Appendix B
Metric and Thermal Conversion Tables

Metric Conversions

Table B1 presents Summary Statistics for Natural Gas in the United States for 2015 through 2019 in metric units of measure. Volumes are shown in cubic meters instead of cubic feet. Prices are shown in nominal dollars per thousand cubic meters instead of dollars per thousand cubic feet. The data in this table have been converted from the data that appear in Table 1 of this report.

Thermal Conversions

Table B2 presents the thermal (Btu) conversion factors and the converted data for natural gas supply and disposition from 2015 through 2019. A brief documentation for the thermal conversion factors follows:

- **Marketed Production.** The conversion factor is calculated by adding the total heat content of dry production to the total heat content of natural gas plant liquids (NGPL) production and dividing the resulting sum by the total quantity of dry production and NGPL Production (see below).

- **Natural Gas Plant Liquids Production.** The conversion factor is obtained from Appendix A of this publication.

- **Dry Production.** The conversion factor is assumed to be the same as the thermal conversion factors for consumption (see below).

- **Withdrawals from Storage.** Both underground and LNG storage withdrawals are assumed to have the same heat content as consumption (see below).

- **Supplemental Gas Supplies.** This conversion factor is assumed to be the same as that for consumption (see below).

- **Balancing Item.** This conversion factor is calculated by subtracting the total heat content of all other items of supply from the heat content of total disposition (from Table B2) and dividing the difference by the balancing item quantity.

- **Consumption.** The thermal conversion factor for total consumption (lease fuel, plant fuel, pipeline fuel, and deliveries to consumers) is the average heat content for deliveries to end users as reported on the Energy Information Administration’s (EIA) Form EIA-176, *Annual Report of Natural and Supplemental Gas Supply and Disposition*. Average heat content of consumption in the Electric Power Sector is obtained from Form EIA-923, *Power Plant Operations Report*.

- **Additions to Storage.** Additions to both underground and LNG storage are assumed to have the same heat content as consumption (see above).
Table B1. Summary statistics for natural gas in the United States, metric equivalents, 2015-2019

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Wells Producing Natural Gas at End of Year</td>
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<td></td>
<td></td>
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<tr>
<td>Oil Wells</td>
<td>216,438</td>
<td>205,277</td>
<td>191,131</td>
<td>198,590</td>
<td>336,732</td>
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<td>Gas Wells</td>
<td>574,530</td>
<td>571,659</td>
<td>539,875</td>
<td>512,675</td>
<td>491,205</td>
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<td>Production (million cubic meters)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gross Withdrawals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>From Gas Wells</td>
<td>265,365</td>
<td>206,369</td>
<td>174,472</td>
<td>222,685</td>
<td>214,828</td>
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<td>From Oil Wells</td>
<td>185,125</td>
<td>180,806</td>
<td>176,058</td>
<td>127,525</td>
<td>130,947</td>
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<td>From Coalbed Wells</td>
<td>33,596</td>
<td>30,329</td>
<td>27,911</td>
<td>27,771</td>
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<td>From Shale Gas Wells</td>
<td>447,953</td>
<td>505,386</td>
<td>564,287</td>
<td>678,960</td>
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<td>932,039</td>
<td>922,891</td>
<td>942,728</td>
<td>1,056,942</td>
<td>1,157,945</td>
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<td>100,518</td>
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<td>6,524</td>
<td>7,235</td>
<td>13,326</td>
<td>15,248</td>
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<td>11,695</td>
<td>7,364</td>
<td>7,326</td>
<td>8,184</td>
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<td>804,200</td>
<td>827,923</td>
<td>934,707</td>
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<td>51,195</td>
<td>53,724</td>
<td>63,277</td>
<td>71,141</td>
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<td>Total Dry Production</td>
<td>766,408</td>
<td>753,005</td>
<td>774,199</td>
<td>871,430</td>
<td>961,854</td>
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<tr>
<td>Dry Production</td>
<td>766,408</td>
<td>753,005</td>
<td>774,199</td>
<td>871,430</td>
<td>961,854</td>
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<td>929,040</td>
<td>953,510</td>
<td>1,062,087</td>
<td>1,139,037</td>
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<tr>
<td>Disposition (million cubic meters)</td>
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<td></td>
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<tr>
<td>Consumption</td>
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<td>777,134</td>
<td>768,511</td>
<td>853,439</td>
<td>880,627</td>
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<td>Exports</td>
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<td>66,133</td>
<td>89,306</td>
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<td>1,691</td>
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<tr>
<td>Total Disposition</td>
<td>926,801</td>
<td>929,040</td>
<td>953,510</td>
<td>1,062,087</td>
<td>1,139,037</td>
</tr>
<tr>
<td>Consumption (million cubic meters)</td>
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<td>Lease Fuel</td>
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<td>31,887</td>
<td>32,844</td>
<td>35,341</td>
<td>38,436</td>
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<td>Pipeline and Distribution Use*</td>
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<td>19,446</td>
<td>20,446</td>
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<td>26,739</td>
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<td>11,980</td>
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<td>124,971</td>
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<td>89,612</td>
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<td>218,852</td>
<td>224,921</td>
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<td>238,475</td>
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<td>Vehicle Fuel</td>
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<td>1,365</td>
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<td>1,448</td>
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<td>282,751</td>
<td>262,371</td>
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<td>320,191</td>
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<td>Total Delivered to Consumers</td>
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<td>713,929</td>
<td>703,241</td>
<td>780,643</td>
<td>801,606</td>
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<tr>
<td>Total Consumption</td>
<td>771,460</td>
<td>777,134</td>
<td>768,511</td>
<td>853,439</td>
<td>880,627</td>
</tr>
<tr>
<td>Delivered for the Account of Others (million cubic meters)</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Residential</td>
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<td>17,111</td>
<td>17,135</td>
<td>19,590</td>
<td>18,597</td>
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<td>Commercial</td>
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<td>41,734</td>
<td>41,861</td>
<td>45,784</td>
<td>45,754</td>
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<td>Industrial</td>
<td>181,483</td>
<td>186,275</td>
<td>191,663</td>
<td>203,728</td>
<td>207,726</td>
</tr>
</tbody>
</table>

See footnotes at end of table.

2019

<table>
<thead>
<tr>
<th>Number of Consumers</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential</td>
<td>67,923,465</td>
<td>68,433,125</td>
<td>69,067,541</td>
<td>69,737,549</td>
<td>70,358,831</td>
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<td>Commercial</td>
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<td>5,474,701</td>
<td>5,499,932</td>
<td>5,518,358</td>
<td>5,546,847</td>
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<tr>
<td>Industrial</td>
<td>188,336</td>
<td>188,836</td>
<td>184,959</td>
<td>185,009</td>
<td>183,233</td>
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</tbody>
</table>

Average Annual Consumption per Consumer (thousand cubic meters)

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial</td>
<td>17</td>
<td>16</td>
<td>16</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>Industrial</td>
<td>1,131</td>
<td>1,159</td>
<td>1,216</td>
<td>1,288</td>
<td>1,301</td>
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</tbody>
</table>

Average Price for Natural Gas (dollars per thousand cubic meters)

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imports</td>
<td>105.59</td>
<td>79.01</td>
<td>91.82</td>
<td>94.95</td>
<td>90.16</td>
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<tr>
<td>Exports</td>
<td>108.56</td>
<td>98.62</td>
<td>124.97</td>
<td>137.53</td>
<td>128.54</td>
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<tr>
<td>Citygate</td>
<td>150.52</td>
<td>131.18</td>
<td>146.88</td>
<td>149.44</td>
<td>134.71</td>
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<tr>
<td>Residential</td>
<td>366.43</td>
<td>354.79</td>
<td>385.45</td>
<td>370.93</td>
<td>371.00</td>
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<tr>
<td>Commercial</td>
<td>279.38</td>
<td>257.07</td>
<td>278.27</td>
<td>274.94</td>
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<td>123.83</td>
<td>144.22</td>
<td>148.03</td>
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<td>Electric Power</td>
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<td>105.59</td>
<td>123.95</td>
<td>129.96</td>
<td>105.59</td>
</tr>
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</table>

Revised data.

Pipeline and Distribution Use volumes include Line Loss, defined as known volumes of natural gas that were the result of leaks, damage, accidents, migration, and/or blow down.

Notes: The United States equals the 50 states and District of Columbia. Totals may not add due to independent rounding. Prices are in nominal dollars.

Sources: U.S. Energy Information Administration (EIA), Form EIA-176, Annual Report of Natural and Supplemental Gas Supply and Disposition; Form EIA-857, Monthly Report of Natural Gas Purchases and Deliveries to Consumers; Form EIA-914, Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report; Form EIA-910, Monthly Natural Gas Marketer Survey; Form EIA-816, Monthly Natural Gas Liquids Report; Form EIA-64A, Annual Report of the Origin of Natural Gas Liquids Production; Form EIA-191, Monthly Underground Gas Storage Report; Office of Fossil Energy, U.S. Department of Energy, Natural Gas Imports and Exports; Form EIA-923, Power Plant Operations Report; the Bureau of Safety and Environmental Enforcement (BSEE); Form EIA-886, Annual Survey of Alternative Fueled Vehicles; state and federal agencies; state-sponsored public record databases; Form EIA-23, Annual Survey of Domestic Oil and Gas Reserves; PointLogic Energy; Enverus DrillingInfo; and EIA estimates based on historical data.
Table B2. Thermal conversion factors and data, 2015-2019

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<th>Conversion Factor (Btu per cubic foot)</th>
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<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
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</thead>
<tbody>
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<td><strong>Production</strong></td>
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<td></td>
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<td>NGPL Production</td>
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<tr>
<td>Dry Production</td>
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<td>1,036</td>
<td>1,038</td>
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</tr>
<tr>
<td>Marketed</td>
<td>32,332,509</td>
<td>32,025,819</td>
<td>33,012,616</td>
<td>37,428,144</td>
<td>41,609,215</td>
</tr>
<tr>
<td>NGPL Production</td>
<td>4,265,627</td>
<td>4,449,796</td>
<td>4,687,771</td>
<td>5,545,996</td>
<td>6,330,892</td>
</tr>
<tr>
<td><strong>Total Dry Production</strong></td>
<td>28,066,882</td>
<td>27,576,023</td>
<td>28,324,844</td>
<td>31,882,148</td>
<td>35,258,324</td>
</tr>
<tr>
<td>Supply</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry Production</td>
<td>28,066,882</td>
<td>27,576,023</td>
<td>28,324,844</td>
<td>31,882,148</td>
<td>35,258,324</td>
</tr>
<tr>
<td>Receipts at U.S. Borders</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Imports</td>
<td>2,785,046</td>
<td>3,081,659</td>
<td>3,109,057</td>
<td>2,961,068</td>
<td>2,810,259</td>
</tr>
<tr>
<td>Intransit Receipts</td>
<td>63,271</td>
<td>76,049</td>
<td>714,002</td>
<td>1,047,200</td>
<td>223,817</td>
</tr>
<tr>
<td>Withdrawals from Storage</td>
<td>3,214,377</td>
<td>3,447,942</td>
<td>3,719,736</td>
<td>4,143,403</td>
<td>3,791,609</td>
</tr>
<tr>
<td>LNG Storage</td>
<td>52,431</td>
<td>41,496</td>
<td>44,412</td>
<td>52,270</td>
<td>78,528</td>
</tr>
<tr>
<td>Supplemental Gas Supplies</td>
<td>60,794</td>
<td>59,304</td>
<td>68,061</td>
<td>71,839</td>
<td>63,905</td>
</tr>
<tr>
<td>Balancing Item</td>
<td>-353,201</td>
<td>-325,321</td>
<td>-480,167</td>
<td>-364,771</td>
<td>2,196,727</td>
</tr>
<tr>
<td><strong>Total Supply</strong></td>
<td>33,890,600</td>
<td>33,957,152</td>
<td>34,799,944</td>
<td>38,759,427</td>
<td>41,612,909</td>
</tr>
<tr>
<td>Disposition</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Electric Power)</td>
<td>9,349,838</td>
<td>10,324,769</td>
<td>9,571,318</td>
<td>10,938,372</td>
<td>11,691,879</td>
</tr>
<tr>
<td>(Other Sectors)</td>
<td>18,302,043</td>
<td>18,134,887</td>
<td>18,545,410</td>
<td>20,285,559</td>
<td>20,588,946</td>
</tr>
<tr>
<td>Deliveries at U.S. Borders</td>
<td>1,799,564</td>
<td>2,356,467</td>
<td>3,182,188</td>
<td>3,640,312</td>
<td>4,698,231</td>
</tr>
<tr>
<td>Exports</td>
<td>5,209</td>
<td>4,591</td>
<td>128</td>
<td>259,287</td>
<td>184,717</td>
</tr>
<tr>
<td>Intransit Deliveries</td>
<td>3,772,958</td>
<td>3,086,861</td>
<td>3,456,753</td>
<td>3,806,246</td>
<td>4,310,317</td>
</tr>
<tr>
<td>LNG Storage</td>
<td>60,988</td>
<td>49,577</td>
<td>44,147</td>
<td>61,851</td>
<td>138,819</td>
</tr>
<tr>
<td><strong>Total Disposition</strong></td>
<td>33,890,600</td>
<td>33,957,152</td>
<td>34,799,944</td>
<td>38,759,427</td>
<td>41,612,909</td>
</tr>
</tbody>
</table>

NA: Not available.  
† Revised data.  
### Sources
- U.S. Energy Information Administration (EIA), Form EIA-176, Annual Report of Natural and Supplemental Gas Supply and Disposition; Form EIA-857, Monthly Report of Natural Gas Purchases and Deliveries to Consumers; Form EIA-914, Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report; Form EIA-816, Monthly Natural Gas Liquids Report; Form EIA-64A, Annual Report of the Origin of Natural Gas Liquids Production; Form EIA-191, Monthly Underground Gas Storage Report; Office of Fossil Energy, U.S. Department of Energy, Natural Gas Imports and Exports; Form EIA-923, Power Plant Operations Report; the Bureau of Safety and Environmental Enforcement (BSEE); Form EIA-886, Annual Survey of Alternative Fueled Vehicles; state and federal agencies; state-sponsored public record databases; Form EIA-23, Annual Survey of Domestic Oil and Gas Reserves; PointLogic Energy; Enverus Drilling Info; and EIA estimates based on historical data.