



825 Rice Street
Saint Paul, MN 55117

May 11, 2018

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

SUBJECT: Xcel Energy Gas Heating Values Report

Dear Mr. Nitschke:

Enclosed with this letter are Xcel Energy's natural gas heating value reports for April 2018 as required by N.D. Admin. Code 69-09-01-02, part 2.

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

Sincerely,

A handwritten signature in blue ink, appearing to read 'Lisa Kallberg'.

Lisa Kallberg
Principal Consultant Gas Standards
Xcel Energy

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

| Date/Time | Viking Gas Transmission (Fargo) | | Williston Basin Interstate (Mapleton) | |
|----------------|------------------------------------|---------|--|---------|
| | Min BTU | Max BTU | Min BTU | Max BTU |
| 4/1/2018 0:00 | 1031 | 1031 | 1168 | 1169 |
| 4/1/2018 1:00 | 1030 | 1031 | 1167 | 1168 |
| 4/1/2018 2:00 | 1030 | 1030 | 1166 | 1167 |
| 4/1/2018 3:00 | 1030 | 1030 | 1166 | 1167 |
| 4/1/2018 4:00 | 1030 | 1030 | 1166 | 1167 |
| 4/1/2018 5:00 | 1030 | 1030 | 1166 | 1168 |
| 4/1/2018 6:00 | 1030 | 1030 | 1168 | 1170 |
| 4/1/2018 7:00 | 1030 | 1030 | 1170 | 1171 |
| 4/1/2018 8:00 | 1030 | 1030 | 1171 | 1172 |
| 4/1/2018 9:00 | 1030 | 1030 | 1172 | 1173 |
| 4/1/2018 10:00 | 1030 | 1030 | 1173 | 1173 |
| 4/1/2018 11:00 | 1030 | 1030 | 1172 | 1173 |
| 4/1/2018 12:00 | 1030 | 1030 | 1170 | 1172 |
| 4/1/2018 13:00 | 1030 | 1030 | 1169 | 1170 |
| 4/1/2018 14:00 | 1030 | 1030 | 1169 | 1170 |
| 4/1/2018 15:00 | 1030 | 1030 | 1170 | 1171 |
| 4/1/2018 16:00 | 1030 | 1030 | 1171 | 1172 |
| 4/1/2018 17:00 | 1030 | 1030 | 1171 | 1172 |
| 4/1/2018 18:00 | 1030 | 1030 | 1171 | 1173 |
| 4/1/2018 19:00 | 1030 | 1030 | 1173 | 1174 |
| 4/1/2018 20:00 | 1030 | 1030 | 1174 | 1175 |
| 4/1/2018 21:00 | 1030 | 1030 | 1173 | 1175 |
| 4/1/2018 22:00 | 1030 | 1030 | 1168 | 1173 |
| 4/1/2018 23:00 | 1030 | 1030 | 1166 | 1168 |
| 4/2/2018 0:00 | 1030 | 1030 | 1167 | 1169 |
| 4/2/2018 1:00 | 1030 | 1030 | 1168 | 1169 |
| 4/2/2018 2:00 | 1030 | 1030 | 1169 | 1171 |
| 4/2/2018 3:00 | 1030 | 1030 | 1171 | 1171 |
| 4/2/2018 4:00 | 1030 | 1030 | 1171 | 1172 |
| 4/2/2018 5:00 | 1030 | 1030 | 1171 | 1172 |
| 4/2/2018 6:00 | 1030 | 1031 | 1171 | 1172 |
| 4/2/2018 7:00 | 1031 | 1031 | 1172 | 1173 |
| 4/2/2018 8:00 | 1031 | 1031 | 1173 | 1175 |
| 4/2/2018 9:00 | 1031 | 1031 | 1175 | 1178 |
| 4/2/2018 10:00 | 1031 | 1031 | 1178 | 1178 |
| 4/2/2018 11:00 | 1031 | 1031 | 1178 | 1178 |
| 4/2/2018 12:00 | 1030 | 1031 | 1178 | 1178 |
| 4/2/2018 13:00 | 1030 | 1030 | 1178 | 1178 |
| 4/2/2018 14:00 | 1030 | 1030 | 1178 | 1179 |
| 4/2/2018 15:00 | 1030 | 1030 | 1178 | 1179 |
| 4/2/2018 16:00 | 1029 | 1030 | 1179 | 1180 |
| 4/2/2018 17:00 | 1029 | 1029 | 1179 | 1180 |
| 4/2/2018 18:00 | 1029 | 1029 | 1179 | 1181 |
| 4/2/2018 19:00 | 1029 | 1029 | 1181 | 1181 |
| 4/2/2018 20:00 | 1029 | 1029 | 1181 | 1182 |
| 4/2/2018 21:00 | 1029 | 1029 | 1182 | 1183 |
| 4/2/2018 22:00 | 1029 | 1029 | 1179 | 1182 |
| 4/2/2018 23:00 | 1029 | 1029 | 1179 | 1180 |
| 4/3/2018 0:00 | 1029 | 1029 | 1179 | 1181 |
| 4/3/2018 1:00 | 1029 | 1029 | 1178 | 1181 |
| 4/3/2018 2:00 | 1029 | 1029 | 1177 | 1178 |
| 4/3/2018 3:00 | 1029 | 1029 | 1177 | 1178 |
| 4/3/2018 4:00 | 1029 | 1029 | 1177 | 1179 |
| 4/3/2018 5:00 | 1029 | 1029 | 1176 | 1178 |
| 4/3/2018 6:00 | 1029 | 1029 | 1176 | 1176 |
| 4/3/2018 7:00 | 1029 | 1029 | 1175 | 1176 |
| 4/3/2018 8:00 | 1029 | 1029 | 1175 | 1176 |
| 4/3/2018 9:00 | 1029 | 1029 | 1176 | 1178 |
| 4/3/2018 10:00 | 1029 | 1029 | 1178 | 1178 |
| 4/3/2018 11:00 | 1029 | 1029 | 1178 | 1179 |
| 4/3/2018 12:00 | 1029 | 1029 | 1178 | 1179 |
| 4/3/2018 13:00 | 1029 | 1029 | 1177 | 1178 |
| 4/3/2018 14:00 | 1029 | 1029 | 1177 | 1177 |
| 4/3/2018 15:00 | 1029 | 1029 | 1177 | 1178 |
| 4/3/2018 16:00 | 1029 | 1029 | 1177 | 1178 |
| 4/3/2018 17:00 | 1029 | 1029 | 1178 | 1179 |
| 4/3/2018 18:00 | 1029 | 1029 | 1178 | 1180 |

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

| Date/Time | Viking Gas Transmission (Fargo) | | Williston Basin Interstate (Mapleton) | |
|----------------|------------------------------------|---------|--|---------|
| | Min BTU | Max BTU | Min BTU | Max BTU |
| 4/3/2018 19:00 | 1029 | 1029 | 1180 | 1180 |
| 4/3/2018 20:00 | 1029 | 1029 | 1180 | 1180 |
| 4/3/2018 21:00 | 1029 | 1029 | 1180 | 1183 |
| 4/3/2018 22:00 | 1029 | 1029 | 1174 | 1181 |
| 4/3/2018 23:00 | 1028 | 1029 | 1174 | 1175 |
| 4/4/2018 0:00 | 1028 | 1028 | 1175 | 1176 |
| 4/4/2018 1:00 | 1028 | 1028 | 1176 | 1177 |
| 4/4/2018 2:00 | 1027 | 1028 | 1175 | 1176 |
| 4/4/2018 3:00 | 1027 | 1027 | 1175 | 1175 |
| 4/4/2018 4:00 | 1027 | 1027 | 1175 | 1176 |
| 4/4/2018 5:00 | 1027 | 1027 | 1175 | 1176 |
| 4/4/2018 6:00 | 1027 | 1027 | 1176 | 1178 |
| 4/4/2018 7:00 | 1027 | 1027 | 1178 | 1179 |
| 4/4/2018 8:00 | 1027 | 1027 | 1179 | 1179 |
| 4/4/2018 9:00 | 1027 | 1027 | 1178 | 1179 |
| 4/4/2018 10:00 | 1027 | 1027 | 1179 | 1180 |
| 4/4/2018 11:00 | 1027 | 1028 | 1180 | 1185 |
| 4/4/2018 12:00 | 1028 | 1028 | 1180 | 1185 |
| 4/4/2018 13:00 | 1028 | 1028 | 1180 | 1185 |
| 4/4/2018 14:00 | 1028 | 1028 | 1184 | 1186 |
| 4/4/2018 15:00 | 1028 | 1028 | 1186 | 1188 |
| 4/4/2018 16:00 | 1028 | 1028 | 1188 | 1188 |
| 4/4/2018 17:00 | 1028 | 1028 | 1188 | 1188 |
| 4/4/2018 18:00 | 1028 | 1028 | 1187 | 1188 |
| 4/4/2018 19:00 | 1028 | 1028 | 1188 | 1189 |
| 4/4/2018 20:00 | 1028 | 1028 | 1189 | 1190 |
| 4/4/2018 21:00 | 1028 | 1028 | 1190 | 1194 |
| 4/4/2018 22:00 | 1028 | 1028 | 1191 | 1197 |
| 4/4/2018 23:00 | 1028 | 1028 | 1186 | 1191 |
| 4/5/2018 0:00 | 1028 | 1028 | 1183 | 1186 |
| 4/5/2018 1:00 | 1028 | 1028 | 1183 | 1184 |
| 4/5/2018 2:00 | 1028 | 1028 | 1184 | 1186 |
| 4/5/2018 3:00 | 1028 | 1028 | 1185 | 1186 |
| 4/5/2018 4:00 | 1028 | 1029 | 1185 | 1187 |
| 4/5/2018 5:00 | 1029 | 1029 | 1187 | 1188 |
| 4/5/2018 6:00 | 1029 | 1030 | 1188 | 1189 |
| 4/5/2018 7:00 | 1030 | 1030 | 1189 | 1190 |
| 4/5/2018 8:00 | 1030 | 1031 | 1190 | 1191 |
| 4/5/2018 9:00 | 1031 | 1031 | 1191 | 1192 |
| 4/5/2018 10:00 | 1031 | 1031 | 1192 | 1195 |
| 4/5/2018 11:00 | 1031 | 1031 | 1195 | 1196 |
| 4/5/2018 12:00 | 1031 | 1031 | 1194 | 1195 |
| 4/5/2018 13:00 | 1031 | 1031 | 1194 | 1194 |
| 4/5/2018 14:00 | 1030 | 1031 | 1194 | 1195 |
| 4/5/2018 15:00 | 1030 | 1031 | 1194 | 1195 |
| 4/5/2018 16:00 | 1030 | 1031 | 1194 | 1195 |
| 4/5/2018 17:00 | 1030 | 1030 | 1193 | 1194 |
| 4/5/2018 18:00 | 1030 | 1030 | 1193 | 1195 |
| 4/5/2018 19:00 | 1030 | 1030 | 1195 | 1197 |
| 4/5/2018 20:00 | 1030 | 1030 | 1196 | 1197 |
| 4/5/2018 21:00 | 1030 | 1030 | 1197 | 1198 |
| 4/5/2018 22:00 | 1030 | 1030 | 1196 | 1198 |
| 4/5/2018 23:00 | 1030 | 1030 | 1194 | 1196 |
| 4/6/2018 0:00 | 1030 | 1030 | 1193 | 1195 |
| 4/6/2018 1:00 | 1030 | 1030 | 1193 | 1193 |
| 4/6/2018 2:00 | 1029 | 1030 | 1191 | 1193 |
| 4/6/2018 3:00 | 1029 | 1029 | 1192 | 1193 |
| 4/6/2018 4:00 | 1029 | 1029 | 1193 | 1193 |
| 4/6/2018 5:00 | 1029 | 1029 | 1192 | 1193 |
| 4/6/2018 6:00 | 1029 | 1029 | 1193 | 1193 |
| 4/6/2018 7:00 | 1029 | 1029 | 1193 | 1194 |
| 4/6/2018 8:00 | 1029 | 1029 | 1193 | 1194 |
| 4/6/2018 9:00 | 1029 | 1029 | 1194 | 1195 |
| 4/6/2018 10:00 | 1029 | 1029 | 1195 | 1197 |
| 4/6/2018 11:00 | 1029 | 1029 | 1195 | 1197 |
| 4/6/2018 12:00 | 1029 | 1029 | 1195 | 1195 |
| 4/6/2018 13:00 | 1029 | 1030 | 1193 | 1195 |
| 4/6/2018 14:00 | 1030 | 1030 | 1193 | 1193 |
| 4/6/2018 15:00 | 1030 | 1030 | 1192 | 1193 |
| 4/6/2018 16:00 | 1030 | 1030 | 1190 | 1192 |
| 4/6/2018 17:00 | 1030 | 1030 | 1192 | 1194 |
| 4/6/2018 18:00 | 1030 | 1030 | 1192 | 1194 |
| 4/6/2018 19:00 | 1030 | 1030 | 1190 | 1192 |
| 4/6/2018 20:00 | 1030 | 1030 | 1191 | 1192 |
| 4/6/2018 21:00 | 1030 | 1030 | 1191 | 1192 |

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

| Date/Time | Viking Gas Transmission (Fargo) | | Williston Basin Interstate (Mapleton) | |
|----------------|------------------------------------|---------|--|---------|
| | Min BTU | Max BTU | Min BTU | Max BTU |
| 4/6/2018 22:00 | 1030 | 1030 | 1190 | 1192 |
| 4/6/2018 23:00 | 1030 | 1030 | 1188 | 1190 |
| 4/7/2018 0:00 | 1030 | 1030 | 1186 | 1188 |
| 4/7/2018 1:00 | 1030 | 1030 | 1187 | 1187 |
| 4/7/2018 2:00 | 1030 | 1030 | 1187 | 1188 |
| 4/7/2018 3:00 | 1030 | 1031 | 1188 | 1188 |
| 4/7/2018 4:00 | 1031 | 1031 | 1188 | 1188 |
| 4/7/2018 5:00 | 1031 | 1031 | 1187 | 1188 |
| 4/7/2018 6:00 | 1031 | 1031 | 1187 | 1188 |
| 4/7/2018 7:00 | 1031 | 1031 | 1187 | 1189 |
| 4/7/2018 8:00 | 1031 | 1031 | 1189 | 1192 |
| 4/7/2018 9:00 | 1031 | 1031 | 1192 | 1194 |
| 4/7/2018 10:00 | 1031 | 1031 | 1192 | 1194 |
| 4/7/2018 11:00 | 1030 | 1031 | 1192 | 1193 |
| 4/7/2018 12:00 | 1030 | 1030 | 1192 | 1196 |
| 4/7/2018 13:00 | 1030 | 1030 | 1190 | 1196 |
| 4/7/2018 14:00 | 1030 | 1030 | 1188 | 1190 |
| 4/7/2018 15:00 | 1030 | 1030 | 1185 | 1188 |
| 4/7/2018 16:00 | 1030 | 1030 | 1184 | 1185 |
| 4/7/2018 17:00 | 1030 | 1030 | 1184 | 1185 |
| 4/7/2018 18:00 | 1030 | 1030 | 1183 | 1185 |
| 4/7/2018 19:00 | 1030 | 1030 | 1183 | 1183 |
| 4/7/2018 20:00 | 1030 | 1030 | 1183 | 1183 |
| 4/7/2018 21:00 | 1030 | 1030 | 1182 | 1183 |
| 4/7/2018 22:00 | 1030 | 1030 | 1178 | 1182 |
| 4/7/2018 23:00 | 1030 | 1030 | 1173 | 1178 |
| 4/8/2018 0:00 | 1030 | 1030 | 1172 | 1173 |
| 4/8/2018 1:00 | 1030 | 1030 | 1172 | 1173 |
| 4/8/2018 2:00 | 1030 | 1031 | 1172 | 1173 |
| 4/8/2018 3:00 | 1031 | 1031 | 1170 | 1172 |
| 4/8/2018 4:00 | 1031 | 1031 | 1170 | 1172 |
| 4/8/2018 5:00 | 1031 | 1032 | 1171 | 1173 |
| 4/8/2018 6:00 | 1032 | 1032 | 1173 | 1175 |
| 4/8/2018 7:00 | 1032 | 1032 | 1175 | 1177 |
| 4/8/2018 8:00 | 1032 | 1032 | 1177 | 1179 |
| 4/8/2018 9:00 | 1032 | 1032 | 1179 | 1181 |
| 4/8/2018 10:00 | 1031 | 1032 | 1181 | 1182 |
| 4/8/2018 11:00 | 1031 | 1031 | 1182 | 1184 |
| 4/8/2018 12:00 | 1030 | 1031 | 1183 | 1184 |
| 4/8/2018 13:00 | 1030 | 1030 | 1183 | 1184 |
| 4/8/2018 14:00 | 1030 | 1030 | 1184 | 1185 |
| 4/8/2018 15:00 | 1029 | 1030 | 1184 | 1185 |
| 4/8/2018 16:00 | 1029 | 1029 | 1184 | 1185 |
| 4/8/2018 17:00 | 1029 | 1029 | 1184 | 1185 |
| 4/8/2018 18:00 | 1029 | 1029 | 1184 | 1186 |
| 4/8/2018 19:00 | 1029 | 1029 | 1183 | 1186 |
| 4/8/2018 20:00 | 1029 | 1029 | 1182 | 1183 |
| 4/8/2018 21:00 | 1029 | 1030 | 1182 | 1183 |
| 4/8/2018 22:00 | 1030 | 1030 | 1182 | 1183 |
| 4/8/2018 23:00 | 1030 | 1030 | 1182 | 1183 |
| 4/9/2018 0:00 | 1030 | 1031 | 1182 | 1182 |
| 4/9/2018 1:00 | 1031 | 1031 | 1182 | 1182 |
| 4/9/2018 2:00 | 1031 | 1031 | 1182 | 1182 |
| 4/9/2018 3:00 | 1031 | 1031 | 1181 | 1182 |
| 4/9/2018 4:00 | 1031 | 1031 | 1181 | 1181 |
| 4/9/2018 5:00 | 1031 | 1031 | 1181 | 1183 |
| 4/9/2018 6:00 | 1031 | 1031 | 1183 | 1184 |
| 4/9/2018 7:00 | 1031 | 1031 | 1184 | 1185 |
| 4/9/2018 8:00 | 1031 | 1031 | 1185 | 1186 |
| 4/9/2018 9:00 | 1031 | 1031 | 1185 | 1188 |
| 4/9/2018 10:00 | 1031 | 1031 | 1188 | 1189 |
| 4/9/2018 11:00 | 1031 | 1031 | 1188 | 1189 |
| 4/9/2018 12:00 | 1031 | 1031 | 1187 | 1188 |
| 4/9/2018 13:00 | 1031 | 1031 | 1187 | 1187 |
| 4/9/2018 14:00 | 1030 | 1031 | 1187 | 1187 |
| 4/9/2018 15:00 | 1030 | 1030 | 1187 | 1187 |
| 4/9/2018 16:00 | 1030 | 1030 | 1187 | 1187 |
| 4/9/2018 17:00 | 1030 | 1030 | 1187 | 1188 |
| 4/9/2018 18:00 | 1030 | 1030 | 1187 | 1190 |
| 4/9/2018 19:00 | 1030 | 1031 | 1189 | 1190 |
| 4/9/2018 20:00 | 1031 | 1031 | 1189 | 1189 |
| 4/9/2018 21:00 | 1031 | 1031 | 1189 | 1190 |
| 4/9/2018 22:00 | 1031 | 1031 | 1188 | 1190 |
| 4/9/2018 23:00 | 1031 | 1031 | 1187 | 1189 |
| 4/10/2018 0:00 | 1031 | 1031 | 1189 | 1194 |

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

| Date/Time | Viking Gas Transmission (Fargo) | | Williston Basin Interstate (Mapleton) | |
|-----------------|------------------------------------|---------|--|---------|
| | Min BTU | Max BTU | Min BTU | Max BTU |
| 4/10/2018 1:00 | 1031 | 1031 | 1191 | 1194 |
| 4/10/2018 2:00 | 1031 | 1031 | 1191 | 1193 |
| 4/10/2018 3:00 | 1031 | 1031 | 1192 | 1193 |
| 4/10/2018 4:00 | 1031 | 1031 | 1193 | 1194 |
| 4/10/2018 5:00 | 1031 | 1031 | 1193 | 1194 |
| 4/10/2018 6:00 | 1031 | 1031 | 1194 | 1195 |
| 4/10/2018 7:00 | 1031 | 1031 | 1195 | 1197 |
| 4/10/2018 8:00 | 1031 | 1031 | 1197 | 1198 |
| 4/10/2018 9:00 | 1031 | 1031 | 1198 | 1198 |
| 4/10/2018 10:00 | 1030 | 1031 | 1198 | 1198 |
| 4/10/2018 11:00 | 1030 | 1030 | 1198 | 1198 |
| 4/10/2018 12:00 | 1030 | 1030 | 1198 | 1198 |
| 4/10/2018 13:00 | 1030 | 1030 | 1197 | 1198 |
| 4/10/2018 14:00 | 1030 | 1030 | 1197 | 1198 |
| 4/10/2018 15:00 | 1030 | 1030 | 1197 | 1198 |
| 4/10/2018 16:00 | 1030 | 1030 | 1197 | 1198 |
| 4/10/2018 17:00 | 1030 | 1030 | 1198 | 1198 |
| 4/10/2018 18:00 | 1030 | 1030 | 1198 | 1198 |
| 4/10/2018 19:00 | 1030 | 1030 | 1197 | 1198 |
| 4/10/2018 20:00 | 1030 | 1031 | 1197 | 1198 |
| 4/10/2018 21:00 | 1031 | 1031 | 1198 | 1198 |
| 4/10/2018 22:00 | 1030 | 1031 | 1198 | 1198 |
| 4/10/2018 23:00 | 1030 | 1030 | 1197 | 1198 |
| 4/11/2018 0:00 | 1030 | 1030 | 1198 | 1199 |
| 4/11/2018 1:00 | 1030 | 1030 | 1198 | 1199 |
| 4/11/2018 2:00 | 1029 | 1030 | 1197 | 1198 |
| 4/11/2018 3:00 | 1029 | 1030 | 1197 | 1198 |
| 4/11/2018 4:00 | 1030 | 1030 | 1197 | 1198 |
| 4/11/2018 5:00 | 1029 | 1030 | 1198 | 1199 |
| 4/11/2018 6:00 | 1029 | 1029 | 1197 | 1198 |
| 4/11/2018 7:00 | 1029 | 1029 | 1198 | 1199 |
| 4/11/2018 8:00 | 1029 | 1030 | 1199 | 1199 |
| 4/11/2018 9:00 | 1030 | 1030 | 1199 | 1199 |
| 4/11/2018 10:00 | 1030 | 1030 | 1199 | 1200 |
| 4/11/2018 11:00 | 1030 | 1030 | 1199 | 1200 |
| 4/11/2018 12:00 | 1030 | 1030 | 1200 | 1200 |
| 4/11/2018 13:00 | 1030 | 1031 | 1200 | 1200 |
| 4/11/2018 14:00 | 1031 | 1032 | 1200 | 1200 |
| 4/11/2018 15:00 | 1032 | 1032 | 1199 | 1200 |
| 4/11/2018 16:00 | 1032 | 1032 | 1199 | 1199 |
| 4/11/2018 17:00 | 1032 | 1032 | 1199 | 1199 |
| 4/11/2018 18:00 | 1031 | 1032 | 1199 | 1200 |
| 4/11/2018 19:00 | 1031 | 1031 | 1200 | 1200 |
| 4/11/2018 20:00 | 1031 | 1031 | 1199 | 1200 |
| 4/11/2018 21:00 | 1031 | 1031 | 1200 | 1200 |
| 4/11/2018 22:00 | 1031 | 1031 | 1200 | 1200 |
| 4/11/2018 23:00 | 1031 | 1031 | 1200 | 1200 |
| 4/12/2018 0:00 | 1031 | 1031 | 1200 | 1200 |
| 4/12/2018 1:00 | 1031 | 1031 | 1200 | 1200 |
| 4/12/2018 2:00 | 1031 | 1031 | 1200 | 1200 |
| 4/12/2018 3:00 | 1031 | 1031 | 1200 | 1200 |
| 4/12/2018 4:00 | 1030 | 1031 | 1200 | 1200 |
| 4/12/2018 5:00 | 1030 | 1030 | 1200 | 1200 |
| 4/12/2018 6:00 | 1030 | 1030 | 1200 | 1200 |
| 4/12/2018 7:00 | 1030 | 1030 | 1200 | 1200 |
| 4/12/2018 8:00 | 1030 | 1030 | 1199 | 1200 |
| 4/12/2018 9:00 | 1030 | 1030 | 1199 | 1199 |
| 4/12/2018 10:00 | 1030 | 1030 | 1198 | 1199 |
| 4/12/2018 11:00 | 1030 | 1030 | 1198 | 1199 |
| 4/12/2018 12:00 | 1030 | 1031 | 1198 | 1199 |
| 4/12/2018 13:00 | 1031 | 1031 | 1198 | 1199 |
| 4/12/2018 14:00 | 1031 | 1031 | 1198 | 1198 |
| 4/12/2018 15:00 | 1031 | 1031 | 1197 | 1198 |
| 4/12/2018 16:00 | 1031 | 1031 | 1197 | 1198 |
| 4/12/2018 17:00 | 1031 | 1031 | 1197 | 1198 |
| 4/12/2018 18:00 | 1031 | 1031 | 1197 | 1198 |
| 4/12/2018 19:00 | 1031 | 1031 | 1196 | 1198 |
| 4/12/2018 20:00 | 1031 | 1031 | 1196 | 1197 |
| 4/12/2018 21:00 | 1031 | 1031 | 1197 | 1197 |
| 4/12/2018 22:00 | 1030 | 1031 | 1197 | 1197 |
| 4/12/2018 23:00 | 1030 | 1030 | 1197 | 1198 |
| 4/13/2018 0:00 | 1030 | 1030 | 1198 | 1198 |
| 4/13/2018 1:00 | 1029 | 1030 | 1197 | 1198 |
| 4/13/2018 2:00 | 1028 | 1029 | 1197 | 1197 |
| 4/13/2018 3:00 | 1028 | 1028 | 1196 | 1197 |

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

| Date/Time | Viking Gas Transmission (Fargo) | | Williston Basin Interstate (Mapleton) | |
|-----------------|------------------------------------|---------|--|---------|
| | Min BTU | Max BTU | Min BTU | Max BTU |
| 4/13/2018 4:00 | 1028 | 1028 | 1195 | 1196 |
| 4/13/2018 5:00 | 1028 | 1029 | 1196 | 1198 |
| 4/13/2018 6:00 | 1029 | 1029 | 1198 | 1199 |
| 4/13/2018 7:00 | 1029 | 1029 | 1199 | 1200 |
| 4/13/2018 8:00 | 1029 | 1029 | 1200 | 1200 |
| 4/13/2018 9:00 | 1029 | 1029 | 1200 | 1200 |
| 4/13/2018 10:00 | 1029 | 1029 | 1199 | 1200 |
| 4/13/2018 11:00 | 1029 | 1029 | 1197 | 1199 |
| 4/13/2018 12:00 | 1029 | 1029 | 1197 | 1197 |
| 4/13/2018 13:00 | 1029 | 1029 | 1197 | 1197 |
| 4/13/2018 14:00 | 1029 | 1029 | 1196 | 1197 |
| 4/13/2018 15:00 | 1029 | 1029 | 1196 | 1196 |
| 4/13/2018 16:00 | 1029 | 1029 | 1196 | 1197 |
| 4/13/2018 17:00 | 1029 | 1029 | 1197 | 1197 |
| 4/13/2018 18:00 | 1029 | 1029 | 1197 | 1197 |
| 4/13/2018 19:00 | 1029 | 1029 | 1197 | 1197 |
| 4/13/2018 20:00 | 1029 | 1029 | 1197 | 1197 |
| 4/13/2018 21:00 | 1029 | 1029 | 1196 | 1197 |
| 4/13/2018 22:00 | 1029 | 1029 | 1196 | 1196 |
| 4/13/2018 23:00 | 1029 | 1029 | 1195 | 1196 |
| 4/14/2018 0:00 | 1029 | 1029 | 1195 | 1196 |
| 4/14/2018 1:00 | 1029 | 1029 | 1195 | 1196 |
| 4/14/2018 2:00 | 1029 | 1029 | 1194 | 1195 |
| 4/14/2018 3:00 | 1029 | 1029 | 1194 | 1196 |
| 4/14/2018 4:00 | 1029 | 1029 | 1195 | 1196 |
| 4/14/2018 5:00 | 1029 | 1029 | 1195 | 1195 |
| 4/14/2018 6:00 | 1029 | 1029 | 1195 | 1196 |
| 4/14/2018 7:00 | 1029 | 1030 | 1195 | 1196 |
| 4/14/2018 8:00 | 1030 | 1030 | 1196 | 1196 |
| 4/14/2018 9:00 | 1030 | 1030 | 1196 | 1197 |
| 4/14/2018 10:00 | 1030 | 1031 | 1195 | 1196 |
| 4/14/2018 11:00 | 1031 | 1031 | 1195 | 1196 |
| 4/14/2018 12:00 | 1031 | 1031 | 1196 | 1197 |
| 4/14/2018 13:00 | 1030 | 1031 | 1195 | 1197 |
| 4/14/2018 14:00 | 1030 | 1030 | 1195 | 1197 |
| 4/14/2018 15:00 | 1030 | 1030 | 1195 | 1197 |
| 4/14/2018 16:00 | 1030 | 1030 | 1193 | 1196 |
| 4/14/2018 17:00 | 1030 | 1030 | 1194 | 1194 |
| 4/14/2018 18:00 | 1029 | 1030 | 1193 | 1194 |
| 4/14/2018 19:00 | 1029 | 1029 | 1193 | 1194 |
| 4/14/2018 20:00 | 1029 | 1029 | 1193 | 1194 |
| 4/14/2018 21:00 | 1029 | 1030 | 1194 | 1194 |
| 4/14/2018 22:00 | 1029 | 1030 | 1193 | 1194 |
| 4/14/2018 23:00 | 1029 | 1029 | 1193 | 1193 |
| 4/15/2018 0:00 | 1029 | 1029 | 1192 | 1193 |
| 4/15/2018 1:00 | 1029 | 1029 | 1192 | 1193 |
| 4/15/2018 2:00 | 1028 | 1029 | 1193 | 1193 |
| 4/15/2018 3:00 | 1028 | 1028 | 1193 | 1194 |
| 4/15/2018 4:00 | 1027 | 1028 | 1193 | 1194 |
| 4/15/2018 5:00 | 1027 | 1027 | 1193 | 1194 |
| 4/15/2018 6:00 | 1027 | 1027 | 1194 | 1195 |
| 4/15/2018 7:00 | 1027 | 1027 | 1195 | 1197 |
| 4/15/2018 8:00 | 1027 | 1027 | 1197 | 1197 |
| 4/15/2018 9:00 | 1027 | 1027 | 1196 | 1197 |
| 4/15/2018 10:00 | 1027 | 1027 | 1196 | 1196 |
| 4/15/2018 11:00 | 1027 | 1027 | 1196 | 1196 |
| 4/15/2018 12:00 | 1027 | 1027 | 1193 | 1196 |
| 4/15/2018 13:00 | 1026 | 1027 | 1193 | 1193 |
| 4/15/2018 14:00 | 1026 | 1026 | 1192 | 1193 |
| 4/15/2018 15:00 | 1026 | 1026 | 1193 | 1195 |
| 4/15/2018 16:00 | 1026 | 1026 | 1195 | 1199 |
| 4/15/2018 17:00 | 1026 | 1026 | 1199 | 1200 |
| 4/15/2018 18:00 | 1026 | 1026 | 1200 | 1200 |
| 4/15/2018 19:00 | 1026 | 1026 | 1200 | 1200 |
| 4/15/2018 20:00 | 1026 | 1026 | 1199 | 1200 |
| 4/15/2018 21:00 | 1026 | 1026 | 1199 | 1200 |
| 4/15/2018 22:00 | 1026 | 1026 | 1199 | 1200 |
| 4/15/2018 23:00 | 1026 | 1026 | 1199 | 1200 |
| 4/16/2018 0:00 | 1026 | 1026 | 1198 | 1200 |
| 4/16/2018 1:00 | 1025 | 1026 | 1198 | 1199 |
| 4/16/2018 2:00 | 1025 | 1025 | 1197 | 1198 |
| 4/16/2018 3:00 | 1025 | 1025 | 1197 | 1198 |
| 4/16/2018 4:00 | 1025 | 1025 | 1198 | 1198 |
| 4/16/2018 5:00 | 1025 | 1025 | 1197 | 1198 |
| 4/16/2018 6:00 | 1025 | 1026 | 1196 | 1197 |

Xcel Energy
Natural Gas Utility - State of North Dakota
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| Date/Time | Viking Gas Transmission (Fargo) | | Williston Basin Interstate (Mapleton) | |
|-----------------|------------------------------------|---------|--|---------|
| | Min BTU | Max BTU | Min BTU | Max BTU |
| 4/16/2018 7:00 | 1026 | 1027 | 1196 | 1197 |
| 4/16/2018 8:00 | 1027 | 1027 | 1196 | 1197 |
| 4/16/2018 9:00 | 1027 | 1027 | 1195 | 1196 |
| 4/16/2018 10:00 | 1027 | 1027 | 1195 | 1196 |
| 4/16/2018 11:00 | 1027 | 1027 | 1195 | 1195 |
| 4/16/2018 12:00 | 1027 | 1027 | 1195 | 1196 |
| 4/16/2018 13:00 | 1027 | 1027 | 1194 | 1196 |
| 4/16/2018 14:00 | 1026 | 1027 | 1196 | 1197 |
| 4/16/2018 15:00 | 1026 | 1026 | 1194 | 1196 |
| 4/16/2018 16:00 | 1026 | 1026 | 1193 | 1195 |
| 4/16/2018 17:00 | 1026 | 1026 | 1194 | 1195 |
| 4/16/2018 18:00 | 1026 | 1026 | 1194 | 1195 |
| 4/16/2018 19:00 | 1026 | 1026 | 1194 | 1195 |
| 4/16/2018 20:00 | 1026 | 1026 | 1195 | 1195 |
| 4/16/2018 21:00 | 1026 | 1026 | 1195 | 1196 |
| 4/16/2018 22:00 | 1026 | 1026 | 1195 | 1195 |
| 4/16/2018 23:00 | 1026 | 1026 | 1195 | 1195 |
| 4/17/2018 0:00 | 1026 | 1026 | 1195 | 1196 |
| 4/17/2018 1:00 | 1026 | 1026 | 1195 | 1196 |
| 4/17/2018 2:00 | 1026 | 1026 | 1195 | 1198 |
| 4/17/2018 3:00 | 1026 | 1026 | 1196 | 1198 |
| 4/17/2018 4:00 | 1026 | 1026 | 1195 | 1196 |
| 4/17/2018 5:00 | 1026 | 1027 | 1196 | 1196 |
| 4/17/2018 6:00 | 1027 | 1027 | 1196 | 1197 |
| 4/17/2018 7:00 | 1027 | 1027 | 1195 | 1197 |
| 4/17/2018 8:00 | 1027 | 1027 | 1195 | 1196 |
| 4/17/2018 9:00 | 1026 | 1027 | 1194 | 1195 |
| 4/17/2018 10:00 | 1026 | 1026 | 1195 | 1195 |
| 4/17/2018 11:00 | 1026 | 1026 | 1195 | 1196 |
| 4/17/2018 12:00 | 1026 | 1026 | 1195 | 1195 |
| 4/17/2018 13:00 | 1026 | 1026 | 1194 | 1196 |
| 4/17/2018 14:00 | 1025 | 1026 | 1195 | 1196 |
| 4/17/2018 15:00 | 1025 | 1025 | 1194 | 1195 |
| 4/17/2018 16:00 | 1025 | 1025 | 1194 | 1195 |
| 4/17/2018 17:00 | 1025 | 1025 | 1193 | 1194 |
| 4/17/2018 18:00 | 1025 | 1025 | 1193 | 1193 |
| 4/17/2018 19:00 | 1025 | 1025 | 1193 | 1193 |
| 4/17/2018 20:00 | 1025 | 1025 | 1193 | 1194 |
| 4/17/2018 21:00 | 1024 | 1025 | 1193 | 1196 |
| 4/17/2018 22:00 | 1024 | 1024 | 1194 | 1196 |
| 4/17/2018 23:00 | 1024 | 1024 | 1194 | 1194 |
| 4/18/2018 0:00 | 1024 | 1024 | 1194 | 1195 |
| 4/18/2018 1:00 | 1024 | 1024 | 1194 | 1195 |
| 4/18/2018 2:00 | 1024 | 1024 | 1194 | 1195 |
| 4/18/2018 3:00 | 1024 | 1025 | 1194 | 1194 |
| 4/18/2018 4:00 | 1025 | 1025 | 1194 | 1195 |
| 4/18/2018 5:00 | 1025 | 1025 | 1195 | 1197 |
| 4/18/2018 6:00 | 1025 | 1025 | 1195 | 1197 |
| 4/18/2018 7:00 | 1025 | 1026 | 1195 | 1195 |
| 4/18/2018 8:00 | 1026 | 1026 | 1190 | 1195 |
| 4/18/2018 9:00 | 1026 | 1026 | 1191 | 1194 |
| 4/18/2018 10:00 | 1026 | 1026 | 1193 | 1195 |
| 4/18/2018 11:00 | 1026 | 1026 | 1195 | 1195 |
| 4/18/2018 12:00 | 1026 | 1026 | 1193 | 1195 |
| 4/18/2018 13:00 | 1026 | 1026 | 1193 | 1194 |
| 4/18/2018 14:00 | 1026 | 1026 | 1194 | 1194 |
| 4/18/2018 15:00 | 1026 | 1026 | 1193 | 1194 |
| 4/18/2018 16:00 | 1026 | 1026 | 1194 | 1196 |
| 4/18/2018 17:00 | 1026 | 1026 | 1196 | 1196 |
| 4/18/2018 18:00 | 1026 | 1026 | 1195 | 1196 |
| 4/18/2018 19:00 | 1026 | 1026 | 1194 | 1195 |
| 4/18/2018 20:00 | 1025 | 1026 | 1194 | 1195 |
| 4/18/2018 21:00 | 1025 | 1025 | 1195 | 1195 |
| 4/18/2018 22:00 | 1025 | 1025 | 1195 | 1195 |
| 4/18/2018 23:00 | 1025 | 1025 | 1195 | 1197 |
| 4/19/2018 0:00 | 1025 | 1025 | 1197 | 1197 |
| 4/19/2018 1:00 | 1025 | 1025 | 1197 | 1199 |
| 4/19/2018 2:00 | 1025 | 1025 | 1197 | 1199 |
| 4/19/2018 3:00 | 1025 | 1025 | 1198 | 1199 |
| 4/19/2018 4:00 | 1025 | 1025 | 1194 | 1199 |
| 4/19/2018 5:00 | 1025 | 1025 | 1194 | 1194 |
| 4/19/2018 6:00 | 1025 | 1025 | 1194 | 1195 |
| 4/19/2018 7:00 | 1024 | 1025 | 1195 | 1195 |
| 4/19/2018 8:00 | 1024 | 1024 | 1195 | 1196 |
| 4/19/2018 9:00 | 1024 | 1024 | 1195 | 1196 |

Xcel Energy
Natural Gas Utility - State of North Dakota
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| Date/Time | Viking Gas Transmission (Fargo) | | Williston Basin Interstate (Mapleton) | |
|-----------------|------------------------------------|---------|--|---------|
| | Min BTU | Max BTU | Min BTU | Max BTU |
| 4/19/2018 10:00 | 1024 | 1024 | 1195 | 1195 |
| 4/19/2018 11:00 | 1024 | 1025 | 1195 | 1195 |
| 4/19/2018 12:00 | 1025 | 1025 | 1195 | 1195 |
| 4/19/2018 13:00 | 1025 | 1025 | 1194 | 1195 |
| 4/19/2018 14:00 | 1025 | 1026 | 1194 | 1194 |
| 4/19/2018 15:00 | 1026 | 1027 | 1194 | 1194 |
| 4/19/2018 16:00 | 1027 | 1027 | 1194 | 1195 |
| 4/19/2018 17:00 | 1027 | 1027 | 1194 | 1195 |
| 4/19/2018 18:00 | 1027 | 1027 | 1195 | 1195 |
| 4/19/2018 19:00 | 1027 | 1027 | 1195 | 1197 |
| 4/19/2018 20:00 | 1027 | 1027 | 1197 | 1197 |
| 4/19/2018 21:00 | 1026 | 1027 | 1196 | 1197 |
| 4/19/2018 22:00 | 1026 | 1026 | 1196 | 1197 |
| 4/19/2018 23:00 | 1026 | 1027 | 1196 | 1196 |
| 4/20/2018 0:00 | 1027 | 1027 | 1195 | 1197 |
| 4/20/2018 1:00 | 1027 | 1027 | 1196 | 1197 |
| 4/20/2018 2:00 | 1027 | 1027 | 1196 | 1196 |
| 4/20/2018 3:00 | 1027 | 1027 | 1196 | 1196 |
| 4/20/2018 4:00 | 1027 | 1027 | 1196 | 1196 |
| 4/20/2018 5:00 | 1027 | 1027 | 1196 | 1198 |
| 4/20/2018 6:00 | 1027 | 1027 | 1197 | 1197 |
| 4/20/2018 7:00 | 1027 | 1027 | 1195 | 1197 |
| 4/20/2018 8:00 | 1027 | 1027 | 1195 | 1197 |
| 4/20/2018 9:00 | 1027 | 1027 | 1197 | 1198 |
| 4/20/2018 10:00 | 1027 | 1027 | 1197 | 1198 |
| 4/20/2018 11:00 | 1027 | 1027 | 1196 | 1197 |
| 4/20/2018 12:00 | 1027 | 1027 | 1196 | 1197 |
| 4/20/2018 13:00 | 1027 | 1027 | 1195 | 1196 |
| 4/20/2018 14:00 | 1027 | 1027 | 1194 | 1195 |
| 4/20/2018 15:00 | 1027 | 1027 | 1194 | 1195 |
| 4/20/2018 16:00 | 1027 | 1027 | 1194 | 1195 |
| 4/20/2018 17:00 | 1027 | 1027 | 1194 | 1195 |
| 4/20/2018 18:00 | 1026 | 1027 | 1194 | 1195 |
| 4/20/2018 19:00 | 1026 | 1026 | 1194 | 1196 |
| 4/20/2018 20:00 | 1026 | 1027 | 1195 | 1197 |
| 4/20/2018 21:00 | 1027 | 1027 | 1197 | 1197 |
| 4/20/2018 22:00 | 1027 | 1027 | 1196 | 1197 |
| 4/20/2018 23:00 | 1027 | 1027 | 1197 | 1197 |
| 4/21/2018 0:00 | 1027 | 1027 | 1196 | 1197 |
| 4/21/2018 1:00 | 1027 | 1028 | 1197 | 1200 |
| 4/21/2018 2:00 | 1027 | 1028 | 1197 | 1200 |
| 4/21/2018 3:00 | 1027 | 1027 | 1196 | 1198 |
| 4/21/2018 4:00 | 1027 | 1027 | 1196 | 1197 |
| 4/21/2018 5:00 | 1027 | 1027 | 1196 | 1197 |
| 4/21/2018 6:00 | 1027 | 1028 | 1196 | 1197 |
| 4/21/2018 7:00 | 1028 | 1028 | 1195 | 1196 |
| 4/21/2018 8:00 | 1028 | 1028 | 1195 | 1197 |
| 4/21/2018 9:00 | 1027 | 1028 | 1196 | 1197 |
| 4/21/2018 10:00 | 1026 | 1027 | 1196 | 1197 |
| 4/21/2018 11:00 | 1026 | 1026 | 1197 | 1197 |
| 4/21/2018 12:00 | 1026 | 1026 | 1196 | 1197 |
| 4/21/2018 13:00 | 1026 | 1026 | 1197 | 1198 |
| 4/21/2018 14:00 | 1026 | 1026 | 1198 | 1198 |
| 4/21/2018 15:00 | 1026 | 1026 | 1198 | 1199 |
| 4/21/2018 16:00 | 1025 | 1026 | 1199 | 1200 |
| 4/21/2018 17:00 | 1025 | 1025 | 1198 | 1199 |
| 4/21/2018 18:00 | 1024 | 1025 | 1198 | 1199 |
| 4/21/2018 19:00 | 1024 | 1024 | 1198 | 1199 |
| 4/21/2018 20:00 | 1024 | 1024 | 1199 | 1200 |
| 4/21/2018 21:00 | 1024 | 1024 | 1199 | 1200 |
| 4/21/2018 22:00 | 1024 | 1024 | 1199 | 1200 |
| 4/21/2018 23:00 | 1024 | 1024 | 1199 | 1200 |
| 4/22/2018 0:00 | 1024 | 1024 | 1199 | 1200 |
| 4/22/2018 1:00 | 1024 | 1024 | 1197 | 1199 |
| 4/22/2018 2:00 | 1024 | 1024 | 1197 | 1198 |
| 4/22/2018 3:00 | 1024 | 1024 | 1198 | 1199 |
| 4/22/2018 4:00 | 1024 | 1024 | 1199 | 1199 |
| 4/22/2018 5:00 | 1024 | 1024 | 1198 | 1199 |
| 4/22/2018 6:00 | 1024 | 1024 | 1199 | 1199 |
| 4/22/2018 7:00 | 1023 | 1024 | 1199 | 1199 |
| 4/22/2018 8:00 | 1023 | 1024 | 1199 | 1199 |
| 4/22/2018 9:00 | 1024 | 1024 | 1199 | 1199 |
| 4/22/2018 10:00 | 1024 | 1025 | 1199 | 1199 |
| 4/22/2018 11:00 | 1025 | 1025 | 1199 | 1199 |
| 4/22/2018 12:00 | 1025 | 1026 | 1199 | 1199 |

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

| Date/Time | Viking Gas Transmission (Fargo) | | Williston Basin Interstate (Mapleton) | |
|-----------------|------------------------------------|---------|--|---------|
| | Min BTU | Max BTU | Min BTU | Max BTU |
| 4/22/2018 13:00 | 1025 | 1026 | 1198 | 1199 |
| 4/22/2018 14:00 | 1025 | 1025 | 1198 | 1198 |
| 4/22/2018 15:00 | 1025 | 1025 | 1198 | 1199 |
| 4/22/2018 16:00 | 1025 | 1025 | 1199 | 1199 |
| 4/22/2018 17:00 | 1025 | 1025 | 1198 | 1199 |
| 4/22/2018 18:00 | 1024 | 1025 | 1198 | 1200 |
| 4/22/2018 19:00 | 1024 | 1024 | 1199 | 1200 |
| 4/22/2018 20:00 | 1024 | 1024 | 1199 | 1199 |
| 4/22/2018 21:00 | 1024 | 1024 | 1199 | 1199 |
| 4/22/2018 22:00 | 1024 | 1024 | 1198 | 1199 |
| 4/22/2018 23:00 | 1024 | 1024 | 1197 | 1198 |
| 4/23/2018 0:00 | 1024 | 1024 | 1197 | 1198 |
| 4/23/2018 1:00 | 1024 | 1024 | 1198 | 1198 |
| 4/23/2018 2:00 | 1024 | 1024 | 1198 | 1199 |
| 4/23/2018 3:00 | 1024 | 1024 | 1199 | 1200 |
| 4/23/2018 4:00 | 1024 | 1024 | 1198 | 1200 |
| 4/23/2018 5:00 | 1024 | 1024 | 1198 | 1199 |
| 4/23/2018 6:00 | 1024 | 1024 | 1198 | 1199 |
| 4/23/2018 7:00 | 1023 | 1024 | 1198 | 1199 |
| 4/23/2018 8:00 | 1023 | 1024 | 1199 | 1199 |
| 4/23/2018 9:00 | 1024 | 1024 | 1197 | 1199 |
| 4/23/2018 10:00 | 1024 | 1024 | 1197 | 1198 |
| 4/23/2018 11:00 | 1024 | 1025 | 1198 | 1199 |
| 4/23/2018 12:00 | 1025 | 1025 | 1199 | 1200 |
| 4/23/2018 13:00 | 1025 | 1025 | 1200 | 1200 |
| 4/23/2018 14:00 | 1025 | 1025 | 1199 | 1200 |
| 4/23/2018 15:00 | 1025 | 1025 | 1199 | 1200 |
| 4/23/2018 16:00 | 1025 | 1025 | 1198 | 1199 |
| 4/23/2018 17:00 | 1025 | 1025 | 1197 | 1198 |
| 4/23/2018 18:00 | 1025 | 1025 | 1196 | 1198 |
| 4/23/2018 19:00 | 1025 | 1025 | 1192 | 1198 |
| 4/23/2018 20:00 | 1025 | 1025 | 1192 | 1199 |
| 4/23/2018 21:00 | 1025 | 1025 | 1199 | 1200 |
| 4/23/2018 22:00 | 1025 | 1026 | 1199 | 1200 |
| 4/23/2018 23:00 | 1026 | 1026 | 1198 | 1200 |
| 4/24/2018 0:00 | 1026 | 1026 | 1199 | 1200 |
| 4/24/2018 1:00 | 1026 | 1026 | 1199 | 1200 |
| 4/24/2018 2:00 | 1026 | 1026 | 1200 | 1200 |
| 4/24/2018 3:00 | 1026 | 1026 | 1199 | 1200 |
| 4/24/2018 4:00 | 1026 | 1026 | 1199 | 1200 |
| 4/24/2018 5:00 | 1026 | 1026 | 1200 | 1200 |
| 4/24/2018 6:00 | 1026 | 1026 | 1200 | 1200 |
| 4/24/2018 7:00 | 1026 | 1026 | 1200 | 1200 |
| 4/24/2018 8:00 | 1026 | 1027 | 1200 | 1200 |
| 4/24/2018 9:00 | 1027 | 1027 | 1200 | 1200 |
| 4/24/2018 10:00 | 1027 | 1028 | 1200 | 1200 |
| 4/24/2018 11:00 | 1028 | 1028 | 1200 | 1200 |
| 4/24/2018 12:00 | 1027 | 1028 | 1200 | 1200 |
| 4/24/2018 13:00 | 1027 | 1028 | 1200 | 1200 |
| 4/24/2018 14:00 | 1028 | 1028 | 1200 | 1200 |
| 4/24/2018 15:00 | 1028 | 1028 | 1200 | 1200 |
| 4/24/2018 16:00 | 1028 | 1029 | 1200 | 1200 |
| 4/24/2018 17:00 | 1029 | 1029 | 1200 | 1200 |
| 4/24/2018 18:00 | 1029 | 1029 | 1200 | 1200 |
| 4/24/2018 19:00 | 1029 | 1029 | 1200 | 1200 |
| 4/24/2018 20:00 | 1029 | 1029 | 1199 | 1200 |
| 4/24/2018 21:00 | 1029 | 1029 | 1200 | 1200 |
| 4/24/2018 22:00 | 1029 | 1029 | 1200 | 1200 |
| 4/24/2018 23:00 | 1029 | 1029 | 1200 | 1200 |
| 4/25/2018 0:00 | 1029 | 1029 | 1200 | 1200 |
| 4/25/2018 1:00 | 1029 | 1029 | 1199 | 1200 |
| 4/25/2018 2:00 | 1029 | 1029 | 1200 | 1200 |
| 4/25/2018 3:00 | 1029 | 1029 | 1198 | 1200 |
| 4/25/2018 4:00 | 1029 | 1029 | 1198 | 1199 |
| 4/25/2018 5:00 | 1029 | 1029 | 1199 | 1200 |
| 4/25/2018 6:00 | 1029 | 1029 | 1199 | 1200 |
| 4/25/2018 7:00 | 1029 | 1029 | 1199 | 1200 |
| 4/25/2018 8:00 | 1029 | 1029 | 1200 | 1200 |
| 4/25/2018 9:00 | 1029 | 1029 | 1200 | 1200 |
| 4/25/2018 10:00 | 1029 | 1030 | 1200 | 1200 |
| 4/25/2018 11:00 | 1030 | 1030 | 1199 | 1200 |
| 4/25/2018 12:00 | 1030 | 1031 | 1198 | 1200 |
| 4/25/2018 13:00 | 1031 | 1032 | 1198 | 1199 |
| 4/25/2018 14:00 | 1031 | 1032 | 1198 | 1199 |
| 4/25/2018 15:00 | 1031 | 1031 | 1198 | 1199 |

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

| Date/Time | Viking Gas Transmission (Fargo) | | Williston Basin Interstate (Mapleton) | |
|-----------------|------------------------------------|---------|--|---------|
| | Min BTU | Max BTU | Min BTU | Max BTU |
| 4/25/2018 16:00 | 1031 | 1031 | 1196 | 1198 |
| 4/25/2018 17:00 | 1031 | 1031 | 1196 | 1198 |
| 4/25/2018 18:00 | 1031 | 1031 | 1198 | 1198 |
| 4/25/2018 19:00 | 1031 | 1031 | 1198 | 1198 |
| 4/25/2018 20:00 | 1031 | 1031 | 1198 | 1199 |
| 4/25/2018 21:00 | 1031 | 1031 | 1199 | 1199 |
| 4/25/2018 22:00 | 1031 | 1031 | 1199 | 1200 |
| 4/25/2018 23:00 | 1031 | 1031 | 1199 | 1199 |
| 4/26/2018 0:00 | 1031 | 1031 | 1199 | 1199 |
| 4/26/2018 1:00 | 1031 | 1031 | 1199 | 1199 |
| 4/26/2018 2:00 | 1031 | 1031 | 1198 | 1199 |
| 4/26/2018 3:00 | 1030 | 1031 | 1198 | 1198 |
| 4/26/2018 4:00 | 1029 | 1030 | 1198 | 1199 |
| 4/26/2018 5:00 | 1028 | 1029 | 1197 | 1199 |
| 4/26/2018 6:00 | 1028 | 1028 | 1197 | 1199 |
| 4/26/2018 7:00 | 1028 | 1028 | 1198 | 1199 |
| 4/26/2018 8:00 | 1028 | 1028 | 1199 | 1199 |
| 4/26/2018 9:00 | 1027 | 1028 | 1198 | 1199 |
| 4/26/2018 10:00 | 1027 | 1027 | 1198 | 1199 |
| 4/26/2018 11:00 | 1026 | 1027 | 1197 | 1198 |
| 4/26/2018 12:00 | 1026 | 1026 | 1198 | 1199 |
| 4/26/2018 13:00 | 1025 | 1026 | 1198 | 1199 |
| 4/26/2018 14:00 | 1025 | 1025 | 1197 | 1199 |
| 4/26/2018 15:00 | 1025 | 1025 | 1197 | 1198 |
| 4/26/2018 16:00 | 1025 | 1025 | 1197 | 1198 |
| 4/26/2018 17:00 | 1024 | 1025 | 1197 | 1200 |
| 4/26/2018 18:00 | 1024 | 1024 | 1199 | 1200 |
| 4/26/2018 19:00 | 1024 | 1024 | 1198 | 1199 |
| 4/26/2018 20:00 | 1024 | 1024 | 1198 | 1198 |
| 4/26/2018 21:00 | 1024 | 1024 | 1197 | 1198 |
| 4/26/2018 22:00 | 1024 | 1024 | 1197 | 1197 |
| 4/26/2018 23:00 | 1024 | 1024 | 1197 | 1197 |
| 4/27/2018 0:00 | 1024 | 1024 | 1197 | 1198 |
| 4/27/2018 1:00 | 1024 | 1024 | 1196 | 1198 |
| 4/27/2018 2:00 | 1024 | 1025 | 1196 | 1198 |
| 4/27/2018 3:00 | 1025 | 1025 | 1197 | 1198 |
| 4/27/2018 4:00 | 1025 | 1026 | 1195 | 1197 |
| 4/27/2018 5:00 | 1026 | 1026 | 1195 | 1196 |
| 4/27/2018 6:00 | 1026 | 1026 | 1196 | 1196 |
| 4/27/2018 7:00 | 1026 | 1026 | 1196 | 1197 |
| 4/27/2018 8:00 | 1026 | 1026 | 1196 | 1197 |
| 4/27/2018 9:00 | 1026 | 1026 | 1195 | 1196 |
| 4/27/2018 10:00 | 1026 | 1026 | 1196 | 1196 |
| 4/27/2018 11:00 | 1026 | 1026 | 1196 | 1196 |
| 4/27/2018 12:00 | 1026 | 1026 | 1196 | 1196 |
| 4/27/2018 13:00 | 1026 | 1026 | 1195 | 1196 |
| 4/27/2018 14:00 | 1026 | 1026 | 1195 | 1196 |
| 4/27/2018 15:00 | 1026 | 1026 | 1195 | 1196 |
| 4/27/2018 16:00 | 1026 | 1026 | 1195 | 1196 |
| 4/27/2018 17:00 | 1026 | 1026 | 1195 | 1196 |
| 4/27/2018 18:00 | 1026 | 1026 | 1196 | 1196 |
| 4/27/2018 19:00 | 1026 | 1026 | 1194 | 1196 |
| 4/27/2018 20:00 | 1026 | 1026 | 1194 | 1195 |
| 4/27/2018 21:00 | 1026 | 1026 | 1194 | 1195 |
| 4/27/2018 22:00 | 1026 | 1026 | 1194 | 1195 |
| 4/27/2018 23:00 | 1026 | 1026 | 1189 | 1195 |
| 4/28/2018 0:00 | 1026 | 1026 | 1189 | 1194 |
| 4/28/2018 1:00 | 1026 | 1026 | 1194 | 1200 |
| 4/28/2018 2:00 | 1026 | 1026 | 1200 | 1200 |
| 4/28/2018 3:00 | 1026 | 1026 | 1200 | 1200 |
| 4/28/2018 4:00 | 1026 | 1026 | 1200 | 1200 |
| 4/28/2018 5:00 | 1026 | 1027 | 1200 | 1200 |
| 4/28/2018 6:00 | 1027 | 1027 | 1200 | 1200 |
| 4/28/2018 7:00 | 1027 | 1028 | 1199 | 1200 |
| 4/28/2018 8:00 | 1028 | 1028 | 1199 | 1200 |
| 4/28/2018 9:00 | 1028 | 1028 | 1198 | 1199 |
| 4/28/2018 10:00 | 1028 | 1028 | 1198 | 1199 |
| 4/28/2018 11:00 | 1027 | 1028 | 1198 | 1198 |
| 4/28/2018 12:00 | 1027 | 1027 | 1198 | 1199 |
| 4/28/2018 13:00 | 1027 | 1027 | 1197 | 1198 |
| 4/28/2018 14:00 | 1027 | 1028 | 1197 | 1199 |
| 4/28/2018 15:00 | 1028 | 1028 | 1199 | 1199 |
| 4/28/2018 16:00 | 1028 | 1028 | 1198 | 1199 |
| 4/28/2018 17:00 | 1028 | 1028 | 1198 | 1199 |
| 4/28/2018 18:00 | 1028 | 1028 | 1198 | 1199 |

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

| Date/Time | Viking Gas Transmission (Fargo) | | Williston Basin Interstate (Mapleton) | |
|-----------------|------------------------------------|--------------|--|--------------|
| | Min BTU | Max BTU | Min BTU | Max BTU |
| 4/28/2018 19:00 | 1027 | 1028 | 1198 | 1200 |
| 4/28/2018 20:00 | 1026 | 1027 | 1199 | 1200 |
| 4/28/2018 21:00 | 1026 | 1026 | 1199 | 1199 |
| 4/28/2018 22:00 | 1026 | 1026 | 1198 | 1199 |
| 4/28/2018 23:00 | 1026 | 1026 | 1198 | 1198 |
| 4/29/2018 0:00 | 1026 | 1027 | 1198 | 1200 |
| 4/29/2018 1:00 | 1027 | 1027 | 1199 | 1200 |
| 4/29/2018 2:00 | 1027 | 1027 | 1197 | 1199 |
| 4/29/2018 3:00 | 1027 | 1028 | 1197 | 1199 |
| 4/29/2018 4:00 | 1028 | 1028 | 1198 | 1199 |
| 4/29/2018 5:00 | 1028 | 1029 | 1198 | 1199 |
| 4/29/2018 6:00 | 1029 | 1029 | 1198 | 1199 |
| 4/29/2018 7:00 | 1029 | 1029 | 1198 | 1199 |
| 4/29/2018 8:00 | 1028 | 1029 | 1199 | 1200 |
| 4/29/2018 9:00 | 1028 | 1028 | 1200 | 1200 |
| 4/29/2018 10:00 | 1027 | 1028 | 1200 | 1200 |
| 4/29/2018 11:00 | 1027 | 1028 | 1200 | 1200 |
| 4/29/2018 12:00 | 1028 | 1028 | 1200 | 1200 |
| 4/29/2018 13:00 | 1028 | 1029 | 1200 | 1200 |
| 4/29/2018 14:00 | 1028 | 1029 | 1199 | 1200 |
| 4/29/2018 15:00 | 1028 | 1028 | 1198 | 1199 |
| 4/29/2018 16:00 | 1027 | 1028 | 1198 | 1200 |
| 4/29/2018 17:00 | 1027 | 1027 | 1199 | 1200 |
| 4/29/2018 18:00 | 1026 | 1027 | 1197 | 1200 |
| 4/29/2018 19:00 | 1026 | 1026 | 1198 | 1198 |
| 4/29/2018 20:00 | 1026 | 1027 | 1198 | 1198 |
| 4/29/2018 21:00 | 1027 | 1027 | 1198 | 1199 |
| 4/29/2018 22:00 | 1027 | 1027 | 1199 | 1199 |
| 4/29/2018 23:00 | 1027 | 1027 | 1198 | 1199 |
| 4/30/2018 0:00 | 1027 | 1027 | 1197 | 1199 |
| 4/30/2018 1:00 | 1027 | 1027 | 1197 | 1198 |
| 4/30/2018 2:00 | 1027 | 1027 | 1197 | 1199 |
| 4/30/2018 3:00 | 1027 | 1027 | 1197 | 1199 |
| 4/30/2018 4:00 | 1027 | 1027 | 1198 | 1199 |
| 4/30/2018 5:00 | 1027 | 1028 | 1198 | 1199 |
| 4/30/2018 6:00 | 1028 | 1028 | 1198 | 1199 |
| 4/30/2018 7:00 | 1028 | 1028 | 1199 | 1199 |
| 4/30/2018 8:00 | 1028 | 1028 | 1199 | 1200 |
| 4/30/2018 9:00 | 1028 | 1028 | 1198 | 1200 |
| 4/30/2018 10:00 | 1028 | 1028 | 1198 | 1200 |
| 4/30/2018 11:00 | 1028 | 1028 | 1200 | 1200 |
| 4/30/2018 12:00 | 1028 | 1028 | 1198 | 1200 |
| 4/30/2018 13:00 | 1028 | 1029 | 1198 | 1199 |
| 4/30/2018 14:00 | 1029 | 1029 | 1199 | 1200 |
| 4/30/2018 15:00 | 1029 | 1030 | 1199 | 1200 |
| 4/30/2018 16:00 | 1030 | 1030 | 1199 | 1200 |
| 4/30/2018 17:00 | 1030 | 1030 | 1200 | 1200 |
| 4/30/2018 18:00 | 1030 | 1030 | 1200 | 1200 |
| 4/30/2018 19:00 | 1030 | 1030 | 1199 | 1200 |
| 4/30/2018 20:00 | 1030 | 1031 | 1200 | 1200 |
| 4/30/2018 21:00 | 1031 | 1031 | 1199 | 1200 |
| 4/30/2018 22:00 | 1031 | 1031 | 1199 | 1200 |
| 4/30/2018 23:00 | 1031 | 1031 | 1199 | 1200 |
| 5/1/2018 0:00 | 1030 | 1031 | 1199 | 1199 |
| 5/1/2018 1:00 | 1030 | 1030 | 1200 | 1200 |
| 5/1/2018 2:00 | 1030 | 1030 | 1200 | 1200 |
| 5/1/2018 3:00 | 1030 | 1030 | 1198 | 1200 |
| 5/1/2018 4:00 | 1030 | 1030 | 1198 | 1198 |
| 5/1/2018 5:00 | 1030 | 1030 | 1198 | 1198 |
| 5/1/2018 6:00 | 1030 | 1030 | 1198 | 1198 |
| 5/1/2018 7:00 | 1030 | 1030 | 1198 | 1199 |
| 5/1/2018 8:00 | 1029 | 1030 | 1200 | 1200 |
| 5/1/2018 9:00 | 1029 | 1029 | 1200 | 1200 |
| | Min (Btu/cf) | Max (Btu/cf) | Min (Btu/cf) | Max (Btu/cf) |
| | 1023 | 1032 | 1166 | 1200 |