



825 Rice Street  
Saint Paul, MN 55117

December 29, 2022

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 November 2022 as required by N.D. PU-22-14.

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

Sincerely,

A handwritten signature in blue ink that reads 'Christopher Akins'.

Christopher Akins  
Manager Gas Standards  
Xcel Energy

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

| Date/Time       | Viking Gas Transmission<br>( Fargo ) |         | Williston Basin Interstate<br>( Mapleton ) |         |
|-----------------|--------------------------------------|---------|--|---------|
|                 | Min BTU                              | Max BTU | Min BTU                                    | Max BTU |
| 11/1/2022 0:00  | 1041                                 | 1041    | 1197                                       | 1200    |
| 11/1/2022 1:00  | 1041                                 | 1041    | 1193                                       | 1200    |
| 11/1/2022 2:00  | 1041                                 | 1041    | 1188                                       | 1193    |
| 11/1/2022 3:00  | 1041                                 | 1043    | 1185                                       | 1188    |
| 11/1/2022 4:00  | 1043                                 | 1045    | 1184                                       | 1186    |
| 11/1/2022 5:00  | 1045                                 | 1045    | 1184                                       | 1190    |
| 11/1/2022 6:00  | 1042                                 | 1045    | 1190                                       | 1193    |
| 11/1/2022 7:00  | 1040                                 | 1042    | 1193                                       | 1195    |
| 11/1/2022 8:00  | 1040                                 | 1040    | 1193                                       | 1195    |
| 11/1/2022 9:00  | 1040                                 | 1040    | 1193                                       | 1194    |
| 11/1/2022 10:00 | 1040                                 | 1040    | 1192                                       | 1194    |
| 11/1/2022 11:00 | 1040                                 | 1040    | 1189                                       | 1194    |
| 11/1/2022 12:00 | 1040                                 | 1040    | 1187                                       | 1189    |
| 11/1/2022 13:00 | 1040                                 | 1040    | 1186                                       | 1188    |
| 11/1/2022 14:00 | 1039                                 | 1040    | 1186                                       | 1186    |
| 11/1/2022 15:00 | 1039                                 | 1039    | 1183                                       | 1186    |
| 11/1/2022 16:00 | 1039                                 | 1039    | 1183                                       | 1185    |
| 11/1/2022 17:00 | 1039                                 | 1039    | 1185                                       | 1187    |
| 11/1/2022 18:00 | 1039                                 | 1039    | 1187                                       | 1189    |
| 11/1/2022 19:00 | 1039                                 | 1040    | 1189                                       | 1192    |
| 11/1/2022 20:00 | 1040                                 | 1040    | 1192                                       | 1200    |
| 11/1/2022 21:00 | 1040                                 | 1040    | 1200                                       | 1200    |
| 11/1/2022 22:00 | 1040                                 | 1040    | 1200                                       | 1200    |
| 11/1/2022 23:00 | 1040                                 | 1040    | 1200                                       | 1200    |
| 11/2/2022 0:00  | 1040                                 | 1040    | 1200                                       | 1200    |
| 11/2/2022 1:00  | 1039                                 | 1040    | 1200                                       | 1200    |
| 11/2/2022 2:00  | 1039                                 | 1039    | 1200                                       | 1200    |
| 11/2/2022 3:00  | 1039                                 | 1039    | 1195                                       | 1200    |
| 11/2/2022 4:00  | 1038                                 | 1039    | 1194                                       | 1195    |
| 11/2/2022 5:00  | 1038                                 | 1038    | 1193                                       | 1194    |
| 11/2/2022 6:00  | 1038                                 | 1038    | 1193                                       | 1193    |
| 11/2/2022 7:00  | 1038                                 | 1039    | 1192                                       | 1193    |
| 11/2/2022 8:00  | 1039                                 | 1039    | 1190                                       | 1192    |
| 11/2/2022 9:00  | 1039                                 | 1039    | 1190                                       | 1197    |
| 11/2/2022 10:00 | 1039                                 | 1040    | 1188                                       | 1197    |
| 11/2/2022 11:00 | 1039                                 | 1040    | 1185                                       | 1188    |
| 11/2/2022 12:00 | 1039                                 | 1039    | 1185                                       | 1185    |
| 11/2/2022 13:00 | 1039                                 | 1039    | 1185                                       | 1185    |
| 11/2/2022 14:00 | 1039                                 | 1040    | 1185                                       | 1185    |
| 11/2/2022 15:00 | 1039                                 | 1040    | 1185                                       | 1191    |
| 11/2/2022 16:00 | 1039                                 | 1039    | 1188                                       | 1190    |
| 11/2/2022 17:00 | 1039                                 | 1039    | 1188                                       | 1191    |
| 11/2/2022 18:00 | 1039                                 | 1040    | 1191                                       | 1195    |
| 11/2/2022 19:00 | 1040                                 | 1040    | 1195                                       | 1197    |
| 11/2/2022 20:00 | 1040                                 | 1040    | 1197                                       | 1200    |
| 11/2/2022 21:00 | 1040                                 | 1040    | 1199                                       | 1200    |
| 11/2/2022 22:00 | 1040                                 | 1040    | 1199                                       | 1200    |
| 11/2/2022 23:00 | 1040                                 | 1040    | 1200                                       | 1200    |
| 11/3/2022 0:00  | 1040                                 | 1040    | 1195                                       | 1200    |
| 11/3/2022 1:00  | 1040                                 | 1040    | 1195                                       | 1196    |
| 11/3/2022 2:00  | 1040                                 | 1040    | 1193                                       | 1196    |
| 11/3/2022 3:00  | 1040                                 | 1041    | 1192                                       | 1193    |
| 11/3/2022 4:00  | 1040                                 | 1041    | 1192                                       | 1195    |
| 11/3/2022 5:00  | 1040                                 | 1040    | 1192                                       | 1195    |
| 11/3/2022 6:00  | 1040                                 | 1040    | 1191                                       | 1192    |
| 11/3/2022 7:00  | 1040                                 | 1040    | 1191                                       | 1192    |
| 11/3/2022 8:00  | 1040                                 | 1040    | 1192                                       | 1194    |
| 11/3/2022 9:00  | 1040                                 | 1040    | 1194                                       | 1195    |
| 11/3/2022 10:00 | 1040                                 | 1040    | 1194                                       | 1195    |
| 11/3/2022 11:00 | 1040                                 | 1040    | 1192                                       | 1195    |
| 11/3/2022 12:00 | 1039                                 | 1040    | 1184                                       | 1195    |
| 11/3/2022 13:00 | 1039                                 | 1040    | 1183                                       | 1188    |
| 11/3/2022 14:00 | 1040                                 | 1040    | 1188                                       | 1197    |
| 11/3/2022 15:00 | 1040                                 | 1040    | 1192                                       | 1195    |
| 11/3/2022 16:00 | 1040                                 | 1040    | 1191                                       | 1192    |
| 11/3/2022 17:00 | 1040                                 | 1040    | 1192                                       | 1195    |
| 11/3/2022 18:00 | 1040                                 | 1041    | 1194                                       | 1198    |
| 11/3/2022 19:00 | 1041                                 | 1041    | 1194                                       | 1197    |
| 11/3/2022 20:00 | 1041                                 | 1041    | 1197                                       | 1200    |
| 11/3/2022 21:00 | 1041                                 | 1041    | 1200                                       | 1200    |
| 11/3/2022 22:00 | 1041                                 | 1042    | 1200                                       | 1200    |
| 11/3/2022 23:00 | 1042                                 | 1042    | 1199                                       | 1200    |
| 11/4/2022 0:00  | 1041                                 | 1042    | 1198                                       | 1200    |

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

| Date/Time       | Viking Gas Transmission<br>( Fargo ) |         | Williston Basin Interstate<br>( Mapleton ) |         |
|-----------------|--------------------------------------|---------|--|---------|
|                 | Min BTU                              | Max BTU | Min BTU                                    | Max BTU |
| 11/4/2022 1:00  | 1040                                 | 1041    | 1192                                       | 1198    |
| 11/4/2022 2:00  | 1040                                 | 1040    | 1189                                       | 1193    |
| 11/4/2022 3:00  | 1039                                 | 1040    | 1188                                       | 1189    |
| 11/4/2022 4:00  | 1038                                 | 1039    | 1187                                       | 1189    |
| 11/4/2022 5:00  | 1038                                 | 1039    | 1186                                       | 1188    |
| 11/4/2022 6:00  | 1039                                 | 1039    | 1188                                       | 1191    |
| 11/4/2022 7:00  | 1039                                 | 1039    | 1191                                       | 1194    |
| 11/4/2022 8:00  | 1039                                 | 1039    | 1191                                       | 1194    |
| 11/4/2022 9:00  | 1038                                 | 1039    | 1191                                       | 1194    |
| 11/4/2022 10:00 | 1038                                 | 1038    | 1194                                       | 1196    |
| 11/4/2022 11:00 | 1038                                 | 1038    | 1191                                       | 1196    |
| 11/4/2022 12:00 | 1038                                 | 1039    | 1191                                       | 1192    |
| 11/4/2022 13:00 | 1039                                 | 1039    | 1192                                       | 1192    |
| 11/4/2022 14:00 | 1039                                 | 1040    | 1192                                       | 1192    |
| 11/4/2022 15:00 | 1039                                 | 1040    | 1192                                       | 1193    |
| 11/4/2022 16:00 | 1038                                 | 1039    | 1192                                       | 1193    |
| 11/4/2022 17:00 | 1038                                 | 1038    | 1192                                       | 1193    |
| 11/4/2022 18:00 | 1038                                 | 1038    | 1192                                       | 1193    |
| 11/4/2022 19:00 | 1037                                 | 1038    | 1192                                       | 1192    |
| 11/4/2022 20:00 | 1037                                 | 1037    | 1192                                       | 1194    |
| 11/4/2022 21:00 | 1036                                 | 1037    | 1192                                       | 1194    |
| 11/4/2022 22:00 | 1036                                 | 1036    | 1193                                       | 1195    |
| 11/4/2022 23:00 | 1035                                 | 1036    | 1195                                       | 1196    |
| 11/5/2022 0:00  | 1035                                 | 1036    | 1194                                       | 1196    |
| 11/5/2022 1:00  | 1035                                 | 1036    | 1192                                       | 1194    |
| 11/5/2022 2:00  | 1035                                 | 1035    | 1189                                       | 1192    |
| 11/5/2022 3:00  | 1035                                 | 1036    | 1187                                       | 1189    |
| 11/5/2022 4:00  | 1035                                 | 1036    | 1189                                       | 1191    |
| 11/5/2022 5:00  | 1035                                 | 1035    | 1187                                       | 1191    |
| 11/5/2022 6:00  | 1034                                 | 1035    | 1187                                       | 1193    |
| 11/5/2022 7:00  | 1034                                 | 1034    | 1192                                       | 1193    |
| 11/5/2022 8:00  | 1034                                 | 1036    | 1191                                       | 1194    |
| 11/5/2022 9:00  | 1036                                 | 1036    | 1194                                       | 1199    |
| 11/5/2022 10:00 | 1036                                 | 1037    | 1195                                       | 1198    |
| 11/5/2022 11:00 | 1037                                 | 1037    | 1194                                       | 1195    |
| 11/5/2022 12:00 | 1037                                 | 1037    | 1195                                       | 1199    |
| 11/5/2022 13:00 | 1037                                 | 1037    | 1199                                       | 1200    |
| 11/5/2022 14:00 | 1036                                 | 1037    | 1199                                       | 1200    |
| 11/5/2022 15:00 | 1036                                 | 1037    | 1199                                       | 1200    |
| 11/5/2022 16:00 | 1037                                 | 1039    | 1200                                       | 1200    |
| 11/5/2022 17:00 | 1039                                 | 1039    | 1200                                       | 1200    |
| 11/5/2022 18:00 | 1038                                 | 1039    | 1200                                       | 1200    |
| 11/5/2022 19:00 | 1038                                 | 1038    | 1199                                       | 1200    |
| 11/5/2022 20:00 | 1038                                 | 1038    | 1198                                       | 1200    |
| 11/5/2022 21:00 | 1038                                 | 1038    | 1200                                       | 1200    |
| 11/5/2022 22:00 | 1038                                 | 1038    | 1200                                       | 1200    |
| 11/5/2022 23:00 | 1038                                 | 1039    | 1200                                       | 1200    |
| 11/6/2022 0:00  | 1039                                 | 1039    | 1199                                       | 1200    |
| 11/6/2022 1:00  | 1039                                 | 1040    | 1194                                       | 1200    |
| 11/6/2022 2:00  | 1040                                 | 1041    | 1185                                       | 1194    |
| 11/6/2022 3:00  | 1041                                 | 1041    | 1185                                       | 1187    |
| 11/6/2022 4:00  | 1041                                 | 1042    | 1187                                       | 1189    |
| 11/6/2022 5:00  | 1042                                 | 1042    | 1186                                       | 1189    |
| 11/6/2022 6:00  | 1042                                 | 1042    | 1186                                       | 1187    |
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| 11/6/2022 9:00  | 1040                                 | 1040    | 1188                                       | 1189    |
| 11/6/2022 10:00 | 1040                                 | 1040    | 1187                                       | 1191    |
| 11/6/2022 11:00 | 1040                                 | 1040    | 1191                                       | 1192    |
| 11/6/2022 12:00 | 1040                                 | 1040    | 1191                                       | 1195    |
| 11/6/2022 13:00 | 1040                                 | 1040    | 1195                                       | 1195    |
| 11/6/2022 14:00 | 1040                                 | 1040    | 1195                                       | 1198    |
| 11/6/2022 15:00 | 1040                                 | 1040    | 1198                                       | 1200    |
| 11/6/2022 16:00 | 1040                                 | 1041    | 1200                                       | 1200    |
| 11/6/2022 17:00 | 1041                                 | 1041    | 1199                                       | 1200    |
| 11/6/2022 18:00 | 1041                                 | 1041    | 1198                                       | 1199    |
| 11/6/2022 19:00 | 1041                                 | 1041    | 1196                                       | 1198    |
| 11/6/2022 20:00 | 1041                                 | 1041    | 1196                                       | 1200    |
| 11/6/2022 21:00 | 1041                                 | 1041    | 1199                                       | 1200    |
| 11/6/2022 22:00 | 1041                                 | 1041    | 1198                                       | 1200    |
| 11/6/2022 23:00 | 1041                                 | 1041    | 1199                                       | 1200    |
| 11/7/2022 0:00  | 1041                                 | 1041    | 1198                                       | 1200    |
| 11/7/2022 1:00  | 1040                                 | 1041    | 1194                                       | 1198    |
| 11/7/2022 2:00  | 1040                                 | 1040    | 1194                                       | 1199    |
| 11/7/2022 3:00  | 1039                                 | 1040    | 1196                                       | 1199    |
| 11/7/2022 4:00  | 1039                                 | 1039    | 1192                                       | 1196    |
| 11/7/2022 5:00  | 1039                                 | 1039    | 1190                                       | 1192    |
| 11/7/2022 6:00  | 1039                                 | 1040    | 1191                                       | 1195    |
| 11/7/2022 7:00  | 1040                                 | 1040    | 1194                                       | 1196    |

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

| Date/Time        | Viking Gas Transmission<br>( Fargo ) |         | Williston Basin Interstate<br>( Mapleton ) |         |
|------------------|--------------------------------------|---------|--|---------|
|                  | Min BTU                              | Max BTU | Min BTU                                    | Max BTU |
| 11/7/2022 8:00   | 1039                                 | 1040    | 1194                                       | 1198    |
| 11/7/2022 9:00   | 1039                                 | 1039    | 1197                                       | 1199    |
| 11/7/2022 10:00  | 1039                                 | 1040    | 1190                                       | 1199    |
| 11/7/2022 11:00  | 1040                                 | 1040    | 1191                                       | 1195    |
| 11/7/2022 12:00  | 1040                                 | 1040    | 1186                                       | 1194    |
| 11/7/2022 13:00  | 1040                                 | 1041    | 1186                                       | 1188    |
| 11/7/2022 14:00  | 1041                                 | 1041    | 1187                                       | 1188    |
| 11/7/2022 15:00  | 1041                                 | 1041    | 1187                                       | 1188    |
| 11/7/2022 16:00  | 1041                                 | 1041    | 1188                                       | 1190    |
| 11/7/2022 17:00  | 1041                                 | 1041    | 1190                                       | 1191    |
| 11/7/2022 18:00  | 1041                                 | 1041    | 1190                                       | 1191    |
| 11/7/2022 19:00  | 1041                                 | 1041    | 1190                                       | 1192    |
| 11/7/2022 20:00  | 1041                                 | 1041    | 1192                                       | 1195    |
| 11/7/2022 21:00  | 1041                                 | 1042    | 1195                                       | 1196    |
| 11/7/2022 22:00  | 1042                                 | 1043    | 1194                                       | 1195    |
| 11/7/2022 23:00  | 1042                                 | 1043    | 1194                                       | 1194    |
| 11/8/2022 0:00   | 1042                                 | 1042    | 1192                                       | 1194    |
| 11/8/2022 1:00   | 1041                                 | 1042    | 1186                                       | 1192    |
| 11/8/2022 2:00   | 1041                                 | 1041    | 1186                                       | 1186    |
| 11/8/2022 3:00   | 1041                                 | 1042    | 1183                                       | 1186    |
| 11/8/2022 4:00   | 1042                                 | 1042    | 1184                                       | 1184    |
| 11/8/2022 5:00   | 1042                                 | 1042    | 1183                                       | 1184    |
| 11/8/2022 6:00   | 1041                                 | 1042    | 1176                                       | 1183    |
| 11/8/2022 7:00   | 1040                                 | 1041    | 1176                                       | 1180    |
| 11/8/2022 8:00   | 1040                                 | 1040    | 1178                                       | 1180    |
| 11/8/2022 9:00   | 1039                                 | 1040    | 1180                                       | 1181    |
| 11/8/2022 10:00  | 1038                                 | 1039    | 1180                                       | 1181    |
| 11/8/2022 11:00  | 1037                                 | 1038    | 1180                                       | 1186    |
| 11/8/2022 12:00  | 1037                                 | 1037    | 1186                                       | 1188    |
| 11/8/2022 13:00  | 1037                                 | 1037    | 1188                                       | 1189    |
| 11/8/2022 14:00  | 1037                                 | 1037    | 1186                                       | 1189    |
| 11/8/2022 15:00  | 1037                                 | 1037    | 1186                                       | 1187    |
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| 11/8/2022 19:00  | 1036                                 | 1037    | 1188                                       | 1188    |
| 11/8/2022 20:00  | 1036                                 | 1036    | 1186                                       | 1188    |
| 11/8/2022 21:00  | 1036                                 | 1036    | 1186                                       | 1191    |
| 11/8/2022 22:00  | 1036                                 | 1036    | 1185                                       | 1192    |
| 11/8/2022 23:00  | 1036                                 | 1036    | 1185                                       | 1187    |
| 11/9/2022 0:00   | 1036                                 | 1036    | 1187                                       | 1188    |
| 11/9/2022 1:00   | 1036                                 | 1036    | 1188                                       | 1191    |
| 11/9/2022 2:00   | 1036                                 | 1036    | 1182                                       | 1191    |
| 11/9/2022 3:00   | 1036                                 | 1036    | 1182                                       | 1188    |
| 11/9/2022 4:00   | 1036                                 | 1036    | 1188                                       | 1190    |
| 11/9/2022 5:00   | 1036                                 | 1036    | 1190                                       | 1192    |
| 11/9/2022 6:00   | 1036                                 | 1037    | 1192                                       | 1195    |
| 11/9/2022 7:00   | 1037                                 | 1037    | 1195                                       | 1196    |
| 11/9/2022 8:00   | 1037                                 | 1038    | 1195                                       | 1196    |
| 11/9/2022 9:00   | 1038                                 | 1038    | 1193                                       | 1196    |
| 11/9/2022 10:00  | 1038                                 | 1038    | 1193                                       | 1195    |
| 11/9/2022 11:00  | 1037                                 | 1038    | 1193                                       | 1195    |
| 11/9/2022 12:00  | 1036                                 | 1037    | 1192                                       | 1193    |
| 11/9/2022 13:00  | 1036                                 | 1036    | 1192                                       | 1193    |
| 11/9/2022 14:00  | 1036                                 | 1036    | 1193                                       | 1193    |
| 11/9/2022 15:00  | 1036                                 | 1037    | 1192                                       | 1193    |
| 11/9/2022 16:00  | 1037                                 | 1037    | 1192                                       | 1192    |
| 11/9/2022 17:00  | 1037                                 | 1037    | 1192                                       | 1196    |
| 11/9/2022 18:00  | 1037                                 | 1038    | 1196                                       | 1200    |
| 11/9/2022 19:00  | 1038                                 | 1038    | 1200                                       | 1200    |
| 11/9/2022 20:00  | 1038                                 | 1039    | 1200                                       | 1200    |
| 11/9/2022 21:00  | 1038                                 | 1039    | 1197                                       | 1200    |
| 11/9/2022 22:00  | 1037                                 | 1038    | 1193                                       | 1197    |
| 11/9/2022 23:00  | 1037                                 | 1037    | 1187                                       | 1193    |
| 11/10/2022 0:00  | 1037                                 | 1038    | 1186                                       | 1187    |
| 11/10/2022 1:00  | 1038                                 | 1038    | 1187                                       | 1194    |
| 11/10/2022 2:00  | 1038                                 | 1038    | 1190                                       | 1194    |
| 11/10/2022 3:00  | 1037                                 | 1038    | 1176                                       | 1190    |
| 11/10/2022 4:00  | 1037                                 | 1037    | 1167                                       | 1176    |
| 11/10/2022 5:00  | 1037                                 | 1037    | 1170                                       | 1176    |
| 11/10/2022 6:00  | 1036                                 | 1037    | 1174                                       | 1176    |
| 11/10/2022 7:00  | 1036                                 | 1037    | 1174                                       | 1180    |
| 11/10/2022 8:00  | 1036                                 | 1037    | 1179                                       | 1183    |
| 11/10/2022 9:00  | 1036                                 | 1036    | 1178                                       | 1183    |
| 11/10/2022 10:00 | 1036                                 | 1036    | 1172                                       | 1178    |
| 11/10/2022 11:00 | 1036                                 | 1036    | 1175                                       | 1177    |
| 11/10/2022 12:00 | 1036                                 | 1036    | 1177                                       | 1179    |
| 11/10/2022 13:00 | 1036                                 | 1036    | 1179                                       | 1182    |
| 11/10/2022 14:00 | 1036                                 | 1036    | 1181                                       | 1181    |
| 11/10/2022 15:00 | 1036                                 | 1036    | 1181                                       | 1182    |

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

| Date/Time        | Viking Gas Transmission<br>( Fargo ) |         | Williston Basin Interstate<br>( Mapleton ) |         |
|------------------|--------------------------------------|---------|--|---------|
|                  | Min BTU                              | Max BTU | Min BTU                                    | Max BTU |
| 11/10/2022 16:00 | 1036                                 | 1037    | 1182                                       | 1184    |
| 11/10/2022 17:00 | 1037                                 | 1037    | 1184                                       | 1187    |
| 11/10/2022 18:00 | 1037                                 | 1037    | 1183                                       | 1187    |
| 11/10/2022 19:00 | 1036                                 | 1037    | 1183                                       | 1186    |
| 11/10/2022 20:00 | 1036                                 | 1036    | 1186                                       | 1187    |
| 11/10/2022 21:00 | 1036                                 | 1036    | 1187                                       | 1189    |
| 11/10/2022 22:00 | 1036                                 | 1037    | 1189                                       | 1190    |
| 11/10/2022 23:00 | 1037                                 | 1038    | 1184                                       | 1190    |
| 11/11/2022 0:00  | 1038                                 | 1039    | 1180                                       | 1184    |
| 11/11/2022 1:00  | 1039                                 | 1039    | 1178                                       | 1180    |
| 11/11/2022 2:00  | 1039                                 | 1040    | 1179                                       | 1185    |
| 11/11/2022 3:00  | 1040                                 | 1040    | 1178                                       | 1185    |
| 11/11/2022 4:00  | 1040                                 | 1040    | 1176                                       | 1178    |
| 11/11/2022 5:00  | 1040                                 | 1040    | 1175                                       | 1176    |
| 11/11/2022 6:00  | 1040                                 | 1040    | 1167                                       | 1175    |
| 11/11/2022 7:00  | 1040                                 | 1040    | 1169                                       | 1174    |
| 11/11/2022 8:00  | 1040                                 | 1040    | 1165                                       | 1174    |
| 11/11/2022 9:00  | 1040                                 | 1040    | 1123                                       | 1165    |
| 11/11/2022 10:00 | 1040                                 | 1040    | 1123                                       | 1134    |
| 11/11/2022 11:00 | 1040                                 | 1041    | 1134                                       | 1140    |
| 11/11/2022 12:00 | 1041                                 | 1041    | 1140                                       | 1145    |
| 11/11/2022 13:00 | 1040                                 | 1041    | 1145                                       | 1149    |
| 11/11/2022 14:00 | 1039                                 | 1040    | 1149                                       | 1155    |
| 11/11/2022 15:00 | 1039                                 | 1039    | 1155                                       | 1158    |
| 11/11/2022 16:00 | 1039                                 | 1039    | 1158                                       | 1162    |
| 11/11/2022 17:00 | 1038                                 | 1039    | 1162                                       | 1165    |
| 11/11/2022 18:00 | 1038                                 | 1038    | 1165                                       | 1174    |
| 11/11/2022 19:00 | 1038                                 | 1038    | 1173                                       | 1174    |
| 11/11/2022 20:00 | 1037                                 | 1038    | 1173                                       | 1174    |
| 11/11/2022 21:00 | 1037                                 | 1037    | 1171                                       | 1174    |
| 11/11/2022 22:00 | 1037                                 | 1037    | 1172                                       | 1176    |
| 11/11/2022 23:00 | 1036                                 | 1037    | 1176                                       | 1182    |
| 11/12/2022 0:00  | 1035                                 | 1036    | 1179                                       | 1184    |
| 11/12/2022 1:00  | 1033                                 | 1035    | 1179                                       | 1184    |
| 11/12/2022 2:00  | 1033                                 | 1033    | 1184                                       | 1185    |
| 11/12/2022 3:00  | 1033                                 | 1033    | 1181                                       | 1184    |
| 11/12/2022 4:00  | 1033                                 | 1035    | 1180                                       | 1183    |
| 11/12/2022 5:00  | 1034                                 | 1035    | 1183                                       | 1187    |
| 11/12/2022 6:00  | 1034                                 | 1034    | 1183                                       | 1185    |
| 11/12/2022 7:00  | 1034                                 | 1034    | 1183                                       | 1185    |
| 11/12/2022 8:00  | 1034                                 | 1034    | 1180                                       | 1183    |
| 11/12/2022 9:00  | 1032                                 | 1034    | 1178                                       | 1180    |
| 11/12/2022 10:00 | 1032                                 | 1032    | 1176                                       | 1178    |
| 11/12/2022 11:00 | 1032                                 | 1032    | 1172                                       | 1176    |
| 11/12/2022 12:00 | 1031                                 | 1032    | 1168                                       | 1172    |
| 11/12/2022 13:00 | 1031                                 | 1031    | 1167                                       | 1173    |
| 11/12/2022 14:00 | 1031                                 | 1031    | 1173                                       | 1176    |
| 11/12/2022 15:00 | 1031                                 | 1031    | 1174                                       | 1176    |
| 11/12/2022 16:00 | 1031                                 | 1031    | 1175                                       | 1176    |
| 11/12/2022 17:00 | 1031                                 | 1031    | 1173                                       | 1175    |
| 11/12/2022 18:00 | 1031                                 | 1031    | 1172                                       | 1173    |
| 11/12/2022 19:00 | 1031                                 | 1031    | 1168                                       | 1172    |
| 11/12/2022 20:00 | 1031                                 | 1031    | 1167                                       | 1168    |
| 11/12/2022 21:00 | 1031                                 | 1031    | 1168                                       | 1170    |
| 11/12/2022 22:00 | 1031                                 | 1031    | 1170                                       | 1172    |
| 11/12/2022 23:00 | 1031                                 | 1031    | 1172                                       | 1173    |
| 11/13/2022 0:00  | 1031                                 | 1031    | 1166                                       | 1173    |
| 11/13/2022 1:00  | 1030                                 | 1031    | 1163                                       | 1166    |
| 11/13/2022 2:00  | 1030                                 | 1030    | 1163                                       | 1166    |
| 11/13/2022 3:00  | 1030                                 | 1030    | 1165                                       | 1168    |
| 11/13/2022 4:00  | 1030                                 | 1030    | 1163                                       | 1165    |
| 11/13/2022 5:00  | 1030                                 | 1030    | 1163                                       | 1170    |
| 11/13/2022 6:00  | 1030                                 | 1030    | 1170                                       | 1174    |
| 11/13/2022 7:00  | 1030                                 | 1030    | 1168                                       | 1172    |
| 11/13/2022 8:00  | 1030                                 | 1030    | 1165                                       | 1168    |
| 11/13/2022 9:00  | 1029                                 | 1030    | 1165                                       | 1165    |
| 11/13/2022 10:00 | 1029                                 | 1029    | 1165                                       | 1169    |
| 11/13/2022 11:00 | 1029                                 | 1029    | 1166                                       | 1170    |
| 11/13/2022 12:00 | 1029                                 | 1030    | 1170                                       | 1171    |
| 11/13/2022 13:00 | 1030                                 | 1030    | 1168                                       | 1171    |
| 11/13/2022 14:00 | 1030                                 | 1031    | 1168                                       | 1173    |
| 11/13/2022 15:00 | 1031                                 | 1031    | 1173                                       | 1177    |
| 11/13/2022 16:00 | 1031                                 | 1031    | 1174                                       | 1175    |
| 11/13/2022 17:00 | 1031                                 | 1031    | 1173                                       | 1175    |
| 11/13/2022 18:00 | 1031                                 | 1031    | 1175                                       | 1179    |
| 11/13/2022 19:00 | 1031                                 | 1031    | 1179                                       | 1179    |
| 11/13/2022 20:00 | 1031                                 | 1031    | 1179                                       | 1180    |
| 11/13/2022 21:00 | 1031                                 | 1032    | 1180                                       | 1195    |
| 11/13/2022 22:00 | 1032                                 | 1033    | 1180                                       | 1194    |
| 11/13/2022 23:00 | 1033                                 | 1035    | 1179                                       | 1183    |

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

| Date/Time        | Viking Gas Transmission<br>( Fargo ) |         | Williston Basin Interstate<br>( Mapleton ) |         |
|------------------|--------------------------------------|---------|--|---------|
|                  | Min BTU                              | Max BTU | Min BTU                                    | Max BTU |
| 11/14/2022 0:00  | 1035                                 | 1036    | 1176                                       | 1179    |
| 11/14/2022 1:00  | 1036                                 | 1037    | 1168                                       | 1176    |
| 11/14/2022 2:00  | 1037                                 | 1038    | 1166                                       | 1168    |
| 11/14/2022 3:00  | 1038                                 | 1039    | 1166                                       | 1168    |
| 11/14/2022 4:00  | 1039                                 | 1039    | 1168                                       | 1171    |
| 11/14/2022 5:00  | 1039                                 | 1040    | 1171                                       | 1174    |
| 11/14/2022 6:00  | 1040                                 | 1040    | 1174                                       | 1177    |
| 11/14/2022 7:00  | 1040                                 | 1041    | 1177                                       | 1181    |
| 11/14/2022 8:00  | 1041                                 | 1042    | 1179                                       | 1180    |
| 11/14/2022 9:00  | 1042                                 | 1042    | 1179                                       | 1180    |
| 11/14/2022 10:00 | 1042                                 | 1043    | 1177                                       | 1180    |
| 11/14/2022 11:00 | 1042                                 | 1043    | 1176                                       | 1177    |
| 11/14/2022 12:00 | 1042                                 | 1042    | 1176                                       | 1182    |
| 11/14/2022 13:00 | 1042                                 | 1042    | 1176                                       | 1182    |
| 11/14/2022 14:00 | 1042                                 | 1042    | 1174                                       | 1176    |
| 11/14/2022 15:00 | 1042                                 | 1042    | 1174                                       | 1177    |
| 11/14/2022 16:00 | 1042                                 | 1042    | 1177                                       | 1186    |
| 11/14/2022 17:00 | 1041                                 | 1042    | 1185                                       | 1186    |
| 11/14/2022 18:00 | 1040                                 | 1041    | 1185                                       | 1198    |
| 11/14/2022 19:00 | 1040                                 | 1040    | 1188                                       | 1198    |
| 11/14/2022 20:00 | 1039                                 | 1040    | 1186                                       | 1188    |
| 11/14/2022 21:00 | 1039                                 | 1039    | 1177                                       | 1186    |
| 11/14/2022 22:00 | 1039                                 | 1039    | 1174                                       | 1178    |
| 11/14/2022 23:00 | 1038                                 | 1039    | 1173                                       | 1174    |
| 11/15/2022 0:00  | 1037                                 | 1038    | 1169                                       | 1175    |
| 11/15/2022 1:00  | 1037                                 | 1037    | 1169                                       | 1174    |
| 11/15/2022 2:00  | 1037                                 | 1037    | 1174                                       | 1182    |
| 11/15/2022 3:00  | 1037                                 | 1037    | 1181                                       | 1182    |
| 11/15/2022 4:00  | 1037                                 | 1037    | 1178                                       | 1182    |
| 11/15/2022 5:00  | 1036                                 | 1037    | 1179                                       | 1182    |
| 11/15/2022 6:00  | 1036                                 | 1036    | 1178                                       | 1182    |
| 11/15/2022 7:00  | 1035                                 | 1036    | 1176                                       | 1178    |
| 11/15/2022 8:00  | 1035                                 | 1035    | 1174                                       | 1176    |
| 11/15/2022 9:00  | 1035                                 | 1035    | 1176                                       | 1177    |
| 11/15/2022 10:00 | 1035                                 | 1035    | 1176                                       | 1177    |
| 11/15/2022 11:00 | 1035                                 | 1035    | 1177                                       | 1180    |
| 11/15/2022 12:00 | 1035                                 | 1035    | 1178                                       | 1180    |
| 11/15/2022 13:00 | 1035                                 | 1035    | 1178                                       | 1178    |
| 11/15/2022 14:00 | 1035                                 | 1035    | 1178                                       | 1181    |
| 11/15/2022 15:00 | 1035                                 | 1035    | 1178                                       | 1181    |
| 11/15/2022 16:00 | 1035                                 | 1035    | 1175                                       | 1178    |
| 11/15/2022 17:00 | 1035                                 | 1035    | 1175                                       | 1176    |
| 11/15/2022 18:00 | 1035                                 | 1035    | 1176                                       | 1177    |
| 11/15/2022 19:00 | 1035                                 | 1035    | 1177                                       | 1182    |
| 11/15/2022 20:00 | 1035                                 | 1035    | 1181                                       | 1183    |
| 11/15/2022 21:00 | 1035                                 | 1035    | 1183                                       | 1187    |
| 11/15/2022 22:00 | 1035                                 | 1035    | 1183                                       | 1183    |
| 11/15/2022 23:00 | 1035                                 | 1035    | 1182                                       | 1183    |
| 11/16/2022 0:00  | 1035                                 | 1035    | 1180                                       | 1182    |
| 11/16/2022 1:00  | 1035                                 | 1035    | 1178                                       | 1180    |
| 11/16/2022 2:00  | 1035                                 | 1035    | 1176                                       | 1178    |
| 11/16/2022 3:00  | 1035                                 | 1035    | 1176                                       | 1177    |
| 11/16/2022 4:00  | 1035                                 | 1035    | 1174                                       | 1176    |
| 11/16/2022 5:00  | 1035                                 | 1035    | 1174                                       | 1176    |
| 11/16/2022 6:00  | 1035                                 | 1035    | 1176                                       | 1180    |
| 11/16/2022 7:00  | 1035                                 | 1035    | 1176                                       | 1180    |
| 11/16/2022 8:00  | 1035                                 | 1035    | 1171                                       | 1176    |
| 11/16/2022 9:00  | 1035                                 | 1035    | 1166                                       | 1171    |
| 11/16/2022 10:00 | 1035                                 | 1035    | 1164                                       | 1167    |
| 11/16/2022 11:00 | 1035                                 | 1035    | 1164                                       | 1168    |
| 11/16/2022 12:00 | 1035                                 | 1035    | 1165                                       | 1168    |
| 11/16/2022 13:00 | 1035                                 | 1036    | 1165                                       | 1166    |
| 11/16/2022 14:00 | 1036                                 | 1036    | 1165                                       | 1167    |
| 11/16/2022 15:00 | 1036                                 | 1036    | 1165                                       | 1167    |
| 11/16/2022 16:00 | 1035                                 | 1036    | 1167                                       | 1169    |
| 11/16/2022 17:00 | 1035                                 | 1035    | 1165                                       | 1169    |
| 11/16/2022 18:00 | 1035                                 | 1035    | 1160                                       | 1165    |
| 11/16/2022 19:00 | 1035                                 | 1035    | 1153                                       | 1160    |
| 11/16/2022 20:00 | 1035                                 | 1035    | 1152                                       | 1153    |
| 11/16/2022 21:00 | 1035                                 | 1035    | 1148                                       | 1153    |
| 11/16/2022 22:00 | 1035                                 | 1035    | 1142                                       | 1148    |
| 11/16/2022 23:00 | 1035                                 | 1035    | 1142                                       | 1143    |
| 11/17/2022 0:00  | 1034                                 | 1035    | 1140                                       | 1142    |
| 11/17/2022 1:00  | 1034                                 | 1035    | 1138                                       | 1140    |
| 11/17/2022 2:00  | 1034                                 | 1035    | 1135                                       | 1138    |
| 11/17/2022 3:00  | 1034                                 | 1035    | 1128                                       | 1135    |
| 11/17/2022 4:00  | 1035                                 | 1035    | 1128                                       | 1131    |
| 11/17/2022 5:00  | 1035                                 | 1035    | 1129                                       | 1132    |
| 11/17/2022 6:00  | 1035                                 | 1035    | 1132                                       | 1134    |
| 11/17/2022 7:00  | 1035                                 | 1035    | 1134                                       | 1137    |

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

| Date/Time        | Viking Gas Transmission<br>( Fargo ) |         | Williston Basin Interstate<br>( Mapleton ) |         |
|------------------|--------------------------------------|---------|--|---------|
|                  | Min BTU                              | Max BTU | Min BTU                                    | Max BTU |
| 11/17/2022 8:00  | 1035                                 | 1035    | 1137                                       | 1139    |
| 11/17/2022 9:00  | 1035                                 | 1036    | 1139                                       | 1140    |
| 11/17/2022 10:00 | 1036                                 | 1036    | 1140                                       | 1153    |
| 11/17/2022 11:00 | 1036                                 | 1036    | 1153                                       | 1166    |
| 11/17/2022 12:00 | 1036                                 | 1036    | 1166                                       | 1172    |
| 11/17/2022 13:00 | 1036                                 | 1036    | 1170                                       | 1173    |
| 11/17/2022 14:00 | 1036                                 | 1037    | 1173                                       | 1176    |
| 11/17/2022 15:00 | 1037                                 | 1037    | 1176                                       | 1176    |
| 11/17/2022 16:00 | 1037                                 | 1038    | 1173                                       | 1176    |
| 11/17/2022 17:00 | 1038                                 | 1038    | 1173                                       | 1183    |
| 11/17/2022 18:00 | 1038                                 | 1039    | 1183                                       | 1187    |
| 11/17/2022 19:00 | 1039                                 | 1040    | 1173                                       | 1187    |
| 11/17/2022 20:00 | 1040                                 | 1040    | 1171                                       | 1173    |
| 11/17/2022 21:00 | 1040                                 | 1041    | 1171                                       | 1172    |
| 11/17/2022 22:00 | 1040                                 | 1041    | 1169                                       | 1172    |
| 11/17/2022 23:00 | 1040                                 | 1040    | 1169                                       | 1170    |
| 11/18/2022 0:00  | 1040                                 | 1040    | 1168                                       | 1170    |
| 11/18/2022 1:00  | 1040                                 | 1040    | 1168                                       | 1170    |
| 11/18/2022 2:00  | 1039                                 | 1040    | 1170                                       | 1170    |
| 11/18/2022 3:00  | 1039                                 | 1039    | 1169                                       | 1170    |
| 11/18/2022 4:00  | 1039                                 | 1039    | 1169                                       | 1171    |
| 11/18/2022 5:00  | 1039                                 | 1039    | 1170                                       | 1171    |
| 11/18/2022 6:00  | 1039                                 | 1039    | 1171                                       | 1172    |
| 11/18/2022 7:00  | 1039                                 | 1039    | 1170                                       | 1172    |
| 11/18/2022 8:00  | 1039                                 | 1039    | 1169                                       | 1170    |
| 11/18/2022 9:00  | 1039                                 | 1039    | 1169                                       | 1170    |
| 11/18/2022 10:00 | 1039                                 | 1039    | 1170                                       | 1170    |
| 11/18/2022 11:00 | 1039                                 | 1039    | 1170                                       | 1171    |
| 11/18/2022 12:00 | 1039                                 | 1039    | 1171                                       | 1175    |
| 11/18/2022 13:00 | 1039                                 | 1039    | 1175                                       | 1179    |
| 11/18/2022 14:00 | 1039                                 | 1039    | 1177                                       | 1180    |
| 11/18/2022 15:00 | 1038                                 | 1039    | 1180                                       | 1183    |
| 11/18/2022 16:00 | 1038                                 | 1038    | 1180                                       | 1183    |
| 11/18/2022 17:00 | 1038                                 | 1038    | 1179                                       | 1180    |
| 11/18/2022 18:00 | 1038                                 | 1038    | 1179                                       | 1180    |
| 11/18/2022 19:00 | 1038                                 | 1038    | 1179                                       | 1179    |
| 11/18/2022 20:00 | 1038                                 | 1039    | 1179                                       | 1181    |
| 11/18/2022 21:00 | 1039                                 | 1039    | 1181                                       | 1181    |
| 11/18/2022 22:00 | 1039                                 | 1040    | 1180                                       | 1181    |
| 11/18/2022 23:00 | 1040                                 | 1040    | 1174                                       | 1180    |
| 11/19/2022 0:00  | 1040                                 | 1040    | 1167                                       | 1174    |
| 11/19/2022 1:00  | 1040                                 | 1040    | 1166                                       | 1167    |
| 11/19/2022 2:00  | 1040                                 | 1040    | 1161                                       | 1166    |
| 11/19/2022 3:00  | 1040                                 | 1040    | 1161                                       | 1167    |
| 11/19/2022 4:00  | 1040                                 | 1040    | 1164                                       | 1167    |
| 11/19/2022 5:00  | 1040                                 | 1040    | 1164                                       | 1168    |
| 11/19/2022 6:00  | 1040                                 | 1040    | 1156                                       | 1168    |
| 11/19/2022 7:00  | 1040                                 | 1040    | 1147                                       | 1160    |
| 11/19/2022 8:00  | 1040                                 | 1040    | 1160                                       | 1165    |
| 11/19/2022 9:00  | 1040                                 | 1040    | 1162                                       | 1166    |
| 11/19/2022 10:00 | 1040                                 | 1040    | 1166                                       | 1166    |
| 11/19/2022 11:00 | 1040                                 | 1040    | 1166                                       | 1166    |
| 11/19/2022 12:00 | 1039                                 | 1040    | 1164                                       | 1167    |
| 11/19/2022 13:00 | 1039                                 | 1039    | 1164                                       | 1167    |
| 11/19/2022 14:00 | 1039                                 | 1039    | 1166                                       | 1166    |
| 11/19/2022 15:00 | 1039                                 | 1039    | 1164                                       | 1166    |
| 11/19/2022 16:00 | 1039                                 | 1039    | 1164                                       | 1164    |
| 11/19/2022 17:00 | 1039                                 | 1039    | 1163                                       | 1164    |
| 11/19/2022 18:00 | 1039                                 | 1039    | 1161                                       | 1163    |
| 11/19/2022 19:00 | 1039                                 | 1039    | 1163                                       | 1164    |
| 11/19/2022 20:00 | 1039                                 | 1040    | 1163                                       | 1164    |
| 11/19/2022 21:00 | 1040                                 | 1040    | 1163                                       | 1164    |
| 11/19/2022 22:00 | 1040                                 | 1040    | 1162                                       | 1166    |
| 11/19/2022 23:00 | 1040                                 | 1040    | 1166                                       | 1168    |
| 11/20/2022 0:00  | 1039                                 | 1040    | 1168                                       | 1172    |
| 11/20/2022 1:00  | 1039                                 | 1039    | 1166                                       | 1172    |
| 11/20/2022 2:00  | 1039                                 | 1040    | 1166                                       | 1167    |
| 11/20/2022 3:00  | 1040                                 | 1040    | 1166                                       | 1170    |
| 11/20/2022 4:00  | 1039                                 | 1040    | 1170                                       | 1172    |
| 11/20/2022 5:00  | 1039                                 | 1039    | 1169                                       | 1171    |
| 11/20/2022 6:00  | 1039                                 | 1039    | 1169                                       | 1171    |
| 11/20/2022 7:00  | 1039                                 | 1040    | 1167                                       | 1171    |
| 11/20/2022 8:00  | 1040                                 | 1040    | 1166                                       | 1170    |
| 11/20/2022 9:00  | 1040                                 | 1040    | 1166                                       | 1169    |
| 11/20/2022 10:00 | 1040                                 | 1040    | 1167                                       | 1169    |
| 11/20/2022 11:00 | 1040                                 | 1040    | 1166                                       | 1168    |
| 11/20/2022 12:00 | 1040                                 | 1041    | 1165                                       | 1167    |
| 11/20/2022 13:00 | 1040                                 | 1041    | 1164                                       | 1166    |
| 11/20/2022 14:00 | 1040                                 | 1040    | 1164                                       | 1166    |
| 11/20/2022 15:00 | 1040                                 | 1040    | 1165                                       | 1166    |

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

| Date/Time        | Viking Gas Transmission<br>( Fargo ) |         | Williston Basin Interstate<br>( Mapleton ) |         |
|------------------|--------------------------------------|---------|--|---------|
|                  | Min BTU                              | Max BTU | Min BTU                                    | Max BTU |
| 11/20/2022 16:00 | 1040                                 | 1040    | 1165                                       | 1168    |
| 11/20/2022 17:00 | 1040                                 | 1040    | 1167                                       | 1168    |
| 11/20/2022 18:00 | 1040                                 | 1040    | 1167                                       | 1168    |
| 11/20/2022 19:00 | 1040                                 | 1040    | 1166                                       | 1167    |
| 11/20/2022 20:00 | 1040                                 | 1040    | 1166                                       | 1166    |
| 11/20/2022 21:00 | 1040                                 | 1040    | 1166                                       | 1167    |
| 11/20/2022 22:00 | 1040                                 | 1040    | 1164                                       | 1167    |
| 11/20/2022 23:00 | 1040                                 | 1041    | 1164                                       | 1166    |
| 11/21/2022 0:00  | 1041                                 | 1042    | 1166                                       | 1167    |
| 11/21/2022 1:00  | 1041                                 | 1042    | 1167                                       | 1168    |
| 11/21/2022 2:00  | 1041                                 | 1042    | 1167                                       | 1168    |
| 11/21/2022 3:00  | 1042                                 | 1043    | 1168                                       | 1168    |
| 11/21/2022 4:00  | 1043                                 | 1043    | 1167                                       | 1168    |
| 11/21/2022 5:00  | 1043                                 | 1043    | 1166                                       | 1169    |
| 11/21/2022 6:00  | 1042                                 | 1043    | 1169                                       | 1170    |
| 11/21/2022 7:00  | 1042                                 | 1042    | 1169                                       | 1171    |
| 11/21/2022 8:00  | 1042                                 | 1042    | 1168                                       | 1169    |
| 11/21/2022 9:00  | 1042                                 | 1042    | 1168                                       | 1168    |
| 11/21/2022 10:00 | 1041                                 | 1042    | 1168                                       | 1169    |
| 11/21/2022 11:00 | 1041                                 | 1041    | 1168                                       | 1171    |
| 11/21/2022 12:00 | 1041                                 | 1041    | 1165                                       | 1169    |
| 11/21/2022 13:00 | 1041                                 | 1041    | 1165                                       | 1167    |
| 11/21/2022 14:00 | 1041                                 | 1041    | 1166                                       | 1167    |
| 11/21/2022 15:00 | 1041                                 | 1041    | 1165                                       | 1166    |
| 11/21/2022 16:00 | 1040                                 | 1041    | 1165                                       | 1166    |
| 11/21/2022 17:00 | 1040                                 | 1040    | 1166                                       | 1168    |
| 11/21/2022 18:00 | 1040                                 | 1040    | 1168                                       | 1171    |
| 11/21/2022 19:00 | 1040                                 | 1040    | 1171                                       | 1172    |
| 11/21/2022 20:00 | 1040                                 | 1040    | 1172                                       | 1173    |
| 11/21/2022 21:00 | 1040                                 | 1040    | 1173                                       | 1174    |
| 11/21/2022 22:00 | 1040                                 | 1040    | 1172                                       | 1173    |
| 11/21/2022 23:00 | 1040                                 | 1040    | 1172                                       | 1173    |
| 11/22/2022 0:00  | 1040                                 | 1040    | 1173                                       | 1174    |
| 11/22/2022 1:00  | 1040                                 | 1040    | 1171                                       | 1174    |
| 11/22/2022 2:00  | 1040                                 | 1040    | 1170                                       | 1172    |
| 11/22/2022 3:00  | 1040                                 | 1041    | 1171                                       | 1172    |
| 11/22/2022 4:00  | 1041                                 | 1042    | 1172                                       | 1172    |
| 11/22/2022 5:00  | 1042                                 | 1042    | 1170                                       | 1172    |
| 11/22/2022 6:00  | 1042                                 | 1042    | 1171                                       | 1172    |
| 11/22/2022 7:00  | 1042                                 | 1043    | 1169                                       | 1171    |
| 11/22/2022 8:00  | 1043                                 | 1043    | 1169                                       | 1170    |
| 11/22/2022 9:00  | 1043                                 | 1043    | 1167                                       | 1169    |
| 11/22/2022 10:00 | 1043                                 | 1044    | 1167                                       | 1167    |
| 11/22/2022 11:00 | 1044                                 | 1044    | 1163                                       | 1167    |
| 11/22/2022 12:00 | 1043                                 | 1044    | 1163                                       | 1167    |
| 11/22/2022 13:00 | 1043                                 | 1043    | 1162                                       | 1167    |
| 11/22/2022 14:00 | 1043                                 | 1043    | 1162                                       | 1165    |
| 11/22/2022 15:00 | 1043                                 | 1043    | 1164                                       | 1165    |
| 11/22/2022 16:00 | 1042                                 | 1043    | 1164                                       | 1166    |
| 11/22/2022 17:00 | 1042                                 | 1042    | 1164                                       | 1166    |
| 11/22/2022 18:00 | 1042                                 | 1042    | 1163                                       | 1164    |
| 11/22/2022 19:00 | 1042                                 | 1042    | 1163                                       | 1165    |
| 11/22/2022 20:00 | 1042                                 | 1042    | 1164                                       | 1165    |
| 11/22/2022 21:00 | 1042                                 | 1042    | 1159                                       | 1164    |
| 11/22/2022 22:00 | 1042                                 | 1042    | 1159                                       | 1159    |
| 11/22/2022 23:00 | 1042                                 | 1043    | 1159                                       | 1164    |
| 11/23/2022 0:00  | 1042                                 | 1043    | 1164                                       | 1168    |
| 11/23/2022 1:00  | 1042                                 | 1043    | 1168                                       | 1172    |
| 11/23/2022 2:00  | 1043                                 | 1043    | 1169                                       | 1172    |
| 11/23/2022 3:00  | 1043                                 | 1043    | 1167                                       | 1169    |
| 11/23/2022 4:00  | 1043                                 | 1043    | 1168                                       | 1169    |
| 11/23/2022 5:00  | 1043                                 | 1043    | 1168                                       | 1170    |
| 11/23/2022 6:00  | 1043                                 | 1043    | 1170                                       | 1172    |
| 11/23/2022 7:00  | 1043                                 | 1043    | 1172                                       | 1173    |
| 11/23/2022 8:00  | 1043                                 | 1043    | 1161                                       | 1172    |
| 11/23/2022 9:00  | 1043                                 | 1043    | 1161                                       | 1174    |
| 11/23/2022 10:00 | 1043                                 | 1043    | 1174                                       | 1175    |
| 11/23/2022 11:00 | 1043                                 | 1043    | 1173                                       | 1174    |
| 11/23/2022 12:00 | 1043                                 | 1044    | 1173                                       | 1175    |
| 11/23/2022 13:00 | 1043                                 | 1044    | 1174                                       | 1174    |
| 11/23/2022 14:00 | 1043                                 | 1043    | 1174                                       | 1175    |
| 11/23/2022 15:00 | 1043                                 | 1043    | 1174                                       | 1175    |
| 11/23/2022 16:00 | 1043                                 | 1043    | 1174                                       | 1175    |
| 11/23/2022 17:00 | 1043                                 | 1043    | 1175                                       | 1176    |
| 11/23/2022 18:00 | 1042                                 | 1043    | 1176                                       | 1177    |
| 11/23/2022 19:00 | 1042                                 | 1042    | 1177                                       | 1181    |
| 11/23/2022 20:00 | 1042                                 | 1042    | 1181                                       | 1186    |
| 11/23/2022 21:00 | 1041                                 | 1042    | 1186                                       | 1190    |
| 11/23/2022 22:00 | 1040                                 | 1041    | 1189                                       | 1190    |
| 11/23/2022 23:00 | 1040                                 | 1041    | 1182                                       | 1189    |

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

| Date/Time        | Viking Gas Transmission<br>( Fargo ) |         | Williston Basin Interstate<br>( Mapleton ) |         |
|------------------|--------------------------------------|---------|--|---------|
|                  | Min BTU                              | Max BTU | Min BTU                                    | Max BTU |
| 11/24/2022 0:00  | 1041                                 | 1041    | 1182                                       | 1184    |
| 11/24/2022 1:00  | 1041                                 | 1041    | 1184                                       | 1184    |
| 11/24/2022 2:00  | 1041                                 | 1041    | 1183                                       | 1185    |
| 11/24/2022 3:00  | 1041                                 | 1041    | 1184                                       | 1185    |
| 11/24/2022 4:00  | 1040                                 | 1041    | 1183                                       | 1184    |
| 11/24/2022 5:00  | 1040                                 | 1040    | 1179                                       | 1183    |
| 11/24/2022 6:00  | 1038                                 | 1040    | 1179                                       | 1181    |
| 11/24/2022 7:00  | 1038                                 | 1038    | 1181                                       | 1183    |
| 11/24/2022 8:00  | 1038                                 | 1038    | 1182                                       | 1184    |
| 11/24/2022 9:00  | 1038                                 | 1038    | 1181                                       | 1183    |
| 11/24/2022 10:00 | 1038                                 | 1038    | 1180                                       | 1181    |
| 11/24/2022 11:00 | 1038                                 | 1038    | 1180                                       | 1182    |
| 11/24/2022 12:00 | 1037                                 | 1038    | 1182                                       | 1183    |
| 11/24/2022 13:00 | 1037                                 | 1037    | 1182                                       | 1185    |
| 11/24/2022 14:00 | 1037                                 | 1038    | 1183                                       | 1188    |
| 11/24/2022 15:00 | 1038                                 | 1038    | 1184                                       | 1188    |
| 11/24/2022 16:00 | 1038                                 | 1038    | 1184                                       | 1186    |
| 11/24/2022 17:00 | 1037                                 | 1038    | 1186                                       | 1187    |
| 11/24/2022 18:00 | 1037                                 | 1037    | 1187                                       | 1191    |
| 11/24/2022 19:00 | 1037                                 | 1037    | 1191                                       | 1195    |
| 11/24/2022 20:00 | 1037                                 | 1037    | 1193                                       | 1196    |
| 11/24/2022 21:00 | 1037                                 | 1038    | 1188                                       | 1193    |
| 11/24/2022 22:00 | 1037                                 | 1038    | 1185                                       | 1188    |
| 11/24/2022 23:00 | 1037                                 | 1038    | 1185                                       | 1186    |
| 11/25/2022 0:00  | 1037                                 | 1038    | 1186                                       | 1188    |
| 11/25/2022 1:00  | 1037                                 | 1037    | 1183                                       | 1188    |
| 11/25/2022 2:00  | 1037                                 | 1037    | 1183                                       | 1184    |
| 11/25/2022 3:00  | 1037                                 | 1037    | 1183                                       | 1184    |
| 11/25/2022 4:00  | 1037                                 | 1037    | 1183                                       | 1185    |
| 11/25/2022 5:00  | 1037                                 | 1037    | 1183                                       | 1185    |
| 11/25/2022 6:00  | 1036                                 | 1037    | 1183                                       | 1183    |
| 11/25/2022 7:00  | 1036                                 | 1036    | 1183                                       | 1189    |
| 11/25/2022 8:00  | 1036                                 | 1037    | 1189                                       | 1189    |
| 11/25/2022 9:00  | 1037                                 | 1037    | 1189                                       | 1190    |
| 11/25/2022 10:00 | 1037                                 | 1037    | 1190                                       | 1192    |
| 11/25/2022 11:00 | 1037                                 | 1037    | 1189                                       | 1191    |
| 11/25/2022 12:00 | 1037                                 | 1037    | 1181                                       | 1189    |
| 11/25/2022 13:00 | 1037                                 | 1038    | 1181                                       | 1183    |
| 11/25/2022 14:00 | 1037                                 | 1038    | 1183                                       | 1187    |
| 11/25/2022 15:00 | 1037                                 | 1038    | 1185                                       | 1186    |
| 11/25/2022 16:00 | 1038                                 | 1038    | 1185                                       | 1186    |
| 11/25/2022 17:00 | 1038                                 | 1038    | 1185                                       | 1185    |
| 11/25/2022 18:00 | 1038                                 | 1038    | 1180                                       | 1185    |
| 11/25/2022 19:00 | 1038                                 | 1038    | 1180                                       | 1181    |
| 11/25/2022 20:00 | 1038                                 | 1038    | 1181                                       | 1187    |
| 11/25/2022 21:00 | 1037                                 | 1038    | 1187                                       | 1187    |
| 11/25/2022 22:00 | 1037                                 | 1038    | 1185                                       | 1187    |
| 11/25/2022 23:00 | 1038                                 | 1039    | 1185                                       | 1190    |
| 11/26/2022 0:00  | 1039                                 | 1039    | 1190                                       | 1190    |
| 11/26/2022 1:00  | 1039                                 | 1040    | 1190                                       | 1192    |
| 11/26/2022 2:00  | 1040                                 | 1041    | 1192                                       | 1195    |
| 11/26/2022 3:00  | 1041                                 | 1042    | 1192                                       | 1195    |
| 11/26/2022 4:00  | 1042                                 | 1042    | 1192                                       | 1192    |
| 11/26/2022 5:00  | 1042                                 | 1044    | 1191                                       | 1192    |
| 11/26/2022 6:00  | 1044                                 | 1044    | 1191                                       | 1192    |
| 11/26/2022 7:00  | 1044                                 | 1044    | 1188                                       | 1191    |
| 11/26/2022 8:00  | 1044                                 | 1044    | 1188                                       | 1190    |
| 11/26/2022 9:00  | 1044                                 | 1044    | 1190                                       | 1193    |
| 11/26/2022 10:00 | 1044                                 | 1044    | 1193                                       | 1196    |
| 11/26/2022 11:00 | 1044                                 | 1044    | 1195                                       | 1196    |
| 11/26/2022 12:00 | 1044                                 | 1044    | 1192                                       | 1195    |
| 11/26/2022 13:00 | 1043                                 | 1044    | 1192                                       | 1193    |
| 11/26/2022 14:00 | 1043                                 | 1044    | 1192                                       | 1193    |
| 11/26/2022 15:00 | 1044                                 | 1044    | 1191                                       | 1192    |
| 11/26/2022 16:00 | 1044                                 | 1044    | 1191                                       | 1194    |
| 11/26/2022 17:00 | 1044                                 | 1044    | 1194                                       | 1195    |
| 11/26/2022 18:00 | 1044                                 | 1044    | 1195                                       | 1195    |
| 11/26/2022 19:00 | 1044                                 | 1044    | 1195                                       | 1198    |
| 11/26/2022 20:00 | 1044                                 | 1044    | 1197                                       | 1198    |
| 11/26/2022 21:00 | 1044                                 | 1044    | 1197                                       | 1197    |
| 11/26/2022 22:00 | 1044                                 | 1045    | 1197                                       | 1199    |
| 11/26/2022 23:00 | 1045                                 | 1045    | 1197                                       | 1199    |
| 11/27/2022 0:00  | 1044                                 | 1045    | 1196                                       | 1197    |
| 11/27/2022 1:00  | 1044                                 | 1044    | 1194                                       | 1196    |
| 11/27/2022 2:00  | 1044                                 | 1045    | 1194                                       | 1199    |
| 11/27/2022 3:00  | 1045                                 | 1045    | 1194                                       | 1199    |
| 11/27/2022 4:00  | 1044                                 | 1045    | 1192                                       | 1195    |
| 11/27/2022 5:00  | 1044                                 | 1044    | 1190                                       | 1192    |
| 11/27/2022 6:00  | 1044                                 | 1044    | 1190                                       | 1190    |
| 11/27/2022 7:00  | 1044                                 | 1044    | 1190                                       | 1193    |

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

| Date/Time        | Viking Gas Transmission<br>( Fargo ) |         | Williston Basin Interstate<br>( Mapleton ) |         |
|------------------|--------------------------------------|---------|--|---------|
|                  | Min BTU                              | Max BTU | Min BTU                                    | Max BTU |
| 11/27/2022 8:00  | 1044                                 | 1044    | 1193                                       | 1194    |
| 11/27/2022 9:00  | 1044                                 | 1044    | 1194                                       | 1195    |
| 11/27/2022 10:00 | 1044                                 | 1044    | 1192                                       | 1195    |
| 11/27/2022 11:00 | 1044                                 | 1044    | 1190                                       | 1192    |
| 11/27/2022 12:00 | 1044                                 | 1044    | 1192                                       | 1196    |
| 11/27/2022 13:00 | 1044                                 | 1044    | 1196                                       | 1200    |
| 11/27/2022 14:00 | 1044                                 | 1044    | 1200                                       | 1200    |
| 11/27/2022 15:00 | 1044                                 | 1044    | 1196                                       | 1200    |
| 11/27/2022 16:00 | 1044                                 | 1044    | 1196                                       | 1199    |
| 11/27/2022 17:00 | 1044                                 | 1044    | 1199                                       | 1200    |
| 11/27/2022 18:00 | 1044                                 | 1044    | 1199                                       | 1200    |
| 11/27/2022 19:00 | 1044                                 | 1044    | 1199                                       | 1200    |
| 11/27/2022 20:00 | 1044                                 | 1044    | 1200                                       | 1200    |
| 11/27/2022 21:00 | 1044                                 | 1044    | 1200                                       | 1200    |
| 11/27/2022 22:00 | 1044                                 | 1044    | 1200                                       | 1200    |
| 11/27/2022 23:00 | 1044                                 | 1044    | 1194                                       | 1200    |
| 11/28/2022 0:00  | 1044                                 | 1044    | 1188                                       | 1194    |
| 11/28/2022 1:00  | 1043                                 | 1044    | 1188                                       | 1188    |
| 11/28/2022 2:00  | 1043                                 | 1043    | 1185                                       | 1188    |
| 11/28/2022 3:00  | 1043                                 | 1043    | 1181                                       | 1185    |
| 11/28/2022 4:00  | 1043                                 | 1044    | 1181                                       | 1181    |
| 11/28/2022 5:00  | 1044                                 | 1044    | 1178                                       | 1181    |
| 11/28/2022 6:00  | 1044                                 | 1044    | 1178                                       | 1179    |
| 11/28/2022 7:00  | 1044                                 | 1044    | 1176                                       | 1178    |
| 11/28/2022 8:00  | 1044                                 | 1044    | 1176                                       | 1182    |
| 11/28/2022 9:00  | 1044                                 | 1044    | 1182                                       | 1185    |
| 11/28/2022 10:00 | 1044                                 | 1044    | 1184                                       | 1185    |
| 11/28/2022 11:00 | 1044                                 | 1044    | 1184                                       | 1188    |
| 11/28/2022 12:00 | 1044                                 | 1045    | 1186                                       | 1188    |
| 11/28/2022 13:00 | 1045                                 | 1045    | 1186                                       | 1190    |
| 11/28/2022 14:00 | 1044                                 | 1045    | 1190                                       | 1192    |
| 11/28/2022 15:00 | 1044                                 | 1045    | 1192                                       | 1194    |
| 11/28/2022 16:00 | 1045                                 | 1045    | 1194                                       | 1195    |
| 11/28/2022 17:00 | 1045                                 | 1046    | 1195                                       | 1198    |
| 11/28/2022 18:00 | 1046                                 | 1046    | 1198                                       | 1200    |
| 11/28/2022 19:00 | 1046                                 | 1046    | 1198                                       | 1200    |
| 11/28/2022 20:00 | 1046                                 | 1046    | 1194                                       | 1198    |
| 11/28/2022 21:00 | 1045                                 | 1046    | 1193                                       | 1194    |
| 11/28/2022 22:00 | 1045                                 | 1045    | 1193                                       | 1196    |
| 11/28/2022 23:00 | 1045                                 | 1045    | 1196                                       | 1197    |
| 11/29/2022 0:00  | 1045                                 | 1046    | 1196                                       | 1197    |
| 11/29/2022 1:00  | 1045                                 | 1046    | 1191                                       | 1196    |
| 11/29/2022 2:00  | 1045                                 | 1045    | 1188                                       | 1191    |
| 11/29/2022 3:00  | 1045                                 | 1045    | 1187                                       | 1188    |
| 11/29/2022 4:00  | 1045                                 | 1045    | 1188                                       | 1190    |
| 11/29/2022 5:00  | 1045                                 | 1045    | 1189                                       | 1190    |
| 11/29/2022 6:00  | 1045                                 | 1045    | 1185                                       | 1189    |
| 11/29/2022 7:00  | 1044                                 | 1045    | 1185                                       | 1185    |
| 11/29/2022 8:00  | 1044                                 | 1045    | 1184                                       | 1186    |
| 11/29/2022 9:00  | 1045                                 | 1045    | 1186                                       | 1189    |
| 11/29/2022 10:00 | 1044                                 | 1045    | 1189                                       | 1192    |
| 11/29/2022 11:00 | 1044                                 | 1044    | 1186                                       | 1190    |
| 11/29/2022 12:00 | 1044                                 | 1044    | 1183                                       | 1186    |
| 11/29/2022 13:00 | 1044                                 | 1044    | 1182                                       | 1183    |
| 11/29/2022 14:00 | 1044                                 | 1044    | 1182                                       | 1182    |
| 11/29/2022 15:00 | 1044                                 | 1044    | 1180                                       | 1182    |
| 11/29/2022 16:00 | 1044                                 | 1044    | 1180                                       | 1182    |
| 11/29/2022 17:00 | 1044                                 | 1044    | 1182                                       | 1185    |
| 11/29/2022 18:00 | 1044                                 | 1044    | 1184                                       | 1186    |
| 11/29/2022 19:00 | 1044                                 | 1044    | 1182                                       | 1186    |
| 11/29/2022 20:00 | 1043                                 | 1044    | 1182                                       | 1183    |
| 11/29/2022 21:00 | 1043                                 | 1044    | 1183                                       | 1183    |
| 11/29/2022 22:00 | 1043                                 | 1044    | 1182                                       | 1183    |
| 11/29/2022 23:00 | 1043                                 | 1044    | 1181                                       | 1182    |
| 11/30/2022 0:00  | 1043                                 | 1044    | 1179                                       | 1181    |
| 11/30/2022 1:00  | 1043                                 | 1043    | 1178                                       | 1179    |
| 11/30/2022 2:00  | 1043                                 | 1044    | 1178                                       | 1180    |
| 11/30/2022 3:00  | 1044                                 | 1044    | 1178                                       | 1180    |
| 11/30/2022 4:00  | 1044                                 | 1044    | 1175                                       | 1178    |
| 11/30/2022 5:00  | 1044                                 | 1044    | 1174                                       | 1175    |
| 11/30/2022 6:00  | 1044                                 | 1044    | 1174                                       | 1174    |
| 11/30/2022 7:00  | 1044                                 | 1044    | 1174                                       | 1175    |
| 11/30/2022 8:00  | 1044                                 | 1044    | 1175                                       | 1176    |
| 11/30/2022 9:00  | 1044                                 | 1044    | 1175                                       | 1176    |
| 11/30/2022 10:00 | 1043                                 | 1044    | 1175                                       | 1176    |
| 11/30/2022 11:00 | 1043                                 | 1043    | 1173                                       | 1176    |
| 11/30/2022 12:00 | 1043                                 | 1043    | 1169                                       | 1173    |
| 11/30/2022 13:00 | 1043                                 | 1043    | 1171                                       | 1174    |
| 11/30/2022 14:00 | 1043                                 | 1043    | 1169                                       | 1173    |
| 11/30/2022 15:00 | 1043                                 | 1043    | 1169                                       | 1175    |
| 11/30/2022 16:00 | 1043                                 | 1043    | 1174                                       | 1175    |
| 11/30/2022 17:00 | 1043                                 | 1043    | 1175                                       | 1179    |
| 11/30/2022 18:00 | 1043                                 | 1044    | 1177                                       | 1179    |
| 11/30/2022 19:00 | 1043                                 | 1044    | 1177                                       | 1179    |
| 11/30/2022 20:00 | 1043                                 | 1043    | 1179                                       | 1181    |
| 11/30/2022 21:00 | 1043                                 | 1044    | 1181                                       | 1183    |
| 11/30/2022 22:00 | 1044                                 | 1044    | 1183                                       | 1184    |
| 11/30/2022 23:00 | 1044                                 | 1044    | 1181                                       | 1184    |