5/9/2023 21:00	1038	1039	1188	1188
5/9/2023 22:00	1038	1038	1188	1189
5/9/2023 23:00	1038	1038	1189	1191
5/10/2023 0:00	1038	1038	1190	1192
5/10/2023 1:00	1038	1038	1186	1192
5/10/2023 2:00	1038	1038	1185	1186
5/10/2023 3:00	1038	1038	1185	1186
5/10/2023 4:00	1038	1038	1186	1187
5/10/2023 5:00	1037	1038	1187	1187
5/10/2023 6:00	1037	1037	1187	1189
5/10/2023 7:00	1037	1037	1189	1189
5/10/2023 8:00	1037	1037	1189	1190
5/10/2023 9:00	1037	1037	1189	1190
5/10/2023 10:00	1037	1037	1186	1189
5/10/2023 11:00	1037	1037	1186	1191
5/10/2023 12:00	1037	1037	1189	1191
5/10/2023 13:00	1037	1038	1191	1193
5/10/2023 14:00	1038	1038	1192	1193
5/10/2023 15:00	1038	1038	1190	1192

**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
5/10/2023 16:00	1038	1038	1189	1190
5/10/2023 17:00	1037	1038	1187	1189
5/10/2023 18:00	1037	1038	1186	1187
5/10/2023 19:00	1038	1038	1186	1193
5/10/2023 20:00	1038	1039	1187	1193
5/10/2023 21:00	1039	1039	1186	1187
5/10/2023 22:00	1039	1039	1187	1191
5/10/2023 23:00	1039	1039	1190	1191
5/11/2023 0:00	1039	1039	1188	1190
5/11/2023 1:00	1039	1039	1188	1188
5/11/2023 2:00	1039	1039	1187	1188
5/11/2023 3:00	1039	1039	1187	1188
5/11/2023 4:00	1039	1039	1188	1194
5/11/2023 5:00	1039	1039	1192	1194
5/11/2023 6:00	1037	1039	1192	1193
5/11/2023 7:00	1037	1037	1192	1193
5/11/2023 8:00	1037	1037	1192	1193
5/11/2023 9:00	1037	1037	1189	1192
5/11/2023 10:00	1037	1038	1184	1189
5/11/2023 11:00	1038	1038	1180	1184
5/11/2023 12:00	1038	1038	1180	1190
5/11/2023 13:00	1038	1038	1190	1196
5/11/2023 14:00	1038	1038	1193	1196
5/11/2023 15:00	1038	1038	1193	1193
5/11/2023 16:00	1038	1038	1192	1193
5/11/2023 17:00	1038	1038	1189	1192
5/11/2023 18:00	1038	1038	1184	1189
5/11/2023 19:00	1038	1038	1182	1184
5/11/2023 20:00	1037	1038	1182	1184
5/11/2023 21:00	1037	1037	1184	1196
5/11/2023 22:00	1036	1037	1189	1196
5/11/2023 23:00	1036	1036	1189	1194
5/12/2023 0:00	1035	1036	1194	1200
5/12/2023 1:00	1035	1035	1194	1200
5/12/2023 2:00	1035	1035	1191	1194
5/12/2023 3:00	1035	1035	1191	1192
5/12/2023 4:00	1035	1035	1192	1195
5/12/2023 5:00	1035	1035	1194	1196
5/12/2023 6:00	1035	1037	1196	1198
5/12/2023 7:00	1037	1037	1198	1200
5/12/2023 8:00	1037	1037	1196	1198
5/12/2023 9:00	1036	1037	1195	1196
5/12/2023 10:00	1036	1036	1190	1195
5/12/2023 11:00	1036	1036	1184	1190
5/12/2023 12:00	1035	1036	1181	1184
5/12/2023 13:00	1035	1035	1180	1181
5/12/2023 14:00	1035	1035	1180	1184
5/12/2023 15:00	1035	1035	1179	1185
5/12/2023 16:00	1035	1035	1179	1184
5/12/2023 17:00	1035	1035	1183	1184
5/12/2023 18:00	1035	1035	1182	1183
5/12/2023 19:00	1034	1035	1183	1184
5/12/2023 20:00	1034	1034	1183	1185
5/12/2023 21:00	1034	1034	1185	1187
5/12/2023 22:00	1033	1034	1187	1187
5/12/2023 23:00	1033	1033	1187	1191
5/13/2023 0:00	1033	1033	1190	1193
5/13/2023 1:00	1033	1033	1192	1193
5/13/2023 2:00	1033	1033	1192	1194
5/13/2023 3:00	1033	1033	1193	1194
5/13/2023 4:00	1033	1033	1193	1195
5/13/2023 5:00	1033	1033	1195	1196
5/13/2023 6:00	1033	1034	1195	1197
5/13/2023 7:00	1034	1035	1196	1199
5/13/2023 8:00	1035	1035	1189	1196
5/13/2023 9:00	1035	1036	1190	1195
5/13/2023 10:00	1036	1036	1194	1195
5/13/2023 11:00	1036	1036	1194	1195
5/13/2023 12:00	1036	1036	1195	1196
5/13/2023 13:00	1036	1037	1196	1196
5/13/2023 14:00	1037	1037	1196	1196
5/13/2023 15:00	1037	1037	1196	1197
5/13/2023 16:00	1037	1038	1197	1197
5/13/2023 17:00	1037	1038	1194	1197
5/13/2023 18:00	1037	1037	1194	1195
5/13/2023 19:00	1037	1038	1194	1194
5/13/2023 20:00	1038	1038	1194	1195
5/13/2023 21:00	1037	1038	1194	1196
5/13/2023 22:00	1037	1037	1195	1196
5/13/2023 23:00	1037	1037	1195	1196

**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
5/14/2023 0:00	1037	1037	1194	1195
5/14/2023 1:00	1037	1037	1195	1197
5/14/2023 2:00	1037	1037	1194	1197
5/14/2023 3:00	1037	1037	1193	1194
5/14/2023 4:00	1037	1037	1192	1193
5/14/2023 5:00	1037	1037	1191	1192
5/14/2023 6:00	1037	1038	1191	1192
5/14/2023 7:00	1038	1038	1192	1195
5/14/2023 8:00	1038	1038	1195	1196
5/14/2023 9:00	1038	1038	1196	1196
5/14/2023 10:00	1038	1039	1195	1196
5/14/2023 11:00	1039	1039	1193	1195
5/14/2023 12:00	1039	1040	1191	1193
5/14/2023 13:00	1040	1040	1191	1191
5/14/2023 14:00	1040	1040	1190	1191
5/14/2023 15:00	1040	1040	1190	1190
5/14/2023 16:00	1040	1040	1189	1190
5/14/2023 17:00	1040	1040	1188	1189
5/14/2023 18:00	1040	1040	1188	1189
5/14/2023 19:00	1040	1040	1186	1188
5/14/2023 20:00	1040	1040	1184	1186
5/14/2023 21:00	1040	1040	1184	1184
5/14/2023 22:00	1040	1041	1183	1184
5/14/2023 23:00	1041	1041	1183	1185
5/15/2023 0:00	1041	1041	1185	1192
5/15/2023 1:00	1041	1041	1192	1194
5/15/2023 2:00	1041	1041	1194	1196
5/15/2023 3:00	1041	1041	1196	1197
5/15/2023 4:00	1041	1041	1197	1199
5/15/2023 5:00	1041	1041	1193	1199
5/15/2023 6:00	1041	1042	1193	1194
5/15/2023 7:00	1041	1042	1194	1196
5/15/2023 8:00	1041	1041	1196	1197
5/15/2023 9:00	1041	1041	1196	1196
5/15/2023 10:00	1041	1041	1194	1196
5/15/2023 11:00	1040	1041	1193	1194
5/15/2023 12:00	1040	1040	1191	1194
5/15/2023 13:00	1040	1040	1189	1191
5/15/2023 14:00	1040	1041	1189	1190
5/15/2023 15:00	1040	1041	1188	1189
5/15/2023 16:00	1040	1040	1188	1188
5/15/2023 17:00	1040	1040	1188	1188
5/15/2023 18:00	1040	1040	1187	1188
5/15/2023 19:00	1040	1041	1187	1187
5/15/2023 20:00	1041	1041	1182	1187
5/15/2023 21:00	1041	1041	1182	1182
5/15/2023 22:00	1041	1041	1182	1184
5/15/2023 23:00	1041	1041	1184	1186
5/16/2023 0:00	1041	1041	1186	1189
5/16/2023 1:00	1041	1041	1189	1193
5/16/2023 2:00	1041	1041	1193	1195
5/16/2023 3:00	1041	1041	1195	1197
5/16/2023 4:00	1041	1041	1197	1200
5/16/2023 5:00	1041	1041	1200	1200
5/16/2023 6:00	1040	1041	1200	1200
5/16/2023 7:00	1040	1040	1200	1200
5/16/2023 8:00	1040	1040	1196	1200
5/16/2023 9:00	1040	1040	1185	1197
5/16/2023 10:00	1040	1040	1181	1185
5/16/2023 11:00	1040	1040	1183	1195
5/16/2023 12:00	1040	1040	1193	1197
5/16/2023 13:00	1040	1040	1190	1193
5/16/2023 14:00	1040	1040	1187	1196
5/16/2023 15:00	1040	1040	1181	1187
5/16/2023 16:00	1040	1040	1181	1182
5/16/2023 17:00	1040	1040	1180	1181
5/16/2023 18:00	1040	1041	1181	1183
5/16/2023 19:00	1041	1041	1183	1184
5/16/2023 20:00	1041	1041	1181	1184
5/16/2023 21:00	1041	1041	1181	1182
5/16/2023 22:00	1041	1041	1182	1182
5/16/2023 23:00	1041	1041	1182	1183
5/17/2023 0:00	1041	1041	1183	1184
5/17/2023 1:00	1041	1041	1184	1185
5/17/2023 2:00	1041	1041	1184	1185
5/17/2023 3:00	1041	1041	1180	1184
5/17/2023 4:00	1041	1041	1178	1180
5/17/2023 5:00	1041	1041	1179	1183
5/17/2023 6:00	1041	1041	1183	1185
5/17/2023 7:00	1041	1041	1185	1189

**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
5/17/2023 8:00	1041	1041	1189	1193
5/17/2023 9:00	1041	1041	1184	1193
5/17/2023 10:00	1041	1041	1184	1186
5/17/2023 11:00	1040	1041	1186	1186
5/17/2023 12:00	1040	1040	1183	1186
5/17/2023 13:00	1040	1040	1178	1183
5/17/2023 14:00	1040	1040	1178	1180
5/17/2023 15:00	1040	1040	1180	1184
5/17/2023 16:00	1040	1040	1184	1191
5/17/2023 17:00	1040	1040	1191	1194
5/17/2023 18:00	1040	1040	1194	1195
5/17/2023 19:00	1040	1040	1193	1195
5/17/2023 20:00	1040	1040	1188	1193
5/17/2023 21:00	1040	1040	1187	1189
5/17/2023 22:00	1040	1040	1189	1195
5/17/2023 23:00	1040	1040	1195	1196
5/18/2023 0:00	1040	1040	1195	1197
5/18/2023 1:00	1040	1040	1197	1199
5/18/2023 2:00	1040	1040	1199	1200
5/18/2023 3:00	1040	1040	1200	1200
5/18/2023 4:00	1040	1040	1200	1200
5/18/2023 5:00	1040	1040	1200	1200
5/18/2023 6:00	1040	1040	1199	1200
5/18/2023 7:00	1040	1040	1188	1199
5/18/2023 8:00	1040	1040	1187	1188
5/18/2023 9:00	1040	1040	1187	1188
5/18/2023 10:00	1040	1040	1188	1188
5/18/2023 11:00	1040	1040	1188	1188
5/18/2023 12:00	1040	1040	1185	1188
5/18/2023 13:00	1040	1040	1180	1185
5/18/2023 14:00	1040	1040	1180	1182
5/18/2023 15:00	1040	1040	1182	1188
5/18/2023 16:00	1039	1040	1188	1190
5/18/2023 17:00	1039	1039	1189	1190
5/18/2023 18:00	1039	1039	1189	1190
5/18/2023 19:00	1039	1039	1188	1190
5/18/2023 20:00	1039	1040	1187	1188
5/18/2023 21:00	1040	1040	1187	1188
5/18/2023 22:00	1040	1040	1188	1191
5/18/2023 23:00	1039	1040	1186	1191
5/19/2023 0:00	1039	1039	1185	1188
5/19/2023 1:00	1039	1039	1184	1185
5/19/2023 2:00	1039	1039	1185	1187
5/19/2023 3:00	1039	1039	1186	1191
5/19/2023 4:00	1039	1039	1191	1195
5/19/2023 5:00	1039	1039	1188	1193
5/19/2023 6:00	1039	1039	1188	1190
5/19/2023 7:00	1039	1039	1190	1193
5/19/2023 8:00	1039	1039	1193	1197
5/19/2023 9:00	1039	1039	1196	1197
5/19/2023 10:00	1039	1039	1196	1197
5/19/2023 11:00	1039	1039	1194	1196
5/19/2023 12:00	1039	1039	1194	1195
5/19/2023 13:00	1039	1039	1194	1199
5/19/2023 14:00	1038	1039	1199	1200
5/19/2023 15:00	1038	1038	1196	1199
5/19/2023 16:00	1038	1038	1193	1196
5/19/2023 17:00	1038	1038	1192	1194
5/19/2023 18:00	1038	1038	1189	1192
5/19/2023 19:00	1038	1038	1189	1191
5/19/2023 20:00	1037	1038	1191	1192
5/19/2023 21:00	1037	1037	1192	1194
5/19/2023 22:00	1037	1037	1194	1196
5/19/2023 23:00	1037	1037	1196	1200
5/20/2023 0:00	1037	1037	1200	1200
5/20/2023 1:00	1037	1037	1198	1200
5/20/2023 2:00	1037	1037	1187	1198
5/20/2023 3:00	1037	1037	1184	1187
5/20/2023 4:00	1037	1037	1185	1189
5/20/2023 5:00	1037	1037	1188	1192
5/20/2023 6:00	1037	1037	1191	1194
5/20/2023 7:00	1037	1038	1194	1197
5/20/2023 8:00	1038	1038	1197	1199
5/20/2023 9:00	1038	1038	1196	1197
5/20/2023 10:00	1038	1038	1196	1199
5/20/2023 11:00	1038	1039	1198	1199
5/20/2023 12:00	1039	1039	1193	1198
5/20/2023 13:00	1039	1039	1192	1193
5/20/2023 14:00	1039	1040	1189	1192
5/20/2023 15:00	1040	1040	1186	1189

**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
5/20/2023 16:00	1040	1041	1184	1186
5/20/2023 17:00	1041	1041	1185	1187
5/20/2023 18:00	1041	1041	1185	1186
5/20/2023 19:00	1041	1041	1186	1186
5/20/2023 20:00	1041	1041	1186	1187
5/20/2023 21:00	1041	1042	1187	1189
5/20/2023 22:00	1042	1042	1189	1193
5/20/2023 23:00	1042	1042	1191	1193
5/21/2023 0:00	1042	1042	1191	1194
5/21/2023 1:00	1042	1042	1194	1194
5/21/2023 2:00	1042	1042	1194	1195
5/21/2023 3:00	1042	1042	1194	1196
5/21/2023 4:00	1042	1042	1193	1195
5/21/2023 5:00	1042	1043	1193	1195
5/21/2023 6:00	1043	1043	1195	1198
5/21/2023 7:00	1043	1043	1198	1200
5/21/2023 8:00	1043	1043	1200	1200
5/21/2023 9:00	1043	1043	1199	1200
5/21/2023 10:00	1043	1043	1197	1199
5/21/2023 11:00	1042	1043	1193	1197
5/21/2023 12:00	1042	1042	1191	1193
5/21/2023 13:00	1041	1042	1191	1192
5/21/2023 14:00	1041	1041	1192	1192
5/21/2023 15:00	1040	1041	1192	1192
5/21/2023 16:00	1039	1040	1192	1197
5/21/2023 17:00	1038	1039	1196	1197
5/21/2023 18:00	1037	1038	1192	1196
5/21/2023 19:00	1037	1037	1190	1192
5/21/2023 20:00	1037	1037	1189	1192
5/21/2023 21:00	1037	1037	1192	1197
5/21/2023 22:00	1037	1037	1196	1197
5/21/2023 23:00	1037	1037	1196	1197
5/22/2023 0:00	1037	1037	1197	1200
5/22/2023 1:00	1037	1037	1190	1200
5/22/2023 2:00	1037	1037	1190	1192
5/22/2023 3:00	1037	1037	1192	1195
5/22/2023 4:00	1037	1037	1195	1199
5/22/2023 5:00	1037	1038	1199	1200
5/22/2023 6:00	1037	1038	1195	1200
5/22/2023 7:00	1037	1037	1191	1195
5/22/2023 8:00	1037	1037	1190	1191
5/22/2023 9:00	1036	1037	1187	1190
5/22/2023 10:00	1036	1036	1175	1187
5/22/2023 11:00	1036	1036	1171	1175
5/22/2023 12:00	1036	1036	1173	1175
5/22/2023 13:00	1036	1037	1173	1176
5/22/2023 14:00	1037	1038	1171	1173
5/22/2023 15:00	1038	1038	1171	1182
5/22/2023 16:00	1038	1039	1182	1193
5/22/2023 17:00	1039	1040	1193	1200
5/22/2023 18:00	1040	1040	1200	1200
5/22/2023 19:00	1040	1041	1200	1200
5/22/2023 20:00	1041	1041	1190	1200
5/22/2023 21:00	1041	1041	1188	1190
5/22/2023 22:00	1041	1041	1188	1189
5/22/2023 23:00	1041	1041	1189	1192
5/23/2023 0:00	1041	1041	1192	1194
5/23/2023 1:00	1041	1041	1193	1195
5/23/2023 2:00	1041	1041	1195	1196
5/23/2023 3:00	1041	1041	1196	1200
5/23/2023 4:00	1041	1041	1198	1200
5/23/2023 5:00	1038	1041	1198	1199
5/23/2023 6:00	1038	1038	1199	1200
5/23/2023 7:00	1038	1038	1200	1200
5/23/2023 8:00	1038	1038	1200	1200
5/23/2023 9:00	1037	1038	1200	1200
5/23/2023 10:00	1037	1038	970	1200
5/23/2023 11:00	1037	1038	800	970
5/23/2023 12:00	1037	1038	800	1193
5/23/2023 13:00	1038	1038	1192	1193
5/23/2023 14:00	1038	1038	1192	1195
5/23/2023 15:00	1038	1038	1146	1196
5/23/2023 16:00	1037	1038	1146	1200
5/23/2023 17:00	1037	1037	1200	1200
5/23/2023 18:00	1037	1037	1200	1200
5/23/2023 19:00	1036	1037	1200	1200
5/23/2023 20:00	1035	1036	1200	1200
5/23/2023 21:00	1034	1035	1200	1200
5/23/2023 22:00	1034	1034	1200	1200
5/23/2023 23:00	1034	1035	1200	1200

**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
5/24/2023 0:00	1035	1036	1200	1200
5/24/2023 1:00	1036	1036	1200	1200
5/24/2023 2:00	1036	1036	1200	1200
5/24/2023 3:00	1036	1036	1200	1200
5/24/2023 4:00	1036	1036	1200	1200
5/24/2023 5:00	1035	1036	1200	1200
5/24/2023 6:00	1034	1035	1200	1200
5/24/2023 7:00	1034	1034	1200	1200
5/24/2023 8:00	1034	1034	1200	1200
5/24/2023 9:00	1034	1034	1200	1200
5/24/2023 10:00	1034	1034	1185	1200
5/24/2023 11:00	1034	1034	1185	1190
5/24/2023 12:00	1034	1034	1190	1193
5/24/2023 13:00	1033	1034	1192	1193
5/24/2023 14:00	1032	1033	1190	1192
5/24/2023 15:00	1032	1032	1190	1193
5/24/2023 16:00	1032	1032	1193	1194
5/24/2023 17:00	1032	1033	1192	1194
5/24/2023 18:00	1033	1034	1187	1192
5/24/2023 19:00	1034	1034	1186	1188
5/24/2023 20:00	1034	1034	1188	1191
5/24/2023 21:00	1034	1034	1191	1193
5/24/2023 22:00	1034	1034	1193	1194
5/24/2023 23:00	1034	1034	1194	1195
5/25/2023 0:00	1034	1035	1194	1195
5/25/2023 1:00	1035	1035	1193	1197
5/25/2023 2:00	1035	1035	1193	1194
5/25/2023 3:00	1035	1035	1194	1199
5/25/2023 4:00	1035	1035	1199	1200
5/25/2023 5:00	1035	1035	1196	1200
5/25/2023 6:00	1035	1037	1196	1198
5/25/2023 7:00	1037	1037	1198	1198
5/25/2023 8:00	1037	1038	1198	1199
5/25/2023 9:00	1038	1038	1199	1200
5/25/2023 10:00	1038	1039	1198	1200
5/25/2023 11:00	1039	1039	1196	1198
5/25/2023 12:00	1039	1039	1193	1196
5/25/2023 13:00	1039	1039	1192	1193
5/25/2023 14:00	1039	1040	1192	1194
5/25/2023 15:00	1040	1040	1194	1194
5/25/2023 16:00	1040	1040	1193	1194
5/25/2023 17:00	1040	1041	1191	1193
5/25/2023 18:00	1041	1041	1191	1192
5/25/2023 19:00	1041	1041	1192	1195
5/25/2023 20:00	1041	1041	1195	1195
5/25/2023 21:00	1041	1041	1190	1195
5/25/2023 22:00	1041	1042	1190	1190
5/25/2023 23:00	1042	1042	1190	1192
5/26/2023 0:00	1042	1042	1191	1195
5/26/2023 1:00	1042	1042	1195	1197
5/26/2023 2:00	1042	1042	1193	1197
5/26/2023 3:00	1042	1042	1193	1195
5/26/2023 4:00	1042	1042	1195	1200
5/26/2023 5:00	1042	1042	1199	1200
5/26/2023 6:00	1042	1042	1198	1199
5/26/2023 7:00	1042	1043	1196	1198
5/26/2023 8:00	1043	1043	1194	1196
5/26/2023 9:00	1042	1043	1189	1194
5/26/2023 10:00	1042	1042	1188	1189
5/26/2023 11:00	1041	1042	1188	1189
5/26/2023 12:00	1041	1041	1189	1190
5/26/2023 13:00	1041	1041	1186	1189
5/26/2023 14:00	1040	1041	1186	1188
5/26/2023 15:00	1040	1040	1188	1193
5/26/2023 16:00	1040	1040	1193	1195
5/26/2023 17:00	1040	1040	1189	1195
5/26/2023 18:00	1040	1040	1189	1189
5/26/2023 19:00	1040	1040	1189	1190
5/26/2023 20:00	1040	1040	1190	1191
5/26/2023 21:00	1040	1040	1191	1192
5/26/2023 22:00	1039	1040	1192	1197
5/26/2023 23:00	1037	1039	1197	1200
5/27/2023 0:00	1036	1037	1194	1200
5/27/2023 1:00	1036	1036	1191	1194
5/27/2023 2:00	1036	1036	1191	1193
5/27/2023 3:00	1036	1036	1193	1199
5/27/2023 4:00	1036	1036	1199	1200
5/27/2023 5:00	1036	1036	1200	1200
5/27/2023 6:00	1036	1036	1200	1200
5/27/2023 7:00	1036	1039	1200	1200

**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
5/27/2023 8:00	1039	1039	1197	1200
5/27/2023 9:00	1039	1039	1192	1197
5/27/2023 10:00	1039	1039	1190	1192
5/27/2023 11:00	1039	1039	1187	1190
5/27/2023 12:00	1039	1039	1188	1188
5/27/2023 13:00	1038	1039	1184	1188
5/27/2023 14:00	1038	1038	1184	1188
5/27/2023 15:00	1038	1038	1188	1189
5/27/2023 16:00	1038	1038	1189	1193
5/27/2023 17:00	1038	1038	1193	1195
5/27/2023 18:00	1038	1038	1189	1193
5/27/2023 19:00	1038	1038	1188	1189
5/27/2023 20:00	1038	1038	1186	1188
5/27/2023 21:00	1038	1038	1187	1187
5/27/2023 22:00	1038	1038	1187	1189
5/27/2023 23:00	1038	1038	1188	1189
5/28/2023 0:00	1038	1038	1189	1194
5/28/2023 1:00	1038	1038	1193	1199
5/28/2023 2:00	1038	1038	1199	1200
5/28/2023 3:00	1038	1038	1200	1200
5/28/2023 4:00	1038	1038	1188	1200
5/28/2023 5:00	1038	1038	1185	1188
5/28/2023 6:00	1038	1038	1184	1185
5/28/2023 7:00	1038	1038	1178	1185
5/28/2023 8:00	1038	1038	1177	1178
5/28/2023 9:00	1038	1038	1178	1184
5/28/2023 10:00	1038	1039	1184	1184
5/28/2023 11:00	1039	1039	1184	1185
5/28/2023 12:00	1039	1039	1183	1184
5/28/2023 13:00	1039	1039	1182	1184
5/28/2023 14:00	1039	1039	1181	1183
5/28/2023 15:00	1039	1039	1182	1184
5/28/2023 16:00	1039	1039	1184	1185
5/28/2023 17:00	1039	1039	1185	1187
5/28/2023 18:00	1039	1039	1186	1187
5/28/2023 19:00	1039	1039	1184	1186
5/28/2023 20:00	1039	1039	1184	1185
5/28/2023 21:00	1039	1039	1184	1185
5/28/2023 22:00	1039	1039	1185	1185
5/28/2023 23:00	1039	1039	1185	1189
5/29/2023 0:00	1039	1039	1189	1192
5/29/2023 1:00	1039	1039	1192	1195
5/29/2023 2:00	1039	1039	1195	1200
5/29/2023 3:00	1039	1039	1200	1200
5/29/2023 4:00	1039	1039	1193	1200
5/29/2023 5:00	1039	1039	1191	1193
5/29/2023 6:00	1039	1040	1191	1192
5/29/2023 7:00	1040	1040	1189	1191
5/29/2023 8:00	1040	1040	1189	1190
5/29/2023 9:00	1040	1040	1190	1193
5/29/2023 10:00	1040	1040	1192	1193
5/29/2023 11:00	1040	1040	1189	1192
5/29/2023 12:00	1040	1040	1186	1189
5/29/2023 13:00	1040	1040	1186	1190
5/29/2023 14:00	1040	1040	1190	1194
5/29/2023 15:00	1040	1041	1194	1195
5/29/2023 16:00	1041	1041	1190	1195
5/29/2023 17:00	1041	1041	1184	1190
5/29/2023 18:00	1041	1041	1184	1185
5/29/2023 19:00	1041	1041	1182	1184
5/29/2023 20:00	1041	1042	1182	1183
5/29/2023 21:00	1042	1042	1182	1185
5/29/2023 22:00	1042	1042	1185	1188
5/29/2023 23:00	1042	1042	1188	1191
5/30/2023 0:00	1042	1042	1191	1193
5/30/2023 1:00	1042	1042	1193	1195
5/30/2023 2:00	1042	1042	1195	1197
5/30/2023 3:00	1042	1042	1190	1197
5/30/2023 4:00	1042	1042	1184	1190
5/30/2023 5:00	1042	1042	1184	1186
5/30/2023 6:00	1042	1043	1186	1188
5/30/2023 7:00	1043	1043	1188	1188
5/30/2023 8:00	1043	1043	1187	1188
5/30/2023 9:00	1043	1043	1188	1188
5/30/2023 10:00	1042	1043	1186	1188
5/30/2023 11:00	1042	1042	1184	1186
5/30/2023 12:00	1042	1042	1180	1184
5/30/2023 13:00	1041	1042	1179	1180
5/30/2023 14:00	1041	1041	1179	1183
5/30/2023 15:00	1041	1041	1183	1183

**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
5/30/2023 16:00	1040	1041	1183	1184
5/30/2023 17:00	1040	1040	1182	1183
5/30/2023 18:00	1040	1040	1181	1183
5/30/2023 19:00	1040	1040	1182	1184
5/30/2023 20:00	1040	1040	1184	1186
5/30/2023 21:00	1040	1040	1186	1186
5/30/2023 22:00	1039	1040	1185	1186
5/30/2023 23:00	1039	1039	1185	1186
5/31/2023 0:00	1039	1039	1186	1187
5/31/2023 1:00	1039	1039	1187	1188
5/31/2023 2:00	1039	1039	1188	1189
5/31/2023 3:00	1039	1039	1186	1188
5/31/2023 4:00	1039	1039	1186	1188
5/31/2023 5:00	1039	1039	1187	1192
5/31/2023 6:00	1039	1040	1192	1193
5/31/2023 7:00	1040	1040	1187	1192
5/31/2023 8:00	1040	1040	1184	1187
5/31/2023 9:00	1040	1041	1185	1186
5/31/2023 10:00	1041	1041	1175	1186
5/31/2023 11:00	1041	1041	1176	1180
5/31/2023 12:00	1041	1041	1180	1185
5/31/2023 13:00	1040	1041	1185	1189
5/31/2023 14:00	1040	1040	1189	1191
5/31/2023 15:00	1039	1040	1189	1190
5/31/2023 16:00	1039	1040	1189	1189
5/31/2023 17:00	1040	1040	1189	1190
5/31/2023 18:00	1040	1041	1189	1190
5/31/2023 19:00	1041	1042	1188	1189
5/31/2023 20:00	1042	1042	1184	1188
5/31/2023 21:00	1042	1042	1184	1185
5/31/2023 22:00	1042	1042	1184	1185
5/31/2023 23:00	1042	1042	1184	1185