



*Independent Statistics & Analysis*  
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Administration

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# Natural Gas Monthly

April 2018



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## Preface

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The *Natural Gas Monthly* (NGM) highlights activities, events, and analyses of interest to public and private sector organizations associated with the natural gas industry. Volume and price data are presented each month for natural gas production, distribution, consumption, and interstate pipeline activities. Producer-related activities and underground storage data are also reported.

The data in this publication are collected on surveys conducted by EIA to fulfill its responsibilities for gathering and reporting energy data. Geographic coverage is the 50 States and the District of Columbia.

Explanatory Notes supplement the information found in tables of the report. A description of the data collection surveys that support the NGM is provided in the Data Sources section. A glossary of the terms used in this report is also provided to assist readers in understanding the data presented in this publication.

All natural gas volumes are reported at a pressure base of 14.73 pounds per square inch absolute (psia) and at 60 degrees Fahrenheit. Cubic feet are converted to cubic meters by applying a factor of 0.02831685.

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## Highlights

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This issue of the *Natural Gas Monthly* (NGM) contains state and national-level estimates of natural gas volume and price data through February 2018.

Recent analyses of the natural gas industry are available on the [EIA website](#) by clicking the “[Natural Gas](#)” link under the “Sources & Uses” tab. The two reports listed under “Regular Weekly Releases” along the right side of the natural gas page are updated regularly. These reports are:

- [Weekly Natural Gas Storage Report](#) -- a weekly report containing estimates of natural gas in underground storage for the United States and five regions of the United States released each Thursday at 10:30 a.m. at the EIA website, except for certain weeks with Federal holidays. The report contains estimates of storage for the current and prior week and comparisons to previous periods. Links are provided to papers describing survey Form EIA-912, "Weekly Underground Natural Gas Storage Report," and the estimation methodology.
- [Natural Gas Weekly Update](#) -- a current analysis of the industry each week, including information on natural gas spot and futures prices and storage activities. This page also provides links to numerous other EIA sites dealing with natural gas.

Other natural gas data and analyses may be found through the “Natural Gas” section of EIA’s website.

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## Abbreviations

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### Common Abbreviations Used in the *Natural Gas Monthly*

Bcf	Billion cubic feet
CNG	Compressed natural gas
DOE	U.S. Department of Energy
EIA	Energy Information Administration, U.S. Department of Energy
FERC	Federal Energy Regulatory Commission
GOM	Gulf of Mexico
LNG	Liquefied natural gas
Mcf	Thousand cubic feet
MMcf	Million cubic feet
NGPL	Natural gas plant liquid
Tcf	Trillion cubic feet

Table 1. Summary of natural gas supply and disposition in the United States, 2013-2018

(billion cubic feet)

Year and Month	Gross Withdrawals	Marketed Production	NGPL Production <sup>a</sup>	Dry Gas Production <sup>b</sup>	Supplemental Gaseous Fuels <sup>c</sup>	Net Imports	Net Storage Withdrawals <sup>d</sup>	Balancing Item <sup>e</sup>	Consumption <sup>f</sup>
<b>2013 Total</b>	<b>29,523</b>	<b>25,562</b>	<b>1,357</b>	<b>24,206</b>	<b>55</b>	<b>1,311</b>	<b>546</b>	<b>38</b>	<b>26,155</b>
<b>2014 Total</b>	<b>31,405</b>	<b>27,498</b>	<b>1,608</b>	<b>25,890</b>	<b>60</b>	<b>1,181</b>	<b>-254</b>	<b>-283</b>	<b>26,593</b>
<b>2015 Total</b>	<b>32,915</b>	<b>28,772</b>	<b>1,707</b>	<b>27,065</b>	<b>59</b>	<b>935</b>	<b>-547</b>	<b>-268</b>	<b>27,244</b>
<b>2016</b>									
January	2,828	2,443	156	2,287	5	105	741	-46	3,092
February	2,656	2,315	148	2,167	5	89	411	-20	2,651
March	2,828	2,449	156	2,293	5	46	53	-39	2,357
April	2,681	2,366	151	2,215	5	63	-171	-23	2,089
May	2,787	2,433	155	2,278	5	60	-337	-35	1,971
June	2,636	2,323	148	2,175	5	59	-229	-4	2,005
July	2,730	2,421	154	2,266	5	76	-139	-15	2,193
August	2,726	2,395	153	2,242	5	48	-130	51	2,216
September	2,630	2,304	147	2,157	5	37	-270	23	1,951
October	2,718	2,365	151	2,214	5	55	-317	-31	1,926
November	2,673	2,310	147	2,162	5	3	39	-44	2,164
December	2,742	2,356	150	2,206	5	30	688	-61	2,867
<b>Total</b>	<b>32,636</b>	<b>28,479</b>	<b>1,817</b>	<b>26,663</b>	<b>57</b>	<b>671</b>	<b>339</b>	<b>-244</b>	<b>27,486</b>
<b>2017</b>									
January	RE2,727	RE2,339	R150	RE2,189	5	20	675	10	2,899
February	RE2,504	RE2,148	R145	RE2,003	5	*	285	R36	2,328
March	RE2,778	RE2,381	R163	RE2,219	5	9	275	R18	2,526
April	RE2,682	RE2,308	157	RE2,151	5	-9	-230	7	1,924
May	RE2,770	RE2,391	166	RE2,225	3	-10	-341	18	1,896
June	RE2,682	RE2,341	162	RE2,179	4	-14	-281	21	1,910
July	RE2,750	RE2,443	168	RE2,276	5	2	-150	*	2,133
August	RE2,764	RE2,444	164	RE2,279	5	1	-196	R16	2,105
September	RE2,757	RE2,408	158	RE2,250	5	-21	-317	5	1,923
October	RE2,888	RE2,507	177	RE2,329	4	-37	-247	-16	2,032
November	RE2,875	RE2,497	176	RE2,321	6	-45	85	-20	2,347
December	RE3,001	RE2,607	175	RE2,432	5	-23	694	R-41	R3,068
<b>Total</b>	<b>RE33,178</b>	<b>RE28,814</b>	<b>R1,960</b>	<b>RE26,854</b>	<b>56</b>	<b>-128</b>	<b>253</b>	<b>55</b>	<b>R27,091</b>
<b>2018</b>									
January	RE2,958	RE2,566	170	RE2,396	5	R3	R896	17	3,317
February	RE2,721	RE2,365	161	RE2,203	5	-36	467	31	2,670
<b>2018 2-Month YTD</b>	<b>RE5,680</b>	<b>RE4,931</b>	<b>331</b>	<b>RE4,599</b>	<b>11</b>	<b>-33</b>	<b>1,363</b>	<b>48</b>	<b>5,987</b>
<b>2017 2-Month YTD</b>	<b>RE5,231</b>	<b>RE4,487</b>	<b>294</b>	<b>RE4,193</b>	<b>9</b>	<b>19</b>	<b>960</b>	<b>46</b>	<b>5,227</b>
<b>2016 2-Month YTD</b>	<b>5,485</b>	<b>4,758</b>	<b>303</b>	<b>4,454</b>	<b>10</b>	<b>194</b>	<b>1,152</b>	<b>-67</b>	<b>5,743</b>

<sup>a</sup> Monthly natural gas plant liquid (NGPL) production, gaseous equivalent, is derived from sample data reported by gas processing plants on Form EIA-816, "Monthly Natural Gas Liquids Report," and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production."

<sup>b</sup> Equal to marketed production minus NGPL production.

<sup>c</sup> Supplemental gaseous fuels data are collected only on an annual basis except for the Dakota Gasification Co. coal gasification facility which provides data each month. The ratio of annual supplemental fuels (excluding Dakota Gasification Co.) to the sum of dry gas production, net imports, and net withdrawals from storage is calculated. This ratio is applied to the monthly sum of these three elements. The Dakota Gasification Co. monthly value is added to the result to produce the monthly supplemental fuels estimate.

<sup>d</sup> Monthly and annual data for 2013 through 2016 include underground storage and liquefied natural gas storage. Data for January 2017 forward include underground storage only. See Appendix A, Explanatory Note 5, for discussion of computation procedures.

<sup>e</sup> Represents quantities lost and imbalances in data due to differences among data sources. Net imports and balancing item for 2014 and 2015 excludes net intransit deliveries. These net intransit deliveries were (in billion cubic feet): 9 for 2016; 57 for 2015; 27 for 2014; and 54 for 2013. See Appendix A, Explanatory Note 7, for full discussion.

<sup>f</sup> Consists of pipeline fuel use, lease and plant fuel use, vehicle fuel, and deliveries to consuming sectors as shown in Table 2.

<sup>R</sup> Revised data.

\* Volume is between -500 MMcf and 500 MMcf.

<sup>E</sup> Estimated data.

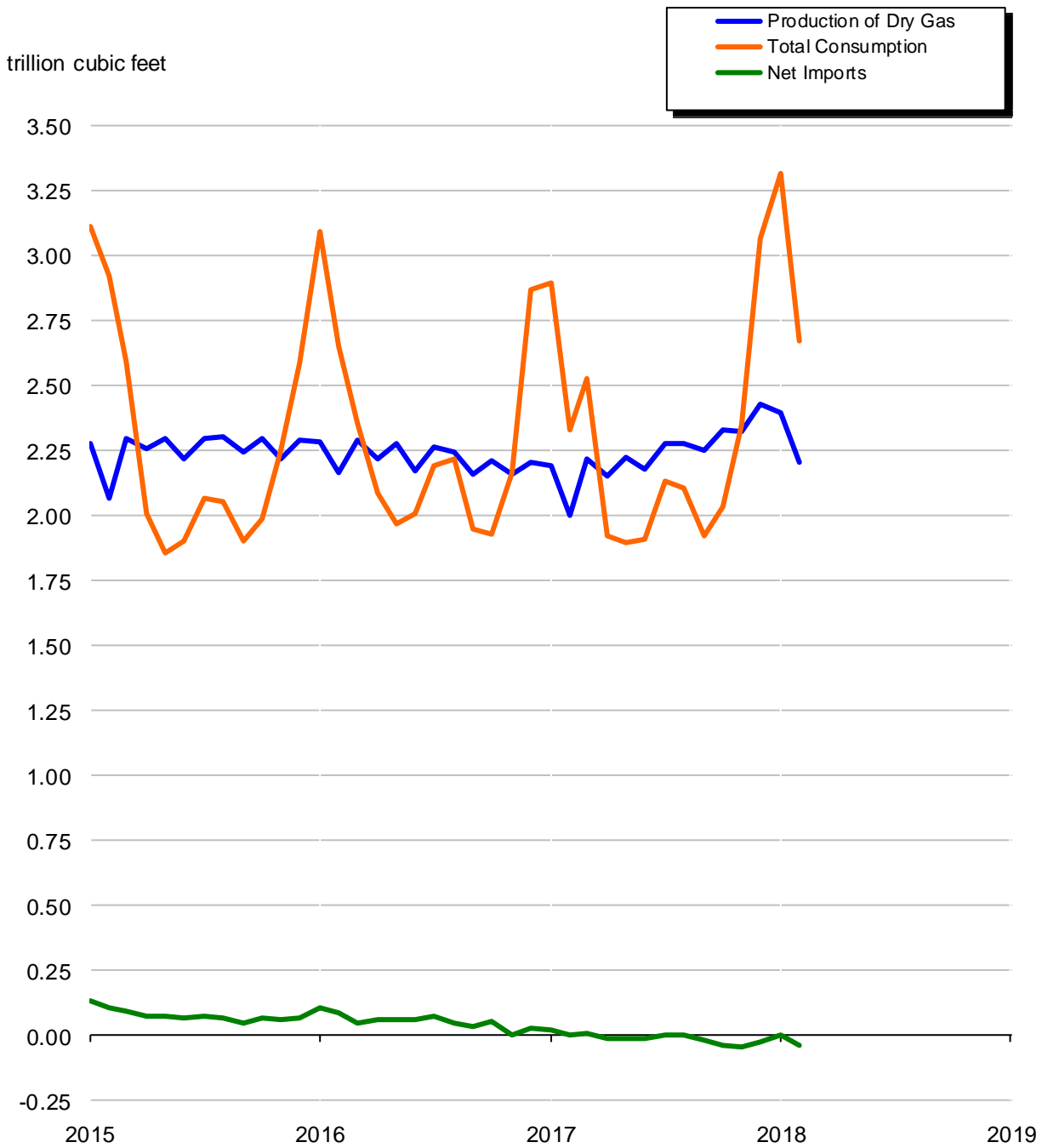
<sup>RE</sup> Revised estimated data.

**Notes:** Data for 2013 through 2015 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 states and the District of Columbia. Totals may not equal sum of components because of independent rounding.

**Sources:** 2013-2016: Energy Information Administration (EIA), *Natural Gas Annual 2016*. January 2017 through current month: Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report"; Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-191, "Monthly Underground Gas Storage Report"; EIA computations and estimates; and Office of Fossil Energy, "Natural Gas Imports and Exports." See Table 7 for detailed source notes for Marketed Production. See Appendix A, Notes 3 and 4, for discussion of computation and estimation procedures and revision policies.

Figure 1

Figure 1. Production, consumption, and net imports of natural gas in the United States, 2015-2018



Sources: 2014-2016: Energy Information Administration (EIA), *Natural Gas Annual 2016*. January 2017 through current month: Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report"; Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-191, "Monthly Underground Gas Storage Report"; EIA computations and estimates; and Office of Fossil Energy, "Natural Gas Imports and Exports."

Table 2. Natural gas consumption in the United States, 2013-2018

(billion cubic feet, or as indicated)

Year and Month	Lease and Plant Fuel <sup>a</sup>	Pipeline and Distribution Use <sup>b</sup>	Delivered to Consumers						Total Consumption	Heating Value <sup>c</sup> (Btu per cubic foot)
			Residential	Commercial	Industrial	Electric Power	Vehicle Fuel	Total		
<b>2013 Total</b>	<b>1,483</b>	<b>833</b>	<b>4,897</b>	<b>3,295</b>	<b>7,425</b>	<b>8,191</b>	<b>30</b>	<b>23,839</b>	<b>26,155</b>	<b>1,027</b>
<b>2014 Total</b>	<b>1,512</b>	<b>700</b>	<b>5,087</b>	<b>3,466</b>	<b>7,646</b>	<b>8,146</b>	<b>35</b>	<b>24,381</b>	<b>26,593</b>	<b>1,032</b>
<b>2015 Total</b>	<b>1,576</b>	<b>678</b>	<b>4,613</b>	<b>3,202</b>	<b>7,522</b>	<b>9,613</b>	<b>39</b>	<b>24,989</b>	<b>27,244</b>	<b>1,037</b>
<b>2016</b>										
January	136	80	879	503	720	771	3	2,876	3,092	1,038
February	129	68	690	413	662	686	3	2,454	2,651	1,038
March	137	60	455	298	662	743	3	2,161	2,357	1,037
April	132	53	328	233	620	721	3	1,905	2,089	1,037
May	136	49	194	171	612	806	3	1,786	1,971	1,034
June	130	51	123	138	590	971	3	1,825	2,005	1,034
July	135	55	106	134	616	1,142	4	2,003	2,193	1,034
August	134	56	100	140	627	1,155	4	2,026	2,216	1,037
September	129	49	110	142	604	915	4	1,774	1,951	1,037
October	132	48	187	191	622	741	4	1,746	1,926	1,036
November	129	55	380	280	654	664	4	1,981	2,164	1,037
December	132	74	794	462	733	669	4	2,662	2,867	1,039
<b>Total</b>	<b>1,590</b>	<b>697</b>	<b>4,345</b>	<b>3,105</b>	<b>7,722</b>	<b>9,984</b>	<b>42</b>	<b>25,198</b>	<b>27,486</b>	<b>1,037</b>
<b>2017</b>										
January	£131	£74	832	481	731	647	£4	2,695	2,899	1,039
February	£120	£59	581	361	645	559	£3	2,149	2,328	1,038
March	£133	£64	582	373	691	679	£4	2,329	2,526	1,037
April	£129	£49	281	213	625	624	£4	1,747	1,924	1,036
May	£133	£48	200	179	625	706	£4	1,714	1,896	1,035
June	£131	£48	124	138	611	854	£4	1,731	1,910	1,035
July	£136	£54	107	134	623	1,074	£4	1,942	2,133	1,035
August	£136	£53	104	139	635	1,034	£4	1,915	2,105	1,035
September	£134	£49	115	146	613	862	£4	1,740	1,923	1,036
October	£140	£52	204	201	652	780	£4	1,841	2,032	1,035
November	£139	£60	467	324	691	663	£4	2,148	2,347	1,037
December	RE146	£78	825	488	759	768	£4	2,844	RE3,068	1,039
<b>Total</b>	<b>RE1,609</b>	<b>£687</b>	<b>RE4,423</b>	<b>3,177</b>	<b>7,902</b>	<b>9,250</b>	<b>£43</b>	<b>24,795</b>	<b>RE27,091</b>	<b>1,037</b>
<b>2018</b>										
January	£143	£84	RE973	RE547	RE770	795	£4	3,090	3,317	1,038
February	£132	£68	687	420	690	670	£3	2,471	2,670	1,037
<b>2018 2-Month YTD</b>	<b>£275</b>	<b>£152</b>	<b>1,660</b>	<b>968</b>	<b>1,461</b>	<b>1,465</b>	<b>£7</b>	<b>5,560</b>	<b>5,987</b>	<b>1,037</b>
<b>2017 2-Month YTD</b>	<b>£250</b>	<b>£133</b>	<b>1,413</b>	<b>842</b>	<b>1,375</b>	<b>1,206</b>	<b>£7</b>	<b>4,844</b>	<b>5,227</b>	<b>1,038</b>
<b>2016 2-Month YTD</b>	<b>266</b>	<b>148</b>	<b>1,568</b>	<b>915</b>	<b>1,382</b>	<b>1,457</b>	<b>7</b>	<b>5,330</b>	<b>5,743</b>	<b>1,038</b>

<sup>a</sup> Plant fuel data and lease fuel data are collected only annually. Monthly lease and plant fuel use is estimated from monthly marketed production by assuming that the preceding annual percentage remains constant for the next 12 months.

<sup>b</sup> Published pipeline and distribution use data are based on reports collected on an annual basis. Monthly pipeline and distribution use data are estimated from monthly total consumption (excluding pipeline and distribution use) by assuming that the preceding annual percentage remains constant for the next 12 months. 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.

<sup>c</sup> Heating value is the average number of British thermal units per cubic foot of natural gas as reported on EIA-857 and EIA-176. See Appendix A, Explanatory Note 11, for further information.

<sup>R</sup> Revised data.

<sup>E</sup> Estimated data.

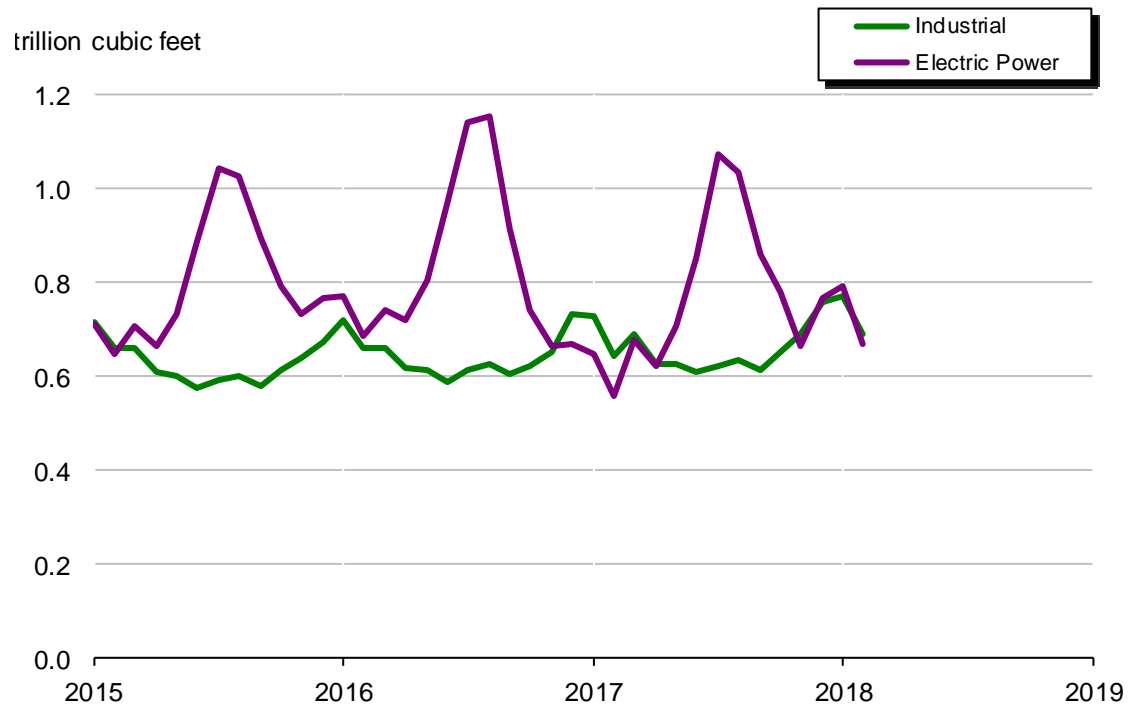
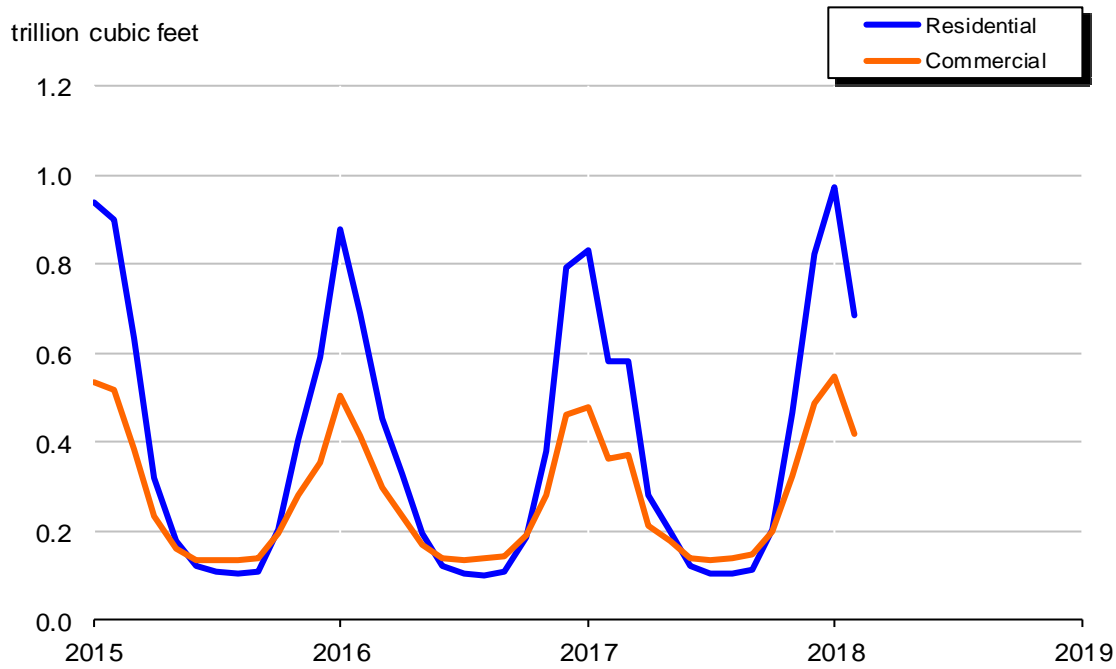
<sup>RE</sup> Revised estimated data.

**Notes:** Data for 2013 through 2015 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 states and the District of Columbia. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Note 6, for definition of sectors.

**Sources:** 2013-2016: Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; state and federal agencies; EIA estimates based on historical data; and *Natural Gas Annual 2016*. January 2017 through current month: Form EIA-914, "Monthly Natural Gas Production Report"; Form EIA-857; Form EIA-923, "Power Plant Operations Report." See Appendix A, Explanatory Note 6, for computation procedures and revision policy.

Figure 2

Figure 2. Natural gas deliveries to consumers in the United States, 2015-2018



Sources: 2014-2016: Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-923, "Power Plant Operations Report"; EIA computations; and Natural Gas Annual 2016. January 2017 through current month: Form EIA-857 and Form EIA-923.

Table 3. Selected national average natural gas prices, 2013-2018

(dollars per thousand cubic feet, except where noted)

Year and Month	NGPL Composite Spot Price <sup>a</sup>	Natural Gas Spot Price <sup>b</sup>	Citygate Price	Delivered to Consumers						
				Residential		Commercial		Industrial		Electric Power Price <sup>d</sup>
				Price	% of Total <sup>c</sup>	Price	% of Total <sup>c</sup>	Price	% of Total <sup>c</sup>	
<b>2013 Annual Average</b>	<b>9.94</b>	<b>3.73</b>	<b>4.88</b>	<b>10.32</b>	<b>95.7</b>	<b>8.08</b>	<b>65.8</b>	<b>4.64</b>	<b>16.6</b>	<b>4.49</b>
<b>2014 Annual Average</b>	<b>9.56</b>	<b>4.37</b>	<b>5.71</b>	<b>10.97</b>	<b>95.5</b>	<b>8.90</b>	<b>65.8</b>	<b>5.62</b>	<b>15.9</b>	<b>5.19</b>
<b>2015 Annual Average</b>	<b>4.97</b>	<b>2.62</b>	<b>4.26</b>	<b>10.38</b>	<b>95.6</b>	<b>7.91</b>	<b>65.7</b>	<b>3.93</b>	<b>14.8</b>	<b>3.38</b>
<b>2016</b>										
January	3.69	2.28	3.39	8.28	96.0	6.75	70.4	3.62	15.2	3.17
February	3.89	1.99	3.48	8.36	95.8	6.86	69.4	3.64	15.3	2.83
March	4.48	1.73	3.49	9.19	95.6	7.08	66.7	3.05	15.3	2.33
April	4.65	1.92	3.22	9.65	95.6	6.98	65.0	3.01	14.5	2.52
May	5.11	1.92	3.44	11.62	95.4	7.32	60.2	2.90	14.6	2.49
June	5.25	2.59	3.84	14.43	95.7	7.72	58.0	2.89	14.6	2.77
July	4.92	2.82	4.42	16.55	95.9	8.14	56.9	3.58	14.2	3.07
August	4.94	2.82	4.33	17.60	95.8	8.30	54.7	3.59	14.6	3.07
September	5.25	2.99	4.60	16.78	96.0	8.27	56.2	3.74	14.6	3.19
October	6.05	2.98	4.19	13.74	95.9	7.96	59.9	3.88	14.4	3.24
November	5.45	2.55	3.90	10.77	96.0	7.67	63.5	3.87	14.5	3.14
December	6.66	3.59	3.96	9.06	96.0	7.27	68.2	4.32	14.7	4.16
<b>Annual Average</b>	<b>5.04</b>	<b>2.52</b>	<b>3.71</b>	<b>10.05</b>	<b>95.8</b>	<b>7.28</b>	<b>64.8</b>	<b>3.52</b>	<b>14.7</b>	<b>2.99</b>
<b>2017</b>										
January	6.78	3.30	4.21	9.38	96.0	7.59	70.5	4.90	15.0	4.33
February	7.24	2.85	4.13	10.07	95.9	7.90	69.1	4.59	15.0	3.74
March	5.91	2.88	3.84	9.90	95.7	7.69	67.8	3.98	15.0	3.52
April	6.25	3.10	4.19	11.38	95.3	8.08	65.0	4.17	14.5	3.50
May	6.14	3.15	4.42	13.32	95.6	8.32	60.8	4.07	13.8	3.61
June	5.73	2.97	4.82	16.13	94.5	8.77	58.2	4.10	14.4	3.41
July	6.27	2.98	4.70	17.96	95.8	8.82	57.1	3.96	14.5	3.32
August	7.01	2.90	4.59	18.32	95.7	8.76	55.6	3.83	14.2	3.27
September	7.80	2.98	4.56	17.01	96.1	8.49	56.2	3.89	13.6	3.31
October	7.84	2.88	4.06	13.50	96.5	7.96	61.6	3.82	14.2	3.27
November	8.03	3.01	3.98	10.26	96.0	7.53	65.9	3.89	14.6	3.50
December	7.82	2.82	4.00	9.33	96.5	7.44	69.2	4.25	14.9	3.81
<b>Annual Average</b>	<b>6.92</b>	<b>2.99</b>	<b>4.16</b>	<b>10.98</b>	<b>95.9</b>	<b>7.89</b>	<b>65.4</b>	<b>4.14</b>	<b>14.5</b>	<b>3.52</b>
<b>2018</b>										
January	7.90	3.87	4.27	8.93	96.1	7.44	71.3	4.52	15.0	5.35
February	7.42	2.67	3.97	9.65	96.0	7.85	69.1	4.88	14.8	3.74
<b>2018 2-Month YTD</b>	<b>7.67</b>	<b>3.22</b>	<b>4.14</b>	<b>9.24</b>	<b>96.1</b>	<b>7.62</b>	<b>70.3</b>	<b>4.69</b>	<b>14.9</b>	<b>4.61</b>
<b>2017 2-Month YTD</b>	<b>7.01</b>	<b>3.09</b>	<b>4.18</b>	<b>9.68</b>	<b>95.9</b>	<b>7.73</b>	<b>69.8</b>	<b>4.75</b>	<b>15.0</b>	<b>4.06</b>
<b>2016 2-Month YTD</b>	<b>3.79</b>	<b>2.14</b>	<b>3.43</b>	<b>8.32</b>	<b>95.9</b>	<b>6.80</b>	<b>69.9</b>	<b>3.63</b>	<b>15.3</b>	<b>3.01</b>

<sup>a</sup> The natural gas plant liquid (NGPL) composite spot price, shown in dollars per million Btu (\$/MMBtu), is derived from daily Bloomberg spot price data for natural gas plant liquids at Mont Belvieu, Texas, weighted by gas processing plant production volumes of each product as reported on Form EIA-816, "Monthly Natural Gas Liquids Report." See Appendix A, Explanatory Note 9, for full discussion.

<sup>b</sup> The natural gas spot price, shown in \$/MMBtu, represents the average of the daily closing spot prices for natural gas at the Henry Hub in Louisiana, taken from Thompson Reuters. See Appendix A, Explanatory Note 9, for full discussion.

<sup>c</sup> Percentage of total deliveries represented by onsystem sales (see Figure 6). See Table 24 for state data.

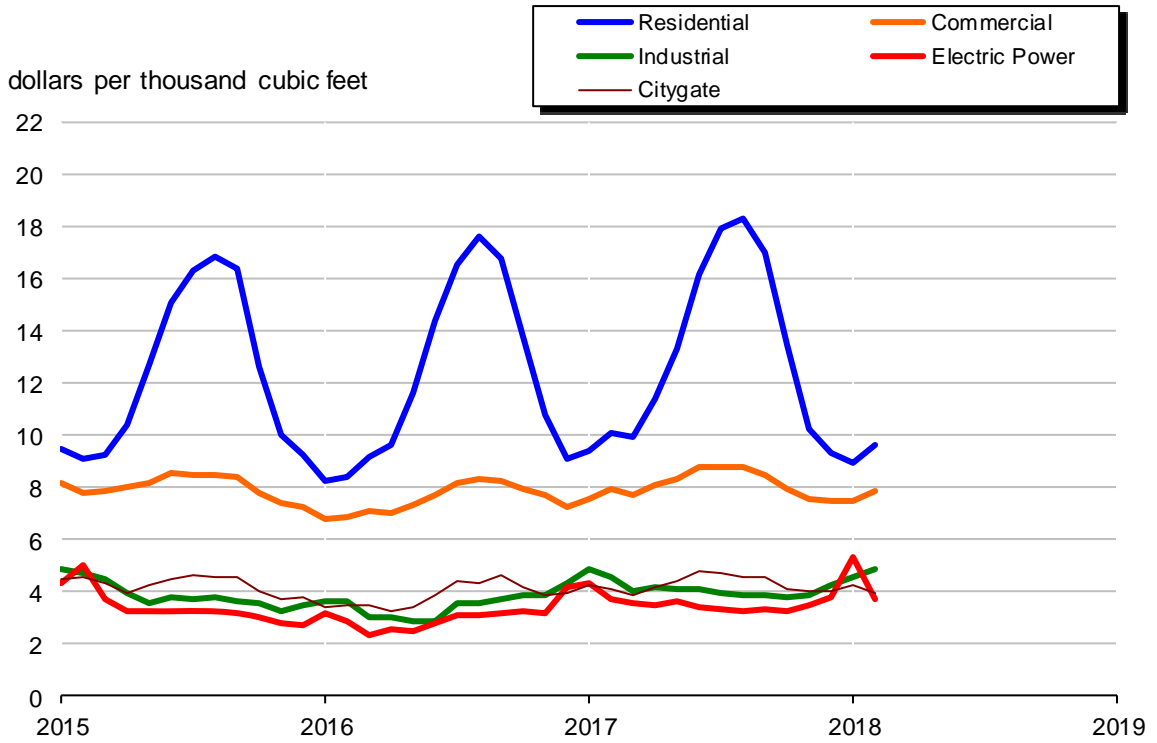
<sup>d</sup> The electric power sector comprises electricity-only and combined-heat-and-power plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Data include nonregulated members of the electric power sector.

<sup>R</sup> Revised data.

**Notes:** Prices are in nominal dollars. Data for 2013 through 2015 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 states and the District of Columbia. Published residential, commercial, and industrial prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges.

**Sources:** 2013-2016: Energy Information Administration (EIA), *Natural Gas Annual 2016*. January 2017 through current month: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-910, "Monthly Natural Gas Marketer Survey"; Form EIA-923, "Power Plant Operations Report"; Form EIA-816; Bloomberg; Thompson Reuters; and EIA estimates.

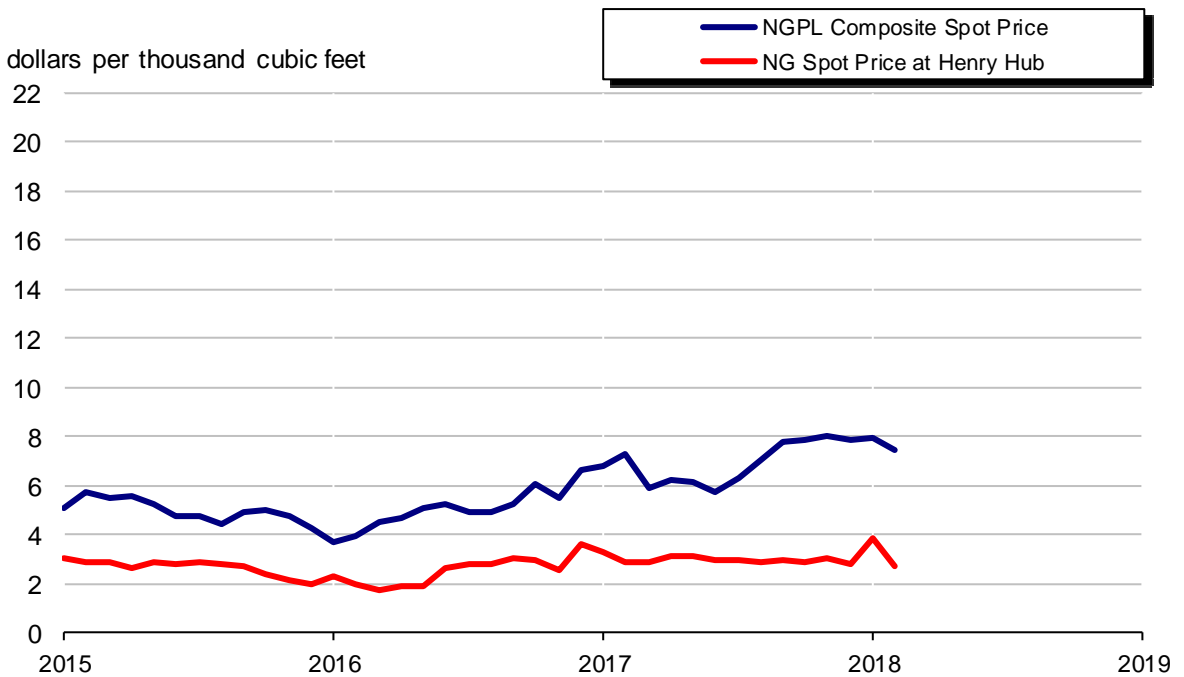
Figure 3. Average citygate and consumer prices of natural gas in the United States, 2015-2018



Note: Prices are in nominal dollars.

Sources: 2014-2016: Energy Information Administration (EIA), *Natural Gas Annual 2016*. January 2017 through current month: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-910, "Monthly Natural Gas Marketer Survey"; Form EIA-923, "Power Plant Operations Report"; Form EIA-816; Bloomberg; Thompson Reuters; and EIA estimates.

Figure 4. Spot prices of natural gas and natural gas plant liquids in the United States, 2015-2018



Note: Prices are in nominal dollars.

Sources: 2014-2016: Energy Information Administration (EIA), *Natural Gas Annual 2016*. January 2017 through current month: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-910, "Monthly Natural Gas Marketer Survey"; Form EIA-923, "Power Plant Operations Report"; Form EIA-816; Bloomberg; Thompson Reuters; and EIA estimates.

Table 4. U.S. natural gas imports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet)

	2018	2017	2016	2018		2017	
	2-Month YTD	2-Month YTD	2-Month YTD	February	January	Total	December
<b>Imports</b>							
Volume (million cubic feet)							
<b>Pipeline</b>							
Canada <sup>a</sup>	519,814	524,604	503,411	233,056	R286,758	R2,960,505	R264,994
Mexico	936	157	129	805	130	1,346	504
<b>Total Pipeline Imports</b>	<b>520,750</b>	<b>524,761</b>	<b>503,540</b>	<b>233,861</b>	<b>R286,889</b>	<b>R2,961,851</b>	<b>R265,498</b>
<b>LNG</b>							
By Truck							
Canada	31	26	213	21	10	1,569	8
By Vessel							
Nigeria	0	2,753	0	0	0	5,992	3,239
Norway	0	0	0	0	0	0	0
Trinidad/Tobago	20,261	18,652	21,563	6,750	13,511	70,450	7,617
United Kingdom	3,119	0	0	0	3,119	0	0
<b>Total LNG Imports</b>	<b>23,410</b>	<b>21,432</b>	<b>21,776</b>	<b>6,771</b>	<b>16,640</b>	<b>78,011</b>	<b>10,864</b>
<b>CNG</b>							
Canada	58	60	59	29	28	345	31
<b>Total CNG Imports</b>	<b>58</b>	<b>60</b>	<b>59</b>	<b>29</b>	<b>28</b>	<b>345</b>	<b>31</b>
<b>Total Imports</b>	<b>544,218</b>	<b>546,253</b>	<b>525,375</b>	<b>240,661</b>	<b>R303,557</b>	<b>R3,040,207</b>	<b>R276,392</b>
Average Price (dollars per thousand cubic feet)							
<b>Pipeline</b>							
Canada	3.32	3.13	2.28	2.75	3.78	2.55	2.94
Mexico	4.24	3.13	1.35	4.38	3.38	2.93	3.42
<b>Total Pipeline Imports</b>	<b>3.32</b>	<b>3.13</b>	<b>2.28</b>	<b>2.76</b>	<b>3.78</b>	<b>2.55</b>	<b>2.94</b>
<b>LNG</b>							
By Truck							
Canada	7.43	8.52	8.41	7.17	7.94	8.63	8.19
By Vessel							
Nigeria	--	5.82	--	--	--	6.52	7.11
Norway	--	--	--	--	--	--	--
Trinidad/Tobago	6.10	5.89	5.29	5.95	6.18	4.32	4.88
United Kingdom	13.26	--	--	--	13.26	--	--
<b>Total LNG Imports</b>	<b>7.06</b>	<b>5.89</b>	<b>5.32</b>	<b>5.95</b>	<b>7.51</b>	<b>4.58</b>	<b>5.55</b>
<b>CNG</b>							
Canada	11.46	8.71	4.37	12.03	10.87	2.95	4.31
<b>Total CNG Imports</b>	<b>11.46</b>	<b>8.71</b>	<b>4.37</b>	<b>12.03</b>	<b>10.87</b>	<b>2.95</b>	<b>4.31</b>
<b>Total Imports</b>	<b>3.78</b>	<b>3.47</b>	<b>2.62</b>	<b>3.01</b>	<b>4.40</b>	<b>2.60</b>	<b>3.26</b>
<b>Net Imports - Volume</b>	<b>-33,016</b>	<b>19,439</b>	<b>194,098</b>	<b>-35,575</b>	<b>R2,560</b>	<b>R-127,650</b>	<b>R-23,032</b>

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

							2017
	November	October	September	August	July	June	May
<b>Imports</b>							
Volume (million cubic feet)							
<b>Pipeline</b>							
Canada <sup>a</sup>	236,438	241,425	226,738	239,935	245,212	234,061	238,527
Mexico	76	81	68	63	80	78	78
<b>Total Pipeline Imports</b>	<b>236,514</b>	<b>241,506</b>	<b>226,806</b>	<b>239,997</b>	<b>245,292</b>	<b>234,140</b>	<b>238,604</b>
<b>LNG</b>							
By Truck							
Canada	165	120	183	226	215	212	220
By Vessel							
Nigeria	0	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0
Trinidad/Tobago	6,213	2,337	2,467	7,636	4,974	5,425	5,275
United Kingdom	0	0	0	0	0	0	0
<b>Total LNG Imports</b>	<b>6,378</b>	<b>2,457</b>	<b>2,650</b>	<b>7,862</b>	<b>5,189</b>	<b>5,637</b>	<b>5,494</b>
<b>CNG</b>							
Canada	30	22	25	28	27	29	28
<b>Total CNG Imports</b>	<b>30</b>	<b>22</b>	<b>25</b>	<b>28</b>	<b>27</b>	<b>29</b>	<b>28</b>
<b>Total Imports</b>	<b>242,922</b>	<b>243,985</b>	<b>229,482</b>	<b>247,888</b>	<b>250,508</b>	<b>239,805</b>	<b>244,126</b>
Average Price (dollars per thousand cubic feet)							
<b>Pipeline</b>							
Canada	2.40	1.98	2.05	2.24	2.31	2.51	2.59
Mexico	2.44	2.43	2.64	2.31	2.62	2.77	2.62
<b>Total Pipeline Imports</b>	<b>2.40</b>	<b>1.98</b>	<b>2.05</b>	<b>2.24</b>	<b>2.31</b>	<b>2.51</b>	<b>2.59</b>
<b>LNG</b>							
By Truck							
Canada	8.12	8.33	8.66	8.69	8.78	8.91	8.88
By Vessel							
Nigeria	--	--	--	--	--	--	--
Norway	--	--	--	--	--	--	--
Trinidad/Tobago	3.47	4.20	3.74	3.19	3.21	3.37	3.65
United Kingdom	--	--	--	--	--	--	--
<b>Total LNG Imports</b>	<b>3.59</b>	<b>4.41</b>	<b>4.08</b>	<b>3.34</b>	<b>3.44</b>	<b>3.58</b>	<b>3.86</b>
<b>CNG</b>							
Canada	1.17	1.06	0.82	0.97	1.19	1.64	1.86
<b>Total CNG Imports</b>	<b>1.17</b>	<b>1.06</b>	<b>0.82</b>	<b>0.97</b>	<b>1.19</b>	<b>1.64</b>	<b>1.86</b>
<b>Total Imports</b>	<b>2.53</b>	<b>2.05</b>	<b>2.12</b>	<b>2.38</b>	<b>2.40</b>	<b>2.62</b>	<b>2.70</b>
<b>Net Imports - Volume</b>	<b>-45,432</b>	<b>-37,374</b>	<b>-20,798</b>	<b>8,969</b>	<b>2,080</b>	<b>-13,517</b>	<b>-9,737</b>

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2017				2016		
	April	March	February	January	Total	December	November
<b>Imports</b>							
Volume (million cubic feet)							
<b>Pipeline</b>							
Canada <sup>a</sup>	232,998	275,573	246,020	278,584	2,916,856	271,845	221,866
Mexico	79	83	74	83	917	64	83
<b>Total Pipeline Imports</b>	<b>233,077</b>	<b>275,656</b>	<b>246,094</b>	<b>278,666</b>	<b>2,917,774</b>	<b>271,910</b>	<b>221,949</b>
<b>LNG</b>							
By Truck							
Canada	186	8	8	18	924	16	41
By Vessel							
Nigeria	0	0	0	2,753	0	0	0
Norway	0	0	0	0	3,253	0	3,253
Trinidad/Tobago	4,985	4,870	8,468	10,183	84,190	8,838	5,779
United Kingdom	0	0	0	0	0	0	0
<b>Total LNG Imports</b>	<b>5,171</b>	<b>4,878</b>	<b>8,477</b>	<b>12,955</b>	<b>88,367</b>	<b>8,854</b>	<b>9,073</b>
<b>CNG</b>							
Canada	31	34	26	35	299	27	22
<b>Total CNG Imports</b>	<b>31</b>	<b>34</b>	<b>26</b>	<b>35</b>	<b>299</b>	<b>27</b>	<b>22</b>
<b>Total Imports</b>	<b>238,279</b>	<b>280,567</b>	<b>254,597</b>	<b>291,656</b>	<b>3,006,439</b>	<b>280,791</b>	<b>231,044</b>
Average Price (dollars per thousand cubic feet)							
<b>Pipeline</b>							
Canada	2.53	2.57	2.81	3.41	2.18	3.31	2.41
Mexico	2.64	2.27	2.94	3.29	1.85	2.56	2.34
<b>Total Pipeline Imports</b>	<b>2.53</b>	<b>2.57</b>	<b>2.81</b>	<b>3.41</b>	<b>2.18</b>	<b>3.31</b>	<b>2.41</b>
<b>LNG</b>							
By Truck							
Canada	8.49	7.05	7.22	9.12	8.07	7.51	7.92
By Vessel							
Nigeria	--	--	--	5.82	--	--	--
Norway	--	--	--	--	3.12	--	3.12
Trinidad/Tobago	3.56	4.34	6.39	5.48	4.06	4.62	5.96
United Kingdom	--	--	--	--	--	--	--
<b>Total LNG Imports</b>	<b>3.74</b>	<b>4.35</b>	<b>6.39</b>	<b>5.56</b>	<b>4.07</b>	<b>4.63</b>	<b>4.95</b>
<b>CNG</b>							
Canada	1.76	1.91	6.07	10.64	1.97	3.24	0.97
<b>Total CNG Imports</b>	<b>1.76</b>	<b>1.91</b>	<b>6.07</b>	<b>10.64</b>	<b>1.97</b>	<b>3.24</b>	<b>0.97</b>
<b>Total Imports</b>	<b>2.64</b>	<b>2.68</b>	<b>3.14</b>	<b>3.75</b>	<b>2.24</b>	<b>3.50</b>	<b>2.70</b>
<b>Net Imports - Volume</b>	<b>-8,973</b>	<b>8,724</b>	<b>-349</b>	<b>19,789</b>	<b>670,991</b>	<b>29,955</b>	<b>3,125</b>

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	October	September	August	July	June	May	2016 April
<b>Imports</b>							
Volume (million cubic feet)							
<b>Pipeline</b>							
Canada <sup>a</sup>	225,588	235,512	253,793	259,132	234,145	243,017	236,451
Mexico	83	82	90	92	83	72	71
<b>Total Pipeline Imports</b>	<b>225,671</b>	<b>235,594</b>	<b>253,883</b>	<b>259,224</b>	<b>234,229</b>	<b>243,088</b>	<b>236,522</b>
<b>LNG</b>							
By Truck							
Canada	58	72	84	70	118	113	74
By Vessel							
Nigeria	0	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0
Trinidad/Tobago	5,696	2,810	7,998	5,703	7,520	5,087	4,693
United Kingdom	0	0	0	0	0	0	0
<b>Total LNG Imports</b>	<b>5,753</b>	<b>2,882</b>	<b>8,082</b>	<b>5,773</b>	<b>7,638</b>	<b>5,200</b>	<b>4,767</b>
<b>CNG</b>							
Canada	25	15	17	25	19	29	28
<b>Total CNG Imports</b>	<b>25</b>	<b>15</b>	<b>17</b>	<b>25</b>	<b>19</b>	<b>29</b>	<b>28</b>
<b>Total Imports</b>	<b>231,449</b>	<b>238,491</b>	<b>261,983</b>	<b>265,022</b>	<b>241,885</b>	<b>248,317</b>	<b>241,317</b>
Average Price (dollars per thousand cubic feet)							
<b>Pipeline</b>							
Canada	2.50	2.42	2.29	2.26	1.76	1.44	1.51
Mexico	2.50	2.43	2.27	2.45	1.41	1.10	1.03
<b>Total Pipeline Imports</b>	<b>2.50</b>	<b>2.42</b>	<b>2.29</b>	<b>2.26</b>	<b>1.76</b>	<b>1.44</b>	<b>1.51</b>
<b>LNG</b>							
By Truck							
Canada	7.93	8.04	8.11	7.95	7.80	7.72	7.88
By Vessel							
Nigeria	--	--	--	--	--	--	--
Norway	--	--	--	--	--	--	--
Trinidad/Tobago	3.05	3.13	3.17	3.15	3.11	3.36	3.23
United Kingdom	--	--	--	--	--	--	--
<b>Total LNG Imports</b>	<b>3.10</b>	<b>3.25</b>	<b>3.23</b>	<b>3.21</b>	<b>3.18</b>	<b>3.45</b>	<b>3.30</b>
<b>CNG</b>							
Canada	0.72	1.22	1.20	1.62	0.63	1.10	1.05
<b>Total CNG Imports</b>	<b>0.72</b>	<b>1.22</b>	<b>1.20</b>	<b>1.62</b>	<b>0.63</b>	<b>1.10</b>	<b>1.05</b>
<b>Total Imports</b>	<b>2.59</b>	<b>2.47</b>	<b>2.42</b>	<b>2.35</b>	<b>1.90</b>	<b>1.55</b>	<b>1.61</b>
<b>Net Imports - Volume</b>	<b>54,983</b>	<b>36,505</b>	<b>47,757</b>	<b>76,339</b>	<b>58,872</b>	<b>60,043</b>	<b>63,464</b>

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2016		
	March	February	January
<b>Imports</b>			
Volume (million cubic feet)			
<b>Pipeline</b>			
Canada <sup>a</sup>	232,095	241,948	261,462
Mexico	69	70	59
<b>Total Pipeline Imports</b>	<b>232,164</b>	<b>242,019</b>	<b>261,521</b>
<b>LNG</b>			
By Truck			
Canada	65	116	97
By Vessel			
Nigeria	0	0	0
Norway	0	0	0
Trinidad/Tobago	8,503	9,612	11,951
United Kingdom	0	0	0
<b>Total LNG Imports</b>	<b>8,568</b>	<b>9,728</b>	<b>12,048</b>
<b>CNG</b>			
Canada	33	29	30
<b>Total CNG Imports</b>	<b>33</b>	<b>29</b>	<b>30</b>
<b>Total Imports</b>	<b>240,764</b>	<b>251,775</b>	<b>273,600</b>
Average Price (dollars per thousand cubic feet)			
<b>Pipeline</b>			
Canada	1.55	2.12	2.42
Mexico	0.82	1.22	1.50
<b>Total Pipeline Imports</b>	<b>1.55</b>	<b>2.12</b>	<b>2.42</b>
<b>LNG</b>			
By Truck			
Canada	8.74	8.58	8.21
By Vessel			
Nigeria	--	--	--
Norway	--	--	--
Trinidad/Tobago	3.25	5.08	5.45
United Kingdom	--	--	--
<b>Total LNG Imports</b>	<b>3.29</b>	<b>5.12</b>	<b>5.48</b>
<b>CNG</b>			
Canada	1.54	3.27	5.41
<b>Total CNG Imports</b>	<b>1.54</b>	<b>3.27</b>	<b>5.41</b>
<b>Total Imports</b>	<b>1.73</b>	<b>2.43</b>	<b>2.80</b>
<b>Net Imports - Volume</b>	<b>45,849</b>	<b>89,019</b>	<b>105,079</b>

<sup>a</sup> EIA has reduced the reported volume of gas imported by pipeline from Canada by the amount of natural gas liquids removed from the saturated natural gas carried by Alliance Pipeline. Alliance moves saturated natural gas from the border to a processing plant in Illinois. After the adjustment, volumes of imported natural gas on this pipeline are on the same physical basis as other reported volumes of pipeline imports.

<sup>b</sup> For the "Other" area the point of origin for volumes of imported LNG was unassigned in the reports to the Office of Fossil Energy.

<sup>R</sup> Revised data.

-- Not applicable.

**Note:** In the case of missing import or export reports on Form FE-746R, "Import and Export of Natural Gas," EIA estimates the missing volumes using pipeline flows or other available information. Prices are in nominal dollars. LNG prices are a volume-weighted average of the prices reported by cargo. See the "LNG Monthly" (<https://energy.gov/fe/listings/lng-reports>) from the Office of Fossil Energy, U.S. Department of Energy, for more information on what is included in the individual LNG prices.

**Source:** Office of Fossil Energy, U.S. Department of Energy, "Natural Gas Imports and Exports."

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet)

	2018	2017	2016	2018		2017	
	2-Month YTD	2-Month YTD	2-Month YTD	February	January	Total	December
<b>Exports</b>							
Volume (million cubic feet)							
<b>Pipeline</b>							
Canada	168,692	186,609	131,820	76,869	\$91,823	917,087	81,050
Mexico	262,382	236,785	196,075	125,684	\$136,698	1,543,056	135,756
<b>Total Pipeline Exports</b>	<b>431,074</b>	<b>423,394</b>	<b>327,896</b>	<b>202,552</b>	<b>\$228,522</b>	<b>2,460,144</b>	<b>216,807</b>
<b>LNG</b>							
Exports							
By Vessel							
Argentina	0	0	0	0	0	16,276	0
Bahamas	16	0	0	12	4	2	2
Barbados	40	37	2	20	20	200	19
Brazil	0	0	1,993	0	0	17,648	0
Chile	6,187	2,950	0	3,249	2,938	25,746	3,362
China	20,334	13,729	0	6,750	13,584	103,410	23,433
Dominican Republic	0	0	0	0	0	8,691	0
Egypt	6,554	0	0	0	6,554	6,781	0
India	3,596	7,022	0	0	3,596	20,919	3,427
Italy	0	0	0	0	0	6,493	0
Japan	10,714	14,238	0	7,099	3,615	\$53,218	13,893
Jordan	3,300	8,312	0	3,300	0	36,321	7,135
Kuwait	0	3,378	0	0	0	20,213	0
Lithuania	0	0	0	0	0	6,844	0
Malta	0	867	0	0	0	867	0
Mexico	25,208	28,417	0	14,777	10,431	140,321	3,635
Netherlands	0	0	0	0	0	3,042	0
Pakistan	3,368	0	0	0	3,368	3,166	0
Poland	0	0	0	0	0	3,440	0
Portugal	3,247	5,134	0	0	3,247	19,523	0
South Korea	49,608	0	0	28,322	21,286	130,185	20,810
Spain	0	11,768	0	0	0	29,329	3,370
Taiwan	6,806	0	0	6,806	0	9,004	0
Thailand	0	0	0	0	0	3,113	0
Turkey	6,992	7,402	0	3,279	3,714	24,855	3,413
United Arab Emirates	0	0	0	0	0	13,408	0
United Kingdom	0	0	0	0	0	3,410	0
By Truck							
Canada	15	0	2	15	0	5	0
Mexico	161	129	48	56	105	691	105
Re-Exports							
By Vessel							
Argentina	0	0	0	0	0	0	0
Brazil	0	0	1,290	0	0	0	0
India	0	0	0	0	0	0	0
Mexico	0	0	0	0	0	422	0
<b>Total LNG Exports</b>	<b>146,147</b>	<b>103,383</b>	<b>3,336</b>	<b>73,684</b>	<b>72,463</b>	<b>\$707,542</b>	<b>82,604</b>
<b>CNG</b>							
Canada	13	36	46	0	13	171	13
<b>Total CNG Exports</b>	<b>13</b>	<b>36</b>	<b>46</b>	<b>0</b>	<b>13</b>	<b>171</b>	<b>13</b>
<b>Total Exports</b>	<b>577,234</b>	<b>526,814</b>	<b>331,278</b>	<b>276,236</b>	<b>\$300,997</b>	<b>\$3,167,857</b>	<b>299,424</b>

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

							2017
	November	October	September	August	July	June	May
<b>Exports</b>							
Volume (million cubic feet)							
<b>Pipeline</b>							
Canada	74,427	68,382	69,823	66,342	59,760	66,725	63,949
Mexico	133,807	132,778	125,724	135,108	135,068	134,118	129,110
<b>Total Pipeline Exports</b>	<b>208,234</b>	<b>201,160</b>	<b>195,548</b>	<b>201,450</b>	<b>194,828</b>	<b>200,844</b>	<b>193,058</b>
<b>LNG</b>							
Exports							
By Vessel							
Argentina	0	0	0	0	0	2,949	3,192
Bahamas	0	0	0	0	0	0	0
Barbados	20	17	14	16	10	16	15
Brazil	0	6,967	3,364	0	3,642	0	3,676
Chile	0	3,675	0	0	3,256	3,657	0
China	20,871	24,588	10,056	0	7,218	0	3,514
Dominican Republic	2,835	0	2,922	0	0	0	0
Egypt	0	0	0	3,317	3,464	0	0
India	7,057	0	0	0	0	3,413	0
Italy	0	0	0	3,372	0	3,120	0
Japan	0	6,725	0	3,614	0	3,683	3,667
Jordan	0	3,373	0	7,393	0	0	3,453
Kuwait	0	0	0	0	3,410	0	3,281
Lithuania	0	0	3,414	3,431	0	0	0
Malta	0	0	0	0	0	0	0
Mexico	10,760	6,686	10,286	6,860	14,432	24,763	10,023
Netherlands	0	0	0	0	0	0	3,042
Pakistan	0	0	0	0	0	0	0
Poland	0	0	0	0	0	0	3,440
Portugal	3,702	0	0	3,399	3,662	0	3,625
South Korea	21,141	21,577	17,514	10,320	14,238	7,431	6,818
Spain	3,617	2,980	3,666	3,712	217	0	0
Taiwan	2,934	3,121	0	0	0	0	2,949
Thailand	0	0	0	0	0	0	0
Turkey	7,076	0	3,443	0	0	0	0
United Arab Emirates	0	0	0	0	0	0	10,062
United Kingdom	0	0	0	0	0	3,410	0
By Truck							
Canada	2	0	0	0	0	0	0
Mexico	86	65	53	33	44	19	26
Re-Exports							
By Vessel							
Argentina	0	0	0	0	0	0	0
Brazil	0	0	0	0	0	0	0
India	0	0	0	0	0	0	0
Mexico	0	422	0	0	0	0	0
<b>Total LNG Exports</b>	<b>80,100</b>	<b>80,195</b>	<b>54,733</b>	<b>45,468</b>	<b>53,592</b>	<b>52,462</b>	<b>60,782</b>
<b>CNG</b>							
Canada	20	4	0	1	8	16	23
<b>Total CNG Exports</b>	<b>20</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>8</b>	<b>16</b>	<b>23</b>
<b>Total Exports</b>	<b>288,354</b>	<b>281,359</b>	<b>250,280</b>	<b>246,919</b>	<b>248,428</b>	<b>253,322</b>	<b>253,864</b>

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2017				2016		
	April	March	February	January	Total	December	November
<b>Exports</b>							
Volume (million cubic feet)							
<b>Pipeline</b>							
Canada	80,532	99,489	87,798	98,811	771,094	97,178	74,544
Mexico	116,027	128,774	115,089	121,696	1,377,305	111,815	120,378
<b>Total Pipeline Exports</b>	<b>196,559</b>	<b>228,263</b>	<b>202,887</b>	<b>220,508</b>	<b>2,148,399</b>	<b>208,993</b>	<b>194,922</b>
<b>LNG</b>							
Exports							
By Vessel							
Argentina	10,135	0	0	0	16,661	0	0
Bahamas	0	0	0	0	0	0	0
Barbados	15	20	15	22	100	22	18
Brazil	0	0	0	0	9,196	0	0
Chile	5,894	2,951	2,950	0	29,405	0	2,940
China	0	0	10,338	3,391	17,221	6,747	7,341
Dominican Republic	0	2,934	0	0	2,945	0	0
Egypt	0	0	0	0	3,606	3,606	0
India	0	0	3,399	3,623	16,915	0	3,115
Italy	0	0	0	0	3,328	0	3,328
Japan	7,398	0	3,705	10,533	11,137	11,137	0
Jordan	0	6,655	2,945	5,368	9,870	0	0
Kuwait	6,784	3,360	3,378	0	7,068	0	0
Lithuania	0	0	0	0	0	0	0
Malta	0	0	0	867	0	0	0
Mexico	13,730	10,728	14,407	14,010	27,470	7,169	13,300
Netherlands	0	0	0	0	0	0	0
Pakistan	0	3,166	0	0	0	0	0
Poland	0	0	0	0	0	0	0
Portugal	0	0	1,692	3,442	3,700	0	0
South Korea	3,295	7,042	0	0	10,166	10,166	0
Spain	0	0	1,766	10,002	2,930	0	0
Taiwan	0	0	0	0	0	0	0
Thailand	0	3,113	0	0	0	0	0
Turkey	0	3,521	7,402	0	8,762	2,936	2,886
United Arab Emirates	3,347	0	0	0	3,391	0	0
United Kingdom	0	0	0	0	0	0	0
By Truck							
Canada	0	3	0	0	2	0	0
Mexico	70	61	44	85	375	42	48
Re-Exports							
By Vessel							
Argentina	0	0	0	0	612	0	0
Brazil	0	0	0	0	1,433	0	0
India	0	0	0	0	547	0	0
Mexico	0	0	0	0	0	0	0
<b>Total LNG Exports</b>	<b>50,669</b>	<b>43,553</b>	<b>52,042</b>	<b>51,342</b>	<b>186,841</b>	<b>41,825</b>	<b>32,976</b>
<b>CNG</b>							
Canada	24	27	18	19	208	18	22
<b>Total CNG Exports</b>	<b>24</b>	<b>27</b>	<b>18</b>	<b>19</b>	<b>208</b>	<b>18</b>	<b>22</b>
<b>Total Exports</b>	<b>247,251</b>	<b>271,843</b>	<b>254,946</b>	<b>271,868</b>	<b>2,335,448</b>	<b>250,836</b>	<b>227,919</b>

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2016						
	October	September	August	July	June	May	April
<b>Exports</b>							
Volume (million cubic feet)							
<b>Pipeline</b>							
Canada	43,471	61,499	55,012	49,750	50,715	62,768	62,931
Mexico	129,984	123,722	132,446	123,173	115,836	115,606	104,857
<b>Total Pipeline Exports</b>	<b>173,455</b>	<b>185,222</b>	<b>187,458</b>	<b>172,923</b>	<b>166,551</b>	<b>178,375</b>	<b>167,789</b>
<b>LNG</b>							
Exports							
By Vessel							
Argentina	0	0	2,190	0	8,161	0	6,310
Bahamas	0	0	0	0	0	0	0
Barbados	15	14	11	8	2	1	3
Brazil	0	0	3,933	0	0	0	0
Chile	0	0	9,518	6,074	4,643	6,230	0
China	0	0	0	3,132	0	0	0
Dominican Republic	0	0	2,945	0	0	0	0
Egypt	0	0	0	0	0	0	0
India	0	3,639	3,701	0	3,617	0	0
Italy	0	0	0	0	0	0	0
Japan	0	0	0	0	0	0	0
Jordan	2,942	3,362	0	3,566	0	0	0
Kuwait	0	3,458	0	0	0	3,610	0
Lithuania	0	0	0	0	0	0	0
Malta	0	0	0	0	0	0	0
Mexico	0	3,315	3,686	0	0	0	0
Netherlands	0	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0	0
Poland	0	0	0	0	0	0	0
Portugal	0	0	0	0	0	0	3,700
South Korea	0	0	0	0	0	0	0
Spain	0	0	0	2,930	0	0	0
Taiwan	0	0	0	0	0	0	0
Thailand	0	0	0	0	0	0	0
Turkey	0	2,941	0	0	0	0	0
United Arab Emirates	0	0	0	0	0	0	0
United Kingdom	0	0	0	0	0	0	0
By Truck							
Canada	1	0	0	0	0	0	0
Mexico	42	35	30	28	22	33	23
Re-Exports							
By Vessel							
Argentina	0	0	612	0	0	0	0
Brazil	0	0	142	0	0	0	0
India	0	0	0	0	0	0	0
Mexico	0	0	0	0	0	0	0
<b>Total LNG Exports</b>	<b>3,000</b>	<b>16,764</b>	<b>26,768</b>	<b>15,739</b>	<b>16,445</b>	<b>9,874</b>	<b>10,036</b>
<b>CNG</b>							
Canada	11	0	0	20	18	25	28
<b>Total CNG Exports</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>18</b>	<b>25</b>	<b>28</b>
<b>Total Exports</b>	<b>176,466</b>	<b>201,986</b>	<b>214,226</b>	<b>188,682</b>	<b>183,013</b>	<b>188,274</b>	<b>177,853</b>

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2016		
	March	February	January
<b>Exports</b>			
Volume (million cubic feet)			
<b>Pipeline</b>			
Canada	81,403	62,192	69,629
Mexico	103,413	97,234	98,841
<b>Total Pipeline Exports</b>	<b>184,816</b>	<b>159,426</b>	<b>168,470</b>
<b>LNG</b>			
Exports			
By Vessel			
Argentina	0	0	0
Bahamas	0	0	0
Barbados	2	2	0
Brazil	3,270	1,993	0
Chile	0	0	0
China	0	0	0
Dominican Republic	0	0	0
Egypt	0	0	0
India	2,844	0	0
Italy	0	0	0
Japan	0	0	0
Jordan	0	0	0
Kuwait	0	0	0
Lithuania	0	0	0
Malta	0	0	0
Mexico	0	0	0
Netherlands	0	0	0
Pakistan	0	0	0
Poland	0	0	0
Portugal	0	0	0
South Korea	0	0	0
Spain	0	0	0
Taiwan	0	0	0
Thailand	0	0	0
Turkey	0	0	0
United Arab Emirates	3,391	0	0
United Kingdom	0	0	0
By Truck			
Canada	0	0	2
Mexico	24	24	25
Re-Exports			
By Vessel			
Argentina	0	0	0
Brazil	0	1,290	0
India	547	0	0
Mexico	0	0	0
<b>Total LNG Exports</b>	<b>10,078</b>	<b>3,309</b>	<b>26</b>
<b>CNG</b>			
Canada	21	22	25
<b>Total CNG Exports</b>	<b>21</b>	<b>22</b>	<b>25</b>
<b>Total Exports</b>	<b>194,915</b>	<b>162,757</b>	<b>168,521</b>

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2018	2017	2016	2018		2017	
	2-Month YTD	2-Month YTD	2-Month YTD	February	January	Total	December
<b>Exports</b>							
Average Price (dollars per thousand cubic feet)							
<b>Pipeline</b>							
Canada	3.71	3.55	2.51	3.16	4.18	3.12	3.19
Mexico	3.53	3.46	2.33	3.41	3.64	3.26	3.34
<b>Total Pipeline Exports</b>	<b>3.60</b>	<b>3.50</b>	<b>2.40</b>	<b>3.31</b>	<b>3.86</b>	<b>3.20</b>	<b>3.28</b>
<b>LNG</b>							
Exports							
By Vessel							
Argentina	--	--	--	--	--	4.64	--
Bahamas	10.39	--	--	10.39	10.39	10.40	10.40
Barbados	10.39	10.40	10.00	10.39	10.39	10.40	10.40
Brazil	--	--	3.54	--	--	4.15	--
Chile	3.83	7.18	--	4.34	3.27	5.43	3.68
China	5.20	4.86	--	5.93	4.84	4.32	4.87
Dominican Republic	--	--	--	--	--	4.15	--
Egypt	3.27	--	--	--	3.27	4.93	--
India	3.27	4.39	--	--	3.27	4.84	6.80
Italy	--	--	--	--	--	3.95	--
Japan	6.04	6.79	--	7.46	3.27	6.14	5.87
Jordan	4.34	5.58	--	4.34	--	4.40	3.68
Kuwait	--	5.50	--	--	--	4.38	--
Lithuania	--	--	--	--	--	3.84	--
Malta	--	4.70	--	--	--	4.70	--
Mexico	4.68	6.77	--	4.85	4.43	4.93	3.68
Netherlands	--	--	--	--	--	6.35	--
Pakistan	3.27	--	--	--	3.27	3.14	--
Poland	--	--	--	--	--	4.26	--
Portugal	3.27	7.25	--	--	3.27	5.65	--
South Korea	5.62	--	--	5.85	5.31	4.18	4.20
Spain	--	6.41	--	--	--	4.94	5.73
Taiwan	5.89	--	--	5.89	--	4.77	--
Thailand	--	--	--	--	--	3.14	--
Turkey	3.77	6.91	--	4.34	3.27	4.84	3.68
United Arab Emirates	--	--	--	--	--	3.87	--
United Kingdom	--	--	--	--	--	3.87	--
By Truck							
Canada	13.69	--	7.41	13.63	19.21	8.05	--
Mexico	7.82	9.76	10.57	8.43	7.49	8.74	8.11
Re-Exports							
By Vessel							
Argentina	--	--	--	--	--	--	--
Brazil	--	--	3.54	--	--	--	--
India	--	--	--	--	--	--	--
Mexico	--	--	--	--	--	5.00	--
<b>Total LNG Exports</b>	<b>4.99</b>	<b>6.21</b>	<b>3.65</b>	<b>5.62</b>	<b>4.34</b>	<b>4.69</b>	<b>4.74</b>
<b>CNG</b>							
Canada	12.47	10.41	3.84	--	12.47	4.76	6.53
<b>Total CNG Exports</b>	<b>12.47</b>	<b>10.41</b>	<b>3.84</b>	<b>--</b>	<b>12.47</b>	<b>4.76</b>	<b>6.53</b>
<b>Total Exports</b>	<b>3.95</b>	<b>4.03</b>	<b>2.41</b>	<b>3.93</b>	<b>3.97</b>	<b>3.54</b>	<b>3.68</b>

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

							2017
	November	October	September	August	July	June	May
<b>Exports</b>							
Average Price (dollars per thousand cubic feet)							
<b>Pipeline</b>							
Canada	2.99	2.78	2.88	2.84	2.90	3.02	3.16
Mexico	3.29	3.28	3.29	3.27	3.22	3.13	3.20
<b>Total Pipeline Exports</b>	<b>3.18</b>	<b>3.11</b>	<b>3.14</b>	<b>3.13</b>	<b>3.12</b>	<b>3.10</b>	<b>3.19</b>
<b>LNG</b>							
Exports							
By Vessel							
Argentina	--	--	--	--	--	3.87	4.77
Bahamas	--	--	--	--	--	--	--
Barbados	10.40	10.40	10.40	10.40	10.40	10.40	10.40
Brazil	--	4.14	3.55	--	4.23	--	4.63
Chile	--	3.56	--	--	3.67	6.46	--
China	4.60	3.56	3.99	--	3.67	--	4.62
Dominican Republic	3.30	--	3.55	--	--	--	--
Egypt	--	--	--	3.55	6.26	--	--
India	4.41	--	--	--	--	4.67	--
Italy	--	--	--	3.55	--	4.38	--
Japan	--	3.56	--	6.14	--	6.99	6.88
Jordan	--	5.45	--	3.55	--	--	3.76
Kuwait	--	--	--	--	4.51	--	4.77
Lithuania	--	--	3.55	4.13	--	--	--
Malta	--	--	--	--	--	--	--
Mexico	4.85	5.54	3.98	3.55	4.17	4.40	4.67
Netherlands	--	--	--	--	--	--	6.35
Pakistan	--	--	--	--	--	--	--
Poland	--	--	--	--	--	--	4.26
Portugal	3.29	--	--	4.38	6.26	--	6.35
South Korea	4.60	4.15	4.05	3.59	3.67	3.87	4.88
Spain	3.29	3.56	3.55	3.55	6.26	--	--
Taiwan	6.41	3.56	--	--	--	--	4.43
Thailand	--	--	--	--	--	--	--
Turkey	3.98	--	3.55	--	--	--	--
United Arab Emirates	--	--	--	--	--	--	3.89
United Kingdom	--	--	--	--	--	3.87	--
By Truck							
Canada	7.35	--	--	--	--	--	--
Mexico	7.94	8.43	8.67	8.94	8.79	9.04	8.90
Re-Exports							
By Vessel							
Argentina	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--
Mexico	--	5.00	--	--	--	--	--
<b>Total LNG Exports</b>	<b>4.47</b>	<b>4.02</b>	<b>3.88</b>	<b>3.88</b>	<b>4.26</b>	<b>4.61</b>	<b>4.80</b>
<b>CNG</b>							
Canada	1.38	1.00	--	2.50	2.72	3.14	3.39
<b>Total CNG Exports</b>	<b>1.38</b>	<b>1.00</b>	--	<b>2.50</b>	<b>2.72</b>	<b>3.14</b>	<b>3.39</b>
<b>Total Exports</b>	<b>3.54</b>	<b>3.37</b>	<b>3.30</b>	<b>3.27</b>	<b>3.37</b>	<b>3.41</b>	<b>3.57</b>

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2017				2016		
	April	March	February	January	Total	December	November
<b>Exports</b>							
Average Price (dollars per thousand cubic feet)							
<b>Pipeline</b>							
Canada	3.19	3.01	3.22	3.85	2.60	3.82	2.71
Mexico	3.27	2.93	3.24	3.66	2.64	3.51	2.75
<b>Total Pipeline Exports</b>	<b>3.24</b>	<b>2.97</b>	<b>3.23</b>	<b>3.74</b>	<b>2.63</b>	<b>3.65</b>	<b>2.74</b>
<b>LNG</b>							
Exports							
By Vessel							
Argentina	4.82	--	--	--	4.47	--	--
Bahamas	--	--	--	--	--	--	--
Barbados	10.40	10.40	10.40	10.40	10.12	10.00	10.00
Brazil	--	--	--	--	4.39	--	--
Chile	6.65	6.26	7.18	--	5.30	--	5.64
China	--	--	4.92	4.70	4.16	4.50	3.21
Dominican Republic	--	5.59	--	--	5.41	--	--
Egypt	--	--	--	--	6.46	6.46	--
India	--	--	4.06	4.70	4.92	--	5.74
Italy	--	--	--	--	6.32	--	6.32
Japan	6.92	--	7.18	6.65	3.76	3.76	--
Jordan	--	4.42	4.06	6.41	5.11	--	--
Kuwait	4.19	3.14	5.50	--	4.40	--	--
Lithuania	--	--	--	--	--	--	--
Malta	--	--	--	4.70	--	--	--
Mexico	4.31	5.25	6.40	7.15	4.56	4.14	4.64
Netherlands	--	--	--	--	--	--	--
Pakistan	--	3.14	--	--	--	--	--
Poland	--	--	--	--	--	--	--
Portugal	--	--	7.18	7.29	3.58	--	--
South Korea	6.39	3.81	--	--	5.75	5.75	--
Spain	--	--	7.18	6.28	4.92	--	--
Taiwan	--	--	--	--	--	--	--
Thailand	--	3.14	--	--	--	--	--
Turkey	--	4.60	6.91	--	3.53	3.87	3.30
United Arab Emirates	3.80	--	--	--	4.18	--	--
United Kingdom	--	--	--	--	--	--	--
By Truck							
Canada	--	8.39	--	--	7.50	--	--
Mexico	8.95	8.64	9.97	9.66	9.81	10.20	9.72
Re-Exports							
By Vessel							
Argentina	--	--	--	--	4.51	--	--
Brazil	--	--	--	--	3.64	--	--
India	--	--	--	--	3.99	--	--
Mexico	--	--	--	--	--	--	--
<b>Total LNG Exports</b>	<b>5.16</b>	<b>4.47</b>	<b>5.99</b>	<b>6.44</b>	<b>4.71</b>	<b>4.68</b>	<b>4.58</b>
<b>CNG</b>							
Canada	3.35	3.32	7.73	12.97	3.30	4.72	2.55
<b>Total CNG Exports</b>	<b>3.35</b>	<b>3.32</b>	<b>7.73</b>	<b>12.97</b>	<b>3.30</b>	<b>4.72</b>	<b>2.55</b>
<b>Total Exports</b>	<b>3.63</b>	<b>3.21</b>	<b>3.79</b>	<b>4.25</b>	<b>2.79</b>	<b>3.82</b>	<b>3.00</b>

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	October	September	August	July	June	May	2016 April
<b>Exports</b>							
Average Price (dollars per thousand cubic feet)							
<b>Pipeline</b>							
Canada	2.72	2.83	2.65	2.73	2.23	1.98	2.07
Mexico	3.16	3.06	2.92	2.80	2.46	2.06	2.03
<b>Total Pipeline Exports</b>	<b>3.05</b>	<b>2.99</b>	<b>2.84</b>	<b>2.78</b>	<b>2.39</b>	<b>2.03</b>	<b>2.04</b>
<b>LNG</b>							
Exports							
By Vessel							
Argentina	--	--	4.51	--	4.71	--	4.16
Bahamas	--	--	--	--	--	--	--
Barbados	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Brazil	--	--	5.29	--	--	--	--
Chile	--	--	5.53	5.82	4.69	4.72	--
China	--	--	--	5.66	--	--	--
Dominican Republic	--	--	5.41	--	--	--	--
Egypt	--	--	--	--	--	--	--
India	--	5.00	5.01	--	4.77	--	--
Italy	--	--	--	--	--	--	--
Japan	--	--	--	--	--	--	--
Jordan	3.52	5.74	--	5.81	--	--	--
Kuwait	--	5.58	--	--	--	3.27	--
Lithuania	--	--	--	--	--	--	--
Malta	--	--	--	--	--	--	--
Mexico	--	5.53	4.23	--	--	--	--
Netherlands	--	--	--	--	--	--	--
Pakistan	--	--	--	--	--	--	--
Poland	--	--	--	--	--	--	--
Portugal	--	--	--	--	--	--	3.58
South Korea	--	--	--	--	--	--	--
Spain	--	--	--	4.92	--	--	--
Taiwan	--	--	--	--	--	--	--
Thailand	--	--	--	--	--	--	--
Turkey	--	3.41	--	--	--	--	--
United Arab Emirates	--	--	--	--	--	--	--
United Kingdom	--	--	--	--	--	--	--
By Truck							
Canada	7.70	--	--	--	--	--	--
Mexico	10.06	9.78	9.72	9.76	9.43	9.67	8.99
Re-Exports							
By Vessel							
Argentina	--	--	4.51	--	--	--	--
Brazil	--	--	4.57	--	--	--	--
India	--	--	--	--	--	--	--
Mexico	--	--	--	--	--	--	--
<b>Total LNG Exports</b>	<b>3.65</b>	<b>5.11</b>	<b>5.13</b>	<b>5.63</b>	<b>4.72</b>	<b>4.21</b>	<b>3.96</b>
<b>CNG</b>							
Canada	2.53	--	--	3.88	2.80	3.22	2.58
<b>Total CNG Exports</b>	<b>2.53</b>	<b>--</b>	<b>--</b>	<b>3.88</b>	<b>2.80</b>	<b>3.22</b>	<b>2.58</b>
<b>Total Exports</b>	<b>3.06</b>	<b>3.16</b>	<b>3.13</b>	<b>3.02</b>	<b>2.60</b>	<b>2.15</b>	<b>2.15</b>

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2016		
	March	February	January
<b>Exports</b>			
Average Price (dollars per thousand cubic feet)			
<b>Pipeline</b>			
Canada	1.99	2.34	2.66
Mexico	1.88	2.20	2.45
<b>Total Pipeline Exports</b>	<b>1.93</b>	<b>2.26</b>	<b>2.54</b>
<b>LNG</b>			
Exports			
By Vessel			
Argentina	--	--	--
Bahamas	--	--	--
Barbados	15.19	10.00	--
Brazil	3.83	3.54	--
Chile	--	--	--
China	--	--	--
Dominican Republic	--	--	--
Egypt	--	--	--
India	3.98	--	--
Italy	--	--	--
Japan	--	--	--
Jordan	--	--	--
Kuwait	--	--	--
Lithuania	--	--	--
Malta	--	--	--
Mexico	--	--	--
Netherlands	--	--	--
Pakistan	--	--	--
Poland	--	--	--
Portugal	--	--	--
South Korea	--	--	--
Spain	--	--	--
Taiwan	--	--	--
Thailand	--	--	--
Turkey	--	--	--
United Arab Emirates	4.18	--	--
United Kingdom	--	--	--
By Truck			
Canada	--	--	7.41
Mexico	8.96	10.16	10.96
Re-Exports			
By Vessel			
Argentina	--	--	--
Brazil	--	3.54	--
India	3.98	--	--
Mexico	--	--	--
<b>Total LNG Exports</b>	<b>4.01</b>	<b>3.59</b>	<b>10.74</b>
<b>CNG</b>			
Canada	3.05	2.42	5.09
<b>Total CNG Exports</b>	<b>3.05</b>	<b>2.42</b>	<b>5.09</b>
<b>Total Exports</b>	<b>2.04</b>	<b>2.28</b>	<b>2.54</b>

<sup>R</sup> Revised data.

-- Not applicable.

**Notes:** In the case of missing import or export reports on Form FE-746R, "Import and Export of Natural Gas," EIA estimates the missing volumes using pipeline flows or other available information. LNG re-exports are shipments of LNG to foreign countries that were previously imported, offloaded into above-ground LNG storage tanks, and then subsequently reloaded onto tankers for delivery to other countries. Prices are in nominal dollars. LNG prices are a volume-weighted average of the prices reported by cargo. See the "LNG Monthly" (<https://energy.gov/fe/listings/lng-reports>) from the Office of Fossil Energy, U.S. Department of Energy, for more information on what is included in the individual LNG prices.

**Source:** Office of Fossil Energy, U.S. Department of Energy, "Natural Gas Imports and Exports."

Table 6. Gross withdrawals of natural gas in selected states and the Federal Gulf of Mexico, 2013-2018

(million cubic feet)

Year and Month	Alaska	Arkansas	California	Colorado	Kansas	Louisiana	Montana	New Mexico	North Dakota	Ohio
<b>2013 Total</b>	<b>3,215,358</b>	<b>1,139,654</b>	<b>252,310</b>	<b>1,604,860</b>	<b>292,467</b>	<b>2,366,943</b>	<b>63,242</b>	<b>1,247,394</b>	<b>345,787</b>	<b>166,017</b>
<b>2014 Total</b>	<b>3,168,545</b>	<b>1,122,733</b>	<b>238,988</b>	<b>1,643,487</b>	<b>286,480</b>	<b>1,968,618</b>	<b>59,160</b>	<b>1,266,379</b>	<b>463,216</b>	<b>512,371</b>
<b>2015 Total</b>	<b>3,175,301</b>	<b>1,010,382</b>	<b>236,648</b>	<b>1,688,733</b>	<b>284,184</b>	<b>1,813,232</b>	<b>58,240</b>	<b>1,296,793</b>	<b>584,632</b>	<b>1,007,270</b>
<b>2016</b>										
January	298,815	77,597	18,222	144,385	21,484	152,596	4,617	102,077	50,910	116,601
February	273,298	71,660	16,831	133,673	19,989	144,080	4,316	98,322	49,055	109,078
March	295,235	74,250	17,699	142,802	21,377	148,825	4,585	109,592	53,093	116,601
April	246,130	70,509	16,358	139,137	20,320	150,626	4,413	106,067	48,918	114,453
May	269,206	71,560	18,102	144,657	20,886	147,873	4,506	108,846	51,007	118,268
June	233,815	67,078	16,791	136,813	19,740	139,677	4,267	105,571	49,984	114,453
July	239,442	68,014	17,456	142,734	20,517	153,351	4,374	109,518	52,667	126,044
August	250,330	66,946	17,328	146,011	20,312	142,598	4,124	111,555	50,848	126,044
September	249,275	63,995	16,728	140,186	20,802	142,785	4,161	108,091	48,398	121,978
October	271,920	65,706	16,891	145,883	19,826	146,371	4,335	110,002	53,311	126,825
November	293,978	62,827	16,194	141,394	18,435	137,719	4,258	107,031	52,872	122,734
December	308,524	63,081	16,424	144,060	19,769	145,766	4,170	108,026	47,768	126,825
<b>Total</b>	<b>3,229,968</b>	<b>823,223</b>	<b>205,024</b>	<b>1,701,735</b>	<b>243,459</b>	<b>1,752,269</b>	<b>52,125</b>	<b>1,284,698</b>	<b>608,832</b>	<b>1,439,905</b>
<b>2017</b>										
January	301,506	€62,084	€17,262	€143,020	€19,255	€152,924	€4,050	€105,047	€48,508	€132,523
February	275,044	€56,403	€15,322	€130,148	€17,565	€144,401	€3,718	€97,492	€47,993	€122,279
March	308,109	€61,907	€16,909	€142,549	€19,215	€165,872	€4,050	€109,033	€54,226	€131,234
April	286,950	€59,935	€16,607	€136,337	€18,233	€157,147	€3,963	€107,907	€55,399	€130,878
May	286,688	€61,145	€17,293	€138,439	€18,516	€164,615	€4,128	€112,597	€57,699	€134,785
June	248,820	€58,505	€16,855	€134,382	€18,353	€170,555	€3,983	€108,686	€55,694	€139,251
July	205,716	€58,908	€17,599	€140,105	€18,873	€180,478	€4,128	€112,374	€58,527	€156,236
August	221,588	€58,542	€17,224	€143,311	€18,574	€183,416	€4,146	€111,912	€59,936	€160,228
September	255,360	€55,950	€16,594	€140,164	€18,070	€189,126	€3,888	€112,684	€57,902	€160,759
October	283,185	€57,372	€16,997	€147,258	€18,271	€199,520	€4,019	€119,179	€63,606	€169,369
November	282,600	€54,603	€16,423	€142,452	€17,622	€202,858	€3,855	€118,628	€62,863	€168,075
December	295,213	RE55,558	RE16,964	RE151,359	RE17,859	RE217,981	RE3,989	RE120,322	RE64,709	RE181,007
<b>Total</b>	<b>3,250,779</b>	<b>RE700,912</b>	<b>RE202,049</b>	<b>RE1,689,523</b>	<b>RE220,406</b>	<b>RE2,128,894</b>	<b>RE47,918</b>	<b>RE1,335,863</b>	<b>RE687,059</b>	<b>€1,786,624</b>
<b>2018</b>										
January	296,763	RE51,745	RE16,811	RE150,950	RE17,451	RE211,724	RE3,919	RE117,580	RE64,156	RE183,232
February	268,604	€46,762	€15,217	€136,578	€15,762	€197,758	€3,465	€111,389	€58,601	€171,081
<b>2018 2-Month YTD</b>	<b>565,367</b>	<b>€98,507</b>	<b>€32,029</b>	<b>€287,528</b>	<b>€33,213</b>	<b>€409,483</b>	<b>€7,384</b>	<b>€228,970</b>	<b>€122,758</b>	<b>€354,313</b>
<b>2017 2-Month YTD</b>	<b>576,550</b>	<b>€118,487</b>	<b>€32,584</b>	<b>€273,168</b>	<b>€36,819</b>	<b>€297,325</b>	<b>€7,768</b>	<b>€202,540</b>	<b>€96,501</b>	<b>€254,802</b>
<b>2016 2-Month YTD</b>	<b>572,113</b>	<b>149,256</b>	<b>35,053</b>	<b>278,058</b>	<b>41,474</b>	<b>296,676</b>	<b>8,933</b>	<b>200,399</b>	<b>99,965</b>	<b>225,679</b>

See footnotes at end of table.

**Table 6. Gross withdrawals of natural gas in selected states and the Federal Gulf of Mexico, 2013-2018**  
(million cubic feet) – continued

Year and Month	Oklahoma	Pennsylvania	Texas	Utah	West Virginia	Wyoming	Other States	Federal Gulf of Mexico	U.S. Total
<b>2013 Total</b>	<b>1,993,754</b>	<b>3,259,042</b>	<b>8,299,472</b>	<b>470,863</b>	<b>741,853</b>	<b>2,047,757</b>	<b>689,082</b>	<b>1,326,697</b>	<b>29,522,551</b>
<b>2014 Total</b>	<b>2,331,086</b>	<b>4,257,693</b>	<b>8,659,188</b>	<b>454,545</b>	<b>1,067,114</b>	<b>1,998,505</b>	<b>631,536</b>	<b>1,275,738</b>	<b>31,405,381</b>
<b>2015 Total</b>	<b>2,499,599</b>	<b>4,812,983</b>	<b>8,799,465</b>	<b>417,020</b>	<b>1,315,248</b>	<b>1,995,920</b>	<b>611,356</b>	<b>1,307,641</b>	<b>32,914,647</b>
<b>2016</b>									
January	214,000	450,922	708,909	33,693	114,272	163,252	49,962	106,112	2,828,428
February	201,258	433,902	665,272	30,758	108,093	150,993	47,296	98,278	2,656,151
March	214,561	452,300	709,251	32,962	112,282	163,979	50,258	108,373	2,828,024
April	203,524	434,079	681,995	31,448	110,827	155,671	47,212	98,924	2,680,613
May	211,836	461,572	701,425	31,673	114,948	153,542	48,932	107,842	2,786,681
June	202,081	439,006	679,161	29,665	104,295	152,482	46,178	95,084	2,636,140
July	210,617	447,965	695,856	30,310	119,222	143,848	47,887	100,667	2,730,488
August	211,218	441,382	691,089	30,265	119,208	145,507	47,558	103,426	2,725,751
September	202,202	422,298	652,653	28,814	114,934	151,793	46,095	94,916	2,630,104
October	206,225	425,641	668,817	29,150	118,134	160,068	47,174	101,986	2,718,264
November	195,366	439,688	638,439	27,742	116,078	152,693	45,985	99,189	2,672,624
December	195,424	464,502	640,971	28,185	122,817	154,317	46,387	105,226	2,742,243
<b>Total</b>	<b>2,468,312</b>	<b>5,313,258</b>	<b>8,133,837</b>	<b>364,665</b>	<b>1,375,108</b>	<b>1,848,145</b>	<b>570,925</b>	<b>1,220,022</b>	<b>32,635,511</b>
<b>2017</b>									
January	€193,927	€461,677	€642,478	€27,708	€123,989	€141,236	€46,615	€103,146	€2,726,954
February	€179,163	€419,527	€593,768	€25,035	€112,378	€130,019	€41,766	€91,716	€2,503,737
March	€207,995	€459,647	€648,931	€27,670	€126,645	€144,709	€45,844	€103,134	€2,777,679
April	€203,362	€447,620	€632,883	€26,517	€121,705	€141,143	€43,986	€91,107	€2,681,680
May	€207,889	€457,732	€665,833	€27,345	€131,952	€141,295	€45,363	€96,442	€2,769,754
June	€203,690	€443,171	€650,017	€26,136	€130,111	€141,289	€43,193	€88,914	€2,681,604
July	€213,003	€457,136	€682,119	€26,211	€136,091	€144,476	€42,314	€95,806	€2,750,099
August	€218,247	€450,264	€667,869	€26,190	€143,578	€145,435	€43,772	€89,912	€2,764,143
September	€211,644	€444,256	€656,486	€25,228	€139,445	€142,018	€41,582	€86,260	€2,757,416
October	€226,421	€449,628	€695,350	€25,702	€144,282	€146,958	€42,253	€78,858	€2,888,227
November	€220,016	€471,137	€680,803	€24,692	€142,990	€145,044	€41,021	€79,728	€2,875,410
December	RE228,540	RE501,989	RE702,282	RE25,114	RE147,884	RE152,111	RE41,300	RE76,941	RE3,001,122
<b>Total</b>	<b>RE2,513,897</b>	<b>RE5,463,783</b>	<b>RE7,918,819</b>	<b>RE313,549</b>	<b>RE1,601,047</b>	<b>RE1,715,732</b>	<b>RE519,008</b>	<b>RE1,081,963</b>	<b>RE33,177,826</b>
<b>2018</b>									
January	RE227,369	RE498,376	RE683,134	RE25,554	RE139,786	RE150,698	€40,629	RE78,489	RE2,958,366
February	€210,329	€459,647	€626,467	€23,062	€130,261	€134,349	€37,672	€74,448	€2,721,454
<b>2018 2-Month YTD</b>	<b>€437,698</b>	<b>€958,023</b>	<b>€1,309,602</b>	<b>€48,616</b>	<b>€270,047</b>	<b>€285,046</b>	<b>€78,301</b>	<b>€152,937</b>	<b>€5,679,821</b>
<b>2017 2-Month YTD</b>	<b>€373,090</b>	<b>€881,203</b>	<b>€1,236,246</b>	<b>€52,744</b>	<b>€236,366</b>	<b>€271,255</b>	<b>€88,381</b>	<b>€194,862</b>	<b>€5,230,691</b>
<b>2016 2-Month YTD</b>	<b>415,258</b>	<b>884,824</b>	<b>1,374,181</b>	<b>64,451</b>	<b>222,365</b>	<b>314,245</b>	<b>97,258</b>	<b>204,390</b>	<b>5,484,579</b>

<sup>E</sup> Estimated data.

<sup>RE</sup> Revised estimated data.

**Notes:** Data for Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and Federal Offshore Gulf of Mexico are individually collected on the EIA-914 survey. The "Other States" category comprises states/areas not individually collected on the EIA-914 survey (Alabama, Arizona, Federal Offshore Pacific, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia). Before 2017, Federal Offshore Pacific is included in California. All data for Alaska are obtained directly from the state. Monthly preliminary state-level data for all states not collected individually on the EIA-914 survey are available after the final annual reports for these series are collected and processed. Final annual data are generally available in the third quarter of the following year. The sum of individual states may not equal total U.S. volumes due to independent rounding.

**Sources:** 2013-2016: Energy Information Administration (EIA), *Natural Gas Annual 2016*, Bureau of Safety and Environmental Enforcement (BSEE), PointLogic Energy, Ventyx, and BENTEK Energy. January 2017 through current month: Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report"; and EIA computations.

**Table 7. Marketed production of natural gas in selected states and the Federal Gulf of Mexico, 2013-2018**  
(million cubic feet)

Year and Month	Alaska	Arkansas	California	Colorado	Kansas	Louisiana	Montana	New Mexico	North Dakota	Ohio
<b>2013 Total</b>	<b>338,182</b>	<b>1,139,654</b>	<b>252,310</b>	<b>1,604,860</b>	<b>292,467</b>	<b>2,360,202</b>	<b>63,242</b>	<b>1,171,640</b>	<b>235,711</b>	<b>166,017</b>
<b>2014 Total</b>	<b>345,310</b>	<b>1,122,733</b>	<b>238,988</b>	<b>1,643,487</b>	<b>286,480</b>	<b>1,960,813</b>	<b>59,160</b>	<b>1,229,519</b>	<b>326,491</b>	<b>512,371</b>
<b>2015 Total</b>	<b>343,625</b>	<b>1,010,382</b>	<b>236,648</b>	<b>1,688,733</b>	<b>284,184</b>	<b>1,805,197</b>	<b>51,356</b>	<b>1,245,145</b>	<b>471,360</b>	<b>1,007,270</b>
<b>2016</b>										
January	30,686	77,597	18,222	144,385	21,484	151,821	4,208	98,350	43,619	116,601
February	28,434	71,660	16,831	133,673	19,989	143,518	3,917	94,865	42,962	109,078
March	29,898	74,250	17,699	142,802	21,377	148,098	4,213	106,173	47,263	116,601
April	26,258	70,509	16,358	139,137	20,320	149,851	4,081	102,922	44,024	114,453
May	27,088	71,560	18,102	144,657	20,886	147,088	4,084	105,618	44,691	118,268
June	24,882	67,078	16,791	136,813	19,740	138,875	3,986	102,475	44,296	114,453
July	25,025	68,014	17,456	142,734	20,517	152,589	4,045	106,650	46,329	126,044
August	24,918	66,946	17,328	146,011	20,312	141,844	3,617	109,026	44,343	126,044
September	24,970	63,995	16,728	140,186	20,802	142,042	3,769	105,907	42,229	121,978
October	28,546	65,706	16,891	145,883	19,826	145,631	3,991	109,076	44,893	126,825
November	35,778	62,827	16,194	141,394	18,435	136,943	3,975	104,488	46,642	122,734
December	31,612	63,081	16,424	144,060	19,769	144,959	3,921	105,464	40,598	126,825
<b>Total</b>	<b>338,095</b>	<b>823,223</b>	<b>205,024</b>	<b>1,701,735</b>	<b>243,459</b>	<b>1,743,259</b>	<b>47,807</b>	<b>1,251,013</b>	<b>531,889</b>	<b>1,439,905</b>
<b>2017</b>										
January	31,023	RE62,084	RE17,262	RE143,020	RE19,255	RE152,236	RE4,050	RE100,436	RE40,456	RE132,523
February	28,145	RE56,403	RE15,322	RE130,148	RE17,565	RE143,751	RE3,718	RE93,212	RE40,026	RE122,279
March	31,344	RE61,907	RE16,909	RE142,549	RE19,215	RE165,126	RE4,050	RE104,247	RE45,224	RE131,234
April	30,373	RE59,935	RE16,607	RE136,337	RE18,233	RE156,440	RE3,963	RE103,170	RE46,203	RE130,878
May	30,399	RE61,145	RE17,293	RE138,439	RE18,516	RE163,874	RE4,128	RE107,654	RE48,121	RE134,785
June	27,509	RE58,505	RE16,855	RE134,382	RE18,353	RE169,788	RE3,983	RE103,915	RE46,449	RE139,251
July	24,025	RE58,908	RE17,599	RE140,105	RE18,873	RE179,666	RE4,128	RE107,440	RE48,811	RE156,236
August	24,427	RE58,542	RE17,224	RE143,311	RE18,574	RE182,591	RE4,146	RE106,999	RE49,986	RE160,228
September	27,205	RE55,950	RE16,594	RE140,164	RE18,070	RE188,275	RE3,888	RE107,737	RE48,290	RE160,759
October	29,536	RE57,372	RE16,997	RE147,258	RE18,271	RE198,622	RE4,019	RE113,947	RE53,047	RE169,369
November	29,760	RE54,603	RE16,423	RE142,452	RE17,622	RE201,945	RE3,855	RE113,420	RE52,427	RE168,075
December	30,640	RE55,558	RE16,964	RE151,359	RE17,859	RE217,000	RE3,989	RE115,040	RE53,967	RE181,007
<b>Total</b>	<b>344,385</b>	<b>RE700,912</b>	<b>RE202,049</b>	<b>RE1,689,523</b>	<b>RE220,406</b>	<b>RE2,119,314</b>	<b>RE47,918</b>	<b>RE1,277,218</b>	<b>RE573,007</b>	<b>RE1,786,624</b>
<b>2018</b>										
January	31,077	RE51,745	RE16,811	RE150,950	RE17,451	RE210,772	RE3,919	RE112,419	RE53,506	RE183,232
February	27,726	RE46,762	RE15,217	RE136,578	RE15,762	RE196,869	RE3,465	RE106,499	RE48,873	RE171,081
<b>2018 2-Month YTD</b>	<b>58,804</b>	<b>RE98,507</b>	<b>RE32,029</b>	<b>RE287,528</b>	<b>RE33,213</b>	<b>RE407,640</b>	<b>RE7,384</b>	<b>RE218,918</b>	<b>RE102,380</b>	<b>RE354,313</b>
<b>2017 2-Month YTD</b>	<b>59,168</b>	<b>RE118,487</b>	<b>RE32,584</b>	<b>RE273,168</b>	<b>RE36,819</b>	<b>RE295,987</b>	<b>RE7,768</b>	<b>RE193,648</b>	<b>RE80,482</b>	<b>RE254,802</b>
<b>2016 2-Month YTD</b>	<b>59,119</b>	<b>149,256</b>	<b>35,053</b>	<b>278,058</b>	<b>41,474</b>	<b>295,338</b>	<b>8,125</b>	<b>193,215</b>	<b>86,581</b>	<b>225,679</b>

See footnotes at end of table.

**Table 7. Marketed production of natural gas in selected states and the Federal Gulf of Mexico, 2013-2018**

(million cubic feet) – continued

Year and Month	Oklahoma	Pennsylvania	Texas	Utah	West Virginia	Wyoming	Other States	Federal Gulf of Mexico	U.S. Total
<b>2013 Total</b>	<b>1,993,754</b>	<b>3,259,042</b>	<b>7,633,618</b>	<b>470,863</b>	<b>741,853</b>	<b>1,858,207</b>	<b>671,364</b>	<b>1,309,246</b>	<b>25,562,232</b>
<b>2014 Total</b>	<b>2,331,086</b>	<b>4,257,693</b>	<b>7,985,019</b>	<b>454,545</b>	<b>1,067,114</b>	<b>1,794,413</b>	<b>628,854</b>	<b>1,253,678</b>	<b>27,497,754</b>
<b>2015 Total</b>	<b>2,499,599</b>	<b>4,812,983</b>	<b>7,890,459</b>	<b>417,020</b>	<b>1,315,248</b>	<b>1,808,519</b>	<b>592,373</b>	<b>1,291,945</b>	<b>28,772,044</b>
<b>2016</b>									
January	214,000	450,922	621,895	33,693	114,272	147,540	48,697	104,894	2,442,885
February	201,258	433,902	594,949	30,758	108,093	137,354	46,203	97,179	2,314,623
March	214,561	452,300	623,228	32,962	112,282	148,539	49,086	107,359	2,448,690
April	203,524	434,079	612,801	31,448	110,827	141,626	46,163	97,916	2,366,297
May	211,836	461,572	618,225	31,673	114,948	138,412	47,849	106,892	2,433,449
June	202,081	439,006	602,560	29,665	104,295	136,951	45,212	93,696	2,322,854
July	210,617	447,965	627,045	30,310	119,222	130,313	46,882	98,938	2,420,694
August	211,218	441,382	611,890	30,265	119,208	131,826	46,574	102,366	2,395,119
September	202,202	422,298	578,140	28,814	114,934	135,706	45,129	93,821	2,303,650
October	206,225	425,641	588,224	29,150	118,134	143,125	46,229	100,914	2,364,909
November	195,366	439,688	562,035	27,742	116,078	136,183	45,034	98,184	2,309,723
December	195,424	464,502	562,020	28,185	122,817	137,030	45,531	104,171	2,356,396
<b>Total</b>	<b>2,468,312</b>	<b>5,313,258</b>	<b>7,203,012</b>	<b>364,665</b>	<b>1,375,108</b>	<b>1,664,604</b>	<b>558,589</b>	<b>1,206,328</b>	<b>28,479,288</b>
<b>2017</b>									
January	E193,927	E461,677	E554,138	E27,708	E123,989	E128,115	E45,608	E101,650	E2,339,155
February	E179,163	E419,527	E512,125	E25,035	E112,378	E117,940	E40,864	E90,386	E2,147,988
March	E207,995	E459,647	E559,703	E27,670	E126,645	E131,265	E44,854	E101,639	E2,381,223
April	E203,362	E447,620	E545,862	E26,517	E121,705	E128,031	E43,036	E89,786	E2,308,058
May	E207,889	E457,732	E574,281	E27,345	E131,952	E128,168	E44,383	E95,044	E2,391,147
June	E203,690	E443,171	E560,639	E26,136	E130,111	E128,163	E42,260	E87,624	E2,340,784
July	E213,003	E457,136	E588,328	E26,211	E136,091	E131,054	E41,400	E94,417	E2,443,431
August	E218,247	E450,264	E576,037	E26,190	E143,578	E131,924	E42,826	E88,608	E2,443,703
September	E211,644	E444,256	E566,219	E25,228	E139,445	E128,825	E40,684	E85,010	E2,408,242
October	E226,421	E449,628	E599,739	E25,702	E144,282	E133,305	E41,340	E77,715	E2,506,570
November	E220,016	E471,137	E587,193	E24,692	E142,990	E131,569	E40,135	E78,572	E2,496,887
December	RE228,540	RE501,989	RE605,718	RE25,114	RE147,884	RE137,980	RE40,408	RE75,825	RE2,606,842
<b>Total</b>	<b>RE2,513,897</b>	<b>RE5,463,783</b>	<b>RE6,829,982</b>	<b>RE313,549</b>	<b>RE1,601,047</b>	<b>RE1,556,341</b>	<b>RE507,797</b>	<b>RE1,066,274</b>	<b>RE28,814,028</b>
<b>2018</b>									
January	RE227,369	RE498,376	RE589,203	RE25,554	RE139,786	RE136,698	E39,751	RE77,351	RE2,565,970
February	E210,329	E459,647	E540,328	E23,062	E130,261	E121,868	E36,859	E73,368	E2,364,556
<b>2018 2-Month YTD</b>	<b>E437,698</b>	<b>E958,023</b>	<b>E1,129,531</b>	<b>E48,616</b>	<b>E270,047</b>	<b>E258,566</b>	<b>E76,610</b>	<b>E150,719</b>	<b>E4,930,525</b>
<b>2017 2-Month YTD</b>	<b>E373,090</b>	<b>E881,203</b>	<b>E1,066,263</b>	<b>E52,744</b>	<b>E236,366</b>	<b>E246,055</b>	<b>E86,472</b>	<b>E192,036</b>	<b>E4,487,142</b>
<b>2016 2-Month YTD</b>	<b>415,258</b>	<b>884,824</b>	<b>1,216,845</b>	<b>64,451</b>	<b>222,365</b>	<b>284,894</b>	<b>94,900</b>	<b>202,073</b>	<b>4,757,508</b>

<sup>E</sup> Estimated data.<sup>RE</sup> Revised estimated data.

**Notes:** For 2017 forward, state monthly marketed production is estimated from gross withdrawals using historical relationships between the two. Data for Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and Federal Offshore Gulf of Mexico are individually collected on the EIA-914 survey. The "Other States" category comprises states/areas not individually collected on the EIA-914 survey (Alabama, Arizona, Federal Offshore Pacific, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia). Before 2017, Federal Offshore Pacific is included in California. All data for Alaska are obtained directly from the state. Monthly preliminary state-level data for all states not collected individually on the EIA-914 survey are available after the final annual reports for these series are collected and processed. Final annual data are generally available in the third quarter of the following year. The sum of individual states may not equal total U.S. volumes due to independent rounding.

**Sources:** 2013-2016: Energy Information Administration (EIA), *Natural Gas Annual 2016*, Bureau of Safety and Environmental Enforcement (BSEE), PointLogic Energy, Ventyx, and BENTEK Energy. January 2017 through current month: Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report"; and EIA computations.

**Table 8. Underground natural gas storage – all operators, 2013-2018**  
(volumes in billion cubic feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total <sup>c</sup>	Volume	Percent	Injections	Withdrawals	Net Withdrawals <sup>b</sup>
<b>2013 Total<sup>c</sup></b>	--	--	--	--	--	<b>3,156</b>	<b>3,702</b>	<b>546</b>
<b>2014 Total<sup>c</sup></b>	--	--	--	--	--	<b>3,839</b>	<b>3,586</b>	<b>-253</b>
<b>2015 Total<sup>c</sup></b>	--	--	--	--	--	<b>3,638</b>	<b>3,100</b>	<b>-539</b>
<b>2016</b>								
January	4,369	2,938	7,307	531	22.1	66	795	729
February	4,369	2,534	6,904	869	52.2	111	515	403
March	4,360	2,486	6,847	1,015	69.0	215	264	49
April	4,364	2,646	7,009	852	47.5	294	130	-164
May	4,366	2,966	7,332	679	29.7	402	74	-329
June	4,369	3,186	7,555	539	20.4	316	94	-222
July	4,369	3,318	7,687	394	13.5	283	150	-133
August	4,369	3,441	7,811	200	6.2	285	162	-124
September	4,369	3,705	8,074	91	2.5	351	88	-262
October	4,371	4,013	8,384	70	1.8	387	78	-308
November	4,372	3,977	8,349	50	1.3	178	213	35
December	4,380	3,297	7,677	-370	-10.1	87	762	676
<b>Total</b>	--	--	--	--	--	<b>2,977</b>	<b>3,325</b>	<b>348</b>
<b>2017</b>								
January	R4,378	R2,622	R7,000	R-316	R-10.8	101	776	675
February	R4,377	R2,337	R6,715	R-197	R-7.8	131	416	285
March	R4,378	R2,063	R6,441	-423	-17.0	167	443	275
April	R4,379	2,292	R6,671	R-354	-13.4	341	111	-230
May	R4,385	R2,627	R7,012	-339	-11.4	423	82	-341
June	R4,354	R2,907	R7,261	R-279	-8.7	387	106	-281
July	R4,356	3,055	R7,410	R-264	-7.9	310	160	-150
August	R4,355	3,250	R7,605	R-192	R-5.6	355	160	-196
September	R4,355	R3,567	R7,923	R-138	-3.7	423	107	-317
October	R4,354	R3,816	R8,170	-196	-4.9	385	138	-247
November	R4,353	R3,709	R8,062	R-267	R-6.7	203	288	85
December	R4,360	R3,032	R7,392	R-265	-8.0	80	774	694
<b>Total</b>	--	--	--	--	--	<b>R3,307</b>	<b>3,561</b>	<b>253</b>
<b>2018</b>								
January	R4,359	R2,138	R6,496	R-485	R-18.5	145	R1,041	R896
February	4,359	1,670	6,029	-667	-28.6	143	610	467

<sup>a</sup> Total underground storage capacity at the end of each calendar year (in billion cubic feet): 2013 – 9,173; 2014 – 9,233; 2015– 9,231; and 2016 – 9,239. Total storage capacity of existing fields includes both active and inactive fields.

<sup>b</sup> Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

<sup>c</sup> Total as of December 31.

<sup>R</sup> Revised data.

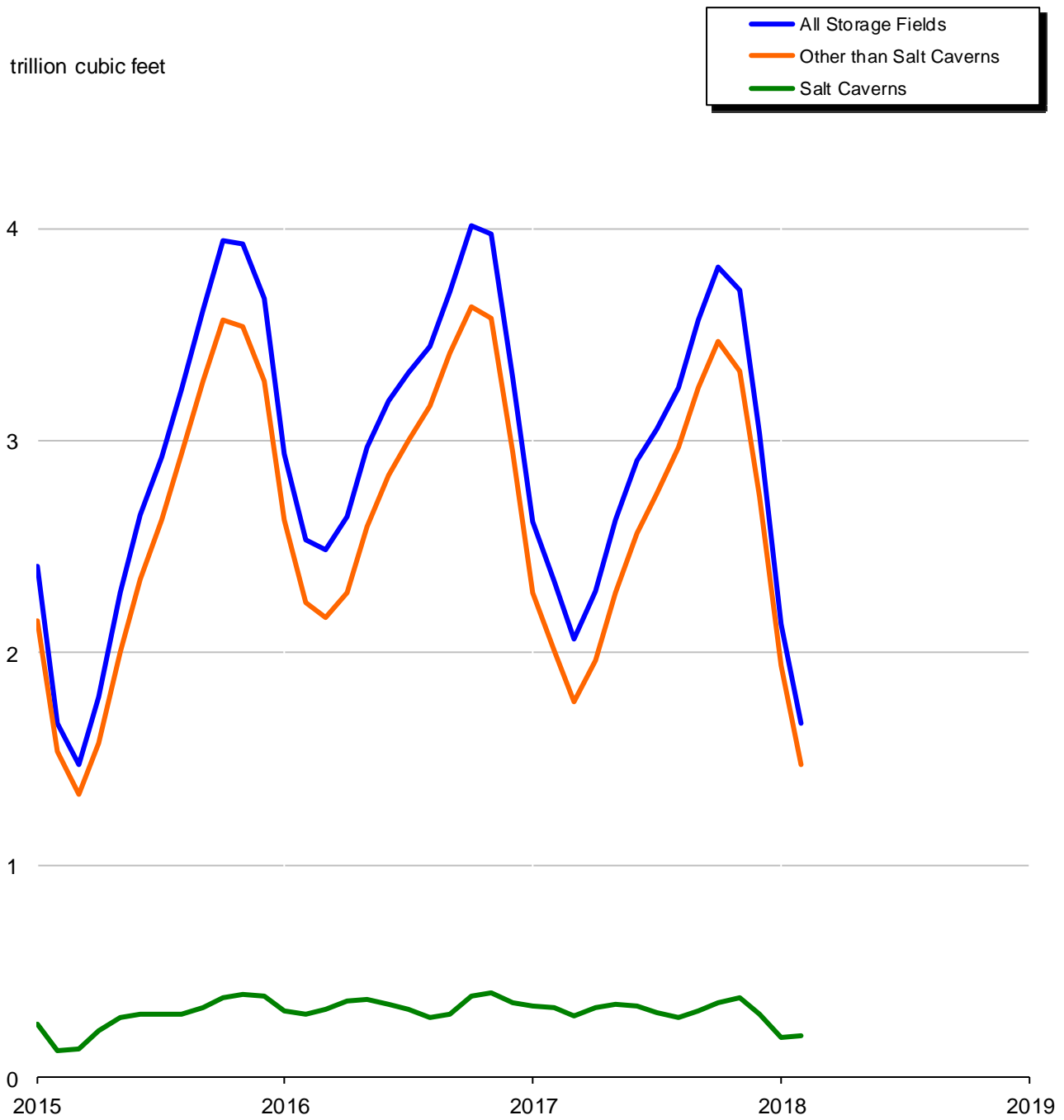
-- Not applicable.

**Notes:** Data for 2013 through 2015 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 5, for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Alaska added to U.S. totals as of January 2013. Change in Working Gas from Same Period, Previous Year, includes data for Alaska, which had no working gas recorded for periods prior to January 2013.

**Source:** Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Figure 5. Working gas in underground natural gas storage in the United States, 2015-2018

Figure 5



Note: Geographic coverage is the 50 states and the District of Columbia.

Source: Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 9. Underground natural gas storage – by season, 2016-2018

(volumes in billion cubic feet)

Year, Season, and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net Withdrawals <sup>a</sup>
<b>2016 Heating Season</b>								
November	4,376	3,927	8,303	500	14.6	201	214	12
December	4,372	3,667	8,038	525	16.7	138	403	264
January	4,369	2,938	7,307	531	22.1	66	795	729
February	4,369	2,534	6,904	869	52.2	111	515	403
March	4,360	2,486	6,847	1,015	69.0	215	264	49
<b>Total</b>	--	--	--	--	--	<b>732</b>	<b>2,189</b>	<b>1,457</b>
<b>2016 Refill Season</b>								
April	4,364	2,646	7,009	852	47.5	294	130	-164
May	4,366	2,966	7,332	679	29.7	402	74	-329
June	4,369	3,186	7,555	539	20.4	316	94	-222
July	4,369	3,318	7,687	394	13.5	283	150	-133
August	4,369	3,441	7,811	200	6.2	285	162	-124
September	4,369	3,705	8,074	91	2.5	351	88	-262
October	4,371	4,013	8,384	70	1.8	387	78	-308
<b>Total</b>	--	--	--	--	--	<b>2,319</b>	<b>776</b>	<b>-1,543</b>
<b>2017 Heating Season</b>								
November	4,372	3,977	8,349	50	1.3	178	213	35
December	4,380	3,297	7,677	-370	-10.1	87	762	676
January	R4,378	R2,622	R7,000	R-316	R-10.8	101	776	675
February	R4,377	R2,337	R6,715	R-197	R-7.8	131	416	285
March	R4,378	R2,063	R6,441	-423	-17.0	167	443	275
<b>Total</b>	--	--	--	--	--	<b>664</b>	<b>2,610</b>	<b>1,946</b>
<b>2017 Refill Season</b>								
April	R4,379	2,292	R6,671	R-354	-13.4	341	111	-230
May	R4,385	R2,627	R7,012	-339	-11.4	423	82	-341
June	R4,354	R2,907	R7,261	R-279	-8.7	387	106	-281
July	R4,356	3,055	R7,410	R-264	-7.9	310	160	-150
August	R4,355	3,250	R7,605	R-192	R-5.6	355	160	-196
September	R4,355	R3,567	R7,923	R-138	-3.7	423	107	-317
October	R4,354	R3,816	R8,170	-196	-4.9	385	138	-247
<b>Total</b>	--	--	--	--	--	<b>2,625</b>	<b>864</b>	<b>-1,761</b>
<b>2018 Heating Season</b>								
November	R4,353	R3,709	R8,062	R-267	R-6.7	203	288	85
December	R4,360	R3,032	R7,392	R-265	-8.0	80	774	694
January	R4,359	R2,138	R6,496	R-485	R-18.5	145	R1,041	R896
February	4,359	1,670	6,029	-667	-28.6	143	610	467

<sup>a</sup> Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

<sup>R</sup> Revised data.

-- Not applicable.

**Notes:** Data for 2015 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 5, for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Alaska added to U.S. totals as of January 2013.

**Sources:** Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

**Table 10. Underground natural gas storage – salt cavern storage fields, 2013-2018**  
(volumes in billion cubic feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity			Net Withdrawals <sup>a</sup>
	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Withdrawals <sup>a</sup>	
<b>2013 Total<sup>b</sup></b>	--	--	--	--	--	<b>492</b>	<b>521</b>	<b>29</b>	
<b>2014 Total<sup>b</sup></b>	--	--	--	--	--	<b>634</b>	<b>552</b>	<b>-82</b>	
<b>2015 Total<sup>b</sup></b>	--	--	--	--	--	<b>606</b>	<b>550</b>	<b>-56</b>	
<b>2016</b>									
January	189	312	501	60	23.7	29	105	76	
February	190	295	485	168	132.8	42	58	16	
March	190	322	513	184	133.0	67	39	-28	
April	191	358	550	138	62.4	66	27	-38	
May	192	368	560	84	29.8	46	35	-10	
June	192	348	541	51	17.1	26	45	19	
July	192	319	511	22	7.3	32	62	29	
August	193	281	474	-20	-6.5	33	69	37	
September	194	295	489	-38	-11.3	52	37	-14	
October	194	383	577	7	1.9	115	26	-89	
November	195	402	598	13	3.4	47	28	-20	
December	195	349	544	-39	-10.0	38	92	53	
<b>Total</b>	--	--	--	--	--	<b>593</b>	<b>624</b>	<b>32</b>	
<b>2017</b>									
January	195	338	533	26	8.3	57	68	11	
February	195	328	522	33	11.0	37	47	10	
March	196	292	487	-31	-9.5	43	79	36	
April	197	326	523	-32	-9.0	68	32	-36	
May	197	343	539	-25	-6.8	58	42	-16	
June	196	339	535	-9	-2.7	49	53	4	
July	198	304	502	-15	-4.7	38	73	34	
August	198	279	476	-2	-0.9	44	69	24	
September	197	317	515	22	7.6	83	45	-38	
October	197	350	548	-33	-8.6	91	58	-33	
November	197	379	575	-24	-5.9	69	42	-28	
December	197	296	493	-52	-15.0	33	116	83	
<b>Total</b>	--	--	--	--	--	<b>672</b>	<b>723</b>	<b>51</b>	
<b>2018</b>									
January	195	192	388	-146	-43.1	88	193	105	
February	196	196	392	-131	-40.1	70	65	-5	
<b>2018 2-Month YTD</b>	--	--	--	--	--	<b>158</b>	<b>258</b>	<b>100</b>	
<b>2017 2-Month YTD</b>	--	--	--	--	--	<b>95</b>	<b>115</b>	<b>21</b>	
<b>2016 2-Month YTD</b>	--	--	--	--	--	<b>71</b>	<b>164</b>	<b>92</b>	

<sup>a</sup> Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

<sup>b</sup> Total as of December 31.

-- Not applicable.

**Notes:** Data for 2013 through 2015 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 5, for discussion of the reporting of underground storage information. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Alaska added to U.S. totals as of January 2013.

**Sources:** Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

**Table 11. Underground natural gas storage – storage fields other than salt caverns, 2013-2018**  
(volumes in billion cubic feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net Withdrawals <sup>a</sup>
<b>2013 Total<sup>b</sup></b>	--	--	--	--	--	<b>2,664</b>	<b>3,181</b>	<b>517</b>
<b>2014 Total<sup>b</sup></b>	--	--	--	--	--	<b>3,205</b>	<b>3,034</b>	<b>-171</b>
<b>2015 Total<sup>b</sup></b>	--	--	--	--	--	<b>3,032</b>	<b>2,549</b>	<b>-482</b>
<b>2016</b>								
January	4,180	2,626	6,806	471	21.9	37	689	652
February	4,180	2,239	6,419	700	45.5	69	456	387
March	4,170	2,164	6,334	831	62.3	149	225	77
April	4,172	2,287	6,460	715	45.5	229	103	-126
May	4,174	2,599	6,773	595	29.7	357	39	-318
June	4,176	2,838	7,014	489	20.8	291	49	-241
July	4,176	2,999	7,176	372	14.2	251	88	-163
August	4,177	3,160	7,337	219	7.5	253	92	-160
September	4,175	3,410	7,585	129	3.9	299	51	-248
October	4,177	3,630	7,807	63	1.8	271	52	-220
November	4,177	3,574	7,751	37	1.0	131	185	55
December	4,185	2,948	7,133	-331	-10.1	48	670	622
<b>Total</b>	--	--	--	--	--	<b>2,384</b>	<b>2,700</b>	<b>316</b>
<b>2017</b>								
January	R4,183	R2,284	R6,468	R-342	-13.0	44	708	664
February	4,183	R2,010	R6,192	R-230	-10.2	94	369	275
March	R4,182	R1,771	R5,953	R-393	R-18.2	124	364	239
April	R4,182	1,966	R6,147	R-322	R-14.1	273	79	-194
May	R4,188	R2,284	R6,472	-314	-12.1	365	40	-325
June	R4,158	R2,568	R6,726	R-270	-9.5	338	53	-284
July	R4,158	R2,751	R6,909	R-249	-8.3	272	88	-184
August	R4,158	R2,971	R7,129	R-189	-6.0	311	91	-220
September	R4,158	R3,250	R7,408	R-161	-4.7	340	62	-279
October	R4,156	R3,466	R7,622	R-164	-4.5	295	80	-215
November	R4,156	R3,330	R7,487	R-244	R-6.8	133	246	113
December	R4,163	R2,736	R6,899	R-213	-7.2	47	R659	612
<b>Total</b>	--	--	--	--	--	<b>R2,635</b>	<b>2,838</b>	<b>202</b>
<b>2018</b>								
January	R4,164	R1,945	R6,109	R-339	-14.8	57	R848	R791
February	4,163	1,474	5,637	-536	-26.7	73	545	472
<b>2018 2-Month YTD</b>	--	--	--	--	--	<b>130</b>	<b>1,393</b>	<b>1,263</b>
<b>2017 2-Month YTD</b>	--	--	--	--	--	<b>138</b>	<b>1,077</b>	<b>939</b>
<b>2016 2-Month YTD</b>	--	--	--	--	--	<b>106</b>	<b>1,146</b>	<b>1,039</b>

<sup>a</sup> Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

<sup>b</sup> Total as of December 31.

<sup>R</sup> Revised data.

-- Not applicable.

**Notes:** Data for 2013 through 2015 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 5, for discussion of the reporting of underground storage information. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Alaska added to U.S. totals as of January 2013.

**Sources:** Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

**Table 12. Net withdrawals from underground storage, by state, 2016-2018**  
(million cubic feet)

State	2018			2017		
	February	January	Total	December	November	October
Alabama	885	7,522	3,570	2,448	-1,237	-3,630
Alaska <sup>a</sup>	1,988	2,559	-3,585	1,309	1,622	-476
Arkansas	616	951	-629	1,220	397	-251
California	25,368	41,978	5,688	37,901	6,223	-4,453
Colorado	9,346	9,686	-309	13,278	-4,315	-582
Illinois	43,006	64,676	8,410	57,696	-333	-40,165
Indiana	4,115	5,357	<sup>R</sup> -69	<sup>R</sup> 4,827	-1,525	-2,472
Iowa	9,545	19,932	329	20,539	6,240	-20,082
Kansas	19,645	23,304	6,142	22,474	-872	-5,986
Kentucky	8,578	23,235	15,130	15,659	3,170	-10,110
Louisiana	16,429	<sup>R</sup> 95,750	<sup>R</sup> 26,800	<sup>R</sup> 57,784	<sup>R</sup> -10,494	-13,491
Maryland	2,961	4,492	-1,045	2,079	816	-533
Michigan	107,038	<sup>R</sup> 161,641	47,361	121,334	39,265	-34,646
Minnesota	290	238	248	298	-9	-232
Mississippi	-12,144	37,691	21,748	29,161	-4,909	-11,495
Missouri	-133	-15	248	864	-210	-217
Montana	6,469	7,142	2,360	7,373	3,931	-812
Nebraska	1,856	3,298	1,266	2,753	-232	-702
New Mexico	3,846	4,077	11,752	4,715	1,939	235
New York	15,424	22,793	-3,120	15,467	5,738	-10,854
Ohio	24,424	42,463	9,594	33,605	16,388	-3,490
Oklahoma	31,474	38,328	22,662	27,611	2,563	-9,766
Oregon	2,704	3,193	-468	4,430	190	-705
Pennsylvania	53,807	90,102	9,738	61,182	20,680	-31,295
Tennessee	25	104	-45	68	5	-31
Texas	36,004	106,822	65,344	84,716	-11,751	-30,361
Utah	9,335	14,371	2,594	12,258	-177	-1,600
Virginia	-193	-243	912	1,051	-144	-40
Washington	6,762	2,896	1,133	4,053	-191	1,203
West Virginia	33,907	58,248	-5,627	43,252	13,698	-11,598
Wyoming	3,444	3,503	5,222	3,028	-1,194	1,188
<b>Regions</b>						
East Region	130,329	217,855	10,452	156,637	57,175	-57,810
South Central Region	92,908	<sup>R</sup> 310,367	<sup>R</sup> 145,637	<sup>R</sup> 225,413	<sup>R</sup> -26,303	-74,980
Midwest Region	172,464	<sup>R</sup> 275,168	<sup>R</sup> 71,612	<sup>R</sup> 221,285	46,603	-107,955
Mountain Region	34,295	42,077	22,884	43,405	-48	-2,273
Pacific Region	34,834	48,067	6,352	46,384	6,222	-3,956
<b>Total Lower 48 States</b>	<b>464,829</b>	<b><sup>R</sup>893,533</b>	<b><sup>R</sup>256,937</b>	<b><sup>R</sup>693,124</b>	<b><sup>R</sup>83,648</b>	<b>-246,975</b>
<b>U.S. Total</b>	<b>466,817</b>	<b><sup>R</sup>896,092</b>	<b><sup>R</sup>253,352</b>	<b><sup>R</sup>694,433</b>	<b><sup>R</sup>85,270</b>	<b>-247,451</b>

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2016-2018

(million cubic feet) – continued

State	2017					
	September	August	July	June	May	April
Alabama	-561	3,628	3,386	498	169	-1,292
Alaska <sup>a</sup>	-1,624	-2,476	-2,424	-2,108	-1,525	-1,076
Arkansas	-582	-574	-647	-581	-595	-272
California	-12,170	1,123	-6,826	-13,935	-23,446	-16,167
Colorado	-6,013	-2,922	-5,245	-5,660	-4,519	-1,374
Illinois	-41,306	-34,888	-25,184	-32,389	-17,012	4,438
Indiana	-2,352	-2,191	-2,486	<sup>R</sup> -2,782	-1,664	-501
Iowa	-19,446	-11,805	-1,696	-1,917	-1,579	1,288
Kansas	-5,422	656	-2,088	-4,611	-14,016	-10,252
Kentucky	-8,402	-1,317	5,583	1,693	-8,818	-12,511
Louisiana	-23,167	3,696	1,007	-5,268	-19,430	-21,998
Maryland	-1,395	-2,626	-2,873	-2,241	-3,128	-280
Michigan	-52,348	-54,494	-38,760	-57,334	-55,198	-39,909
Minnesota	-242	-244	-220	-190	-63	36
Mississippi	-17,129	4,919	14,904	-476	-3,259	-8,395
Missouri	-432	*	0	*	0	*
Montana	-4,091	-2,393	-3,558	-4,182	-4,160	-2,002
Nebraska	-1,206	-564	-935	182	-1,017	-979
New Mexico	241	2,883	1,623	68	-1,257	-1,704
New York	-13,746	-15,700	-8,367	-12,765	-7,272	-5,894
Ohio	-22,590	-24,349	-26,059	-26,200	-18,721	-5,818
Oklahoma	-4,340	1,626	1,039	-10,437	-13,581	-4,742
Oregon	-899	-702	-545	-1,472	-3,170	-336
Pennsylvania	-33,239	-47,206	-37,135	-46,732	-51,111	-33,170
Tennessee	-42	11	8	-41	-32	-29
Texas	-16,898	19,068	18,244	-15,267	-37,200	-30,805
Utah	-4,342	-1,449	-3,718	-5,162	-7,294	-2,628
Virginia	-761	-317	349	45	-513	-310
Washington	-3,610	-2,225	329	-2,739	-5,577	-2,596
West Virginia	-17,030	-24,959	-26,009	-26,523	-33,844	-30,240
Wyoming	-1,390	172	-1,694	-2,290	-1,936	-632
<b>Regions</b>						
East Region	-88,761	-115,156	-100,093	-114,416	-114,589	-75,713
South Central Region	-68,100	33,018	35,847	-36,143	-87,911	-77,757
Midwest Region	-124,569	-104,928	-62,755	<sup>R</sup> -92,960	-84,366	-47,188
Mountain Region	-16,801	-4,273	-13,527	-17,044	-20,183	-9,318
Pacific Region	-16,679	-1,804	-7,041	-18,145	-32,194	-19,099
<b>Total Lower 48 States</b>	<b>-314,911</b>	<b>-193,142</b>	<b>-147,569</b>	<sup>R</sup> <b>-278,709</b>	<b>-339,242</b>	<b>-229,075</b>
<b>U.S. Total</b>	<b>-316,535</b>	<b>-195,619</b>	<b>-149,993</b>	<sup>R</sup> <b>-280,816</b>	<b>-340,767</b>	<b>-230,151</b>

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2016-2018

(million cubic feet) – continued

State	2017			Total	2016	
	March	February	January		December	November
Alabama	1,420	-1,005	-254	1,019	3,462	-2,161
Alaska <sup>a</sup>	1,572	1,409	2,213	-8,322	1,789	872
Arkansas	772	66	418	-1,666	739	-86
California	-17,258	4,300	50,395	39,603	43,736	1,937
Colorado	1,199	4,859	10,983	-4,606	11,693	-1,452
Illinois	35,264	42,917	59,371	5,282	53,639	623
Indiana	2,040	3,067	5,972	3,478	4,712	-1,533
Iowa	5,165	8,052	15,571	6,414	22,217	5,150
Kansas	5,246	2,192	18,823	8,377	21,467	876
Kentucky	5,772	7,787	16,622	9,205	16,756	51
Louisiana	23,900	11,892	22,369	39,572	42,587	-3,970
Maryland	3,170	2,048	3,915	2,916	2,604	893
Michigan	63,573	47,176	108,702	57,601	108,495	17,034
Minnesota	342	450	321	38	44	14
Mississippi	6,585	1,802	10,041	26,635	24,501	1,560
Missouri	100	-20	163	-156	365	-210
Montana	1,137	4,042	7,075	-7,364	8,305	2,401
Nebraska	-287	1,408	2,844	785	2,171	721
New Mexico	-2,779	1,321	4,466	669	4,345	-1,195
New York	17,047	12,369	20,857	19,233	20,132	4,697
Ohio	27,859	22,619	36,350	17,390	41,276	14,460
Oklahoma	-5,893	3,193	35,389	11,957	30,817	-5,705
Oregon	-2,364	606	4,500	1,381	5,032	406
Pennsylvania	70,898	54,306	82,560	68,344	70,114	10,492
Tennessee	-5	14	31	-66	71	-14
Texas	1,147	6,329	78,122	38,656	65,863	-17,919
Utah	-518	5,334	11,889	-1,208	12,286	-466
Virginia	689	685	180	189	212	-211
Washington	1,556	4,022	6,908	-2,216	3,465	448
West Virginia	27,775	29,958	49,893	22,407	44,092	10,686
Wyoming	234	1,737	8,000	-7,349	8,555	-3,105
<b>Regions</b>						
East Region	147,438	121,986	193,754	130,479	178,429	41,017
South Central Region	33,177	24,469	164,908	124,549	189,436	-27,405
Midwest Region	112,250	109,443	206,754	81,797	206,299	21,114
Mountain Region	-1,014	18,701	45,258	-19,074	47,355	-3,096
Pacific Region	-18,066	8,927	61,803	38,769	52,233	2,790
<b>Total Lower 48 States</b>	<b>273,785</b>	<b>283,526</b>	<b>672,476</b>	<b>356,520</b>	<b>673,752</b>	<b>34,420</b>
<b>U.S. Total</b>	<b>275,357</b>	<b>284,935</b>	<b>674,690</b>	<b>348,198</b>	<b>675,541</b>	<b>35,292</b>

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2016-2018

(million cubic feet) – continued

State	2016					
	October	September	August	July	June	May
Alabama	-5,368	-597	2,250	3,115	1,486	-1,536
Alaska <sup>a</sup>	139	-1,321	-1,997	-1,976	-1,468	-1,957
Arkansas	-152	-318	-564	-517	-724	-801
California	-8,590	-3,383	4,248	769	-7,766	-16,700
Colorado	-7,324	-5,111	-3,745	-4,892	-5,512	-5,498
Illinois	-37,807	-41,363	-33,535	-28,440	-32,072	-26,284
Indiana	-2,257	-2,199	-1,850	-1,850	-2,226	-2,905
Iowa	-18,715	-18,041	-14,078	-1,925	-2,856	-2,349
Kansas	-5,573	-8,157	-2,098	-7,378	-4,701	-13,272
Kentucky	-4,545	-4,548	-128	-2,707	-2,776	-8,262
Louisiana	-51,370	-11,031	18,506	16,049	-2,585	-11,540
Maryland	133	-150	-1,397	-1,133	-3,022	-1,671
Michigan	-27,683	-54,745	-36,754	-35,799	-52,688	-65,480
Minnesota	-104	-197	-228	-205	-174	-76
Mississippi	-24,918	-3,355	2,651	7,130	1,758	-7,184
Missouri	-405	-290	*	0	0	0
Montana	-782	-2,191	-3,465	-3,260	-4,908	-5,202
Nebraska	-1,221	-1,132	-90	-151	-16	-1,099
New Mexico	-1,530	75	167	659	-391	-1,615
New York	-7,006	-12,209	-3,017	-3,467	-6,284	-11,257
Ohio	-10,323	-22,602	-23,658	-25,774	-26,258	-21,537
Oklahoma	-11,783	-2,082	1,055	-3,398	-3,069	-15,348
Oregon	-1,086	-266	-16	-887	-511	-2,228
Pennsylvania	-16,859	-43,300	-18,752	-21,094	-36,463	-32,012
Tennessee	-34	2	2	3	-38	-27
Texas	-50,646	112	21,348	18,530	7,624	-29,546
Utah	-1,542	-3,455	-2,871	-2,671	-4,887	-7,374
Virginia	-163	-185	-504	73	-46	-242
Washington	-109	-3,266	-2,091	-788	-1,834	-4,392
West Virginia	-7,057	-15,425	-22,388	-29,308	-25,938	-27,301
Wyoming	-3,717	-1,656	-769	-1,773	-3,980	-3,858
<b>Regions</b>						
East Region	-41,275	-93,871	-69,715	-80,704	-98,011	-94,019
South Central Region	-149,809	-25,428	43,149	33,529	-212	-79,227
Midwest Region	-91,550	-121,381	-86,571	-70,923	-92,831	-105,382
Mountain Region	-16,117	-13,469	-10,773	-12,088	-19,694	-24,646
Pacific Region	-9,785	-6,916	2,142	-906	-10,112	-23,319
<b>Total Lower 48 States</b>	<b>-308,536</b>	<b>-261,066</b>	<b>-121,769</b>	<b>-131,091</b>	<b>-220,859</b>	<b>-326,593</b>
<b>U.S. Total</b>	<b>-308,397</b>	<b>-262,387</b>	<b>-123,765</b>	<b>-133,067</b>	<b>-222,328</b>	<b>-328,551</b>

See footnotes at end of table.

**Table 12. Net withdrawals from underground storage, by state, 2016-2018**  
(million cubic feet) – continued

State	2016			
	April	March	February	January
Alabama	-3,383	-323	-713	4,787
Alaska <sup>a</sup>	-1,441	-451	-459	-50
Arkansas	-444	438	328	434
California	-17,261	-4,805	7,203	40,217
Colorado	1,334	3,688	2,412	9,800
Illinois	4,551	26,092	50,274	69,604
Indiana	527	1,694	5,259	6,106
Iowa	2,150	4,762	10,674	19,427
Kansas	-7,171	-4,070	11,913	26,541
Kentucky	-16,117	2,150	9,656	19,675
Louisiana	-20,296	-14,011	21,175	56,058
Maryland	716	-342	2,294	3,991
Michigan	-13,874	30,025	80,654	108,415
Minnesota	7	515	127	315
Mississippi	-6,394	-12,187	6,944	36,129
Missouri	0	119	-168	433
Montana	-3,943	-770	2,057	4,394
Nebraska	-630	-103	549	1,788
New Mexico	-1,170	-1,658	1,413	1,568
New York	-1,560	2,483	14,571	22,150
Ohio	-5,040	17,603	32,160	47,082
Oklahoma	-9,402	-5,923	10,070	26,725
Oregon	-1,027	-362	481	1,845
Pennsylvania	-5,601	11,919	62,426	87,473
Tennessee	-17	-32	-6	25
Texas	-38,115	-19,445	24,128	56,721
Utah	-814	-1,928	3,685	8,830
Virginia	-508	135	17	1,612
Washington	-2,918	1,935	5,854	1,480
West Virginia	-14,249	11,571	35,666	62,059
Wyoming	-2,386	-139	2,448	3,031
<b>Regions</b>				
East Region	-26,242	43,370	147,134	224,367
South Central Region	-85,205	-55,521	73,846	207,396
Midwest Region	-22,774	65,327	156,470	224,000
Mountain Region	-7,610	-910	12,562	29,411
Pacific Region	-21,206	-3,232	13,538	43,542
<b>Total Lower 48 States</b>	<b>-163,038</b>	<b>49,034</b>	<b>403,550</b>	<b>728,716</b>
<b>U.S. Total</b>	<b>-164,479</b>	<b>48,583</b>	<b>403,091</b>	<b>728,666</b>

<sup>a</sup> Alaska data are not included in the regions' totals or the lower 48 states total.

<sup>R</sup> Revised data.

\* Volume is less than 500 Mcf.

**Notes:** This table contains total net withdrawals for each of the states with natural gas storage facilities. Positive numbers indicate the volume of withdrawals in excess of injections. Negative values indicate the volume of injections in excess of withdrawals. EIA publishes weekly estimates of working gas in underground storage by geographical region; in November 2015, region breakouts were revised from three regions to five. See Explanatory Note 5 in Appendix A for a list of the new regions shown in this table and the states included in each.

**Source:** Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 13. Activities of underground natural gas storage operators, by state, February 2018

(volumes in million cubic feet)

State	Field Count	Total Storage Capacity	Working Gas Storage Capacity	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity	
				Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals
Alabama	2	43,600	33,150	10,450	10,944	21,394	-13,232	-54.7	802	1,687
Alaska <sup>a</sup>	5	83,592	67,915	14,197	31,641	45,838	2,660	9.2	203	2,191
Arkansas	2	21,774	8,894	12,880	1,203	14,083	-600	-33.3	149	765
California	14	603,808	373,236	230,605	165,708	396,314	-18,655	-10.1	4,672	30,040
Colorado	11	139,627	68,174	63,108	22,494	85,602	-7,138	-24.1	2,134	11,480
Illinois	28	1,008,549	303,613	705,201	86,768	791,969	-14,053	-13.9	6,150	49,156
Indiana	21	113,659	34,119	79,554	12,800	92,354	-569	-4.3	327	4,442
Iowa	4	288,210	90,313	197,897	21,850	219,747	-6,183	-22.1	431	9,977
Kansas	16	282,986	122,982	163,870	38,036	201,907	-28,111	-42.5	2,422	22,067
Kentucky	23	221,798	107,647	112,923	41,111	154,034	-22,615	-35.5	2,943	11,521
Louisiana	19	746,683	454,942	282,266	197,102	479,368	-107,564	-35.3	41,527	57,956
Maryland	1	64,000	18,300	45,677	6,073	51,751	-443	-6.8	850	3,810
Michigan	44	1,071,608	683,820	386,921	213,558	600,479	-160,477	-42.9	5,774	112,812
Minnesota	1	7,000	2,000	4,848	1,311	6,159	-5	-0.4	0	290
Mississippi	12	334,792	204,713	124,877	86,156	211,033	-35,269	-29.0	24,668	12,524
Missouri	1	13,845	3,656	10,189	2,337	12,526	-3,925	-62.7	471	338
Montana	4	376,225	197,477	178,501	11,217	189,718	-4,919	-30.5	3	6,471
Nebraska	1	34,850	12,653	22,197	3,092	25,289	-2,210	-41.7	29	1,884
New Mexico	2	89,100	59,738	29,362	25,230	54,592	-13,887	-35.5	95	3,940
New York	26	245,779	127,487	113,925	53,640	167,565	-1,874	-3.4	1,039	16,463
Ohio	24	575,794	253,490	321,618	71,853	393,472	-17,343	-19.4	624	25,048
Oklahoma	13	376,528	198,675	177,696	62,649	240,345	-52,332	-45.5	2,693	34,167
Oregon	7	29,565	15,935	12,639	7,011	19,650	-1,137	-13.9	137	2,841
Pennsylvania	49	763,296	427,661	334,752	152,942	487,694	-16,705	-9.8	9,439	63,246
Tennessee	2	2,400	1,800	878	1,132	2,010	-39	-3.4	18	43
Texas	36	847,587	545,196	295,985	216,274	512,259	-122,537	-36.2	31,778	67,782
Utah	3	124,509	54,942	69,508	13,907	83,415	-9,106	-39.6	148	9,483
Virginia	2	9,500	5,400	4,100	4,313	8,413	165	4.0	945	752
Washington	1	46,900	24,600	22,300	8,566	30,866	201	2.4	687	7,449
West Virginia	31	530,837	268,867	262,338	74,149	336,487	-7,034	-8.7	1,913	35,819
Wyoming	9	155,995	74,492	67,701	24,787	92,488	-2,537	-9.3	84	3,528
<b>Regions</b>										
East Region	133	2,189,206	1,101,205	1,082,411	362,971	1,445,382	-43,234	-10.6	14,810	145,139
South Central Region	100	2,653,951	1,568,552	1,068,024	612,365	1,680,389	-359,646	-37.0	104,039	196,946
Midwest Region	124	2,727,068	1,226,967	1,498,410	380,867	1,879,277	-207,867	-35.3	16,114	188,578
Mountain Region	30	920,306	467,475	430,376	100,727	531,104	-39,797	-28.3	2,492	36,787
Pacific Region	22	680,273	413,771	265,544	181,286	446,830	-19,591	-9.8	5,496	40,330
<b>Total Lower 48 States</b>	<b>409</b>	<b>9,170,803</b>	<b>4,777,970</b>	<b>4,344,766</b>	<b>1,638,217</b>	<b>5,982,982</b>	<b>-670,135</b>	<b>-29.0</b>	<b>142,951</b>	<b>607,780</b>
<b>U.S. Total</b>	<b>414</b>	<b>9,254,395</b>	<b>4,845,885</b>	<b>4,358,963</b>	<b>1,669,858</b>	<b>6,028,821</b>	<b>-667,474</b>	<b>-28.6</b>	<b>143,154</b>	<b>609,971</b>

<sup>a</sup> Alaska data are not included in the regions' totals or the lower 48 states total.

**Notes:** Existing fields include both active and inactive fields. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Total gas capacity may not equal the sum of base gas and working gas capacity, owing to changes in operational conditions. Totals may not equal sum of components because of independent rounding. EIA publishes weekly estimates of working gas in underground storage by geographical region; in November 2015, region breakouts were revised from three regions to five. See Explanatory Note 5 in Appendix A for a list of the new regions shown in this table and the states included in each. Beginning with January 2013 data, Form EIA-191A is no longer used as a source for capacity data. Capacity data are now collected from the Form EIA-191. Change in Working Gas from Same Period, Previous Year, includes data for Alaska which had no working gas recorded for periods prior to January 2013. As of January 2015, the Kimball and Columbus III reservoirs in Michigan are being reported under the Bluewater Gas Storage Field on a combined basis. In prior periods, they were reported separately.

**Source:** Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 14. Natural gas deliveries to residential consumers, by state, 2016-2018

(million cubic feet)

State	2018 2-Month YTD	2017 2-Month YTD	2016 2-Month YTD	2018		2017	
				February	January	Total	December
Alabama	13,211	8,260	12,710	3,776	9,436	NA	6,335
Alaska	5,337	5,712	4,425	2,625	2,712	20,256	2,526
Arizona	11,037	NA	14,531	5,224	5,813	NA	4,277
Arkansas	12,689	8,571	10,985	4,958	7,731	24,159	5,376
California	113,427	NA	113,541	55,217	58,209	NA	62,283
Colorado	42,221	38,109	39,462	20,230	21,992	120,866	21,461
Connecticut	17,328	16,022	15,908	6,899	10,430	49,275	8,433
Delaware	NA	3,317	3,821	1,533	NA	9,804	1,988
District of Columbia	4,252	NA	4,694	1,720	2,532	NA	2,152
Florida	5,184	3,738	5,069	2,063	3,121	15,135	1,829
Georgia	42,696	30,417	45,871	12,189	30,506	111,126	22,292
Hawaii	108	110	99	51	58	572	50
Idaho	8,214	9,887	7,809	4,021	4,193	28,399	5,200
Illinois	148,947	119,517	141,767	64,752	84,196	NA	69,476
Indiana	49,612	38,761	48,841	20,033	29,579	123,558	26,398
Iowa	25,022	20,692	23,488	11,176	13,846	61,252	11,451
Kansas	24,911	18,926	21,389	11,226	13,685	NA	11,310
Kentucky	18,700	13,820	19,184	6,633	12,067	43,124	9,915
Louisiana	14,135	8,236	12,304	4,152	9,983	30,552	6,572
Maine	971	862	824	398	573	2,815	532
Maryland	29,243	24,906	30,358	11,425	17,818	75,098	14,984
Massachusetts	46,089	36,315	37,466	20,802	25,287	122,126	23,076
Michigan	107,705	92,521	102,844	45,390	62,314	305,672	59,357
Minnesota	49,677	40,226	43,527	23,041	26,636	124,815	22,224
Mississippi	9,683	5,685	8,476	2,605	7,078	18,972	4,260
Missouri	41,448	30,494	35,459	16,786	24,662	88,514	19,608
Montana	7,082	7,287	5,449	3,510	3,572	21,777	3,681
Nebraska	15,147	12,693	12,537	7,026	8,121	35,318	6,186
Nevada	12,552	14,625	14,198	6,015	6,537	40,334	6,227
New Hampshire	2,555	2,330	2,394	998	1,557	7,647	1,490
New Jersey	79,734	70,539	77,706	30,408	49,326	222,267	43,308
New Mexico	11,188	10,357	11,705	4,764	6,423	29,924	5,518
New York	153,320	134,485	140,707	63,619	89,701	435,793	76,388
North Carolina	26,997	18,870	29,110	7,963	19,033	75,401	14,339
North Dakota	4,422	3,716	3,466	2,132	2,289	11,055	1,945
Ohio	97,335	79,032	98,463	38,483	58,852	NA	52,291
Oklahoma	26,199	17,655	19,603	11,564	14,635	49,435	11,620
Oregon	12,609	15,899	11,731	6,356	6,253	47,720	8,192
Pennsylvania	85,726	72,172	81,683	33,360	52,366	222,875	43,013
Rhode Island	6,418	5,645	6,110	2,433	3,986	18,999	3,594
South Carolina	12,427	8,001	12,552	3,376	9,051	25,554	6,097
South Dakota	4,824	4,084	4,055	2,262	2,562	11,938	2,140
Tennessee	29,132	19,081	26,421	9,730	19,403	58,364	14,553
Texas	NA	NA	71,490	33,611	NA	NA	25,573
Utah	19,137	20,987	21,449	8,504	10,633	65,391	12,768
Vermont	1,305	1,086	1,160	561	744	3,585	600
Virginia	NA	24,656	31,585	11,341	NA	74,091	15,443
Washington	24,376	29,029	22,192	11,995	12,380	90,315	14,900
West Virginia	9,160	7,142	9,435	3,674	5,486	NA	4,438
Wisconsin	48,039	40,578	44,955	22,264	25,776	130,332	25,078
Wyoming	3,842	4,274	3,494	1,948	1,893	12,954	1,862
<b>Total</b>	<b>1,660,138</b>	<b>1,413,392</b>	<b>1,568,499</b>	<b>686,819</b>	<b>797,319</b>	<b>4,422,523</b>	<b>824,610</b>

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017						
	November	October	September	August	July	June	May
Alabama	2,703	1,217	753	669	692	NA	NA
Alaska	2,614	1,579	893	601	552	656	984
Arizona	2,132	1,504	1,147	1,012	1,102	1,326	1,783
Arkansas	2,375	876	552	521	537	584	896
California	33,815	23,576	17,704	17,954	18,796	20,802	27,144
Colorado	12,751	8,858	3,626	2,896	2,708	3,012	6,385
Connecticut	4,873	1,455	1,110	1,043	1,094	1,404	2,270
Delaware	944	247	170	156	150	205	347
District of Columbia	843	371	270	259	253	310	473
Florida	1,235	931	836	757	786	887	1,075
Georgia	12,081	6,716	4,101	4,044	3,937	4,104	4,932
Hawaii	47	43	44	42	43	49	44
Idaho	3,029	2,117	824	522	511	591	1,099
Illinois	44,363	17,809	NA	8,083	8,664	9,173	16,967
Indiana	14,374	5,540	2,492	1,996	2,091	2,409	5,321
Iowa	6,752	2,993	1,144	1,121	1,043	1,295	2,473
Kansas	NA	2,351	1,224	1,116	1,059	1,290	1,865
Kentucky	5,289	2,013	972	782	717	774	1,184
Louisiana	2,796	1,615	1,283	1,269	1,294	1,353	1,503
Maine	270	87	59	55	53	82	139
Maryland	8,628	2,398	1,715	1,303	1,634	1,772	3,001
Massachusetts	12,242	4,217	2,681	2,516	2,627	3,324	5,995
Michigan	37,891	14,539	7,237	5,484	5,216	6,194	14,012
Minnesota	15,143	6,574	2,575	2,529	2,293	3,019	5,082
Mississippi	2,044	913	640	568	527	541	749
Missouri	10,559	2,354	1,828	1,697	1,631	1,943	3,385
Montana	2,569	1,608	646	354	348	480	914
Nebraska	4,118	1,455	641	450	698	888	1,568
Nevada	2,931	2,007	1,455	1,137	1,292	1,578	1,994
New Hampshire	821	268	161	164	143	183	352
New Jersey	21,725	8,246	4,547	4,321	4,881	5,701	9,519
New Mexico	2,437	1,538	877	829	850	963	1,428
New York	43,034	15,069	11,049	10,307	10,844	13,979	20,798
North Carolina	7,972	2,093	1,087	985	1,125	1,038	1,506
North Dakota	1,393	671	236	178	156	191	348
Ohio	NA	12,021	5,593	4,972	4,646	5,262	9,851
Oklahoma	4,750	1,464	1,220	1,257	1,135	1,260	1,820
Oregon	5,312	3,141	1,188	776	863	1,327	2,142
Pennsylvania	23,451	8,013	4,695	3,957	4,278	5,199	9,670
Rhode Island	2,115	648	398	420	427	476	823
South Carolina	3,098	869	563	502	582	548	681
South Dakota	1,261	673	240	210	192	260	474
Tennessee	6,951	1,880	1,295	1,015	1,044	1,207	1,778
Texas	13,091	7,750	5,871	5,423	5,987	5,807	7,728
Utah	6,836	4,439	1,785	1,442	1,647	2,183	2,834
Vermont	307	113	89	80	84	134	191
Virginia	7,774	2,744	1,623	1,524	1,592	1,747	2,381
Washington	10,528	6,405	2,419	1,733	1,786	2,206	4,009
West Virginia	2,590	1,006	481	301	NA	323	754
Wisconsin	15,254	6,246	2,725	2,490	2,293	2,780	5,936
Wyoming	1,325	983	275	209	217	383	823
<b>Total</b>	<b>466,811</b>	<b>204,245</b>	<b>115,095</b>	<b>104,031</b>	<b>107,473</b>	<b>123,933</b>	<b>200,427</b>

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017				2016		
	April	March	February	January	Total	December	November
Alabama	NA	3,251	3,303	4,957	28,407	4,880	1,790
Alaska	1,472	2,667	2,522	3,190	17,787	2,969	2,313
Arizona	2,361	3,706	NA	6,664	35,120	4,982	2,314
Arkansas	1,099	2,773	3,177	5,394	27,130	5,947	1,830
California	29,589	40,448	53,768	NA	411,828	66,472	37,487
Colorado	9,010	12,051	14,949	23,160	121,963	22,109	11,560
Connecticut	3,591	7,980	7,324	8,698	46,045	7,814	4,432
Delaware	606	1,674	1,384	1,933	9,660	1,711	794
District of Columbia	562	1,622	NA	2,120	11,379	2,132	941
Florida	1,409	1,651	1,776	1,962	15,352	1,587	1,083
Georgia	5,700	12,802	12,374	18,044	115,922	19,450	10,131
Hawaii	49	52	52	58	571	52	47
Idaho	1,988	2,632	3,775	6,112	24,889	5,896	2,661
Illinois	23,286	52,086	47,485	72,032	386,590	77,072	32,863
Indiana	7,058	17,117	15,311	23,450	125,038	26,002	11,340
Iowa	4,107	8,180	8,504	12,187	61,247	12,695	4,607
Kansas	3,216	6,256	7,040	11,886	54,060	12,007	4,755
Kentucky	2,026	5,631	5,580	8,240	45,502	9,305	3,864
Louisiana	1,793	2,837	3,055	5,181	31,393	4,826	1,988
Maine	240	436	405	457	2,566	449	229
Maryland	3,391	11,365	10,915	13,992	76,047	13,905	6,792
Massachusetts	8,761	20,373	16,654	19,661	112,082	19,200	10,623
Michigan	19,261	43,961	39,308	53,213	294,187	53,793	27,488
Minnesota	8,370	16,781	16,630	23,596	117,598	21,656	9,848
Mississippi	830	2,214	2,170	3,514	20,177	3,776	1,349
Missouri	4,518	10,495	11,195	19,299	87,265	19,404	6,724
Montana	1,629	2,262	3,019	4,268	19,100	3,972	2,116
Nebraska	2,313	4,308	4,853	7,840	33,050	6,924	2,373
Nevada	2,755	4,334	6,168	8,457	39,075	6,777	2,891
New Hampshire	498	1,235	1,042	1,288	6,861	1,249	701
New Jersey	15,232	34,249	30,578	39,961	215,510	36,467	18,709
New Mexico	2,113	3,013	4,252	6,105	32,577	5,893	3,068
New York	31,178	68,661	60,883	73,601	410,836	65,878	37,839
North Carolina	2,290	8,097	7,041	11,829	64,547	12,919	6,304
North Dakota	740	1,480	1,582	2,134	10,059	2,140	867
Ohio	13,796	36,914	32,763	46,269	255,826	45,997	23,457
Oklahoma	2,651	4,602	6,244	11,410	50,573	11,805	3,798
Oregon	3,757	5,123	6,390	9,510	39,391	8,788	3,994
Pennsylvania	14,079	34,348	31,516	40,656	215,512	38,712	20,030
Rhode Island	1,229	3,224	2,592	3,054	17,200	3,064	1,753
South Carolina	1,227	3,385	3,037	4,964	27,562	5,384	2,620
South Dakota	890	1,513	1,640	2,444	11,663	2,513	901
Tennessee	2,442	7,118	7,458	11,623	58,924	12,405	4,393
Texas	9,387	15,955	22,069	NA	175,332	29,067	9,113
Utah	4,879	5,592	7,281	13,706	63,929	13,140	6,363
Vermont	318	582	518	568	3,518	555	326
Virginia	3,649	10,958	9,992	14,663	77,170	13,305	6,527
Washington	6,969	10,331	12,339	16,690	76,321	16,027	7,845
West Virginia	1,361	3,461	3,093	4,049	23,210	4,083	2,265
Wisconsin	8,395	18,556	17,162	23,416	125,484	24,373	10,370
Wyoming	1,036	1,567	1,854	2,420	11,999	2,423	1,135
<b>Total</b>	<b>280,598</b>	<b>581,908</b>	<b>581,381</b>	<b>832,011</b>	<b>4,345,031</b>	<b>793,950</b>	<b>379,611</b>

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2016-2018

(million cubic feet) – continued

State	2016						
	October	September	August	July	June	May	April
Alabama	875	620	646	675	833	978	1,645
Alaska	1,713	831	534	479	534	864	1,242
Arizona	1,433	1,144	1,030	1,081	1,327	1,766	2,422
Arkansas	733	609	545	584	687	937	1,510
California	22,235	19,919	18,615	19,535	21,253	24,772	28,203
Colorado	6,061	3,216	2,736	2,559	2,931	6,530	10,422
Connecticut	1,971	962	897	1,034	1,312	2,294	4,070
Delaware	281	165	155	164	224	458	794
District of Columbia	337	202	211	240	280	489	772
Florida	820	727	683	700	798	969	1,222
Georgia	4,799	3,782	3,816	3,629	3,761	4,631	6,473
Hawaii	45	49	45	45	45	44	51
Idaho	1,457	690	498	524	587	893	1,308
Illinois	14,682	7,804	7,463	7,828	9,530	15,847	30,371
Indiana	4,294	2,346	2,216	2,033	2,231	4,740	9,341
Iowa	2,016	1,330	1,052	1,178	1,181	2,249	4,664
Kansas	1,542	1,138	990	1,079	1,376	2,084	2,598
Kentucky	1,288	772	774	723	812	1,491	2,634
Louisiana	1,388	1,222	1,248	1,182	1,240	1,482	1,903
Maine	133	56	44	50	60	136	255
Maryland	2,645	1,425	1,345	1,484	1,784	3,341	5,421
Massachusetts	5,427	2,440	2,282	2,440	2,802	5,617	10,051
Michigan	14,924	6,654	4,899	5,406	5,587	12,193	27,261
Minnesota	5,555	2,599	2,497	2,306	2,944	4,253	9,873
Mississippi	625	572	553	594	740	816	943
Missouri	2,508	1,526	1,611	1,637	1,919	2,869	4,944
Montana	1,383	631	405	400	515	934	1,288
Nebraska	1,031	706	665	713	905	1,371	2,324
Nevada	1,810	1,387	1,208	1,269	1,518	1,993	2,500
New Hampshire	231	153	129	130	168	294	606
New Jersey	8,782	4,706	4,313	5,739	6,416	10,809	17,908
New Mexico	1,214	933	775	839	1,085	1,546	2,179
New York	18,228	9,343	9,231	10,735	12,749	22,011	36,765
North Carolina	1,719	1,088	1,046	1,047	1,222	1,657	3,302
North Dakota	629	218	175	162	181	375	770
Ohio	10,396	4,721	4,818	4,237	4,868	10,509	21,446
Oklahoma	1,659	1,305	1,175	1,114	1,369	1,759	2,369
Oregon	2,776	1,114	622	920	1,127	1,550	2,244
Pennsylvania	8,820	4,167	3,943	4,156	5,190	9,401	16,928
Rhode Island	906	360	236	268	325	746	1,498
South Carolina	730	502	484	447	499	719	1,342
South Dakota	520	239	209	196	230	523	973
Tennessee	1,410	1,021	910	1,004	1,158	1,627	3,108
Texas	6,508	5,353	5,380	5,756	7,078	7,373	11,583
Utah	2,979	1,781	1,366	1,714	1,463	2,994	4,451
Vermont	149	87	77	93	113	204	362
Virginia	2,884	1,450	1,376	1,429	2,052	2,969	5,421
Washington	5,551	2,551	1,776	1,855	2,300	3,170	4,151
West Virginia	884	360	323	363	371	726	1,783
Wisconsin	5,591	2,404	2,125	2,362	2,605	5,058	11,245
Wyoming	727	353	259	231	294	772	979
<b>Total</b>	<b>187,305</b>	<b>109,734</b>	<b>100,409</b>	<b>106,369</b>	<b>122,582</b>	<b>193,829</b>	<b>327,916</b>

See footnotes at end of table.

**Table 14. Natural gas deliveries to residential consumers, by state, 2016-2018**  
(million cubic feet) – continued

State	2016		
	March	February	January
Alabama	2,755	5,516	7,195
Alaska	1,885	2,067	2,358
Arizona	3,090	5,815	8,716
Arkansas	2,762	4,944	6,040
California	39,795	43,744	69,797
Colorado	14,376	17,245	22,217
Connecticut	5,351	7,649	8,259
Delaware	1,094	1,812	2,009
District of Columbia	1,080	2,230	2,464
Florida	1,694	2,333	2,736
Georgia	9,578	19,793	26,077
Hawaii	49	47	52
Idaho	2,566	3,284	4,525
Illinois	41,363	62,741	79,025
Indiana	11,656	21,371	27,469
Iowa	6,787	10,221	13,266
Kansas	5,100	8,618	12,771
Kentucky	4,655	8,533	10,651
Louisiana	2,611	4,882	7,422
Maine	330	388	436
Maryland	7,549	13,589	16,769
Massachusetts	13,735	18,067	19,399
Michigan	33,138	47,643	55,201
Minnesota	12,540	19,714	23,813
Mississippi	1,732	3,311	5,165
Missouri	8,665	14,460	20,999
Montana	2,008	2,291	3,158
Nebraska	3,500	5,465	7,072
Nevada	3,524	5,658	8,540
New Hampshire	806	1,101	1,293
New Jersey	23,954	34,983	42,724
New Mexico	3,342	4,965	6,739
New York	47,350	66,423	74,285
North Carolina	5,133	12,917	16,193
North Dakota	1,076	1,509	1,957
Ohio	26,913	44,163	54,300
Oklahoma	4,616	7,604	11,999
Oregon	4,524	4,904	6,827
Pennsylvania	22,481	37,255	44,428
Rhode Island	1,935	2,791	3,320
South Carolina	2,282	5,686	6,866
South Dakota	1,303	1,766	2,289
Tennessee	5,468	11,344	15,077
Texas	16,632	30,066	41,424
Utah	6,228	9,030	12,419
Vermont	395	562	598
Virginia	8,173	14,427	17,158
Washington	8,903	9,271	12,921
West Virginia	2,617	4,160	5,275
Wisconsin	14,397	19,947	25,007
Wyoming	1,333	1,530	1,963
<b>Total</b>	<b>454,829</b>	<b>689,836</b>	<b>878,664</b>

<sup>R</sup> Revised data.

<sup>NA</sup> Not available.

**Notes:** Geographic coverage is the 50 states and the District of Columbia. See Appendix A, Explanatory Note 6, for discussion of computations and revision policy.

**Source:** Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 15. Natural gas deliveries to commercial consumers, by state, 2016-2018

(million cubic feet)

State	2018 2-Month YTD	2017 2-Month YTD	2016 2-Month YTD	2018		Total	2017 December
				February	January		
Alabama	7,422	5,195	7,666	2,259	5,163	NA	3,994
Alaska	3,932	4,183	3,863	1,940	1,992	15,488	1,970
Arizona	NA	7,424	7,896	NA	NA	NA	3,688
Arkansas	13,923	10,791	11,889	6,018	7,905	NA	6,237
California	49,551	51,920	48,214	24,205	25,346	235,086	27,943
Colorado	NA	15,822	16,563	NA	NA	53,304	8,718
Connecticut	15,253	14,076	13,964	6,533	8,721	53,426	7,541
Delaware	NA	3,373	3,521	1,721	NA	NA	NA
District of Columbia	NA	3,475	5,065	1,759	NA	NA	2,482
Florida	12,447	11,753	12,806	5,465	6,982	62,310	6,027
Georgia	16,287	12,499	18,250	5,091	11,197	49,375	8,569
Hawaii	349	349	315	164	186	NA	166
Idaho	5,013	6,170	4,938	2,419	2,594	19,488	2,882
Illinois	72,453	59,890	67,435	33,007	39,446	216,065	35,953
Indiana	27,057	21,102	25,745	11,065	15,991	75,368	13,733
Iowa	17,265	14,557	16,052	7,777	9,488	50,493	7,994
Kansas	11,265	9,700	10,961	5,150	6,115	36,293	5,599
Kentucky	12,415	9,213	12,035	4,626	7,789	32,850	6,269
Louisiana	6,942	5,693	7,016	2,463	4,479	NA	4,101
Maine	2,817	2,511	2,502	1,197	1,621	9,147	1,554
Maryland	19,776	18,081	21,117	8,354	11,422	NA	11,314
Massachusetts	36,470	29,950	30,102	17,203	19,267	113,757	18,628
Michigan	55,475	47,725	50,264	24,550	30,926	165,739	26,969
Minnesota	35,767	30,022	30,698	17,306	18,461	100,381	16,864
Mississippi	5,818	4,086	5,344	1,855	3,963	17,668	2,703
Missouri	22,330	NA	19,202	9,902	12,428	NA	10,053
Montana	7,274	7,171	5,574	3,671	3,603	23,530	3,550
Nebraska	10,318	9,402	8,940	4,939	5,379	30,083	4,545
Nevada	7,355	7,981	7,812	3,593	3,762	31,912	4,007
New Hampshire	3,068	2,739	2,821	1,216	1,853	9,522	1,767
New Jersey	46,581	NA	42,860	19,869	26,712	NA	24,158
New Mexico	6,855	6,416	6,753	2,788	4,067	24,406	4,018
New York	84,411	79,158	84,261	36,583	47,828	315,768	46,690
North Carolina	16,855	12,594	18,097	6,002	10,853	52,747	8,343
North Dakota	4,499	4,056	3,744	2,272	2,227	13,104	2,036
Ohio	53,191	43,701	53,337	21,578	31,613	154,289	28,392
Oklahoma	16,137	11,545	12,459	7,306	8,830	38,675	6,867
Oregon	NA	9,918	7,367	NA	3,982	31,583	4,890
Pennsylvania	49,527	42,565	47,728	19,895	29,632	NA	NA
Rhode Island	3,823	3,428	3,730	1,522	2,301	11,631	2,217
South Carolina	6,273	4,970	6,818	2,282	3,991	23,170	3,132
South Dakota	3,891	3,282	3,313	1,869	2,022	10,694	1,737
Tennessee	17,667	12,600	17,064	6,362	11,305	50,172	9,101
Texas	49,107	NA	42,158	21,033	28,074	NA	19,416
Utah	11,311	12,069	12,298	5,142	6,169	40,200	7,296
Vermont	1,692	1,508	1,636	703	988	NA	942
Virginia	NA	16,365	20,931	7,881	NA	NA	10,091
Washington	14,699	16,831	13,304	7,209	7,490	59,206	8,272
West Virginia	6,750	5,515	6,807	2,834	3,916	22,068	3,473
Wisconsin	30,175	26,140	28,485	13,756	16,419	90,033	14,745
Wyoming	3,882	4,353	3,695	1,963	1,919	14,174	1,844
<b>Total</b>	<b>967,554</b>	<b>842,131</b>	<b>915,414</b>	<b>420,187</b>	<b>547,367</b>	<b>3,177,099</b>	<b>488,326</b>

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017						
	November	October	September	August	July	June	May
Alabama	2,647	2,029	1,252	1,132	1,070	NA	NA
Alaska	1,824	1,184	707	548	498	528	852
Arizona	2,555	2,169	1,918	NA	1,866	1,970	2,289
Arkansas	4,240	3,589	2,842	2,822	2,634	2,677	NA
California	21,552	19,225	15,926	16,058	14,802	14,653	16,097
Colorado	5,443	3,820	1,901	1,733	1,657	1,760	3,101
Connecticut	5,327	2,844	2,532	2,461	2,479	2,354	2,779
Delaware	1,457	832	649	571	498	559	717
District of Columbia	NA	930	757	766	788	784	933
Florida	5,264	4,853	4,558	4,558	4,500	4,662	4,926
Georgia	5,243	3,346	2,237	2,219	2,172	2,223	2,601
Hawaii	167	164	162	166	159	NA	157
Idaho	1,894	1,473	930	722	694	709	945
Illinois	22,270	13,703	8,823	8,059	7,696	7,567	12,640
Indiana	8,404	5,004	2,769	2,394	2,234	2,441	3,578
Iowa	5,911	3,653	1,831	1,604	1,623	1,781	2,319
Kansas	3,503	2,450	1,782	1,846	1,671	1,658	1,874
Kentucky	3,767	2,048	1,380	1,138	1,043	1,101	1,339
Louisiana	2,763	2,296	1,874	1,990	1,868	NA	2,113
Maine	962	391	306	297	296	325	472
Maryland	7,173	3,774	3,182	3,222	NA	2,967	4,094
Massachusetts	12,141	5,866	4,301	4,232	3,979	4,120	6,084
Michigan	17,234	8,349	6,070	5,516	5,112	6,084	8,967
Minnesota	11,208	5,525	3,085	2,885	2,878	3,137	4,883
Mississippi	1,761	1,456	1,013	981	890	905	1,103
Missouri	5,737	2,751	2,310	2,240	2,041	2,196	2,786
Montana	2,660	1,694	1,016	690	675	758	1,102
Nebraska	3,144	1,751	1,043	837	1,075	1,236	1,555
Nevada	2,634	2,280	1,885	1,689	1,743	1,891	2,169
New Hampshire	1,084	407	256	269	201	251	446
New Jersey	13,303	8,262	7,044	6,049	5,590	5,948	8,160
New Mexico	2,802	1,869	1,145	1,134	1,061	1,010	1,275
New York	31,863	17,487	14,931	15,092	14,359	14,733	18,286
North Carolina	5,709	3,831	2,710	2,657	2,578	2,348	2,946
North Dakota	1,612	885	466	356	310	324	494
Ohio	17,276	8,997	5,412	5,026	4,606	4,955	7,067
Oklahoma	3,614	2,198	1,676	1,667	1,542	1,640	1,957
Oregon	3,154	2,146	1,140	846	885	1,188	1,664
Pennsylvania	NA	7,957	5,088	4,814	4,907	5,168	7,497
Rhode Island	1,184	459	258	263	268	305	550
South Carolina	2,388	1,802	1,329	1,316	1,407	1,287	1,524
South Dakota	1,167	697	364	300	299	337	483
Tennessee	5,682	3,303	2,451	2,177	2,110	2,179	2,628
Texas	13,992	12,199	10,331	10,451	10,488	10,237	11,270
Utah	4,292	2,720	1,398	1,166	1,248	1,682	1,908
Vermont	759	405	346	320	295	NA	336
Virginia	6,662	4,116	3,323	3,160	NA	2,858	3,752
Washington	6,069	4,242	2,482	2,144	2,194	2,433	3,461
West Virginia	2,247	1,365	1,063	1,005	952	1,002	1,201
Wisconsin	9,969	5,154	3,011	3,133	2,869	3,054	4,477
Wyoming	1,339	1,035	449	407	414	527	952
<b>Total</b>	<b>323,729</b>	<b>200,987</b>	<b>145,714</b>	<b>139,002</b>	<b>133,901</b>	<b>138,036</b>	<b>179,211</b>

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017				Total	2016	
	April	March	February	January		December	November
Alabama	NA	2,339	2,121	3,075	23,552	3,314	2,275
Alaska	1,149	2,045	1,850	2,333	15,953	2,277	1,986
Arizona	2,541	2,949	3,412	4,012	30,938	3,655	2,662
Arkansas	3,026	4,379	4,508	6,283	45,810	6,232	4,036
California	17,114	19,797	22,215	29,705	236,967	28,870	22,310
Colorado	4,084	5,265	6,275	9,547	54,265	9,066	5,115
Connecticut	3,884	7,148	6,442	7,635	50,258	7,106	4,847
Delaware	747	1,685	1,497	1,877	12,340	1,865	1,259
District of Columbia	1,005	1,697	1,499	1,976	15,648	2,011	1,577
Florida	5,317	5,892	5,491	6,261	62,526	5,911	5,251
Georgia	2,827	5,440	5,210	7,289	51,325	7,639	4,603
Hawaii	164	173	164	185	1,926	170	165
Idaho	1,330	1,740	2,456	3,714	17,598	3,274	1,658
Illinois	13,530	25,935	24,500	35,389	212,482	34,996	17,390
Indiana	4,425	9,282	8,366	12,736	74,131	13,291	6,367
Iowa	3,328	5,890	6,097	8,460	49,414	8,370	4,182
Kansas	2,630	3,579	3,652	6,048	34,762	5,921	2,682
Kentucky	1,662	3,889	3,822	5,391	33,520	5,921	2,990
Louisiana	2,147	2,701	2,386	3,307	28,931	3,403	2,448
Maine	712	1,322	1,177	1,334	8,559	1,319	771
Maryland	4,183	9,413	7,893	10,188	70,500	9,758	6,917
Massachusetts	7,681	16,774	13,799	16,151	104,850	15,481	10,334
Michigan	11,420	22,292	21,160	26,565	158,630	24,656	13,188
Minnesota	7,512	12,382	12,973	17,049	92,529	14,773	8,027
Mississippi	990	1,780	1,708	2,379	18,126	2,368	1,610
Missouri	3,243	6,391	NA	10,361	56,967	10,062	5,473
Montana	1,722	2,492	3,048	4,123	21,314	3,947	2,238
Nebraska	2,143	3,351	3,823	5,579	26,971	4,892	2,339
Nevada	2,573	3,061	3,493	4,488	31,125	4,003	2,639
New Hampshire	592	1,509	1,222	1,517	8,509	1,486	892
New Jersey	9,544	21,049	18,310	NA	153,096	23,599	11,716
New Mexico	1,718	1,957	2,477	3,938	24,954	3,981	3,335
New York	21,629	41,538	36,890	42,269	300,588	39,787	27,178
North Carolina	2,945	6,086	5,093	7,501	55,876	7,469	5,301
North Dakota	902	1,662	1,723	2,333	11,810	2,344	1,034
Ohio	8,316	20,541	18,469	25,232	152,478	24,165	14,606
Oklahoma	2,426	3,545	4,432	7,113	38,510	7,033	2,991
Oregon	2,452	3,299	4,087	5,831	26,667	5,055	2,520
Pennsylvania	9,282	20,924	19,194	23,371	142,724	23,326	13,681
Rhode Island	769	1,932	1,540	1,887	10,744	1,843	1,019
South Carolina	1,505	2,510	2,129	2,841	23,734	2,840	2,424
South Dakota	748	1,281	1,330	1,952	10,439	1,968	964
Tennessee	2,572	5,369	5,277	7,323	49,810	8,029	4,716
Texas	12,197	14,673	NA	NA	164,306	19,803	12,852
Utah	3,089	3,331	4,490	7,579	39,066	7,032	4,221
Vermont	379	782	685	822	6,251	845	575
Virginia	3,919	7,960	6,983	9,383	67,553	8,360	7,392
Washington	4,726	6,353	7,399	9,432	51,634	8,702	4,816
West Virginia	1,533	2,710	2,495	3,021	22,698	3,151	2,079
Wisconsin	6,288	11,194	10,826	15,314	88,701	14,628	7,423
Wyoming	1,114	1,739	1,912	2,441	13,425	2,257	1,252
<b>Total</b>	<b>213,036</b>	<b>373,026</b>	<b>361,061</b>	<b>481,070</b>	<b>3,105,487</b>	<b>462,253</b>	<b>280,328</b>

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2016-2018

(million cubic feet) – continued

State	2016						
	October	September	August	July	June	May	April
Alabama	1,505	1,029	1,046	1,008	1,172	1,236	1,487
Alaska	1,400	866	639	566	664	826	1,201
Arizona	1,998	1,804	1,771	1,783	1,923	2,180	2,477
Arkansas	3,025	2,733	2,603	2,469	2,562	2,880	3,144
California	17,301	16,692	17,658	15,665	16,004	16,480	17,220
Colorado	2,824	1,813	1,495	1,638	1,834	3,121	4,605
Connecticut	3,180	2,466	2,462	2,444	2,106	2,826	3,746
Delaware	862	596	566	519	516	668	898
District of Columbia	898	675	699	688	639	877	1,222
Florida	4,707	4,552	4,284	4,640	4,548	4,880	5,280
Georgia	2,574	2,086	2,066	2,006	2,051	2,437	3,220
Hawaii	162	171	163	155	154	151	162
Idaho	1,266	811	712	668	664	865	1,009
Illinois	12,701	8,285	8,004	7,989	7,350	10,639	16,018
Indiana	4,327	2,719	2,493	2,087	2,176	3,276	5,161
Iowa	2,970	2,052	1,826	1,758	1,604	2,134	3,532
Kansas	1,968	1,540	1,563	1,512	1,628	1,960	2,102
Kentucky	1,697	1,176	1,126	1,065	1,012	1,522	1,798
Louisiana	2,095	1,903	1,970	1,785	1,816	2,110	2,137
Maine	523	291	280	284	311	471	789
Maryland	4,184	3,228	2,978	2,882	3,249	4,159	5,515
Massachusetts	7,338	4,424	4,205	3,926	3,830	5,716	8,832
Michigan	8,231	5,366	5,189	5,033	5,240	8,587	14,404
Minnesota	5,388	2,946	2,838	2,672	3,073	4,571	7,286
Mississippi	1,096	988	972	948	1,158	1,191	1,018
Missouri	2,951	1,981	2,119	2,040	2,034	2,666	3,235
Montana	1,556	934	742	732	764	1,136	1,461
Nebraska	1,259	954	930	960	1,048	1,267	1,817
Nevada	2,154	1,836	1,723	1,771	1,783	2,183	2,421
New Hampshire	365	234	203	200	248	381	716
New Jersey	7,835	7,339	8,213	8,165	7,963	8,929	11,456
New Mexico	1,535	1,170	1,053	1,009	1,117	1,249	1,558
New York	20,612	14,883	16,258	14,940	14,800	16,724	23,130
North Carolina	3,359	2,791	2,790	2,584	2,582	2,878	3,743
North Dakota	795	356	300	303	296	422	1,026
Ohio	8,566	4,898	4,902	4,193	4,162	6,640	12,084
Oklahoma	1,952	1,683	1,638	1,480	1,558	2,083	2,206
Oregon	1,949	1,071	697	926	1,046	1,318	1,797
Pennsylvania	8,461	4,846	4,608	4,420	4,911	6,756	10,707
Rhode Island	572	233	167	174	234	549	977
South Carolina	1,588	1,284	1,300	1,135	1,255	1,395	1,849
South Dakota	590	349	298	299	302	482	820
Tennessee	2,548	2,049	1,956	1,947	1,945	2,522	2,854
Texas	10,574	9,927	9,923	9,968	11,212	10,433	12,963
Utah	1,971	1,358	1,036	1,245	1,083	2,026	2,794
Vermont	495	353	355	350	310	290	520
Virginia	4,448	2,939	2,755	2,736	3,135	3,411	5,150
Washington	3,829	2,517	2,191	2,289	2,466	2,854	3,114
West Virginia	1,356	1,007	1,016	1,075	998	1,226	1,656
Wisconsin	4,884	3,142	3,060	2,867	3,162	4,578	7,206
Wyoming	850	555	467	430	434	856	1,107
<b>Total</b>	<b>191,273</b>	<b>141,901</b>	<b>140,306</b>	<b>134,427</b>	<b>138,131</b>	<b>171,017</b>	<b>232,634</b>

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2016-2018

(million cubic feet) – continued

State	2016		
	March	February	January
Alabama	1,813	3,085	4,582
Alaska	1,664	1,753	2,110
Arizona	2,789	3,422	4,474
Arkansas	4,237	5,574	6,314
California	20,551	21,465	26,750
Colorado	6,190	7,277	9,285
Connecticut	5,111	6,810	7,154
Delaware	1,071	1,595	1,926
District of Columbia	1,297	2,469	2,596
Florida	5,668	6,134	6,672
Georgia	4,391	7,910	10,340
Hawaii	157	155	159
Idaho	1,733	2,111	2,827
Illinois	21,673	31,000	36,435
Indiana	6,490	11,408	14,337
Iowa	4,934	7,130	8,921
Kansas	2,925	4,639	6,322
Kentucky	3,178	5,410	6,625
Louisiana	2,248	2,778	4,238
Maine	1,018	1,168	1,333
Maryland	6,514	9,691	11,425
Massachusetts	10,662	13,977	16,124
Michigan	18,469	24,381	25,883
Minnesota	10,258	14,105	16,593
Mississippi	1,434	2,207	3,137
Missouri	5,204	8,516	10,685
Montana	2,230	2,390	3,184
Nebraska	2,565	3,846	5,094
Nevada	2,801	3,408	4,404
New Hampshire	962	1,283	1,539
New Jersey	15,021	19,959	22,901
New Mexico	2,196	2,813	3,940
New York	28,014	39,025	45,237
North Carolina	4,280	7,912	10,185
North Dakota	1,189	1,629	2,115
Ohio	14,927	23,498	29,839
Oklahoma	3,428	5,052	7,407
Oregon	2,922	3,165	4,202
Pennsylvania	13,278	21,407	26,322
Rhode Island	1,247	1,747	1,983
South Carolina	1,845	2,982	3,836
South Dakota	1,053	1,395	1,918
Tennessee	4,181	7,280	9,785
Texas	14,493	18,720	23,439
Utah	4,002	5,361	6,937
Vermont	523	724	911
Virginia	6,295	9,336	11,595
Washington	5,553	5,868	7,436
West Virginia	2,326	3,060	3,747
Wisconsin	9,266	13,211	15,274
Wyoming	1,521	1,635	2,061
<b>Total</b>	<b>297,803</b>	<b>412,876</b>	<b>502,539</b>

<sup>R</sup> Revised data.<sup>NA</sup> Not available.**Notes:** Geographic coverage is the 50 states and the District of Columbia. See Appendix A, Explanatory Note 6, for discussion of computations and revision policy.**Source:** Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 16. Natural gas deliveries to industrial consumers, by state, 2016-2018

(million cubic feet)

State	2018 2-Month YTD	2017 2-Month YTD	2016 2-Month YTD	2018		2017 Total	2017 December
				February	January		
Alabama	35,536	33,361	35,360	16,388	19,148	196,390	18,417
Alaska	1,060	961	722	525	535	4,118	391
Arizona	3,754	3,850	3,823	1,777	1,978	19,278	2,002
Arkansas	NA	16,273	16,315	8,040	NA	91,322	8,703
California	120,898	120,869	123,159	57,052	63,846	758,959	65,925
Colorado	18,410	17,534	16,827	8,960	9,450	81,984	8,917
Connecticut	5,113	4,859	5,281	2,339	2,774	24,546	2,603
Delaware	NA	5,545	5,338	NA	2,530	NA	2,512
District of Columbia	0	0	0	0	0	0	0
Florida	18,023	17,925	18,193	7,894	10,130	102,221	9,641
Georgia	26,199	25,916	28,183	12,004	14,195	152,153	13,961
Hawaii	NA	89	90	47	NA	NA	NA
Idaho	6,628	7,177	6,977	3,099	3,529	35,889	3,496
Illinois	54,922	49,108	53,187	24,819	30,103	253,541	28,313
Indiana	NA	68,140	71,049	37,373	NA	368,772	38,219
Iowa	40,073	38,191	32,885	19,062	21,011	NA	21,386
Kansas	24,125	22,130	22,452	11,205	12,919	127,707	12,258
Kentucky	23,512	21,340	22,935	11,021	12,491	113,883	11,415
Louisiana	NA	176,791	173,770	91,143	NA	1,094,370	99,846
Maine	3,694	3,243	3,224	1,721	1,973	17,201	1,875
Maryland	NA	2,757	2,805	NA	1,414	15,665	1,541
Massachusetts	11,564	10,842	10,861	5,369	6,195	NA	5,744
Michigan	NA	35,488	37,214	NA	19,784	172,694	19,585
Minnesota	31,790	31,203	32,732	15,270	16,520	NA	NA
Mississippi	23,441	21,632	20,922	10,966	12,475	129,677	11,957
Missouri	13,625	12,754	13,976	6,707	6,918	63,669	6,896
Montana	4,593	3,541	3,901	2,254	2,339	NA	NA
Nebraska	14,961	16,049	13,775	7,355	7,606	NA	8,245
Nevada	3,499	3,336	3,044	1,675	1,824	19,250	1,830
New Hampshire	NA	1,625	1,741	NA	851	8,559	849
New Jersey	NA	10,348	10,805	NA	NA	NA	4,771
New Mexico	2,855	2,792	2,990	1,345	1,510	NA	1,525
New York	18,567	16,110	15,615	8,873	9,694	83,337	9,186
North Carolina	NA	18,296	20,559	9,453	NA	107,388	10,727
North Dakota	5,940	5,438	5,028	2,918	3,021	33,051	3,337
Ohio	58,215	55,229	56,910	27,257	30,958	280,501	29,341
Oklahoma	35,968	33,540	33,297	17,473	18,495	200,960	17,765
Oregon	10,053	11,162	10,721	4,715	5,338	58,734	5,346
Pennsylvania	41,968	40,219	41,619	19,386	22,582	NA	NA
Rhode Island	1,685	NA	1,529	843	842	NA	773
South Carolina	15,082	15,448	15,185	7,611	7,470	91,903	8,286
South Dakota	8,606	8,092	8,050	4,292	4,313	45,274	4,228
Tennessee	NA	24,183	23,386	12,057	NA	NA	NA
Texas	296,378	NA	273,727	136,911	159,467	NA	155,254
Utah	7,734	7,589	7,171	3,797	3,937	40,009	3,874
Vermont	429	417	424	204	224	2,191	226
Virginia	16,103	15,615	15,732	8,055	8,048	NA	8,029
Washington	15,243	15,000	14,759	7,575	7,667	80,495	7,710
West Virginia	6,672	6,265	5,258	3,109	3,563	34,896	3,271
Wisconsin	34,208	30,348	30,188	16,055	18,153	153,225	17,271
Wyoming	9,334	9,284	8,803	4,644	4,691	52,091	5,249
<b>Total</b>	<b>1,460,593</b>	<b>1,375,487</b>	<b>1,382,496</b>	<b>690,216</b>	<b>770,377</b>	<b>7,901,570</b>	<b>759,417</b>

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017						
	November	October	September	August	July	June	May
Alabama	16,467	15,831	15,288	15,869	15,719	15,813	16,313
Alaska	303	237	213	238	198	338	370
Arizona	1,500	1,576	1,389	1,376	1,333	1,350	1,562
Arkansas	7,761	7,934	7,082	7,217	6,887	7,073	7,490
California	61,958	64,442	67,212	68,890	64,201	60,178	62,230
Colorado	7,560	6,699	4,905	5,228	5,091	5,196	6,455
Connecticut	2,348	1,663	1,664	1,736	1,749	1,690	1,755
Delaware	2,534	2,647	NA	2,492	2,272	2,424	2,316
District of Columbia	0	0	0	0	0	0	0
Florida	8,923	8,788	7,218	8,184	8,033	7,672	8,370
Georgia	13,361	12,266	10,523	12,720	12,355	12,729	12,484
Hawaii	43	40	48	48	45	45	46
Idaho	3,329	3,251	2,703	2,262	2,472	2,455	2,741
Illinois	24,437	20,513	17,878	17,826	16,732	17,032	18,843
Indiana	32,016	28,552	28,487	28,005	27,598	26,309	27,923
Iowa	19,859	NA	17,226	17,992	17,845	17,647	18,182
Kansas	11,272	9,341	10,251	11,045	11,725	10,162	9,180
Kentucky	10,120	9,157	8,208	8,405	8,020	8,492	9,215
Louisiana	95,417	93,437	89,505	93,101	90,495	88,526	89,125
Maine	1,718	1,349	1,281	1,221	1,240	1,133	1,171
Maryland	1,537	1,249	1,199	1,127	1,177	1,287	1,228
Massachusetts	4,131	NA	2,745	2,517	2,489	2,707	3,200
Michigan	15,601	13,902	11,480	11,967	10,799	10,846	12,433
Minnesota	14,748	12,882	12,335	12,894	12,236	12,610	12,849
Mississippi	11,347	10,549	10,537	10,730	10,169	10,208	10,849
Missouri	5,663	5,146	4,346	4,594	4,402	4,362	4,717
Montana	NA	NA	1,963	1,815	1,709	1,382	1,089
Nebraska	NA	7,800	6,666	7,147	7,586	6,217	6,868
Nevada	1,644	1,735	1,528	1,579	1,453	1,481	1,469
New Hampshire	737	653	611	594	611	609	682
New Jersey	NA	NA	NA	NA	NA	NA	4,343
New Mexico	NA	1,361	1,247	1,292	1,298	1,253	1,310
New York	8,445	6,658	5,750	5,799	5,636	5,482	5,553
North Carolina	10,198	9,445	8,158	8,421	7,806	8,109	8,312
North Dakota	2,677	2,735	1,849	2,563	2,578	2,828	2,931
Ohio	25,474	21,444	20,576	19,580	19,227	18,812	21,307
Oklahoma	16,352	17,110	16,445	16,196	15,656	16,021	16,747
Oregon	4,864	4,969	4,430	4,335	4,200	4,467	4,819
Pennsylvania	20,006	17,721	16,453	16,635	15,739	16,016	16,784
Rhode Island	709	641	673	672	644	660	666
South Carolina	8,559	8,087	7,079	7,468	7,016	7,159	7,454
South Dakota	3,979	3,515	3,539	3,615	3,573	3,554	3,648
Tennessee	10,813	10,587	10,356	10,842	10,423	10,618	10,984
Texas	145,693	NA	131,222	140,826	143,670	140,620	133,666
Utah	3,380	2,947	3,048	2,907	3,035	3,112	3,248
Vermont	204	166	158	164	158	158	158
Virginia	8,089	7,390	7,361	7,250	NA	7,646	7,698
Washington	6,987	7,281	6,274	6,074	5,922	5,939	6,052
West Virginia	3,133	2,905	2,771	2,822	2,686	2,733	2,667
Wisconsin	14,813	12,037	10,346	10,834	10,166	9,878	10,958
Wyoming	4,437	4,201	4,013	3,954	3,795	3,838	4,193
<b>Total</b>	<b>690,730</b>	<b>652,255</b>	<b>613,266</b>	<b>634,844</b>	<b>622,986</b>	<b>611,185</b>	<b>624,651</b>

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017				Total	2016	
	April	March	February	January		December	November
Alabama	15,892	17,421	15,519	17,843	192,424	16,998	15,514
Alaska	399	469	464	497	4,268	466	493
Arizona	1,585	1,756	1,782	2,067	19,765	1,914	1,646
Arkansas	7,215	7,685	7,626	8,647	87,876	8,515	7,582
California	60,226	62,828	56,739	64,131	774,504	66,492	62,918
Colorado	6,862	7,536	7,618	9,916	80,432	9,450	7,220
Connecticut	1,847	2,632	2,216	2,643	24,271	2,672	2,213
Delaware	NA	2,353	2,657	2,888	31,457	2,776	2,573
District of Columbia	0	0	0	0	0	0	0
Florida	8,295	9,171	8,170	9,755	103,658	9,226	8,626
Georgia	11,912	13,925	12,308	13,608	152,312	13,487	12,619
Hawaii	42	47	42	48	542	42	41
Idaho	2,819	3,183	3,276	3,901	34,761	3,788	3,171
Illinois	19,630	23,228	22,437	26,671	254,682	27,055	22,153
Indiana	29,677	33,846	31,613	36,527	370,944	37,406	28,292
Iowa	17,984	20,009	18,149	20,042	189,618	20,149	18,448
Kansas	9,756	10,585	9,833	12,297	123,915	12,699	9,872
Kentucky	9,052	10,458	9,881	11,459	115,201	11,095	10,031
Louisiana	87,863	90,263	82,437	94,354	1,048,751	93,853	88,012
Maine	1,375	1,595	1,534	1,709	18,983	1,524	1,403
Maryland	1,035	1,528	1,275	1,482	15,400	1,666	1,146
Massachusetts	4,311	5,605	5,135	5,707	45,721	5,209	4,214
Michigan	13,052	17,541	16,396	19,092	172,010	18,447	14,564
Minnesota	13,729	14,907	14,732	16,471	162,818	15,993	13,769
Mississippi	10,556	11,143	10,406	11,226	116,117	10,739	9,932
Missouri	4,873	5,916	5,683	7,070	63,630	6,733	5,257
Montana	1,261	1,628	1,621	1,920	21,208	1,854	2,126
Nebraska	7,014	7,349	7,603	8,446	91,021	8,390	8,307
Nevada	1,524	1,671	1,516	1,819	18,327	1,824	1,517
New Hampshire	768	821	821	804	8,454	770	724
New Jersey	NA	NA	4,957	5,391	60,910	5,379	4,500
New Mexico	NA	NA	1,244	1,548	16,109	1,523	1,393
New York	6,428	8,291	7,587	8,522	77,153	8,323	6,779
North Carolina	8,284	9,631	8,662	9,633	105,504	9,629	8,938
North Dakota	2,983	3,133	2,426	3,012	31,232	2,620	3,009
Ohio	22,548	26,962	26,017	29,212	275,358	27,698	23,448
Oklahoma	17,220	17,909	15,559	17,980	192,257	17,581	15,480
Oregon	4,854	5,288	5,171	5,991	57,760	5,705	4,754
Pennsylvania	17,082	21,013	19,014	21,205	212,253	20,668	19,496
Rhode Island	799	716	NA	806	8,474	734	677
South Carolina	7,232	8,114	7,278	8,170	88,148	7,958	7,852
South Dakota	3,616	3,916	3,796	4,296	44,570	4,108	3,953
Tennessee	10,625	11,930	11,638	12,546	122,952	12,163	10,537
Texas	130,797	139,913	131,228	NA	1,649,759	154,403	140,134
Utah	3,480	3,390	3,810	3,779	38,568	3,460	3,201
Vermont	167	215	196	222	2,172	217	199
Virginia	7,833	8,262	7,874	7,741	88,422	7,668	7,547
Washington	6,263	6,994	6,844	8,156	79,275	7,903	6,687
West Virginia	2,488	3,155	2,937	3,328	32,281	3,394	3,284
Wisconsin	11,636	14,939	13,691	16,657	143,214	15,840	12,341
Wyoming	4,394	4,732	4,416	4,868	52,810	5,173	4,938
<b>Total</b>	<b>625,436</b>	<b>691,312</b>	<b>644,623</b>	<b>730,864</b>	<b>7,722,252</b>	<b>733,380</b>	<b>653,529</b>

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2016-2018

(million cubic feet) – continued

State	2016						
	October	September	August	July	June	May	April
Alabama	15,106	14,453	14,872	14,946	15,399	16,891	16,027
Alaska	538	436	261	307	363	261	183
Arizona	1,663	1,576	1,386	1,334	1,542	1,591	1,582
Arkansas	7,052	6,668	7,035	6,546	6,554	6,970	7,074
California	63,793	68,837	72,768	66,479	62,672	63,228	61,518
Colorado	6,110	5,167	5,246	5,118	4,984	6,141	6,625
Connecticut	1,745	1,663	1,733	1,685	1,602	1,714	1,921
Delaware	2,742	2,659	2,573	2,690	2,333	2,643	2,464
District of Columbia	0	0	0	0	0	0	0
Florida	8,460	8,150	8,431	8,340	7,619	8,566	8,978
Georgia	12,635	11,517	11,720	11,880	11,832	12,657	12,370
Hawaii	43	44	56	54	41	47	42
Idaho	3,117	2,659	2,252	2,524	2,136	2,462	2,492
Illinois	20,313	18,519	17,502	17,556	16,356	18,795	20,145
Indiana	24,639	27,077	27,962	29,016	29,034	31,204	31,458
Iowa	16,360	14,188	15,012	14,346	14,114	14,311	13,989
Kansas	9,120	8,356	12,156	11,049	9,324	9,217	9,344
Kentucky	9,001	8,199	8,561	8,169	8,237	9,171	9,448
Louisiana	85,534	84,515	87,369	88,600	85,219	87,933	85,740
Maine	1,697	1,590	1,588	1,569	1,414	1,570	1,602
Maryland	1,281	997	1,207	1,219	1,063	1,202	1,264
Massachusetts	3,331	2,495	2,419	2,475	2,841	3,168	4,147
Michigan	13,226	12,155	11,473	10,754	11,263	11,856	14,586
Minnesota	12,018	10,879	12,090	12,203	11,722	12,508	13,345
Mississippi	8,328	8,676	9,571	9,591	9,839	9,772	9,647
Missouri	4,458	4,628	4,301	4,453	4,385	4,952	4,936
Montana	1,874	1,835	1,641	1,661	1,510	1,658	1,459
Nebraska	8,070	7,639	9,167	8,450	7,126	6,787	6,586
Nevada	1,628	1,510	1,440	1,392	1,427	1,477	1,511
New Hampshire	651	620	582	590	564	679	727
New Jersey	5,405	5,179	5,372	5,628	5,268	4,364	4,820
New Mexico	1,321	1,232	1,209	1,252	1,220	1,297	1,234
New York	6,129	5,336	5,568	5,203	5,138	4,925	6,674
North Carolina	8,625	7,700	8,370	7,741	7,668	8,439	8,635
North Dakota	3,179	2,848	2,037	2,194	2,768	2,795	2,091
Ohio	21,386	19,351	18,914	19,148	19,685	21,390	22,601
Oklahoma	14,948	13,765	15,638	15,794	15,675	17,306	16,339
Oregon	4,920	4,469	4,337	4,254	4,287	4,591	4,623
Pennsylvania	17,368	14,878	16,263	14,823	14,577	15,739	17,592
Rhode Island	694	742	662	605	652	691	728
South Carolina	7,159	6,862	6,901	6,771	7,010	7,448	7,464
South Dakota	3,565	3,536	3,661	3,401	3,386	3,480	3,645
Tennessee	9,993	9,343	9,639	9,293	9,496	9,395	9,550
Texas	137,211	136,921	143,214	142,470	128,372	128,639	126,880
Utah	3,130	2,995	2,735	2,822	3,036	3,073	3,569
Vermont	185	153	140	140	151	167	192
Virginia	6,455	7,527	7,427	7,350	7,190	6,896	7,176
Washington	7,137	6,414	5,964	6,013	5,731	5,758	6,304
West Virginia	3,013	2,712	2,576	2,697	2,406	2,093	2,300
Wisconsin	11,270	9,824	9,962	9,222	9,690	10,099	11,833
Wyoming	4,648	4,013	4,304	4,274	4,040	4,159	4,054
<b>Total</b>	<b>622,274</b>	<b>603,507</b>	<b>627,266</b>	<b>616,091</b>	<b>589,960</b>	<b>612,176</b>	<b>619,514</b>

See footnotes at end of table.

**Table 16. Natural gas deliveries to industrial consumers, by state, 2016-2018**  
(million cubic feet) – continued

State	2016		
	March	February	January
Alabama	16,858	16,678	18,682
Alaska	237	243	479
Arizona	1,708	1,793	2,030
Arkansas	7,566	7,708	8,607
California	62,640	58,879	64,280
Colorado	7,542	7,704	9,124
Connecticut	2,044	2,517	2,764
Delaware	2,666	2,517	2,821
District of Columbia	0	0	0
Florida	9,069	8,655	9,538
Georgia	13,414	13,814	14,369
Hawaii	41	44	47
Idaho <sup>a</sup>	3,184	3,333	3,644
Illinois	23,101	25,486	27,701
Indiana	33,807	34,114	36,935
Iowa	15,816	15,857	17,028
Kansas	10,327	10,669	11,783
Kentucky	10,354	10,915	12,020
Louisiana	88,206	83,387	90,384
Maine	1,802	1,543	1,681
Maryland	1,549	1,456	1,349
Massachusetts	4,560	5,283	5,579
Michigan	16,473	18,124	19,089
Minnesota	15,560	15,368	17,365
Mississippi	9,099	10,108	10,815
Missouri	5,551	7,118	6,858
Montana	1,690	1,845	2,055
Nebraska	6,724	6,532	7,243
Nevada	1,556	1,442	1,602
New Hampshire	805	868	873
New Jersey	4,189	4,745	6,059
New Mexico	1,437	1,448	1,541
New York	7,463	7,872	7,743
North Carolina	9,199	10,057	10,502
North Dakota	2,663	2,274	2,755
Ohio	24,828	27,209	29,701
Oklahoma	16,434	15,496	17,802
Oregon	5,100	4,997	5,724
Pennsylvania	19,232	20,513	21,106
Rhode Island	760	799	730
South Carolina	7,538	7,284	7,901
South Dakota	3,786	3,933	4,117
Tennessee	10,157	11,179	12,206
Texas	137,788	131,487	142,240
Utah	3,376	3,600	3,571
Vermont	204	204	220
Virginia	7,453	7,109	8,624
Washington	6,605	6,795	7,964
West Virginia	2,548	2,588	2,670
Wisconsin	12,944	14,219	15,969
Wyoming	4,405	4,263	4,539
<b>Total</b>	<b>662,058</b>	<b>662,069</b>	<b>720,427</b>

<sup>a</sup> Small volumes of natural gas representing onsystem sales to industrial consumers in Idaho are included in the annual total but not in monthly components.

<sup>R</sup> Revised data.

<sup>NA</sup> Not available.

**Notes:** Geographic coverage is the 50 states and the District of Columbia. See Appendix A, Explanatory Note 6, for discussion of computations and revision policy.

**Source:** Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 17. Natural gas deliveries to electric power<sup>a</sup> consumers, by state, 2016-2018

(million cubic feet)

State	2018	2017	2016	2018		2017
	2-Month YTD	2-Month YTD	2-Month YTD	February	January	Total December
Alabama	58,184	48,881	63,165	24,476	33,707	387,460
Alaska	4,657	3,801	3,890	2,066	2,591	27,141
Arizona	23,755	14,919	27,821	11,987	11,768	222,843
Arkansas	23,214	12,291	14,562	10,968	12,246	133,042
California	87,035	88,666	107,557	41,441	45,594	597,171
Colorado	20,348	13,965	14,089	9,999	10,349	98,427
Connecticut	17,902	18,295	20,205	8,596	9,306	107,213
Delaware	5,098	5,442	4,585	2,696	2,402	45,793
District of Columbia	--	--	--	--	--	*
Florida	172,274	150,467	166,229	81,758	90,516	1,196,155
Georgia	61,214	56,103	54,235	27,457	33,757	377,452
Hawaii	--	--	--	--	--	--
Idaho	2,374	2,815	5,285	1,054	1,320	20,214
Illinois	14,342	14,740	17,167	3,572	10,770	116,882
Indiana	31,031	23,762	25,203	13,586	17,444	151,820
Iowa	5,396	2,534	3,124	2,468	2,928	27,706
Kansas	2,912	1,496	1,177	1,255	1,657	23,257
Kentucky	21,248	9,399	9,225	6,888	14,360	84,878
Louisiana	43,618	30,817	52,701	18,739	24,878	272,156
Maine	W	W	4,348	466	W	W
Maryland	8,981	4,668	3,587	4,920	4,061	51,303
Massachusetts	23,724	24,022	19,451	11,349	12,374	163,128
Michigan	37,931	28,737	33,277	16,697	21,235	216,285
Minnesota	9,107	7,815	10,616	4,124	4,983	58,713
Mississippi	63,300	44,423	60,491	26,438	36,863	346,990
Missouri	8,409	5,561	4,926	3,521	4,888	44,834
Montana	667	692	1,214	306	360	5,118
Nebraska	443	416	188	177	266	5,531
Nevada	27,769	29,348	32,564	13,052	14,717	196,646
New Hampshire	1,139	1,997	3,341	223	916	25,975
New Jersey	38,010	37,892	44,789	20,085	17,925	278,263
New Mexico	11,058	11,235	12,646	5,755	5,303	75,644
New York	53,161	57,531	64,366	24,079	29,082	400,403
North Carolina	47,377	43,944	48,133	22,495	24,882	285,843
North Dakota	1,460	1,486	1,455	613	846	10,100
Ohio	46,895	29,057	38,980	20,483	26,412	205,619
Oklahoma	35,742	24,938	37,574	17,916	17,827	235,574
Oregon	14,692	16,385	19,669	5,985	8,707	88,673
Pennsylvania	73,928	63,799	68,668	37,073	36,855	440,807
Rhode Island	5,412	5,524	4,972	2,553	2,859	W
South Carolina	19,057	16,789	17,530	7,046	12,011	135,107
South Dakota	827	760	1,025	328	499	W
Tennessee	14,248	10,250	12,680	4,899	9,349	77,410
Texas	229,309	160,737	227,512	103,833	125,476	1,383,503
Utah	7,021	7,566	8,885	3,266	3,756	40,900
Vermont	1	2	*	1	--	12
Virginia	58,282	45,184	45,871	28,926	29,356	327,126
Washington	10,423	11,849	17,113	4,389	6,034	77,234
West Virginia	W	W	434	W	W	11,295
Wisconsin	19,551	12,096	20,559	9,690	9,861	104,470
Wyoming	W	125	W	143	W	1,268
<b>Total</b>	<b>1,464,928</b>	<b>1,206,102</b>	<b>1,457,297</b>	<b>670,032</b>	<b>794,896</b>	<b>9,250,066</b>
						<b>768,229</b>

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power<sup>a</sup> consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017						
	November	October	September	August	July	June	May
Alabama	30,663	31,968	35,935	41,891	43,183	33,599	30,994
Alaska	2,287	2,739	2,590	3,148	3,075	1,798	1,398
Arizona	12,775	21,580	24,782	31,174	34,001	27,480	19,077
Arkansas	6,552	10,535	10,781	14,121	16,802	13,498	13,100
California	48,013	58,492	62,609	78,072	67,121	49,346	35,394
Colorado	6,641	6,431	9,209	11,276	12,634	8,919	7,299
Connecticut	10,253	9,317	8,206	10,854	10,807	7,911	6,513
Delaware	2,381	3,671	3,758	5,123	5,481	5,034	4,977
District of Columbia	--	--	--	--	--	--	--
Florida	83,018	106,714	112,489	128,071	125,089	109,736	110,008
Georgia	26,920	29,911	33,691	41,187	39,860	34,495	30,628
Hawaii	--	--	--	--	--	--	--
Idaho	1,608	2,046	2,004	2,466	2,481	1,336	1,018
Illinois	7,543	8,982	11,325	12,376	15,559	12,488	8,386
Indiana	12,651	12,159	13,843	13,840	15,322	11,947	7,722
Iowa	2,098	2,623	3,197	3,935	3,785	1,969	1,450
Kansas	1,563	2,518	2,034	2,852	4,037	2,604	1,598
Kentucky	7,550	5,319	6,666	8,501	10,869	7,897	6,451
Louisiana	15,618	26,045	25,718	29,240	30,216	26,532	23,915
Maine	W	W	W	W	W	W	W
Maryland	5,218	3,262	5,952	4,900	5,951	4,624	3,267
Massachusetts	9,884	12,070	13,431	17,504	17,273	15,120	13,217
Michigan	16,756	19,250	18,700	21,353	23,797	17,749	15,867
Minnesota	4,496	5,591	5,964	7,274	8,038	3,957	3,115
Mississippi	24,528	25,870	29,682	36,360	39,236	30,537	30,306
Missouri	3,547	W	4,698	4,582	5,821	4,260	2,943
Montana	340	434	532	727	634	315	319
Nebraska	282	319	588	769	1,513	450	342
Nevada	14,037	16,823	17,643	22,428	22,970	19,267	14,582
New Hampshire	1,850	1,668	3,324	3,468	2,923	2,505	1,776
New Jersey	18,584	21,751	23,629	26,502	31,311	26,603	22,211
New Mexico	4,903	5,982	6,601	7,717	9,181	8,075	6,116
New York	27,835	30,115	36,648	44,450	47,146	37,934	28,322
North Carolina	22,687	22,530	24,699	27,503	28,212	24,265	21,983
North Dakota	821	899	973	1,111	1,126	761	628
Ohio	20,491	15,269	17,640	20,914	21,142	17,010	14,752
Oklahoma	14,548	18,031	21,568	29,133	34,774	24,995	18,664
Oregon	8,347	10,577	9,407	11,698	9,828	3,116	2,020
Pennsylvania	32,340	45,997	44,848	46,837	49,613	38,393	27,745
Rhode Island	3,304	W	3,926	4,249	4,480	3,817	3,286
South Carolina	10,191	12,271	12,622	13,429	14,172	11,987	12,820
South Dakota	427	543	707	865	1,071	W	352
Tennessee	5,416	6,291	6,626	7,456	8,614	7,142	3,618
Texas	88,443	110,054	125,868	166,502	176,441	142,427	111,299
Utah	1,982	2,017	3,581	6,207	5,218	3,670	2,516
Vermont	1	*	1	1	*	1	2
Virginia	26,263	21,680	31,012	35,320	37,392	33,514	23,226
Washington	6,714	8,284	7,571	10,262	8,374	3,605	3,452
West Virginia	915	2,067	2,064	1,470	1,544	1,047	496
Wisconsin	8,004	10,295	10,809	12,373	13,683	8,059	5,542
Wyoming	90	55	116	219	292	85	W
<b>Total</b>	<b>662,814</b>	<b>779,799</b>	<b>862,068</b>	<b>1,033,682</b>	<b>1,074,275</b>	<b>854,087</b>	<b>706,151</b>

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power<sup>a</sup> consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017				Total	2016	
	April	March	February	January		December	November
Alabama	29,790	30,529	23,174	25,708	415,162	30,859	30,500
Alaska	1,510	1,916	1,470	2,331	22,236	1,753	1,763
Arizona	14,165	7,307	5,396	9,522	255,593	9,577	12,145
Arkansas	11,525	11,030	7,424	4,866	136,368	7,172	10,868
California	27,417	31,506	37,508	51,157	671,152	52,512	51,615
Colorado	7,343	5,826	5,680	8,285	95,419	7,245	5,669
Connecticut	7,058	7,920	8,140	10,154	122,240	9,470	9,797
Delaware	3,096	4,208	2,807	2,635	53,926	2,262	3,572
District of Columbia	--	--	--	--	--	--	--
Florida	93,552	90,505	72,938	77,530	1,180,649	76,560	76,861
Georgia	24,262	27,563	27,669	28,434	379,202	25,859	23,972
Hawaii	--	--	--	--	--	--	--
Idaho	1,049	1,324	1,077	1,738	23,971	1,766	834
Illinois	6,401	10,068	7,394	7,345	146,175	8,363	8,308
Indiana	9,715	14,366	11,093	12,669	158,414	13,562	13,587
Iowa	1,609	1,256	952	1,583	20,233	713	575
Kansas	1,520	1,451	621	874	20,324	931	1,262
Kentucky	6,616	7,421	4,293	5,106	66,907	5,420	4,211
Louisiana	20,939	21,216	15,835	14,982	330,642	18,790	19,777
Maine	W	W	W	1,402	22,408	815	1,122
Maryland	3,780	4,637	2,708	1,960	49,059	822	570
Massachusetts	13,630	13,567	11,524	12,498	160,044	10,717	8,180
Michigan	13,869	19,052	12,299	16,439	243,612	15,356	16,947
Minnesota	2,990	3,813	2,922	4,893	65,606	2,906	3,268
Mississippi	25,274	29,604	18,842	25,581	367,456	27,475	21,372
Missouri	2,696	3,538	2,583	2,978	51,135	3,601	2,189
Montana	333	343	288	404	7,306	W	W
Nebraska	210	358	143	273	6,358	196	674
Nevada	11,945	12,837	13,168	16,181	209,610	15,951	15,667
New Hampshire	3,572	1,464	893	1,104	33,841	2,200	3,078
New Jersey	20,150	26,548	17,255	20,637	327,628	21,684	19,960
New Mexico	4,531	5,096	5,004	6,231	82,929	6,174	5,270
New York	25,663	33,506	26,606	30,926	477,867	33,326	28,853
North Carolina	18,297	24,879	21,931	22,013	293,669	21,708	23,813
North Dakota	628	675	624	862	9,347	W	607
Ohio	11,832	15,964	13,968	15,089	211,732	15,615	15,568
Oklahoma	16,848	12,971	10,845	14,093	274,388	16,442	20,889
Oregon	2,330	3,256	5,735	10,649	107,069	12,339	7,788
Pennsylvania	25,534	32,555	30,334	33,465	500,656	38,553	38,967
Rhode Island	3,093	2,987	2,638	2,887	46,974	2,844	2,903
South Carolina	11,209	9,993	8,927	7,863	133,130	7,370	13,620
South Dakota	W	452	270	490	7,574	272	512
Tennessee	6,468	8,876	5,105	5,144	87,680	7,931	3,688
Texas	97,943	93,567	75,007	85,730	1,538,663	90,872	96,452
Utah	2,195	2,210	2,677	4,889	58,008	4,215	3,313
Vermont	*	2	1	2	14	2	2
Virginia	19,393	26,434	22,401	22,783	292,826	20,812	20,785
Washington	4,295	4,373	4,100	7,748	85,403	7,455	4,674
West Virginia	W	W	W	W	10,311	164	386
Wisconsin	5,611	7,853	5,223	6,873	120,764	6,991	6,628
Wyoming	55	W	27	97	1,844	W	W
<b>Total</b>	<b>623,889</b>	<b>678,970</b>	<b>558,740</b>	<b>647,362</b>	<b>9,983,526</b>	<b>668,757</b>	<b>663,538</b>

See footnotes at end of table.

**Table 17. Natural gas deliveries to electric power<sup>a</sup> consumers, by state, 2016-2018**  
(million cubic feet) – continued

State	2016						
	October	September	August	July	June	May	April
Alabama	31,962	40,587	43,505	44,566	39,282	33,335	26,636
Alaska	1,732	1,952	2,200	2,044	1,756	1,755	1,645
Arizona	20,806	28,593	36,059	36,512	31,063	20,260	18,623
Arkansas	9,109	9,207	16,405	16,341	17,250	12,184	10,509
California	62,951	64,501	79,709	73,374	63,255	40,618	37,567
Colorado	5,848	6,793	10,126	11,675	10,289	7,741	8,614
Connecticut	9,514	9,817	12,137	11,476	9,275	10,263	11,348
Delaware	5,346	5,237	7,089	7,425	6,001	3,953	4,602
District of Columbia	--	--	--	--	--	--	--
Florida	96,936	108,803	120,587	122,353	114,263	106,961	100,187
Georgia	26,061	31,785	41,363	43,098	39,628	33,268	30,528
Hawaii	--	--	--	--	--	--	--
Idaho	1,366	2,671	3,698	2,549	2,006	1,407	628
Illinois	11,710	12,872	20,063	23,039	13,253	9,676	9,615
Indiana	11,299	11,936	16,077	15,793	13,958	13,693	9,428
Iowa	942	1,249	3,628	3,162	2,131	2,456	801
Kansas	1,356	2,735	2,847	3,163	3,117	1,685	1,104
Kentucky	4,730	5,454	7,597	8,026	6,732	4,992	4,493
Louisiana	22,889	28,503	31,968	38,721	33,611	30,795	25,600
Maine	1,770	1,834	3,562	3,252	1,770	1,920	1,409
Maryland	3,308	5,414	10,307	9,671	3,730	3,879	3,569
Massachusetts	9,495	14,211	21,417	21,351	17,569	15,482	11,546
Michigan	16,857	17,992	31,130	26,034	21,500	22,478	23,125
Minnesota	3,282	3,332	10,302	8,556	6,111	6,207	5,853
Mississippi	27,273	36,326	37,854	39,659	36,139	31,831	22,528
Missouri	3,153	4,845	6,815	7,273	6,992	4,019	4,780
Montana	W	618	1,051	885	670	W	W
Nebraska	469	291	1,119	1,100	1,389	318	463
Nevada	15,257	17,112	21,887	22,567	21,319	17,106	14,939
New Hampshire	2,362	3,909	4,582	4,147	2,854	3,009	3,609
New Jersey	27,481	30,078	41,217	39,592	30,423	24,014	23,970
New Mexico	7,211	7,250	8,608	9,227	7,704	6,387	6,358
New York	32,503	45,082	64,329	59,588	44,619	39,743	33,273
North Carolina	18,622	24,204	30,092	29,132	23,889	21,936	23,986
North Dakota	691	828	1,315	1,155	898	688	W
Ohio	14,289	18,191	23,086	22,704	17,398	11,353	16,437
Oklahoma	18,559	25,575	29,527	33,632	31,430	22,843	20,250
Oregon	7,767	13,139	14,263	10,464	7,950	3,346	3,089
Pennsylvania	39,512	47,277	57,598	57,177	47,121	35,691	33,444
Rhode Island	2,968	4,439	5,686	5,963	4,761	5,004	2,937
South Carolina	10,992	13,848	14,771	15,788	12,229	10,143	6,915
South Dakota	473	556	1,139	1,031	745	605	687
Tennessee	6,423	8,879	10,415	10,109	9,257	6,235	5,147
Texas	111,658	144,557	174,935	171,002	151,685	132,544	117,577
Utah	4,019	4,423	6,023	6,322	6,069	5,071	5,259
Vermont	2	3	3	1	--	2	*
Virginia	18,007	27,967	38,099	36,703	29,100	21,704	13,489
Washington	5,017	10,717	12,266	9,735	6,145	5,028	2,787
West Virginia	1,662	1,150	686	680	1,309	1,666	1,100
Wisconsin	5,218	8,027	15,103	14,065	11,524	9,688	9,693
Wyoming	W	W	W	W	W	W	W
<b>Total</b>	<b>741,360</b>	<b>914,908</b>	<b>1,154,593</b>	<b>1,142,161</b>	<b>971,342</b>	<b>805,702</b>	<b>721,262</b>

See footnotes at end of table.

**Table 17. Natural gas deliveries to electric power<sup>a</sup> consumers, by state, 2016-2018**  
(million cubic feet) – continued

State	2016		
	March	February	January
Alabama	30,764	29,216	33,949
Alaska	1,745	1,810	2,080
Arizona	14,134	12,550	15,271
Arkansas	12,760	5,899	8,663
California	37,493	47,121	60,436
Colorado	7,331	6,294	7,795
Connecticut	8,938	9,698	10,507
Delaware	3,856	2,385	2,200
District of Columbia	--	--	--
Florida	90,908	79,470	86,759
Georgia	29,405	25,637	28,597
Hawaii	--	--	--
Idaho	1,760	2,412	2,873
Illinois	12,110	8,898	8,269
Indiana	13,879	11,811	13,392
Iowa	1,453	1,485	1,639
Kansas	947	510	667
Kentucky	6,026	3,711	5,514
Louisiana	27,286	24,777	27,924
Maine	607	1,896	2,451
Maryland	4,203	2,295	1,292
Massachusetts	10,627	9,811	9,641
Michigan	18,916	16,885	16,392
Minnesota	5,173	5,230	5,386
Mississippi	26,509	29,688	30,803
Missouri	2,543	2,547	2,379
Montana	553	578	636
Nebraska	150	101	87
Nevada	15,241	14,624	17,941
New Hampshire	749	1,145	2,196
New Jersey	24,419	21,012	23,777
New Mexico	6,092	5,806	6,840
New York	32,185	30,295	34,071
North Carolina	28,153	24,825	23,308
North Dakota	664	726	729
Ohio	18,110	19,207	19,773
Oklahoma	17,666	16,020	21,555
Oregon	7,255	9,330	10,340
Pennsylvania	36,647	33,433	35,235
Rhode Island	4,496	2,530	2,442
South Carolina	9,925	7,877	9,654
South Dakota	528	570	455
Tennessee	6,915	6,325	6,355
Texas	119,869	105,021	122,491
Utah	4,411	4,107	4,778
Vermont	1	--	*
Virginia	20,289	22,753	23,118
Washington	4,468	7,351	9,761
West Virginia	1,074	226	208
Wisconsin	13,267	10,324	10,235
Wyoming	W	W	W
<b>Total</b>	<b>742,605</b>	<b>686,335</b>	<b>770,962</b>

<sup>a</sup> The electric power sector comprises electricity-only (utilities and independent power producers) and combined-heat-and-power plants within the NAICS 22 sector, whose primary business is to sell electricity, or electricity and heat, to the public.

-- Not applicable.

\* Volume is less than 500 Mcf.

<sup>w</sup> Withheld.

**Notes:** Geographic coverage is the 50 states and the District of Columbia. See Appendix A, Explanatory Note 6, for discussion of computations and revision policy.

**Source:** Energy Information Administration (EIA): Form EIA-923, "Power Plant Operations Report."

Table 18. Natural gas deliveries to all consumers, by state, 2016-2018

(million cubic feet)

State	2018 2-Month YTD	2017 2-Month YTD	2016 2-Month YTD	2018		2017 Total	2017 December
				February	January		
Alabama	114,407	95,773	118,952	46,925	67,482	NA	58,801
Alaska	14,988	14,660	12,902	7,157	7,831	67,013	7,767
Arizona	NA	NA	54,440	NA	NA	NA	25,757
Arkansas	NA	47,932	53,756	29,987	NA	NA	33,125
California	374,154	NA	395,511	179,454	194,700	NA	208,394
Colorado	NA	85,495	87,002	NA	NA	354,980	48,013
Connecticut	55,600	53,255	55,361	24,368	31,232	234,480	28,658
Delaware	NA	17,677	17,264	NA	NA	NA	NA
District of Columbia	NA	NA	9,895	3,548	NA	NA	4,709
Florida	207,989	183,941	202,353	97,207	110,781	1,376,186	104,036
Georgia	146,681	125,151	146,805	56,876	89,805	691,692	77,804
Hawaii	NA	548	504	261	NA	NA	NA
Idaho	22,254	26,078	25,033	10,604	11,650	104,155	13,658
Illinois	290,734	243,334	279,622	126,182	164,552	NA	142,795
Indiana	NA	151,781	170,853	82,066	NA	719,620	94,851
Iowa	87,761	75,979	75,552	40,485	47,276	NA	44,082
Kansas	63,230	52,255	55,996	28,845	34,385	NA	30,758
Kentucky	75,895	53,780	63,398	29,177	46,718	274,828	35,797
Louisiana	NA	221,548	245,819	116,511	NA	NA	132,436
Maine	NA	9,086	10,897	NA	5,130	48,252	5,562
Maryland	NA	50,459	57,903	NA	34,737	NA	32,905
Massachusetts	117,991	101,272	98,016	54,792	63,199	NA	60,933
Michigan	NA	204,559	223,649	NA	134,287	860,810	127,093
Minnesota	126,353	109,278	117,584	59,747	66,606	NA	NA
Mississippi	102,255	75,841	95,244	41,869	60,386	513,388	50,095
Missouri	85,824	NA	73,574	36,922	48,902	NA	39,948
Montana	19,616	18,691	16,137	9,741	9,875	NA	NA
Nebraska	40,879	38,569	35,449	19,501	21,378	NA	19,265
Nevada	51,373	55,483	57,805	24,429	26,944	289,361	26,935
New Hampshire	NA	8,704	10,309	NA	5,183	51,780	5,541
New Jersey	NA	NA	176,205	NA	NA	NA	95,344
New Mexico	31,986	30,831	34,121	14,666	17,320	NA	17,284
New York	310,061	288,014	305,515	133,439	176,622	1,239,361	163,835
North Carolina	NA	93,727	115,922	45,925	NA	850,531	60,266
North Dakota	16,321	14,696	13,693	7,937	8,384	67,311	8,310
Ohio	NA	207,119	247,775	NA	147,882	NA	131,620
Oklahoma	114,127	87,771	103,009	54,297	59,830	525,176	55,398
Oregon	NA	53,397	49,524	NA	24,300	226,928	30,159
Pennsylvania	251,244	218,833	239,788	109,759	141,484	NA	NA
Rhode Island	17,354	NA	16,356	7,359	9,996	NA	9,665
South Carolina	52,846	45,217	52,093	20,319	32,527	275,781	27,144
South Dakota	18,148	16,218	16,443	8,752	9,396	74,373	8,645
Tennessee	NA	66,158	79,593	33,069	NA	NA	NA
Texas	NA	NA	615,619	295,758	NA	NA	310,877
Utah	45,262	48,261	49,856	20,736	24,525	186,841	27,707
Vermont	3,427	3,014	3,220	1,469	1,958	NA	1,769
Virginia	NA	101,861	114,164	56,225	NA	NA	61,296
Washington	64,819	72,803	67,442	31,206	33,614	307,783	39,378
West Virginia	23,375	19,333	21,940	9,816	13,560	NA	11,620
Wisconsin	131,994	109,189	124,206	61,775	70,219	478,202	67,249
Wyoming	17,248	18,042	16,208	8,700	8,547	80,513	9,111
<b>Total</b>	<b>5,560,225</b>	<b>4,844,113</b>	<b>5,330,277</b>	<b>2,470,582</b>	<b>3,089,643</b>	<b>24,794,665</b>	<b>2,844,276</b>

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017						
	November	October	September	August	July	June	May
Alabama	52,506	51,074	53,255	59,588	60,692	NA	NA
Alaska	7,029	5,741	4,404	4,536	4,323	3,322	3,604
Arizona	19,162	27,036	29,436	NA	38,509	32,326	24,939
Arkansas	20,932	22,938	21,259	24,685	26,863	23,835	NA
California	166,992	167,445	165,104	182,684	166,629	146,626	142,464
Colorado	32,428	25,842	19,674	21,167	22,124	18,920	23,273
Connecticut	22,801	15,281	13,515	16,095	16,130	13,361	13,320
Delaware	7,317	7,397	NA	8,342	8,401	8,222	8,357
District of Columbia	NA	1,377	1,101	1,101	1,117	1,167	1,489
Florida	98,470	121,318	125,132	141,603	138,440	122,986	124,410
Georgia	57,750	52,390	50,697	60,321	58,473	53,695	50,758
Hawaii	256	247	254	257	247	NA	248
Idaho	9,873	8,900	6,474	5,984	6,171	5,103	5,819
Illinois	98,648	61,044	NA	46,381	48,687	46,295	56,878
Indiana	67,454	51,264	47,600	46,244	47,254	43,115	44,553
Iowa	34,623	NA	23,401	24,655	24,299	22,695	24,427
Kansas	NA	16,669	15,300	16,869	18,503	15,723	14,520
Kentucky	26,737	18,548	17,237	18,836	20,659	18,275	18,194
Louisiana	116,609	123,408	118,395	125,616	123,888	NA	116,661
Maine	4,382	3,386	3,447	3,547	3,772	3,299	3,166
Maryland	22,577	10,704	12,067	10,573	NA	10,672	11,614
Massachusetts	38,471	NA	23,232	26,844	26,444	25,344	28,570
Michigan	87,509	56,068	43,515	44,349	44,954	40,900	51,325
Minnesota	45,601	30,578	23,965	25,587	25,452	22,729	25,936
Mississippi	39,687	38,795	41,878	48,646	50,829	42,197	43,015
Missouri	25,513	14,061	13,189	13,119	13,901	12,768	13,842
Montana	NA	NA	4,157	3,585	3,365	2,936	3,424
Nebraska	NA	11,331	8,943	9,208	10,877	8,795	10,338
Nevada	21,348	22,950	22,613	26,937	27,563	24,317	20,316
New Hampshire	4,498	3,002	4,357	4,502	3,885	3,554	3,263
New Jersey	NA	NA	NA	NA	NA	NA	44,256
New Mexico	NA	10,765	9,886	10,988	12,406	11,317	10,145
New York	111,484	69,647	68,686	75,966	78,303	72,434	73,343
North Carolina	46,578	37,911	36,667	39,579	39,734	R35,774	34,760
North Dakota	6,504	5,191	3,524	4,208	4,170	4,104	4,401
Ohio	NA	57,780	49,268	50,540	49,669	46,086	53,029
Oklahoma	39,305	38,845	40,950	48,295	53,150	43,956	39,237
Oregon	21,696	20,853	16,184	17,674	15,795	10,117	10,662
Pennsylvania	NA	79,738	71,133	72,293	74,587	64,824	61,737
Rhode Island	7,320	5,147	5,263	5,613	5,828	5,266	5,334
South Carolina	24,240	23,033	21,597	22,719	23,180	20,984	22,483
South Dakota	6,834	5,428	4,849	4,990	5,135	4,599	4,956
Tennessee	28,885	22,084	20,751	21,515	22,215	21,169	19,030
Texas	261,617	NA	273,691	323,614	336,998	299,488	264,397
Utah	16,519	12,154	9,842	11,752	11,179	10,677	10,532
Vermont	1,272	685	594	566	538	NA	686
Virginia	48,813	35,956	43,344	47,280	NA	45,788	37,078
Washington	30,338	26,254	18,786	20,255	18,317	14,223	17,025
West Virginia	8,889	7,348	6,383	5,602	NA	5,109	5,117
Wisconsin	48,051	33,742	26,901	28,841	29,022	23,782	26,926
Wyoming	7,193	6,277	4,855	4,791	4,720	4,834	6,025
<b>Total</b>	<b>2,147,659</b>	<b>1,840,980</b>	<b>1,739,719</b>	<b>1,915,253</b>	<b>1,942,329</b>	<b>R1,730,803</b>	<b>1,714,119</b>

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017				2016		
	April	March	February	January	Total	December	November
Alabama	NA	53,579	44,151	51,622	659,864	56,079	50,106
Alaska	4,531	7,097	6,307	8,353	60,255	7,466	6,557
Arizona	20,872	15,945	NA	22,493	343,766	20,335	18,967
Arkansas	22,867	25,871	22,739	25,194	297,218	27,869	24,318
California	135,893	156,177	171,674	NA	2,113,847	216,061	175,988
Colorado	27,332	30,713	34,554	50,942	352,463	47,904	29,596
Connecticut	16,382	25,681	24,124	29,131	242,831	27,063	21,291
Delaware	NA	9,921	8,345	9,333	107,383	8,615	8,198
District of Columbia	1,648	3,403	NA	4,180	27,891	4,219	2,591
Florida	108,602	107,249	88,402	95,538	1,362,542	93,316	91,852
Georgia	44,810	59,842	57,662	67,488	700,464	66,586	51,471
Hawaii	255	272	258	291	3,038	263	253
Idaho	7,201	8,894	10,597	15,481	101,365	14,737	8,337
Illinois	62,887	111,360	101,855	141,480	1,000,348	147,523	80,751
Indiana	50,884	74,620	66,391	85,390	728,625	90,269	59,594
Iowa	27,031	35,338	33,705	42,274	320,541	41,930	27,815
Kansas	17,124	21,873	21,148	31,107	233,168	31,567	18,581
Kentucky	19,361	27,404	23,580	30,200	261,248	31,751	21,106
Louisiana	112,747	117,022	103,719	117,830	1,439,894	120,887	112,241
Maine	3,646	4,958	4,184	4,903	52,516	4,106	3,524
Maryland	12,413	26,968	22,813	27,647	211,245	26,172	15,446
Massachusetts	34,456	56,394	47,181	54,092	423,559	50,684	33,424
Michigan	57,647	102,892	89,204	115,355	868,762	112,282	72,216
Minnesota	32,607	47,889	47,263	62,015	438,623	55,334	34,918
Mississippi	37,657	44,748	33,133	42,708	521,948	44,364	34,269
Missouri	15,342	26,352	NA	39,721	259,072	39,807	19,650
Montana	4,946	6,724	7,975	10,716	68,928	10,259	6,877
Nebraska	11,685	15,371	16,427	22,143	157,458	20,406	13,699
Nevada	18,896	22,004	24,437	31,046	299,327	28,659	22,816
New Hampshire	5,436	5,036	3,984	4,720	57,735	5,711	5,401
New Jersey	NA	NA	71,119	NA	757,432	87,154	54,909
New Mexico	NA	NA	12,992	17,839	156,749	17,587	13,080
New York	85,269	152,379	132,312	155,701	1,270,049	147,632	100,958
North Carolina	31,829	48,705	42,738	50,989	519,746	51,738	44,370
North Dakota	5,253	6,950	6,355	8,342	62,448	7,651	5,517
Ohio	56,542	100,433	91,264	115,855	895,943	113,525	77,125
Oklahoma	39,193	39,076	37,125	50,646	556,210	52,904	43,200
Oregon	13,409	16,983	21,399	31,998	231,110	31,907	19,075
Pennsylvania	66,017	108,882	100,094	118,738	1,071,713	121,309	92,222
Rhode Island	5,899	8,867	NA	8,643	83,489	8,493	6,360
South Carolina	21,177	24,007	21,375	23,842	272,617	23,557	26,519
South Dakota	5,557	7,161	7,037	9,182	74,246	8,862	6,331
Tennessee	22,130	33,315	29,499	36,659	319,637	40,553	23,357
Texas	250,744	264,541	NA	NA	3,532,732	294,558	258,950
Utah	13,669	14,549	18,282	29,979	199,918	27,878	17,127
Vermont	864	1,582	1,400	1,614	11,958	1,619	1,102
Virginia	34,815	53,637	47,270	54,592	526,260	50,171	42,276
Washington	22,302	28,102	30,727	42,077	293,106	40,128	24,061
West Virginia	5,710	9,848	8,678	10,655	88,541	10,795	8,018
Wisconsin	31,943	52,556	46,915	62,274	478,287	61,843	36,772
Wyoming	6,602	8,063	8,213	9,829	80,100	9,960	7,406
<b>Total</b>	<b>31,746,520</b>	<b>32,328,895</b>	<b>2,149,127</b>	<b>2,694,986</b>	<b>25,198,216</b>	<b>2,662,045</b>	<b>1,980,591</b>

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2016-2018

(million cubic feet) – continued

State	2016						
	October	September	August	July	June	May	April
Alabama	49,477	56,717	60,097	61,223	56,711	52,466	45,820
Alaska	5,385	4,086	3,634	3,397	3,318	3,707	4,272
Arizona	26,109	33,318	40,454	40,918	36,039	25,987	25,288
Arkansas	19,922	19,220	26,592	25,943	27,055	22,974	22,241
California	167,994	171,608	190,464	176,767	164,703	146,670	146,030
Colorado	20,877	17,022	19,637	21,025	20,069	23,564	30,297
Connecticut	16,412	14,910	17,231	16,640	14,296	17,097	21,086
Delaware	9,230	8,656	10,382	10,798	9,073	7,722	8,758
District of Columbia	1,311	951	987	1,004	987	1,436	2,062
Florida	110,955	122,262	134,016	136,065	127,256	121,405	115,695
Georgia	46,219	49,316	59,116	60,764	57,406	53,131	52,724
Hawaii	250	264	264	255	240	243	255
Idaho	7,219	6,844	7,173	6,278	5,404	5,639	5,449
Illinois	59,444	47,516	53,068	56,449	46,522	54,991	76,181
Indiana	44,567	44,086	48,757	48,937	47,406	52,920	55,396
Iowa	22,290	18,821	21,521	20,446	19,032	21,153	22,988
Kansas	13,995	13,778	17,564	16,813	15,453	14,954	15,157
Kentucky	16,727	15,610	18,069	17,993	16,802	17,186	18,381
Louisiana	111,923	116,158	122,571	130,304	121,899	122,334	115,393
Maine	4,123	3,772	5,474	5,155	3,556	4,097	4,055
Maryland	11,439	11,084	15,857	15,277	9,845	12,600	15,787
Massachusetts	25,667	23,643	30,399	30,268	27,109	30,052	34,643
Michigan	53,267	42,195	52,719	47,255	43,617	55,140	79,401
Minnesota	26,250	19,762	27,732	25,744	23,855	27,544	36,363
Mississippi	37,327	46,568	48,956	50,799	47,881	43,617	34,142
Missouri	13,076	12,986	14,852	15,409	15,335	14,512	17,901
Montana	5,219	4,018	3,839	3,677	3,459	4,293	4,668
Nebraska	10,834	9,596	11,886	11,227	10,473	9,747	11,195
Nevada	20,953	21,948	26,364	27,104	26,140	22,855	21,465
New Hampshire	3,615	4,922	5,502	5,074	3,840	4,370	5,664
New Jersey	49,529	47,327	59,140	59,150	50,093	48,141	58,178
New Mexico	11,297	10,601	11,661	12,343	11,140	10,494	11,343
New York	77,791	74,952	95,705	90,784	77,589	83,696	100,124
North Carolina	32,338	35,796	42,312	40,518	35,373	34,923	39,678
North Dakota	5,295	4,250	3,827	3,814	4,143	4,280	4,387
Ohio	54,685	47,207	51,768	50,330	46,157	49,937	72,611
Oklahoma	37,161	42,369	48,021	52,062	50,070	44,029	41,202
Oregon	17,431	19,812	19,938	16,584	14,427	10,822	11,770
Pennsylvania	74,212	71,216	82,461	80,626	71,845	67,633	78,716
Rhode Island	5,149	5,783	6,759	7,019	5,980	6,997	6,148
South Carolina	20,473	22,499	23,460	24,144	20,996	19,709	17,574
South Dakota	5,148	4,679	5,307	4,926	4,662	5,090	6,126
Tennessee	20,398	21,314	22,945	22,377	21,877	19,801	20,680
Texas	266,363	297,157	333,865	329,608	298,713	279,368	269,369
Utah	12,130	10,587	11,190	12,134	11,679	13,191	16,101
Vermont	831	596	575	584	574	663	1,073
Virginia	31,820	39,908	49,682	48,244	41,500	35,003	31,258
Washington	21,575	22,240	22,238	19,933	16,680	16,849	16,393
West Virginia	6,918	5,233	4,606	4,819	5,088	5,714	6,843
Wisconsin	26,975	23,408	30,261	28,528	26,992	29,433	39,987
Wyoming	6,322	5,063	5,380	5,217	4,942	5,943	6,294
<b>Total</b>	<b>1,745,916</b>	<b>1,773,634</b>	<b>2,026,278</b>	<b>2,002,753</b>	<b>1,825,301</b>	<b>1,786,119</b>	<b>1,904,613</b>

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2016-2018

(million cubic feet) – continued

State	2016		
	March	February	January
Alabama	52,215	54,519	64,432
Alaska	5,533	5,874	7,028
Arizona	21,911	23,758	30,682
Arkansas	27,328	24,129	29,627
California	162,050	172,679	222,833
Colorado	35,470	38,549	48,452
Connecticut	21,446	26,676	28,685
Delaware	8,687	8,309	8,956
District of Columbia	2,448	4,765	5,130
Florida	107,367	96,619	105,734
Georgia	56,927	67,283	79,521
Hawaii	247	246	258
Idaho	9,255	11,151	13,882
Illinois	98,281	128,157	151,465
Indiana	65,839	78,712	92,141
Iowa	28,993	34,695	40,857
Kansas	19,308	24,444	31,552
Kentucky	24,224	28,577	34,820
Louisiana	120,365	115,837	129,982
Maine	3,757	4,996	5,901
Maryland	19,835	27,049	30,854
Massachusetts	39,653	47,203	50,813
Michigan	87,022	107,058	116,592
Minnesota	43,536	54,422	63,162
Mississippi	38,781	45,319	49,925
Missouri	21,970	32,646	40,928
Montana	6,481	7,104	9,033
Nebraska	12,944	15,949	19,501
Nevada	23,218	25,222	32,583
New Hampshire	3,328	4,402	5,907
New Jersey	67,606	80,721	95,484
New Mexico	13,081	15,046	19,076
New York	115,304	143,887	161,628
North Carolina	46,778	55,721	60,201
North Dakota	5,592	6,138	7,555
Ohio	84,823	114,118	133,657
Oklahoma	42,183	44,208	58,800
Oregon	19,818	22,413	27,111
Pennsylvania	91,685	112,651	127,137
Rhode Island	8,445	7,874	8,482
South Carolina	21,594	23,832	28,260
South Dakota	6,670	7,664	8,779
Tennessee	26,742	36,148	43,445
Texas	289,161	285,648	329,971
Utah	18,045	22,124	27,733
Vermont	1,122	1,490	1,730
Virginia	42,234	53,646	60,518
Washington	25,567	29,322	38,121
West Virginia	8,568	10,036	11,903
Wisconsin	49,884	57,711	66,495
Wyoming	7,366	7,543	8,665
<b>Total</b>	<b>2,160,690</b>	<b>2,454,291</b>	<b>2,875,986</b>

<sup>a</sup> Small volumes of natural gas representing onsystem sales to industrial consumers in Idaho are included in the annual total but not in monthly components.

<sup>R</sup> Revised data.

<sup>NA</sup> Not available.

**Notes:** Geographic coverage is the 50 states and the District of Columbia. See Appendix A, Explanatory Note 6, for discussion of computations and revision policy.

**Source:** Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 19. Average citygate price, by state, 2016-2018**  
(dollars per thousand cubic feet)

State	2018 2-Month YTD	2017 2-Month YTD	2016 2-Month YTD	2018		2017	
				February	January	Total	December
Alabama	NA	4.17	3.20	NA	4.98	3.88	3.87
Alaska	8.24	NA	6.90	8.25	8.24	NA	6.94
Arizona	4.38	4.50	4.00	4.25	4.49	4.36	4.36
Arkansas	3.91	4.25	3.57	3.99	3.84	4.70	3.79
California	3.01	3.76	2.69	3.12	2.91	3.45	3.66
Colorado	3.39	3.92	3.15	3.40	3.38	3.90	3.44
Connecticut	4.91	4.45	3.36	5.04	4.82	NA	NA
Delaware	4.92	4.46	3.82	4.52	5.18	NA	4.46
District of Columbia	--	--	--	--	--	--	--
Florida	5.87	6.10	3.90	6.52	5.71	5.78	5.60
Georgia	3.98	4.57	3.31	4.56	3.65	4.16	3.91
Hawaii	18.55	15.75	10.73	18.34	18.74	16.62	17.11
Idaho	2.76	3.16	3.32	2.85	2.67	2.90	2.72
Illinois	3.67	3.80	2.98	3.35	3.91	NA	3.59
Indiana	3.89	3.84	3.28	3.79	3.97	3.85	3.55
Iowa	4.09	4.47	3.59	4.14	4.06	NA	4.96
Kansas	3.71	4.21	3.25	3.72	3.71	4.49	3.83
Kentucky	3.89	NA	3.25	4.08	3.77	NA	3.73
Louisiana	4.24	4.11	3.50	4.30	4.20	4.00	4.06
Maine	9.77	7.46	8.25	8.95	10.35	6.42	7.55
Maryland	4.56	4.53	3.40	4.55	4.57	4.75	4.20
Massachusetts	NA	4.60	4.11	NA	9.32	5.28	5.24
Michigan	3.51	3.78	3.82	3.69	3.38	3.57	3.56
Minnesota	3.82	4.27	3.53	3.92	3.74	4.28	5.71
Mississippi	4.26	4.66	3.52	4.50	4.10	NA	NA
Missouri	3.79	4.29	3.37	3.90	3.72	4.63	3.73
Montana	3.34	3.30	3.32	3.29	3.39	3.22	3.20
Nebraska	3.99	4.46	3.72	3.96	4.01	NA	4.74
Nevada	3.70	4.42	3.45	3.63	3.76	4.13	3.47
New Hampshire	9.13	NA	7.02	7.91	9.96	NA	6.87
New Jersey	4.45	4.51	3.89	4.55	4.37	NA	4.08
New Mexico	3.23	3.89	2.75	3.32	3.17	NA	3.15
New York	4.69	3.75	2.75	3.41	5.75	4.30	3.93
North Carolina	3.38	3.81	2.93	3.21	3.46	NA	NA
North Dakota	4.19	4.56	3.79	4.15	4.24	4.28	4.36
Ohio	NA	4.18	3.58	NA	3.65	NA	NA
Oklahoma	3.65	4.38	3.65	3.69	3.62	NA	3.96
Oregon	3.54	3.65	3.81	3.47	3.61	3.90	3.44
Pennsylvania	3.98	4.12	3.10	4.19	3.85	NA	3.64
Rhode Island	2.28	2.14	2.23	2.32	2.25	2.22	2.22
South Carolina	4.05	NA	3.35	4.21	3.96	NA	3.81
South Dakota	4.03	4.36	3.58	4.17	3.91	4.39	5.60
Tennessee	4.11	4.21	3.18	4.18	4.08	4.09	3.88
Texas	5.42	5.23	3.82	5.42	5.42	4.81	4.94
Utah	6.05	5.60	5.80	6.35	5.77	5.30	5.76
Vermont	5.23	NA	5.74	5.15	5.29	NA	5.07
Virginia	NA	4.00	3.36	NA	4.45	4.54	3.98
Washington	3.23	NA	3.39	3.28	3.19	NA	3.21
West Virginia	3.56	3.65	3.24	3.89	3.35	NA	3.52
Wisconsin	4.19	4.43	3.72	4.36	4.04	4.22	3.90
Wyoming	3.94	4.25	3.68	4.01	3.86	3.92	3.83
<b>Total</b>	<b>4.14</b>	<b>4.18</b>	<b>3.43</b>	<b>3.97</b>	<b>4.27</b>	<b>4.16</b>	<b>4.00</b>

See footnotes at end of table.

**Table 19. Average citygate price, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2017						
	November	October	September	August	July	June	May
Alabama	3.79	3.77	3.63	3.90	4.02	3.96	3.92
Alaska	7.02	6.59	6.29	5.83	5.76	5.69	6.02
Arizona	5.06	3.87	3.93	4.01	4.14	4.14	3.75
Arkansas	4.56	5.40	6.30	6.67	6.72	6.85	5.73
California	3.24	2.95	3.09	3.22	3.47	3.55	3.38
Colorado	3.88	3.96	5.10	4.65	5.09	4.68	3.98
Connecticut	3.71	4.22	5.66	5.79	6.08	6.58	5.85
Delaware	5.19	8.31	10.40	NA	10.42	9.94	7.65
District of Columbia	--	--	--	--	--	--	--
Florida	R6.41	R6.32	R5.38	R5.09	5.68	5.32	4.98
Georgia	3.80	4.11	4.23	4.07	4.21	4.28	4.22
Hawaii	18.23	16.69	17.18	17.63	16.17	15.06	16.46
Idaho	2.90	2.24	2.27	2.41	2.47	3.29	3.04
Illinois	3.55	3.44	NA	NA	3.76	NA	3.48
Indiana	3.71	3.68	4.34	4.74	4.97	4.87	4.28
Iowa	3.90	3.71	3.69	3.87	4.08	4.34	NA
Kansas	4.26	5.08	6.26	5.72	5.37	6.24	5.86
Kentucky	3.84	3.66	3.70	3.41	3.59	3.73	NA
Louisiana	3.92	3.91	3.84	3.85	3.99	4.03	4.08
Maine	4.99	6.17	5.66	6.09	7.67	5.46	5.00
Maryland	4.27	5.37	6.72	6.85	6.87	7.29	6.23
Massachusetts	4.60	6.28	8.86	9.24	9.61	9.04	6.38
Michigan	3.47	3.35	3.10	3.09	3.10	3.35	3.43
Minnesota	3.93	3.46	4.14	4.33	4.46	4.49	3.80
Mississippi	4.55	NA	4.49	4.62	4.68	4.78	4.59
Missouri	4.11	5.05	7.09	7.68	7.26	7.15	5.86
Montana	3.22	2.47	2.35	3.41	2.90	3.30	3.61
Nebraska	NA	4.50	4.63	4.45	4.17	5.07	4.20
Nevada	4.18	3.73	4.01	4.39	4.50	4.52	4.13
New Hampshire	4.95	5.29	8.23	7.41	8.42	NA	5.50
New Jersey	3.93	3.60	NA	4.37	4.61	4.73	4.56
New Mexico	3.41	3.22	3.41	3.60	3.59	3.61	3.43
New York	4.17	5.11	6.96	7.11	7.39	7.18	6.00
North Carolina	3.54	4.41	5.09	5.41	5.83	5.87	5.28
North Dakota	4.17	4.23	4.38	4.03	3.92	4.35	3.99
Ohio	NA	NA	2.11	R2.11	NA	NA	NA
Oklahoma	4.51	4.84	5.79	5.95	NA	5.90	5.44
Oregon	3.76	3.75	4.69	5.97	5.71	5.29	4.56
Pennsylvania	NA	4.67	5.86	6.36	6.79	6.67	5.36
Rhode Island	2.20	2.21	2.29	2.34	2.37	2.41	2.36
South Carolina	3.88	3.93	4.14	3.99	4.11	4.23	4.27
South Dakota	4.11	3.80	4.42	4.36	4.40	4.60	3.77
Tennessee	3.98	4.00	4.20	4.17	4.47	4.28	4.18
Texas	5.32	5.13	4.47	4.09	4.19	4.28	4.59
Utah	5.78	4.95	3.85	3.70	3.69	4.90	4.79
Vermont	4.70	4.56	4.48	4.44	4.31	4.74	4.69
Virginia	R4.00	R4.99	6.26	7.41	7.24	6.71	5.68
Washington	3.32	NA	3.93	4.78	4.21	4.43	4.26
West Virginia	3.61	3.88	5.10	NA	NA	6.40	4.87
Wisconsin	4.25	3.87	4.59	4.55	4.82	5.26	4.24
Wyoming	4.01	3.82	3.45	3.82	3.98	3.79	3.24
<b>Total</b>	<b>3.98</b>	<b>4.06</b>	<b>R4.56</b>	<b>4.59</b>	<b>R4.70</b>	<b>R4.82</b>	<b>R4.42</b>

See footnotes at end of table.

**Table 19. Average citygate price, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2017				2016		
	April	March	February	January	Total	December	November
Alabama	3.65	3.59	4.23	4.13	3.44	3.78	3.85
Alaska	6.96	7.42	7.54	NA	6.79	7.29	6.82
Arizona	3.98	4.95	4.71	4.37	4.07	4.74	4.91
Arkansas	5.83	4.35	4.37	4.17	4.29	3.83	4.37
California	3.31	3.15	3.59	3.87	2.96	3.64	3.30
Colorado	3.66	3.65	3.91	3.92	3.56	3.61	3.88
Connecticut	4.97	3.53	4.45	4.45	3.57	3.90	3.31
Delaware	NA	4.26	4.62	4.34	4.91	4.28	4.17
District of Columbia	--	--	--	--	--	--	--
Florida	6.37	5.81	6.06	6.14	4.04	5.47	4.92
Georgia	4.29	3.72	4.43	4.69	3.67	4.08	4.04
Hawaii	16.05	17.38	16.20	15.34	13.81	14.75	12.93
Idaho	2.71	3.31	3.14	3.17	3.21	3.16	3.29
Illinois	4.15	4.06	3.56	3.95	3.38	3.63	3.38
Indiana	4.25	3.72	3.89	3.81	3.58	3.84	3.63
Iowa	NA	4.08	4.42	4.51	3.77	4.04	4.14
Kansas	4.81	3.99	4.18	4.24	4.02	3.75	4.43
Kentucky	4.46	NA	4.19	NA	3.35	3.77	3.53
Louisiana	3.94	3.96	4.37	3.91	3.65	4.18	4.23
Maine	5.30	5.54	7.58	7.36	6.41	6.33	6.25
Maryland	6.06	4.05	4.69	4.43	4.18	3.96	4.20
Massachusetts	5.46	4.06	4.53	4.66	4.49	4.61	4.16
Michigan	3.78	3.48	3.71	3.84	3.57	3.54	3.65
Minnesota	3.51	3.77	4.23	4.30	3.71	4.05	4.17
Mississippi	3.95	3.88	4.20	5.02	3.78	4.77	4.14
Missouri	5.15	4.07	4.45	4.21	4.22	3.96	4.31
Montana	3.47	3.54	3.56	3.14	3.05	2.87	3.17
Nebraska	4.02	3.87	4.71	4.30	3.75	3.67	3.99
Nevada	4.40	4.05	4.34	4.46	3.73	4.18	3.70
New Hampshire	4.64	4.37	NA	NA	5.30	5.32	4.60
New Jersey	4.26	4.32	4.48	4.52	3.93	4.14	3.94
New Mexico	3.31	NA	3.82	3.93	3.05	3.77	3.22
New York	4.23	3.27	3.64	3.85	3.57	3.85	3.42
North Carolina	4.91	3.36	3.72	3.87	3.44	3.72	3.33
North Dakota	4.11	3.88	4.53	4.58	3.88	4.10	4.64
Ohio	NA	NA	R4.25	R4.13	3.27	3.62	3.43
Oklahoma	4.64	4.22	4.26	4.46	3.98	4.04	4.00
Oregon	3.90	3.59	3.59	3.69	4.15	3.77	4.03
Pennsylvania	4.85	3.86	4.20	4.07	3.72	3.72	4.08
Rhode Island	2.30	2.20	2.18	2.12	2.12	1.99	1.96
South Carolina	4.45	3.96	4.40	NA	3.64	4.44	3.66
South Dakota	3.90	3.79	4.38	4.35	3.65	3.92	4.25
Tennessee	4.36	3.91	4.16	4.24	3.42	3.73	3.90
Texas	4.43	4.85	5.14	5.28	4.09	5.36	5.10
Utah	4.78	5.94	5.97	5.37	5.15	5.35	5.00
Vermont	5.26	4.98	5.69	NA	5.13	5.11	4.74
Virginia	R5.47	R4.03	R4.15	3.90	3.99	3.68	3.87
Washington	3.64	3.04	3.47	NA	3.66	3.58	4.14
West Virginia	4.26	3.32	3.68	3.63	3.46	3.30	3.45
Wisconsin	4.08	3.82	4.39	4.46	3.81	3.88	4.23
Wyoming	3.71	3.89	4.23	4.27	3.53	4.00	3.48
<b>Total</b>	<b>R4.19</b>	<b>3.84</b>	<b>4.13</b>	<b>4.21</b>	<b>3.71</b>	<b>3.96</b>	<b>3.90</b>

See footnotes at end of table.

**Table 19. Average citygate price, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2016						
	October	September	August	July	June	May	April
Alabama	4.20	3.89	3.89	3.89	3.34	2.99	2.90
Alaska	7.10	6.58	6.19	6.12	6.03	6.21	6.37
Arizona	4.09	3.92	3.86	4.05	3.31	2.77	3.03
Arkansas	6.02	5.69	6.22	6.68	6.16	4.79	4.60
California	3.51	3.56	3.29	3.34	2.52	2.49	2.25
Colorado	4.73	5.27	4.81	5.16	4.22	3.25	2.78
Connecticut	3.13	4.29	4.20	4.69	4.58	3.85	3.20
Delaware	6.15	8.20	8.50	8.77	8.53	6.24	5.03
District of Columbia	--	--	--	--	--	--	--
Florida	4.45	4.13	3.92	3.93	3.46	3.50	3.37
Georgia	4.26	4.30	4.01	4.32	3.44	3.37	3.19
Hawaii	15.07	14.06	13.33	13.54	17.26	16.20	14.19
Idaho	3.18	3.29	2.69	2.62	2.52	3.22	2.79
Illinois	4.25	5.19	4.66	4.25	3.72	3.10	3.39
Indiana	4.26	4.80	4.92	5.25	4.38	3.27	2.93
Iowa	4.18	4.47	3.91	3.94	3.67	3.01	3.46
Kansas	6.27	6.65	5.63	5.33	5.57	4.41	4.27
Kentucky	3.63	3.45	3.26	3.47	2.85	2.85	2.97
Louisiana	3.98	4.07	3.85	4.00	3.16	2.99	3.03
Maine	4.23	5.17	4.64	5.30	5.40	3.83	3.57
Maryland	5.42	7.54	7.65	8.57	7.14	4.57	3.89
Massachusetts	5.36	8.26	6.95	7.49	5.90	4.72	3.94
Michigan	3.53	3.35	3.08	3.19	2.76	2.87	2.91
Minnesota	3.71	4.38	4.28	3.88	3.49	2.98	2.94
Mississippi	4.17	3.90	3.79	4.04	3.46	3.19	3.36
Missouri	6.21	6.64	6.96	7.08	5.58	5.16	4.50
Montana	3.33	3.45	3.34	3.65	2.50	2.28	2.42
Nebraska	4.19	3.65	3.90	4.44	3.17	3.00	3.14
Nevada	4.10	4.45	4.76	4.50	3.74	3.19	3.16
New Hampshire	3.80	5.34	4.73	6.79	5.79	3.87	2.72
New Jersey	3.75	4.02	3.75	3.92	3.91	3.80	3.81
New Mexico	3.62	3.46	3.39	3.50	2.89	2.43	2.23
New York	3.61	6.30	6.85	6.58	5.65	4.26	3.03
North Carolina	4.43	4.76	4.83	5.28	4.38	3.71	3.21
North Dakota	4.51	4.52	4.18	4.36	2.83	2.71	2.97
Ohio	3.09	2.43	2.56	2.69	2.46	2.61	2.41
Oklahoma	5.03	5.29	5.39	5.51	4.77	3.83	3.73
Oregon	4.40	5.96	5.33	5.85	5.18	4.65	4.15
Pennsylvania	3.98	5.92	5.57	6.55	6.36	4.35	3.28
Rhode Island	1.96	2.01	2.03	2.06	2.05	2.09	2.14
South Carolina	4.01	3.94	3.75	3.87	3.43	3.08	3.37
South Dakota	4.20	4.73	4.82	4.47	3.06	2.28	2.47
Tennessee	4.26	3.99	3.64	3.88	3.19	3.01	2.97
Texas	4.93	4.16	4.00	3.94	3.41	3.20	3.20
Utah	4.82	3.86	3.24	3.37	3.58	4.60	4.63
Vermont	4.08	4.21	4.22	4.01	4.24	4.96	4.85
Virginia	5.37	6.50	7.04	6.25	6.42	4.38	3.92
Washington	4.20	4.85	4.35	4.56	3.57	3.85	3.43
West Virginia	3.73	5.14	5.08	5.59	4.62	3.41	3.18
Wisconsin	4.37	4.93	4.18	4.36	3.75	3.38	3.11
Wyoming	3.76	3.46	3.38	3.19	2.56	3.07	3.10
<b>Total</b>	<b>4.19</b>	<b>4.60</b>	<b>4.33</b>	<b>4.42</b>	<b>3.84</b>	<b>3.44</b>	<b>3.22</b>

See footnotes at end of table.

**Table 19. Average citygate price, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2016		
	March	February	January
Alabama	3.00	3.18	3.22
Alaska	6.72	6.85	6.93
Arizona	4.85	4.60	3.64
Arkansas	4.53	3.76	3.43
California	2.30	2.65	2.72
Colorado	3.43	3.23	3.09
Connecticut	3.09	3.45	3.27
Delaware	4.70	3.84	3.81
District of Columbia	--	--	--
Florida	3.83	3.95	3.86
Georgia	3.21	3.25	3.35
Hawaii	13.19	10.52	10.93
Idaho	3.67	3.47	3.20
Illinois	3.33	2.79	3.12
Indiana	3.48	3.27	3.28
Iowa	3.70	3.57	3.61
Kansas	3.52	3.25	3.25
Kentucky	3.26	3.26	3.24
Louisiana	3.32	3.49	3.51
Maine	7.53	8.85	7.76
Maryland	4.34	3.52	3.30
Massachusetts	3.40	4.30	3.93
Michigan	3.90	3.84	3.80
Minnesota	3.77	3.65	3.43
Mississippi	3.18	3.85	3.28
Missouri	3.85	3.43	3.32
Montana	3.03	3.43	3.23
Nebraska	4.16	3.80	3.65
Nevada	3.18	3.56	3.38
New Hampshire	3.57	7.03	7.02
New Jersey	3.98	3.94	3.84
New Mexico	2.75	2.80	2.72
New York	2.84	2.92	2.62
North Carolina	3.10	2.87	2.98
North Dakota	3.65	3.84	3.76
Ohio	3.09	3.55	3.60
Oklahoma	3.58	3.69	3.62
Oregon	3.63	3.96	3.71
Pennsylvania	3.98	3.18	3.04
Rhode Island	2.22	2.24	2.23
South Carolina	3.41	3.27	3.42
South Dakota	3.40	3.49	3.65
Tennessee	3.11	3.14	3.21
Texas	3.60	3.87	3.79
Utah	6.06	6.05	5.61
Vermont	6.93	5.98	5.52
Virginia	3.72	3.31	3.40
Washington	3.12	3.63	3.21
West Virginia	3.26	3.38	3.13
Wisconsin	3.57	3.85	3.62
Wyoming	3.47	3.75	3.62
<b>Total</b>	<b>3.49</b>	<b>3.48</b>	<b>3.39</b>

<sup>R</sup> Revised data.

-- Not applicable.

<sup>NA</sup> Not available.

**Notes:** Geographic coverage is the 50 states and the District of Columbia. Prices in this table represent the average price of natural gas by state at the point where the gas is transferred from a pipeline to a local distribution company within the state. Prices are in nominal dollars. See Appendix A, Explanatory Note 8, for discussion of computations and revision policy.

**Source:** Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 20. Average price of natural gas sold to residential consumers, by state, 2016-2018**  
(dollars per thousand cubic feet)

State	2018 2-Month YTD	2017 2-Month YTD	2016 2-Month YTD	2018		Total	2017 December
				February	January		
Alabama	13.94	14.23	11.63	14.37	13.59	16.34	14.94
Alaska	10.60	9.53	8.93	10.62	10.59	10.52	10.67
Arizona	13.80	NA	12.81	13.92	13.70	NA	14.37
Arkansas	10.41	10.98	9.25	10.83	10.09	12.97	11.81
California	12.11	12.93	11.42	12.10	12.12	12.51	11.78
Colorado	6.60	7.08	6.23	6.61	6.60	8.07	6.83
Connecticut	12.32	12.76	10.51	12.70	12.03	13.96	11.95
Delaware	NA	10.79	9.90	11.84	NA	12.80	12.40
District of Columbia	10.77	11.44	9.29	11.32	10.31	NA	11.37
Florida	18.29	17.96	15.84	18.67	17.98	NA	19.60
Georgia	11.15	13.49	10.48	12.43	10.58	18.18	12.06
Hawaii	40.90	37.25	33.58	42.05	39.90	38.88	39.57
Idaho	NA	7.31	8.10	NA	7.32	7.61	6.79
Illinois	6.77	7.83	6.04	6.91	6.66	NA	6.75
Indiana	7.32	8.06	6.19	7.96	6.87	NA	6.55
Iowa	7.60	7.81	6.52	7.87	7.38	NA	8.56
Kansas	8.78	9.19	7.54	8.91	8.67	NA	9.17
Kentucky	9.04	10.00	7.73	9.75	8.59	11.74	9.13
Louisiana	9.22	11.53	8.86	9.92	8.71	13.13	10.83
Maine	15.33	13.70	13.13	16.35	14.54	14.61	13.59
Maryland	10.96	12.05	9.54	11.85	10.33	NA	11.43
Massachusetts	NA	12.99	11.93	NA	NA	13.29	13.75
Michigan	7.54	7.70	7.44	7.73	7.40	8.32	7.25
Minnesota	8.27	8.14	7.08	8.74	7.87	NA	NA
Mississippi	8.30	10.37	8.18	9.13	7.70	11.93	9.80
Missouri	8.32	8.70	8.06	8.58	8.12	11.77	9.86
Montana	6.98	6.98	6.85	6.95	7.01	7.62	7.42
Nebraska	7.21	7.66	6.48	7.47	6.98	9.07	7.96
Nevada	8.13	7.02	9.38	8.15	8.12	8.82	8.26
New Hampshire	13.58	13.43	13.31	13.93	13.28	14.55	14.36
New Jersey	8.80	8.62	6.64	8.66	8.89	9.28	9.56
New Mexico	7.11	7.81	6.39	7.11	7.10	NA	7.86
New York	10.26	10.37	9.84	11.19	9.50	NA	10.43
North Carolina	10.84	12.56	8.89	13.51	9.78	13.37	10.79
North Dakota	5.90	6.30	5.54	5.95	5.85	NA	6.06
Ohio	6.94	7.60	6.39	7.62	6.46	NA	7.01
Oklahoma	7.02	7.77	6.66	7.40	6.72	11.39	8.64
Oregon	10.34	9.60	11.01	9.81	10.85	10.75	9.92
Pennsylvania	10.31	NA	8.70	10.81	9.97	NA	10.40
Rhode Island	13.27	12.65	12.52	13.45	13.13	14.02	14.01
South Carolina	NA	14.11	9.38	16.08	NA	NA	11.52
South Dakota	6.93	7.30	6.42	6.94	6.91	NA	7.60
Tennessee	8.34	8.98	7.33	8.84	7.98	10.46	8.78
Texas	9.26	10.14	7.86	9.69	8.92	13.80	12.09
Utah	9.70	8.57	8.68	10.09	9.40	9.06	9.76
Vermont	12.11	12.53	12.85	11.80	12.37	14.00	13.11
Virginia	10.72	11.22	8.94	11.68	10.09	NA	10.88
Washington	9.91	9.87	9.68	9.64	10.18	10.61	9.65
West Virginia	8.96	8.26	8.31	9.15	8.84	NA	8.98
Wisconsin	7.50	7.84	7.36	7.64	7.37	8.40	7.51
Wyoming	7.57	7.75	7.46	7.48	7.66	9.00	7.96
<b>Total</b>	<b>9.24</b>	<b>9.68</b>	<b>8.32</b>	<b>9.65</b>	<b>8.93</b>	<b>10.98</b>	<b>9.33</b>

See footnotes at end of table.

**Table 20. Average price of natural gas sold to residential consumers, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2017						
	November	October	September	August	July	June	May
Alabama	17.22	22.49	22.98	23.31	22.48	21.45	20.87
Alaska	10.66	11.18	12.14	13.40	13.73	12.79	11.00
Arizona	17.47	20.02	22.16	23.32	22.64	20.40	18.12
Arkansas	12.81	19.53	20.37	21.40	20.16	18.26	15.66
California	11.42	12.11	12.29	12.54	12.56	13.16	12.98
Colorado	7.38	8.43	12.15	13.77	14.69	12.66	9.16
Connecticut	13.43	19.85	21.76	22.67	22.06	18.84	16.63
Delaware	14.29	21.98	21.95	24.57	22.77	18.79	15.97
District of Columbia	13.75	19.76	20.23	NA	19.00	17.71	16.99
Florida	22.32	24.82	NA	26.45	25.25	23.91	22.09
Georgia	15.46	23.69	33.30	34.71	34.82	31.71	29.43
Hawaii	39.91	39.77	39.98	40.28	39.99	37.63	39.21
Idaho	7.12	7.39	9.42	10.82	11.21	10.41	8.28
Illinois	7.40	10.40	16.65	NA	16.75	15.18	11.01
Indiana	7.77	10.46	17.62	NA	20.05	19.13	11.68
Iowa	9.73	13.43	NA	17.45	17.73	15.03	10.88
Kansas	NA	14.44	21.40	22.95	22.06	19.78	NA
Kentucky	10.76	14.95	22.77	25.06	24.75	24.23	18.26
Louisiana	13.34	16.63	16.60	17.42	16.56	15.53	14.99
Maine	14.14	18.92	23.14	24.48	23.46	17.86	14.97
Maryland	12.42	NA	20.03	22.15	20.74	NA	16.95
Massachusetts	12.72	12.24	15.42	15.92	15.43	13.45	13.60
Michigan	7.61	9.44	12.11	13.70	14.37	13.16	9.83
Minnesota	7.81	9.01	12.06	13.53	13.49	12.60	9.79
Mississippi	11.50	16.59	18.15	18.22	17.56	16.25	15.14
Missouri	12.26	22.34	25.33	27.72	26.48	21.51	15.45
Montana	7.47	8.21	10.53	11.64	10.99	9.59	8.08
Nebraska	8.75	14.24	17.29	17.64	16.90	14.24	10.43
Nevada	9.97	11.06	12.81	14.10	13.23	11.62	10.63
New Hampshire	16.92	22.75	24.80	25.25	22.46	16.35	14.31
New Jersey	10.03	11.28	11.59	12.11	11.89	10.31	9.68
New Mexico	NA	12.56	14.53	15.40	14.74	12.43	10.19
New York	12.98	NA	17.98	18.91	19.01	16.16	14.38
North Carolina	12.04	19.83	23.08	23.35	22.69	22.62	19.47
North Dakota	6.48	9.11	15.63	20.51	21.86	19.62	NA
Ohio	8.83	15.26	23.50	27.41	26.48	23.74	NA
Oklahoma	11.13	24.50	26.66	29.02	25.88	21.81	15.88
Oregon	10.59	11.34	14.91	16.94	15.65	14.51	12.41
Pennsylvania	11.36	NA	17.52	20.08	19.38	16.82	13.15
Rhode Island	15.34	19.30	19.93	20.19	19.15	16.38	15.11
South Carolina	12.88	19.43	25.13	NA	24.78	24.43	22.07
South Dakota	7.72	11.09	NA	14.72	14.62	12.10	9.12
Tennessee	10.46	16.22	17.42	19.61	18.95	17.12	14.34
Texas	14.58	20.96	22.10	23.75	21.25	18.83	17.36
Utah	9.15	8.22	10.38	11.22	10.88	9.56	8.36
Vermont	15.30	19.67	20.96	22.20	21.43	17.88	14.90
Virginia	12.28	NA	21.38	22.75	21.46	19.19	NA
Washington	10.22	10.91	13.81	16.04	15.37	14.64	12.02
West Virginia	9.39	11.23	14.13	17.47	NA	17.59	11.54
Wisconsin	7.87	9.12	13.59	14.32	15.04	12.99	8.99
Wyoming	8.44	9.54	15.04	17.84	17.24	12.39	10.06
<b>Total</b>	<b>10.26</b>	<b>13.50</b>	<b>17.01</b>	<b>18.32</b>	<b>17.96</b>	<b>16.13</b>	<b>13.32</b>

See footnotes at end of table.

**Table 20. Average price of natural gas sold to residential consumers, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2017				2016		
	April	March	February	January	Total	December	November
Alabama	16.43	14.73	14.90	13.70	14.05	14.28	19.09
Alaska	10.23	9.58	9.62	9.45	9.81	9.51	9.73
Arizona	16.75	15.26	NA	12.65	15.28	12.70	15.69
Arkansas	14.03	12.53	11.82	10.41	11.17	10.66	17.46
California	12.52	12.42	12.67	13.11	11.84	13.08	12.33
Colorado	8.03	7.91	7.44	6.85	7.35	6.46	7.38
Connecticut	13.82	12.31	13.19	12.40	12.91	11.73	13.29
Delaware	12.03	11.30	11.01	10.61	11.88	11.38	13.77
District of Columbia	12.85	12.22	11.43	11.44	10.90	10.62	13.28
Florida	19.68	19.34	18.30	17.63	20.27	19.10	23.55
Georgia	19.56	14.71	14.58	12.72	14.56	11.96	16.02
Hawaii	38.06	38.69	37.91	36.66	36.48	37.57	34.17
Idaho	7.98	8.04	7.50	7.20	8.14	7.22	7.37
Illinois	10.13	7.87	8.32	7.51	7.88	6.74	8.71
Indiana	11.66	7.73	8.63	7.67	7.92	6.41	8.48
Iowa	8.99	7.75	8.02	7.65	8.13	6.93	10.22
Kansas	13.06	10.18	10.00	8.64	9.85	8.62	9.29
Kentucky	13.84	10.50	10.99	9.33	10.14	8.65	11.45
Louisiana	13.65	12.80	12.38	10.96	11.32	11.00	14.93
Maine	14.11	13.03	13.70	13.71	13.82	12.87	13.30
Maryland	14.99	11.14	12.57	11.64	11.53	10.84	13.22
Massachusetts	13.19	12.88	13.09	12.89	12.46	13.15	13.27
Michigan	9.16	7.72	7.93	7.54	8.21	7.35	7.98
Minnesota	8.52	7.70	8.14	8.13	8.01	7.31	7.98
Mississippi	12.93	10.73	10.77	10.10	10.06	8.87	13.44
Missouri	12.34	10.48	9.32	8.27	10.94	9.09	15.25
Montana	7.51	7.38	7.29	6.73	7.27	6.74	7.37
Nebraska	8.76	7.92	7.98	7.42	8.01	7.05	10.07
Nevada	8.99	7.76	7.10	6.96	10.23	7.57	9.70
New Hampshire	12.22	12.75	13.60	13.26	14.25	14.19	14.97
New Jersey	8.33	8.67	8.51	8.72	8.30	8.75	9.37
New Mexico	8.81	7.87	7.97	7.67	8.05	7.64	10.06
New York	11.04	10.76	10.98	9.81	10.84	9.61	10.95
North Carolina	18.02	11.76	13.85	11.78	11.31	10.61	11.89
North Dakota	7.60	6.47	6.80	5.94	7.21	5.68	6.96
Ohio	10.31	7.77	8.19	7.16	9.03	7.80	10.00
Oklahoma	13.15	10.27	8.77	7.12	10.57	8.37	18.86
Oregon	11.15	10.83	10.04	9.30	11.67	9.34	11.37
Pennsylvania	11.71	10.35	10.35	NA	10.18	9.21	10.62
Rhode Island	13.18	12.79	12.72	12.58	13.80	13.03	14.27
South Carolina	17.21	11.84	15.11	13.46	12.62	11.62	13.55
South Dakota	7.78	7.51	7.86	6.93	7.60	6.73	9.58
Tennessee	11.11	9.75	9.41	8.67	9.21	8.78	12.18
Texas	15.84	12.44	10.77	9.71	11.73	10.84	18.66
Utah	9.15	9.18	8.79	8.40	9.12	8.99	9.91
Vermont	12.83	12.42	12.37	12.69	14.15	13.13	14.31
Virginia	14.00	NA	12.17	10.49	10.88	10.16	12.69
Washington	10.66	10.23	10.03	9.75	10.78	10.06	11.05
West Virginia	9.53	8.45	8.37	8.17	9.26	8.22	8.92
Wisconsin	9.03	7.49	7.56	8.05	8.07	7.41	8.25
Wyoming	9.31	8.50	8.08	7.50	8.51	7.32	8.77
<b>Total</b>	<b>11.38</b>	<b>9.90</b>	<b>10.07</b>	<b>9.38</b>	<b>10.05</b>	<b>9.06</b>	<b>10.77</b>

See footnotes at end of table.

**Table 20. Average price of natural gas sold to residential consumers, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2016						
	October	September	August	July	June	May	April
Alabama	21.22	21.14	21.27	20.57	19.31	17.16	14.45
Alaska	10.07	11.34	12.66	12.98	12.14	10.41	9.63
Arizona	18.72	20.81	22.42	21.61	19.59	17.54	16.63
Arkansas	18.13	18.76	18.56	16.74	15.32	13.66	10.84
California	13.31	13.26	12.82	11.90	11.31	11.45	10.44
Colorado	9.71	12.07	14.22	13.96	12.46	7.07	6.84
Connecticut	16.63	22.19	24.07	21.76	19.19	15.04	12.88
Delaware	19.82	22.52	24.25	21.38	17.57	13.46	11.49
District of Columbia	12.53	18.63	19.25	17.60	14.70	12.03	10.10
Florida	26.53	25.75	26.80	26.17	23.35	21.72	20.29
Georgia	24.58	26.17	25.18	25.15	23.87	19.44	15.76
Hawaii	37.56	35.43	34.94	34.84	42.65	39.99	36.94
Idaho	8.24	9.49	10.16	9.88	9.80	9.21	8.94
Illinois	12.16	16.72	17.33	16.49	12.62	10.48	7.53
Indiana	11.92	17.65	18.47	18.89	16.47	10.09	7.76
Iowa	14.77	16.31	17.64	16.05	13.28	8.74	7.53
Kansas	18.34	19.96	21.74	20.13	18.92	13.42	11.08
Kentucky	19.46	22.92	24.45	23.07	20.15	14.84	10.32
Louisiana	16.22	15.84	16.62	15.93	13.87	13.13	11.10
Maine	15.75	21.33	22.79	21.88	17.99	13.46	12.56
Maryland	17.39	20.27	20.97	19.83	15.79	12.44	11.30
Massachusetts	13.70	14.97	15.22	14.42	12.73	12.35	11.91
Michigan	9.39	12.85	14.65	13.51	13.02	9.65	7.84
Minnesota	9.51	13.20	13.37	13.50	11.71	9.87	7.62
Mississippi	15.88	15.19	15.99	15.67	13.92	12.95	10.76
Missouri	21.71	24.01	26.41	24.86	19.73	15.60	11.32
Montana	7.93	10.06	11.11	10.33	8.36	7.19	6.77
Nebraska	13.31	15.73	16.13	15.03	12.37	9.25	7.63
Nevada	11.49	13.81	14.42	14.63	12.99	11.92	11.25
New Hampshire	19.46	24.66	24.61	23.02	18.19	13.97	12.22
New Jersey	10.25	11.74	12.12	11.33	10.64	9.37	8.86
New Mexico	12.56	14.49	15.18	13.85	11.38	8.73	7.48
New York	14.87	17.33	17.85	16.64	14.69	10.99	9.88
North Carolina	18.54	21.70	21.26	22.51	19.62	16.42	13.11
North Dakota	8.49	16.28	20.06	20.50	19.20	9.52	6.90
Ohio	18.54	25.79	26.95	25.16	19.01	11.57	7.94
Oklahoma	24.82	26.09	28.99	24.71	19.80	16.73	10.96
Oregon	11.81	14.32	16.61	16.56	15.90	15.29	13.81
Pennsylvania	13.58	18.88	19.48	18.34	15.62	11.38	9.91
Rhode Island	17.92	20.26	20.37	19.20	16.89	14.49	13.42
South Carolina	22.15	25.25	25.55	26.86	24.09	18.62	15.18
South Dakota	10.46	13.36	14.15	13.48	11.34	7.74	6.87
Tennessee	17.97	17.59	18.95	17.12	14.81	12.59	9.53
Texas	20.34	21.23	22.99	19.53	16.71	16.50	11.75
Utah	9.23	10.12	10.76	10.67	9.81	8.89	8.96
Vermont	18.75	22.57	23.02	21.11	18.40	14.26	13.30
Virginia	16.02	20.91	20.99	19.60	15.27	12.49	10.47
Washington	11.53	13.92	16.14	15.24	13.58	11.62	10.55
West Virginia	11.65	16.69	18.41	17.03	15.58	11.72	9.36
Wisconsin	9.19	14.28	15.04	14.30	10.56	8.63	7.57
Wyoming	10.25	15.68	16.54	16.97	11.27	8.49	8.24
<b>Total</b>	<b>13.74</b>	<b>16.78</b>	<b>17.60</b>	<b>16.55</b>	<b>14.43</b>	<b>11.62</b>	<b>9.65</b>

See footnotes at end of table.

**Table 20. Average price of natural gas sold to residential consumers, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2016		
	March	February	January
Alabama	12.16	11.26	12.15
Alaska	9.09	8.99	8.87
Arizona	18.16	13.91	12.06
Arkansas	10.27	9.01	9.49
California	10.54	11.46	11.39
Colorado	6.68	6.45	6.07
Connecticut	11.74	10.67	10.34
Delaware	10.26	9.73	10.11
District of Columbia	10.27	9.12	9.53
Florida	17.88	15.31	16.52
Georgia	12.50	10.56	10.40
Hawaii	37.08	33.73	33.45
Idaho	8.79	8.23	8.00
Illinois	7.08	6.30	5.83
Indiana	8.07	6.41	6.01
Iowa	7.33	6.52	6.53
Kansas	9.43	7.89	7.27
Kentucky	8.75	7.61	7.85
Louisiana	10.30	8.52	9.23
Maine	12.97	13.07	13.19
Maryland	10.85	9.30	9.78
Massachusetts	11.60	11.97	11.88
Michigan	7.82	7.61	7.29
Minnesota	7.66	7.12	7.05
Mississippi	9.02	7.96	8.43
Missouri	9.32	8.13	7.99
Montana	7.02	6.90	6.81
Nebraska	7.02	6.52	6.45
Nevada	10.84	9.75	9.12
New Hampshire	11.76	12.70	14.05
New Jersey	8.12	6.79	6.48
New Mexico	7.06	6.44	6.35
New York	9.65	9.45	10.31
North Carolina	12.62	9.06	8.76
North Dakota	6.30	5.60	5.49
Ohio	7.07	6.37	6.42
Oklahoma	8.92	6.81	6.53
Oregon	12.08	11.97	10.36
Pennsylvania	9.51	8.64	8.75
Rhode Island	12.64	12.35	12.73
South Carolina	13.47	9.75	9.04
South Dakota	7.14	6.59	6.29
Tennessee	7.88	7.27	7.40
Texas	10.12	7.87	7.85
Utah	9.51	8.79	8.59
Vermont	12.66	12.53	13.24
Virginia	10.04	8.63	9.30
Washington	10.34	9.90	9.53
West Virginia	8.82	8.31	8.31
Wisconsin	7.39	7.24	7.46
Wyoming	7.61	7.62	7.33
<b>Total</b>	<b>9.19</b>	<b>8.36</b>	<b>8.28</b>

<sup>R</sup> Revised data.

<sup>NA</sup> Not available.

**Notes:** Geographic coverage is the 50 states and the District of Columbia. Average prices for gas delivered to residential consumers reflect onsystem sales prices, with the following exception: Residential price data are based on total gas deliveries in the states of Georgia, New York and Ohio only. Published prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges. Prices are in nominal dollars. See Appendix A, Explanatory Note 8, for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of total residential, total commercial, and total industrial deliveries.

**Sources:** Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and Form EIA-910, "Monthly Natural Gas Marketer Survey."

**Table 21. Average price of natural gas sold to commercial consumers, by state, 2016-2018**  
(dollars per thousand cubic feet)

State	2018 2-Month YTD	2017 2-Month YTD	2016 2-Month YTD	2018		Total	2017 December
				February	January		
Alabama	11.79	11.41	9.79	12.01	11.60	12.20	12.00
Alaska	10.03	9.28	7.88	10.06	9.99	9.91	10.00
Arizona	9.09	8.24	9.14	9.06	9.13	8.89	9.10
Arkansas	7.91	7.84	6.93	8.04	7.80	NA	8.37
California	9.06	9.50	8.23	9.17	8.95	8.77	8.65
Colorado	6.29	6.70	5.86	6.26	6.32	7.16	6.61
Connecticut	8.13	9.03	7.30	8.38	7.92	9.30	7.97
Delaware	NA	9.72	8.65	10.03	NA	10.59	10.57
District of Columbia	10.42	10.54	9.00	11.10	9.87	11.42	10.83
Florida	11.71	10.89	10.50	11.79	11.65	NA	11.05
Georgia	7.78	8.57	6.99	8.04	7.65	8.76	8.11
Hawaii	31.76	28.81	23.92	32.27	31.31	29.62	30.53
Idaho	NA	6.43	7.15	NA	6.52	6.59	6.19
Illinois	6.25	7.19	5.70	6.34	6.18	7.80	6.18
Indiana	6.76	7.37	5.49	7.33	6.35	7.56	5.95
Iowa	NA	6.46	5.38	NA	6.23	6.93	7.01
Kansas	8.22	8.74	6.97	8.35	8.12	NA	8.45
Kentucky	7.73	8.29	6.57	8.10	7.48	9.20	7.87
Louisiana	8.68	NA	7.86	8.90	8.48	NA	9.01
Maine	NA	11.44	11.17	NA	12.40	11.32	11.35
Maryland	9.34	9.82	8.13	10.11	8.82	NA	9.47
Massachusetts	NA	9.86	9.42	NA	NA	NA	10.58
Michigan	6.59	6.70	6.58	6.75	6.46	6.97	6.36
Minnesota	7.20	7.05	6.20	7.59	6.84	6.82	6.55
Mississippi	7.99	9.28	7.72	8.46	7.61	9.04	8.79
Missouri	7.30	7.43	7.01	7.24	7.34	8.48	8.20
Montana	6.90	6.94	6.84	6.83	6.96	7.42	7.40
Nebraska	6.34	6.51	5.43	6.57	6.14	6.46	6.27
Nevada	6.22	5.06	7.40	6.23	6.21	5.71	6.06
New Hampshire	11.46	11.46	10.93	11.84	11.15	11.71	11.83
New Jersey	9.13	9.30	7.70	9.42	8.92	9.05	9.17
New Mexico	5.59	6.30	5.05	5.52	5.66	NA	6.11
New York	7.52	7.08	6.69	7.88	7.21	6.79	6.86
North Carolina	7.68	9.23	6.78	8.15	7.45	NA	NA
North Dakota	5.87	5.96	5.18	5.76	5.98	5.99	5.88
Ohio	5.55	6.13	5.22	5.67	5.46	6.19	5.37
Oklahoma	5.93	6.39	5.40	6.09	5.80	8.55	6.97
Oregon	8.60	8.36	9.01	8.14	9.03	8.88	8.41
Pennsylvania	9.04	8.47	7.28	9.44	8.77	NA	8.77
Rhode Island	11.01	10.23	10.22	11.15	10.88	11.30	11.35
South Carolina	NA	10.29	7.95	10.34	NA	9.35	9.49
South Dakota	5.78	6.09	5.17	5.66	5.91	6.31	6.80
Tennessee	8.19	8.52	6.99	8.36	8.06	8.83	8.33
Texas	7.00	7.53	5.92	7.19	6.83	NA	7.85
Utah	8.22	7.38	7.50	8.47	8.02	7.40	8.26
Vermont	7.66	7.85	7.07	7.48	7.80	NA	7.19
Virginia	8.15	8.15	6.72	8.94	7.65	NA	7.96
Washington	8.24	8.05	8.31	8.19	8.29	NA	7.87
West Virginia	7.59	6.95	7.26	7.81	7.45	7.60	7.60
Wisconsin	6.59	6.81	6.48	6.72	6.48	6.60	6.54
Wyoming	6.54	6.73	6.32	6.45	6.62	6.92	6.61
<b>Total</b>	<b>7.62</b>	<b>7.73</b>	<b>6.80</b>	<b>7.85</b>	<b>7.44</b>	<b>7.89</b>	<b>7.44</b>

See footnotes at end of table.

**Table 21. Average price of natural gas sold to commercial consumers, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State							2017
	November	October	September	August	July	June	May
Alabama	12.36	12.79	13.19	13.27	13.31	12.98	12.91
Alaska	10.12	10.46	11.13	11.63	11.76	11.15	9.86
Arizona	9.36	9.32	9.27	9.42	9.14	8.95	8.88
Arkansas	8.59	NA	8.72	9.28	9.31	9.20	8.83
California	8.01	7.79	7.96	8.32	8.41	8.76	8.70
Colorado	6.86	7.24	9.21	9.15	9.52	9.00	7.27
Connecticut	8.72	10.64	10.73	11.17	10.99	10.70	10.75
Delaware	11.11	12.79	12.08	13.67	13.06	11.92	11.18
District of Columbia	11.55	11.70	11.91	12.71	12.49	12.88	12.15
Florida	11.26	11.24	NA	NA	11.06	11.15	11.09
Georgia	8.51	9.01	9.31	9.68	9.34	9.77	9.37
Hawaii	30.74	29.58	30.32	30.86	29.57	28.42	29.16
Idaho	6.27	6.25	7.13	7.15	7.60	7.44	7.11
Illinois	6.61	7.92	12.11	13.63	12.46	12.55	11.03
Indiana	6.81	7.31	10.00	11.66	11.40	11.52	9.09
Iowa	6.56	6.58	9.13	9.36	9.64	9.05	7.83
Kansas	8.21	10.22	14.29	13.51	13.75	13.21	NA
Kentucky	8.84	10.31	12.01	13.01	12.18	12.73	11.45
Louisiana	8.85	8.72	8.78	8.76	8.82	8.86	8.84
Maine	10.74	11.57	12.32	12.77	13.05	11.41	10.93
Maryland	10.15	12.15	12.69	12.46	NA	12.60	12.02
Massachusetts	9.53	NA	9.86	10.08	10.10	9.11	9.94
Michigan	6.57	7.53	8.42	9.59	9.12	8.94	7.87
Minnesota	6.26	6.50	7.47	8.12	7.75	8.14	7.07
Mississippi	8.94	8.87	9.47	8.90	8.91	8.67	9.06
Missouri	9.23	10.60	10.70	11.24	11.07	9.84	9.04
Montana	7.25	7.73	8.82	9.68	9.65	8.85	7.82
Nebraska	6.17	6.56	6.86	7.02	7.17	6.63	6.68
Nevada	6.40	6.48	6.50	6.75	6.40	5.90	5.85
New Hampshire	12.78	15.10	16.06	16.06	15.28	12.45	11.49
New Jersey	9.37	9.03	8.54	9.37	9.74	8.89	8.74
New Mexico	NA	NA	7.31	7.33	7.46	6.98	6.47
New York	6.58	6.44	5.96	5.89	6.56	6.80	6.82
North Carolina	8.73	9.02	9.25	9.07	8.82	10.16	10.59
North Dakota	5.66	5.91	6.46	7.13	7.63	7.55	6.51
Ohio	5.55	6.63	7.53	7.91	7.84	7.84	6.86
Oklahoma	8.74	14.90	15.36	16.26	15.05	13.48	11.55
Oregon	8.70	8.98	9.99	10.60	10.20	10.35	9.51
Pennsylvania	8.82	10.38	11.14	11.58	11.99	11.65	10.10
Rhode Island	12.45	15.04	15.45	15.73	15.38	13.10	12.02
South Carolina	9.35	8.60	9.10	8.90	9.09	8.99	8.69
South Dakota	6.02	6.01	7.57	7.74	7.69	7.47	6.31
Tennessee	8.90	9.57	9.48	9.75	9.64	9.50	9.22
Texas	7.80	8.30	8.44	8.46	8.27	7.78	NA
Utah	7.34	6.44	7.07	7.40	7.28	6.83	6.51
Vermont	6.17	6.07	6.04	6.05	6.29	NA	6.94
Virginia	8.32	NA	NA	9.31	9.07	9.51	NA
Washington	8.08	8.28	9.07	9.78	9.40	NA	NA
West Virginia	7.80	8.51	8.87	9.31	9.48	9.42	8.22
Wisconsin	6.49	5.83	6.92	6.85	7.02	6.68	6.06
Wyoming	6.74	6.95	7.41	7.45	7.65	7.41	7.12
<b>Total</b>	<b>7.53</b>	<b>7.96</b>	<b>8.49</b>	<b>8.76</b>	<b>8.82</b>	<b>8.77</b>	<b>8.32</b>

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2016-2018

(dollars per thousand cubic feet) – continued

State	2017					2016	
	April	March	February	January	Total	December	November
Alabama	12.35	11.66	11.52	11.31	10.65	11.12	12.08
Alaska	9.51	9.23	9.29	9.27	8.34	8.75	8.68
Arizona	9.02	8.87	8.26	8.22	8.83	8.03	8.22
Arkansas	8.60	8.29	8.16	7.63	7.14	7.59	8.63
California	8.83	9.49	9.35	9.62	8.42	9.96	9.28
Colorado	6.97	7.09	6.91	6.56	6.42	6.17	6.61
Connecticut	9.25	8.33	9.52	8.62	8.79	7.92	8.60
Delaware	10.15	9.97	9.82	9.64	9.58	9.88	10.36
District of Columbia	11.60	11.58	11.16	9.92	9.88	9.85	11.59
Florida	10.95	11.02	11.13	10.67	10.42	10.88	10.61
Georgia	9.08	8.52	8.83	8.37	7.92	7.57	8.78
Hawaii	29.15	29.62	29.34	28.33	27.02	27.61	25.04
Idaho	7.15	6.93	6.60	6.33	7.12	6.50	6.49
Illinois	9.16	7.26	7.61	6.92	7.14	6.45	8.08
Indiana	9.65	6.90	7.76	7.10	6.55	5.75	7.39
Iowa	6.89	6.17	6.45	6.46	5.99	5.96	6.48
Kansas	10.24	9.37	9.22	8.42	9.37	7.64	8.53
Kentucky	10.45	8.74	8.94	7.83	7.89	7.49	8.94
Louisiana	8.70	NA	NA	NA	7.92	8.81	8.21
Maine	11.22	10.82	11.34	11.54	10.63	10.63	10.23
Maryland	11.77	9.29	10.06	9.62	8.94	8.83	10.06
Massachusetts	NA	9.77	9.93	9.79	9.48	10.07	9.98
Michigan	7.26	6.76	6.82	6.61	6.90	6.56	6.94
Minnesota	6.82	6.39	6.97	7.11	6.44	6.31	6.28
Mississippi	9.15	8.89	9.32	9.25	7.80	8.10	8.56
Missouri	8.40	8.16	7.64	7.28	7.89	7.70	9.20
Montana	7.26	7.21	7.24	6.70	7.13	6.73	7.29
Nebraska	6.02	6.38	6.69	6.37	5.45	5.79	5.87
Nevada	5.38	5.14	5.02	5.09	6.84	5.37	5.78
New Hampshire	10.15	10.63	11.68	11.26	11.36	11.91	11.98
New Jersey	7.83	8.95	8.97	9.58	7.93	8.60	9.24
New Mexico	6.09	5.98	6.42	6.19	5.68	6.05	6.59
New York	6.85	7.06	7.43	6.74	6.18	6.49	5.96
North Carolina	10.08	8.54	9.94	8.77	7.71	8.36	8.05
North Dakota	5.66	5.66	6.30	5.73	5.45	5.43	5.60
Ohio	6.26	5.94	6.17	6.10	5.74	5.68	6.02
Oklahoma	9.69	8.01	6.97	6.01	7.72	6.86	12.31
Oregon	9.18	9.03	8.57	8.22	9.30	7.88	9.24
Pennsylvania	NA	8.93	8.62	8.36	8.15	7.94	8.31
Rhode Island	10.63	10.42	10.45	10.02	11.16	10.27	11.48
South Carolina	9.71	8.63	10.20	10.36	8.42	9.48	9.01
South Dakota	5.88	5.82	6.48	5.82	5.64	5.72	5.97
Tennessee	8.85	8.59	8.64	8.42	7.80	8.23	9.06
Texas	7.70	7.27	7.59	7.48	6.89	7.60	8.25
Utah	7.47	7.71	7.48	7.29	7.43	7.65	7.50
Vermont	7.57	7.35	7.61	8.07	6.63	7.48	7.07
Virginia	9.60	NA	8.75	7.72	7.23	7.55	7.54
Washington	8.20	8.15	8.16	7.96	8.49	8.14	8.60
West Virginia	7.66	7.04	6.97	6.92	7.75	7.10	7.50
Wisconsin	6.92	6.37	6.47	7.05	6.29	6.50	6.47
Wyoming	7.09	6.96	6.97	6.56	6.54	6.52	6.76
<b>Total</b>	<b>8.08</b>	<b>7.69</b>	<b>7.90</b>	<b>7.59</b>	<b>7.28</b>	<b>7.27</b>	<b>7.67</b>

See footnotes at end of table.

**Table 21. Average price of natural gas sold to commercial consumers, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2016						
	October	September	August	July	June	May	April
Alabama	11.82	11.69	11.75	11.61	11.19	10.50	10.51
Alaska	8.85	8.71	8.78	9.07	8.41	8.00	7.90
Arizona	8.52	8.64	8.65	8.74	8.73	8.81	9.10
Arkansas	7.01	6.89	7.16	6.90	7.22	7.11	6.85
California	9.08	9.16	8.74	8.07	7.43	7.33	7.18
Colorado	8.00	8.42	9.26	8.36	7.63	6.14	5.96
Connecticut	9.99	10.64	11.73	11.14	11.81	9.86	9.36
Delaware	11.42	11.86	12.11	11.50	10.86	10.03	9.33
District of Columbia	9.37	11.21	11.82	11.64	10.85	9.83	9.83
Florida	10.64	10.56	10.33	10.31	10.25	10.04	10.12
Georgia	9.29	9.54	9.58	9.35	8.72	8.38	8.15
Hawaii	27.71	27.32	25.57	25.24	32.82	30.04	28.09
Idaho	6.99	7.69	7.64	7.72	7.81	7.71	7.82
Illinois	9.04	12.31	12.77	12.26	10.93	9.48	6.99
Indiana	7.35	9.62	10.08	11.13	9.56	7.21	6.42
Iowa	6.86	7.53	8.14	7.82	7.12	5.81	5.55
Kansas	11.32	13.59	13.79	12.93	12.48	10.16	8.38
Kentucky	10.81	11.32	12.03	11.05	10.77	9.19	8.00
Louisiana	8.47	8.28	8.27	8.22	7.19	7.26	7.12
Maine	10.47	11.16	10.72	10.37	9.95	9.45	10.15
Maryland	10.89	11.78	11.49	11.34	9.65	8.11	8.20
Massachusetts	9.54	9.73	9.80	9.35	8.49	9.22	9.45
Michigan	7.58	9.02	9.32	8.66	8.51	7.29	6.63
Minnesota	6.74	7.89	7.80	7.91	7.09	6.41	6.17
Mississippi	8.10	7.55	7.49	7.61	7.03	7.51	8.04
Missouri	9.59	9.87	10.46	10.38	9.39	8.55	7.92
Montana	7.66	9.00	9.13	8.64	7.79	6.97	6.68
Nebraska	5.77	5.93	6.00	5.31	5.06	4.71	4.98
Nevada	6.24	6.87	6.89	7.22	7.08	7.04	7.25
New Hampshire	13.58	16.21	16.40	16.48	13.28	11.22	9.96
New Jersey	8.78	8.74	8.71	8.68	7.72	7.14	6.79
New Mexico	6.85	7.35	7.15	6.84	6.05	5.47	5.25
New York	5.58	5.32	5.29	5.57	5.76	6.02	6.20
North Carolina	7.95	8.19	8.30	8.77	8.52	8.02	7.78
North Dakota	5.82	6.74	7.29	7.01	6.68	5.36	4.62
Ohio	7.16	7.24	8.06	7.50	6.90	6.05	5.26
Oklahoma	14.46	14.76	15.04	13.81	12.31	10.89	8.09
Oregon	9.24	9.93	10.74	11.13	11.30	10.79	10.02
Pennsylvania	9.16	11.02	10.84	11.07	10.64	8.92	8.12
Rhode Island	14.53	16.35	15.78	15.43	13.58	11.51	10.79
South Carolina	9.02	8.56	8.48	8.71	7.79	7.43	8.36
South Dakota	6.30	7.16	7.90	6.98	6.46	5.07	4.94
Tennessee	9.78	9.10	9.49	8.70	8.30	7.63	7.61
Texas	8.52	8.15	8.26	7.52	6.73	6.84	6.14
Utah	6.71	6.84	7.10	7.02	6.84	6.77	7.37
Vermont	6.19	6.33	5.59	5.87	5.51	6.71	6.60
Virginia	7.68	8.67	8.40	8.20	7.66	7.17	6.59
Washington	8.78	9.45	9.87	9.37	9.64	8.09	7.99
West Virginia	8.72	9.99	10.27	10.14	9.78	9.00	7.89
Wisconsin	5.86	6.55	6.55	6.98	5.25	5.29	5.97
Wyoming	6.85	7.13	6.82	6.91	7.02	6.47	6.47
<b>Total</b>	<b>7.96</b>	<b>8.27</b>	<b>8.30</b>	<b>8.14</b>	<b>7.72</b>	<b>7.32</b>	<b>6.98</b>

See footnotes at end of table.

**Table 21. Average price of natural gas sold to commercial consumers, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2016		
	March	February	January
Alabama	10.09	9.75	9.86
Alaska	7.87	7.87	7.88
Arizona	9.77	9.36	8.97
Arkansas	7.11	6.74	7.16
California	8.16	8.48	8.03
Colorado	5.92	5.95	5.79
Connecticut	7.92	7.29	7.31
Delaware	8.79	8.58	8.75
District of Columbia	9.81	8.92	9.12
Florida	10.33	10.46	10.54
Georgia	7.58	7.22	6.80
Hawaii	27.26	23.66	24.18
Idaho	7.61	7.22	7.10
Illinois	6.51	5.89	5.54
Indiana	7.04	5.67	5.34
Iowa	5.80	5.40	5.36
Kansas	8.96	7.26	6.75
Kentucky	7.11	6.39	6.73
Louisiana	7.69	7.69	8.02
Maine	10.69	11.08	11.27
Maryland	8.70	8.02	8.25
Massachusetts	9.14	9.50	9.34
Michigan	6.64	6.64	6.53
Minnesota	6.44	6.25	6.15
Mississippi	7.82	7.55	7.93
Missouri	7.22	6.94	7.08
Montana	6.96	6.91	6.80
Nebraska	5.38	5.46	5.40
Nevada	7.59	7.48	7.34
New Hampshire	9.55	10.47	11.46
New Jersey	7.49	7.65	7.75
New Mexico	5.20	5.02	5.07
New York	6.47	6.69	6.69
North Carolina	8.27	6.97	6.64
North Dakota	5.20	5.16	5.20
Ohio	5.22	5.21	5.22
Oklahoma	6.78	5.42	5.39
Oregon	9.51	9.38	8.74
Pennsylvania	8.22	7.37	7.19
Rhode Island	10.32	10.10	10.37
South Carolina	8.36	8.12	7.80
South Dakota	5.60	5.36	5.04
Tennessee	7.03	7.02	6.95
Texas	6.17	5.85	5.98
Utah	7.91	7.55	7.46
Vermont	6.22	7.00	7.14
Virginia	7.12	6.62	6.82
Washington	8.03	8.63	8.08
West Virginia	7.56	7.30	7.24
Wisconsin	6.06	6.35	6.58
Wyoming	6.48	6.37	6.28
<b>Total</b>	<b>7.08</b>	<b>6.86</b>	<b>6.75</b>

<sup>R</sup> Revised data.

<sup>NA</sup> Not available.

**Notes:** Geographic coverage is the 50 states and the District of Columbia. Average prices for gas delivered to commercial consumers reflect onsystem sales prices, with the following exception: Commercial price data are based on total gas deliveries in the states of Georgia, New York and Ohio only. Published prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges. Prices are in nominal dollars. See Appendix A, Explanatory Note 8, for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of total residential, total commercial, and total industrial deliveries.

**Sources:** Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and Form EIA-910, "Monthly Natural Gas Marketer Survey."

**Table 22. Average price of natural gas sold to industrial consumers, by state, 2016-2018**  
(dollars per thousand cubic feet)

State	2018 2-Month YTD	2017 2-Month YTD	2016 2-Month YTD	2018		2017 December
				February	January	
Alabama	4.86	4.93	3.66	4.94	4.79	4.38
Alaska	5.63	5.07	5.51	5.57	5.68	4.78
Arizona	6.89	6.17	6.37	7.11	6.70	6.63
Arkansas	6.81	6.71	5.79	6.84	6.79	6.48
California	7.44	8.12	6.72	7.40	7.48	7.09
Colorado	5.10	5.42	4.34	5.15	5.06	5.04
Connecticut	6.50	7.65	5.89	6.57	6.43	6.16
Delaware	10.12	9.01	8.00	10.07	10.15	NA
District of Columbia	--	--	--	--	--	--
Florida	6.90	6.44	6.22	6.15	7.73	5.94
Georgia	4.83	5.36	4.08	5.28	R4.46	4.66
Hawaii	NA	17.33	15.34	20.03	NA	20.14
Idaho	4.45	4.60	5.43	4.38	4.52	4.42
Illinois	NA	6.21	4.40	NA	5.24	4.92
Indiana	6.18	6.05	4.70	5.98	6.37	4.94
Iowa	NA	5.16	4.69	NA	5.44	5.53
Kansas	6.24	6.50	6.47	6.41	6.07	4.23
Kentucky	NA	5.08	3.88	NA	4.52	4.59
Louisiana	3.70	4.66	3.02	3.57	3.85	3.44
Maine	NA	9.34	8.48	NA	9.71	9.59
Maryland	7.92	9.72	8.38	7.66	8.10	9.79
Massachusetts	10.37	8.27	7.71	11.42	9.52	8.91
Michigan	5.87	5.91	5.80	5.96	5.77	5.68
Minnesota	4.93	5.01	4.37	5.17	4.70	4.64
Mississippi	5.26	NA	4.55	5.41	R5.12	5.15
Missouri	6.91	7.12	6.18	6.87	6.96	6.96
Montana	6.33	6.37	6.09	6.04	6.64	NA
Nebraska	5.05	5.05	4.37	5.16	4.94	4.52
Nevada	5.48	4.37	6.57	5.47	5.48	5.21
New Hampshire	NA	10.20	9.31	9.39	NA	10.03
New Jersey	8.57	NA	6.33	8.79	8.39	8.22
New Mexico	4.63	5.09	4.16	4.43	4.89	4.80
New York	7.51	7.01	6.23	7.78	7.26	7.04
North Carolina	NA	6.82	5.48	6.78	NA	6.44
North Dakota	3.93	3.77	2.64	4.06	3.81	3.97
Ohio	NA	5.41	4.26	NA	NA	NA
Oklahoma	NA	5.24	7.34	NA	6.18	5.24
Oregon	5.37	5.44	5.68	5.39	5.35	5.29
Pennsylvania	NA	7.81	6.95	NA	8.14	8.87
Rhode Island	8.68	8.19	8.52	8.75	8.62	8.62
South Carolina	5.75	5.52	4.51	5.43	6.12	5.23
South Dakota	4.99	5.37	4.67	4.98	4.99	4.99
Tennessee	5.93	5.87	4.73	6.15	5.75	5.39
Texas	3.54	3.64	2.42	3.78	3.33	3.21
Utah	6.29	6.00	6.25	6.33	6.25	6.02
Vermont	5.04	5.86	5.16	5.00	5.08	4.71
Virginia	5.21	5.53	4.63	5.35	5.09	5.20
Washington	7.56	7.37	7.53	7.62	7.49	7.46
West Virginia	3.59	2.56	2.59	4.04	3.15	3.21
Wisconsin	5.88	6.00	5.62	6.13	5.67	5.61
Wyoming	4.02	NA	3.89	4.02	4.03	4.21
<b>Total</b>	<b>4.69</b>	<b>4.75</b>	<b>3.63</b>	<b>4.88</b>	<b>R4.52</b>	<b>4.25</b>

See footnotes at end of table.

**Table 22. Average price of natural gas sold to industrial consumers, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2017						
	November	October	September	August	July	June	May
Alabama	4.18	3.99	4.01	4.02	4.16	4.30	4.27
Alaska	4.63	4.06	3.67	3.19	3.07	5.01	5.00
Arizona	6.98	6.78	6.83	7.32	6.55	6.92	6.37
Arkansas	6.62	6.63	6.66	7.02	6.74	6.69	6.52
California	6.33	6.05	6.19	6.39	6.54	6.96	7.00
Colorado	5.18	NA	5.78	5.91	6.35	6.08	5.66
Connecticut	6.12	6.01	6.42	6.07	5.94	5.84	6.45
Delaware	NA	10.37	NA	13.20	13.48	10.21	9.80
District of Columbia	--	--	--	--	--	--	--
Florida	6.34	6.40	6.24	6.50	6.12	6.21	6.22
Georgia	4.43	4.51	4.78	4.55	4.49	4.71	4.90
Hawaii	18.87	19.10	17.89	17.09	16.82	17.29	17.75
Idaho	NA	4.39	4.46	4.51	4.52	4.63	4.48
Illinois	5.05	5.16	NA	6.51	7.25	6.78	6.86
Indiana	5.44	5.54	7.15	8.14	7.25	8.09	6.44
Iowa	5.09	5.04	5.31	5.16	5.40	5.48	5.29
Kansas	4.97	4.56	3.99	3.87	3.91	4.08	4.77
Kentucky	4.31	4.31	4.19	4.22	4.31	4.52	4.42
Louisiana	3.50	3.63	3.56	3.64	3.71	3.84	3.41
Maine	9.36	5.26	5.30	5.42	6.34	6.51	6.61
Maryland	9.33	NA	NA	NA	NA	NA	10.65
Massachusetts	7.73	6.32	7.16	7.22	7.42	7.06	NA
Michigan	6.01	6.07	6.99	6.79	6.52	6.45	6.41
Minnesota	4.04	4.39	4.23	4.18	4.13	4.43	4.22
Mississippi	4.93	4.99	4.98	4.87	5.11	4.92	4.99
Missouri	7.09	6.55	6.14	6.36	6.32	6.13	6.15
Montana	6.22	6.17	6.06	5.42	6.33	6.17	6.21
Nebraska	4.34	4.28	4.44	4.51	4.46	4.50	4.40
Nevada	5.48	5.64	5.69	6.02	5.74	5.48	5.15
New Hampshire	8.92	7.66	7.99	7.58	7.81	7.14	7.98
New Jersey	8.21	NA	8.49	8.36	7.97	8.53	7.17
New Mexico	4.73	4.60	4.35	4.42	4.35	4.36	4.29
New York	6.56	6.29	6.03	6.67	NA	NA	7.04
North Carolina	6.12	6.03	6.23	6.32	6.19	6.11	6.21
North Dakota	3.12	2.89	3.79	2.83	2.85	2.95	2.82
Ohio	5.17	5.83	6.47	6.32	6.99	7.41	NA
Oklahoma	5.58	10.55	7.94	7.80	8.53	9.30	6.78
Oregon	5.40	5.29	5.31	5.62	5.53	5.51	5.40
Pennsylvania	8.91	9.12	9.09	9.32	NA	8.94	8.18
Rhode Island	8.45	8.41	8.59	8.74	8.74	8.43	8.55
South Carolina	4.59	4.64	4.76	4.61	5.04	4.88	4.75
South Dakota	4.72	5.49	6.19	5.78	5.76	5.33	5.27
Tennessee	5.11	4.84	4.86	4.81	4.94	5.10	5.02
Texas	2.98	3.11	3.21	3.19	3.39	3.51	3.37
Utah	5.45	5.14	5.13	5.11	5.20	5.04	5.14
Vermont	4.40	4.42	4.48	4.47	4.51	4.68	4.78
Virginia	4.68	4.73	4.97	5.27	4.99	5.46	5.09
Washington	7.34	7.12	7.23	7.42	7.74	7.39	7.52
West Virginia	3.18	2.36	2.19	2.22	2.26	2.22	2.28
Wisconsin	5.54	4.46	4.66	4.55	4.24	4.75	4.69
Wyoming	4.26	4.37	4.38	4.35	4.39	4.24	3.97
<b>Total</b>	<b>3.89</b>	<b>3.82</b>	<b>3.89</b>	<b>3.83</b>	<b>3.96</b>	<b>4.10</b>	<b>4.07</b>

See footnotes at end of table.

**Table 22. Average price of natural gas sold to industrial consumers, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2017				Total	2016	
	April	March	February	January		December	November
Alabama	4.34	4.15	4.71	5.12	3.79	4.91	4.33
Alaska	5.06	5.17	5.04	5.11	5.06	5.21	4.83
Arizona	6.23	6.01	6.10	6.24	5.79	5.94	5.82
Arkansas	6.80	6.63	6.69	6.72	5.78	6.59	6.30
California	7.14	7.65	7.91	8.32	6.79	8.44	7.48
Colorado	5.19	5.61	5.48	5.37	4.89	4.75	5.02
Connecticut	NA	NA	8.11	7.26	6.07	6.07	5.62
Delaware	9.06	9.56	9.10	8.93	9.02	9.05	10.08
District of Columbia	--	--	--	--	--	--	--
Florida	6.11	6.65	6.60	6.27	5.77	5.59	5.77
Georgia	4.79	4.34	5.17	5.54	4.10	4.90	4.38
Hawaii	17.06	17.41	17.83	16.90	15.70	16.57	16.80
Idaho	4.61	4.56	4.63	4.56	5.19	4.51	4.61
Illinois	6.39	5.94	6.23	6.20	5.03	5.22	5.83
Indiana	7.17	5.80	6.20	5.94	4.99	5.28	5.36
Iowa	5.04	NA	5.12	5.20	4.70	5.15	4.68
Kansas	4.68	4.96	6.60	6.41	3.69	5.27	4.54
Kentucky	4.47	4.39	4.95	5.20	3.77	4.49	4.29
Louisiana	3.23	3.69	4.68	4.64	3.11	3.80	4.12
Maine	9.28	9.27	9.35	9.33	7.68	9.37	8.83
Maryland	11.62	8.59	9.90	9.57	8.80	8.98	9.48
Massachusetts	8.23	8.12	8.39	8.18	7.40	8.41	8.15
Michigan	6.15	5.93	6.04	5.81	5.75	5.63	5.55
Minnesota	4.38	4.41	4.84	5.13	4.19	4.65	4.35
Mississippi	4.69	NA	NA	5.55	4.35	4.71	4.82
Missouri	6.56	7.08	7.25	7.00	6.29	6.97	6.70
Montana	5.71	6.47	6.56	6.22	5.68	5.78	5.57
Nebraska	4.39	NA	5.31	4.80	4.04	4.51	4.25
Nevada	4.61	4.47	4.38	4.36	5.90	4.60	5.07
New Hampshire	8.88	9.13	10.27	10.13	8.59	10.11	9.06
New Jersey	6.94	NA	NA	NA	6.59	7.29	7.24
New Mexico	4.12	4.48	5.28	4.97	4.18	4.86	4.30
New York	7.67	7.32	7.28	6.75	5.92	6.11	5.69
North Carolina	6.50	6.49	6.81	6.82	5.43	6.12	5.46
North Dakota	2.89	2.67	3.46	3.96	2.62	3.45	2.86
Ohio	NA	NA	5.28	5.53	4.81	4.95	5.45
Oklahoma	7.79	6.47	5.72	4.90	8.04	6.46	10.13
Oregon	5.41	5.56	5.52	5.37	5.73	5.71	5.82
Pennsylvania	8.64	7.98	7.88	7.75	7.40	7.75	8.36
Rhode Island	8.67	8.39	8.34	8.06	8.70	8.00	8.83
South Carolina	4.88	4.51	5.19	5.84	4.20	5.30	4.77
South Dakota	4.64	5.07	5.40	5.33	4.78	4.78	4.94
Tennessee	5.09	5.20	5.79	5.95	4.44	5.31	4.80
Texas	3.33	2.81	3.43	3.84	2.65	3.35	2.93
Utah	5.70	5.87	5.98	6.03	5.52	5.89	5.17
Vermont	5.04	5.34	5.67	6.02	5.20	5.68	5.20
Virginia	4.92	4.72	5.67	5.43	4.42	4.79	4.46
Washington	7.52	7.36	7.59	7.20	7.47	7.38	7.24
West Virginia	2.26	2.46	2.69	2.43	2.43	2.52	2.40
Wisconsin	5.83	5.34	5.55	6.33	5.05	5.65	5.35
Wyoming	4.25	4.38	4.53	NA	3.96	4.58	4.64
<b>Total</b>	<b>4.17</b>	<b>3.98</b>	<b>4.59</b>	<b>4.90</b>	<b>3.52</b>	<b>4.32</b>	<b>3.87</b>

See footnotes at end of table.

**Table 22. Average price of natural gas sold to industrial consumers, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2016						
	October	September	August	July	June	May	April
Alabama	4.24	4.11	3.82	3.98	3.34	2.97	3.22
Alaska	4.53	4.45	5.64	5.17	4.58	3.69	6.36
Arizona	5.61	5.56	5.98	5.81	4.97	5.64	5.70
Arkansas	5.80	5.76	5.81	5.33	5.21	5.27	5.31
California	7.27	7.35	6.91	6.30	5.79	5.84	5.70
Colorado	6.08	6.12	6.31	6.17	5.46	4.25	4.36
Connecticut	5.97	6.06	6.15	6.17	6.03	6.56	6.82
Delaware	10.32	11.86	10.24	8.94	8.72	8.57	7.81
District of Columbia	--	--	--	--	--	--	--
Florida	6.14	5.34	5.77	5.45	5.30	5.20	5.72
Georgia	4.44	4.46	4.35	4.24	3.62	3.58	3.53
Hawaii	15.85	15.65	16.04	16.51	16.92	15.05	14.45
Idaho	4.63	5.41	5.46	5.43	5.46	5.44	5.51
Illinois	5.72	6.07	7.16	6.99	5.49	4.45	4.94
Indiana	5.06	5.90	6.11	5.89	5.13	4.22	4.52
Iowa	4.94	4.96	4.33	4.66	4.44	4.07	4.44
Kansas	3.63	3.69	3.55	3.48	3.31	3.39	3.44
Kentucky	4.17	3.99	3.67	4.01	2.99	3.36	2.95
Louisiana	3.54	3.37	3.18	3.41	2.50	2.58	2.51
Maine	5.99	6.23	5.99	5.58	5.54	5.78	8.46
Maryland	10.70	9.98	12.51	13.82	9.81	7.36	7.57
Massachusetts	7.11	6.06	6.33	6.30	6.13	7.25	7.49
Michigan	6.11	6.05	6.00	6.38	5.98	5.75	5.54
Minnesota	4.28	4.21	4.19	4.41	3.70	3.60	3.50
Mississippi	4.59	4.51	4.49	3.87	3.85	3.72	4.00
Missouri	6.04	6.12	6.36	7.00	6.03	5.53	6.02
Montana	5.47	5.69	6.35	4.86	6.21	4.85	5.43
Nebraska	4.00	4.08	3.97	3.67	3.35	3.27	3.77
Nevada	5.21	5.88	5.80	6.52	6.11	6.00	6.22
New Hampshire	7.58	8.06	8.21	8.24	7.14	7.48	7.90
New Jersey	6.42	6.95	7.78	7.74	6.53	5.61	5.14
New Mexico	4.72	4.54	4.29	3.93	3.50	3.39	3.46
New York	5.56	5.30	5.70	5.56	5.55	5.72	5.88
North Carolina	5.26	5.26	5.20	5.15	5.09	5.11	5.33
North Dakota	2.91	2.87	3.76	3.03	2.13	1.95	2.13
Ohio	6.07	6.43	6.47	6.76	5.58	5.33	4.25
Oklahoma	8.57	13.29	12.53	10.45	11.08	9.67	8.54
Oregon	5.74	5.65	5.72	5.58	5.76	5.72	5.79
Pennsylvania	8.46	8.65	5.79	9.17	8.04	8.25	6.75
Rhode Island	9.01	9.16	9.22	8.91	8.76	8.91	8.77
South Carolina	4.48	4.37	4.24	4.46	3.58	3.56	3.22
South Dakota	5.09	6.12	6.01	5.20	4.78	4.33	4.10
Tennessee	4.70	4.49	4.36	4.42	3.68	3.80	3.83
Texas	3.22	3.15	3.02	2.98	2.16	2.14	2.08
Utah	4.96	4.93	5.00	5.02	5.10	5.14	5.68
Vermont	5.13	5.14	5.31	5.61	4.97	5.13	4.93
Virginia	4.41	4.46	4.55	4.16	4.31	4.08	3.78
Washington	7.20	7.33	7.77	7.76	8.16	7.33	7.38
West Virginia	2.52	2.33	2.26	2.30	2.40	2.28	2.17
Wisconsin	4.64	4.61	4.29	4.65	3.45	3.98	5.06
Wyoming	4.27	3.93	3.94	3.60	3.66	3.71	3.65
<b>Total</b>	<b>3.88</b>	<b>3.74</b>	<b>3.59</b>	<b>3.58</b>	<b>2.89</b>	<b>2.90</b>	<b>3.01</b>

See footnotes at end of table.

**Table 22. Average price of natural gas sold to industrial consumers, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2016		
	March	February	January
Alabama	3.21	3.66	3.65
Alaska	6.75	6.74	4.88
Arizona	5.91	6.22	6.51
Arkansas	5.83	5.67	5.94
California	6.67	6.90	6.56
Colorado	4.95	4.50	4.21
Connecticut	5.82	5.69	6.08
Delaware	8.24	7.93	8.09
District of Columbia	--	--	--
Florida	6.28	6.11	6.36
Georgia	3.54	4.04	4.11
Hawaii	13.73	14.45	16.17
Idaho	5.46	5.46	5.41
Illinois	4.74	4.54	4.29
Indiana	4.81	4.98	4.47
Iowa	4.86	4.36	5.01
Kansas	4.29	6.25	6.75
Kentucky	3.47	3.80	3.96
Louisiana	2.41	2.95	3.09
Maine	8.50	8.51	8.45
Maryland	8.55	8.46	8.31
Massachusetts	7.43	7.78	7.64
Michigan	5.57	5.89	5.73
Minnesota	3.89	4.35	4.40
Mississippi	4.28	4.52	4.59
Missouri	6.10	6.28	6.06
Montana	5.54	6.30	5.90
Nebraska	4.32	4.32	4.41
Nevada	6.75	6.66	6.50
New Hampshire	7.97	8.96	9.60
New Jersey	6.90	6.25	6.44
New Mexico	3.76	4.06	4.25
New York	6.20	6.24	6.23
North Carolina	5.70	5.61	5.34
North Dakota	2.14	2.89	2.48
Ohio	4.10	4.17	4.36
Oklahoma	5.94	5.73	10.52
Oregon	5.84	5.78	5.61
Pennsylvania	7.24	6.84	7.09
Rhode Island	8.40	8.44	8.61
South Carolina	3.58	4.21	4.83
South Dakota	4.50	4.51	4.83
Tennessee	4.28	4.77	4.69
Texas	1.88	2.39	2.45
Utah	5.97	6.44	6.08
Vermont	4.96	5.17	5.14
Virginia	4.39	4.48	4.79
Washington	7.47	7.72	7.38
West Virginia	2.59	2.69	2.47
Wisconsin	4.95	5.46	5.76
Wyoming	3.68	3.82	3.95
<b>Total</b>	<b>3.05</b>	<b>3.64</b>	<b>3.62</b>

<sup>R</sup> Revised data.

-- Not applicable.

<sup>NA</sup> Not available.

**Notes:** Geographic coverage is the 50 states and the District of Columbia. Average prices for gas delivered to industrial consumers reflect onsystem sales prices only. Published prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges. Prices are in nominal dollars. See Appendix A, Explanatory Note 8, for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of total residential, total commercial, and total industrial deliveries.

**Sources:** Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

**Table 23. Average price of natural gas sold to electric power<sup>a</sup> consumers, by state, 2016-2018**  
(dollars per thousand cubic feet)

State	2018 2-Month YTD	2017 2-Month YTD	2016 2-Month YTD	2018		2017	
				February	January	Total	December
Alabama	W	W	W	W	W	W	W
Alaska	8.44	8.09	6.45	8.44	8.44	8.10	8.13
Arizona	W	W	W	3.33	W	W	W
Arkansas	W	W	W	W	W	W	W
California	3.76	W	2.98	3.72	3.79	W	W
Colorado	W	W	W	W	W	W	W
Connecticut	9.44	7.09	5.88	7.69	11.06	4.19	W
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	4.66	W	W	W	4.31	4.58
Georgia	W	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--	--
Idaho	3.32	--	2.48	3.32	--	--	--
Illinois	W	W	W	W	W	3.11	W
Indiana	W	W	W	W	W	W	W
Iowa	3.47	5.02	2.77	2.65	4.17	3.47	5.61
Kansas	3.95	4.88	4.24	3.46	4.32	3.63	4.27
Kentucky	W	W	W	W	W	3.77	W
Louisiana	W	W	W	W	4.26	W	W
Maine	W	W	W	W	W	W	W
Maryland	W	4.77	4.90	W	W	3.71	4.89
Massachusetts	W	W	4.09	W	14.30	3.75	8.72
Michigan	3.54	3.44	2.51	2.99	3.97	3.26	3.09
Minnesota	W	4.12	W	W	W	3.50	3.16
Mississippi	W	W	W	W	W	W	W
Missouri	W	3.25	W	W	W	3.04	2.97
Montana	1.95	2.31	--	1.82	2.06	1.80	1.98
Nebraska	5.95	5.91	3.14	4.74	6.76	4.16	5.97
Nevada	3.38	4.11	2.89	3.39	3.37	3.51	3.47
New Hampshire	W	W	W	W	W	W	W
New Jersey	5.35	3.87	2.93	3.07	7.90	3.02	5.39
New Mexico	3.60	3.86	2.75	3.06	4.18	3.59	3.67
New York	6.98	5.01	3.60	5.50	8.21	3.44	5.12
North Carolina	W	W	W	W	W	W	W
North Dakota	16.02	5.68	2.34	16.91	15.38	5.92	7.74
Ohio	3.33	3.56	2.10	2.95	3.63	3.05	3.00
Oklahoma	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W
Pennsylvania	4.64	3.69	2.52	3.36	5.92	2.58	3.93
Rhode Island	W	W	W	W	W	W	W
South Carolina	W	W	W	3.68	W	W	W
South Dakota	--	--	2.30	--	--	--	--
Tennessee	3.46	3.46	2.46	3.17	3.61	3.03	3.02
Texas	3.55	3.31	2.37	2.90	4.09	3.13	2.95
Utah	W	W	W	W	W	W	W
Vermont	--	--	--	--	--	--	--
Virginia	W	W	W	W	W	3.49	W
Washington	W	5.16	W	W	W	4.16	4.13
West Virginia	W	W	2.14	W	W	2.50	W
Wisconsin	3.69	W	W	3.38	3.99	3.34	3.04
Wyoming	W	W	10.32	W	W	3.57	3.10
<b>Total</b>	<b>4.61</b>	<b>4.06</b>	<b>3.01</b>	<b>3.74</b>	<b>5.35</b>	<b>3.52</b>	<b>3.81</b>

See footnotes at end of table.

**Table 23. Average price of natural gas sold to electric power<sup>a</sup> consumers, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2017						
	November	October	September	August	July	June	May
Alabama	W	W	W	W	W	W	W
Alaska	8.13	8.09	8.09	8.09	8.09	8.09	8.09
Arizona	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W
California	W	W	W	W	W	W	W
Colorado	W	W	W	W	W	W	W
Connecticut	4.17	2.86	2.67	W	W	W	W
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	4.38	W	W	W	W	4.33	W
Georgia	W	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Illinois	W	W	W	W	3.23	3.06	W
Indiana	W	W	W	W	W	W	W
Iowa	3.18	2.76	2.87	2.80	2.92	2.74	2.84
Kansas	3.52	3.24	3.65	3.44	3.22	3.43	4.10
Kentucky	W	W	W	W	W	W	W
Louisiana	W	W	W	W	W	W	W
Maine	--	W	W	W	W	W	--
Maryland	3.28	3.21	3.00	3.27	3.44	3.25	3.37
Massachusetts	W	W	2.29	2.42	2.58	2.65	3.36
Michigan	3.30	3.11	3.29	3.23	3.21	3.22	3.44
Minnesota	W	W	W	W	W	W	W
Mississippi	W	W	W	W	W	W	W
Missouri	2.73	2.68	3.10	3.19	3.07	3.22	3.40
Montana	1.91	0.72	1.49	1.52	1.52	2.10	2.49
Nebraska	4.89	4.02	4.12	3.64	3.48	3.51	4.03
Nevada	3.40	3.14	3.35	3.27	3.29	3.48	3.49
New Hampshire	W	W	W	W	W	W	W
New Jersey	2.95	1.63	2.04	2.19	2.44	2.42	3.24
New Mexico	3.69	3.36	3.45	3.50	3.53	3.51	3.69
New York	3.40	2.33	2.36	2.56	2.75	2.96	3.29
North Carolina	W	W	W	W	W	W	W
North Dakota	5.43	8.67	4.98	6.35	6.14	4.36	4.37
Ohio	2.94	2.89	2.81	2.76	2.91	3.06	3.22
Oklahoma	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W
Pennsylvania	2.37	1.47	1.71	2.03	2.27	2.39	3.00
Rhode Island	W	W	W	W	W	W	W
South Carolina	W	W	W	W	W	W	W
South Dakota	--	--	--	--	--	--	--
Tennessee	2.92	2.88	2.99	2.86	2.93	3.07	2.96
Texas	3.10	3.11	3.11	3.03	3.11	3.17	3.29
Utah	W	W	W	W	W	W	W
Vermont	--	--	--	--	--	--	--
Virginia	W	W	2.67	2.94	3.09	3.10	3.59
Washington	4.39	3.70	3.94	3.62	4.03	5.16	3.85
West Virginia	W	W	W	W	W	W	W
Wisconsin	3.39	3.16	3.23	3.16	W	W	W
Wyoming	3.69	W	W	W	W	W	W
<b>Total</b>	<b>3.50</b>	<b>3.27</b>	<b>3.31</b>	<b>3.27</b>	<b>3.32</b>	<b>3.41</b>	<b>3.61</b>

See footnotes at end of table.

**Table 23. Average price of natural gas sold to electric power<sup>a</sup> consumers, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2017				2016		
	April	March	February	January	Total	December	November
Alabama	W	W	W	W	W	W	W
Alaska	8.09	8.09	8.09	8.09	6.65	7.21	6.91
Arizona	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W
California	W	W	W	W	3.22	4.05	3.27
Colorado	W	W	W	W	W	W	W
Connecticut	W	W	5.84	8.10	3.67	5.49	3.34
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.59	4.02	4.38	4.92	3.86	W	W
Georgia	W	W	W	W	3.08	W	3.15
Hawaii	--	--	--	--	--	--	--
Idaho	--	--	--	--	2.92	4.05	4.66
Illinois	W	W	W	W	2.88	W	W
Indiana	W	W	W	W	W	W	W
Iowa	2.85	4.71	4.85	5.12	2.81	3.83	3.02
Kansas	3.88	3.52	4.82	4.92	3.48	5.05	3.28
Kentucky	W	W	5.96	W	W	W	W
Louisiana	W	W	W	W	2.76	W	W
Maine	W	W	W	W	W	W	--
Maryland	3.40	4.90	4.25	5.50	2.97	4.98	3.67
Massachusetts	3.47	4.35	W	W	3.22	7.03	4.59
Michigan	3.45	3.16	3.18	3.63	2.81	3.93	2.77
Minnesota	3.40	W	3.49	4.49	W	W	W
Mississippi	W	W	W	W	W	W	W
Missouri	3.03	2.59	3.05	3.43	W	W	W
Montana	2.22	2.09	2.25	2.36	--	--	--
Nebraska	4.37	5.17	6.48	5.61	3.31	4.75	3.17
Nevada	3.74	3.60	3.80	4.37	3.02	3.77	3.35
New Hampshire	W	W	W	W	W	W	W
New Jersey	3.34	3.45	3.64	4.06	2.20	4.01	2.45
New Mexico	3.85	3.27	3.65	4.02	3.07	4.21	3.06
New York	3.39	4.26	4.54	5.41	2.76	5.47	2.95
North Carolina	W	W	W	W	W	W	W
North Dakota	4.42	5.52	4.80	6.31	2.74	3.58	2.74
Ohio	3.28	2.93	3.26	3.84	2.36	3.41	2.32
Oklahoma	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W
Pennsylvania	3.00	2.86	3.21	4.12	1.95	3.52	2.10
Rhode Island	W	W	W	W	W	W	W
South Carolina	W	W	W	W	W	W	W
South Dakota	--	--	--	--	2.62	3.92	2.50
Tennessee	3.04	3.00	3.09	3.82	2.61	3.44	2.84
Texas	3.22	3.02	3.13	3.47	2.67	3.44	2.71
Utah	W	W	W	W	W	W	W
Vermont	--	--	--	--	--	--	--
Virginia	3.67	W	W	W	W	W	W
Washington	3.67	3.74	5.57	4.95	W	W	W
West Virginia	3.36	W	W	W	W	5.87	2.83
Wisconsin	W	W	W	W	W	W	W
Wyoming	W	10.87	W	4.04	8.29	8.65	12.43
<b>Total</b>	<b>3.50</b>	<b>3.52</b>	<b>3.74</b>	<b>4.33</b>	<b>2.99</b>	<b>4.16</b>	<b>3.14</b>

See footnotes at end of table.

**Table 23. Average price of natural gas sold to electric power<sup>a</sup> consumers, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2016						
	October	September	August	July	June	May	April
Alabama	W	W	W	W	W	W	W
Alaska	6.86	6.52	6.49	6.81	7.10	6.43	6.47
Arizona	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W
California	3.43	3.59	3.45	3.48	2.98	W	2.47
Colorado	W	W	W	W	W	W	W
Connecticut	2.45	2.92	3.09	3.13	2.33	2.39	2.74
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	3.95	3.72	3.43	W	W
Georgia	3.59	3.59	3.33	3.30	3.03	2.44	2.40
Hawaii	--	--	--	--	--	--	--
Idaho	4.78	3.38	2.89	2.83	2.47	2.41	11.72
Illinois	3.18	3.29	3.07	3.05	W	2.25	2.24
Indiana	W	W	W	W	W	W	W
Iowa	3.00	3.00	2.94	2.83	2.63	2.10	2.61
Kansas	3.96	3.52	3.53	3.26	3.07	3.15	3.16
Kentucky	W	W	W	W	W	W	W
Louisiana	W	W	W	3.08	2.63	W	W
Maine	W	W	W	W	W	W	W
Maryland	2.75	2.47	2.97	2.94	3.01	2.50	2.40
Massachusetts	3.36	2.97	3.18	2.86	2.34	2.11	2.99
Michigan	3.19	3.32	3.12	3.04	2.75	2.28	2.31
Minnesota	W	W	W	W	W	W	W
Mississippi	W	W	W	W	W	W	W
Missouri	W	W	W	W	W	W	W
Montana	--	--	--	--	--	--	--
Nebraska	3.54	3.70	3.48	3.41	3.32	2.77	2.44
Nevada	3.46	3.39	3.23	3.38	2.57	2.54	2.40
New Hampshire	W	W	W	W	W	W	W
New Jersey	1.86	1.70	1.92	2.09	2.13	1.95	1.76
New Mexico	3.30	3.43	3.30	3.31	2.87	2.47	2.69
New York	1.98	2.18	2.54	2.75	2.38	2.12	2.36
North Carolina	W	W	W	W	W	W	W
North Dakota	3.10	3.07	2.98	2.88	2.63	2.04	2.09
Ohio	2.30	2.59	2.55	2.80	2.32	2.03	2.01
Oklahoma	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W
Pennsylvania	1.29	1.51	1.68	1.86	1.90	1.65	1.61
Rhode Island	W	W	W	2.92	W	2.23	W
South Carolina	W	W	W	W	W	W	W
South Dakota	3.38	3.39	2.94	2.87	2.53	2.10	2.07
Tennessee	3.15	2.91	2.69	2.74	2.37	1.96	1.96
Texas	3.24	3.13	2.94	2.95	2.62	2.17	2.14
Utah	W	W	W	W	W	W	W
Vermont	--	--	--	--	--	--	--
Virginia	W	W	W	W	W	W	W
Washington	W	W	W	W	W	W	W
West Virginia	1.69	1.97	W	3.21	2.00	2.03	2.12
Wisconsin	W	W	W	W	W	W	W
Wyoming	4,893.63	10.24	5.57	--	17.60	12.15	5.88
<b>Total</b>	<b>3.24</b>	<b>3.19</b>	<b>3.07</b>	<b>3.07</b>	<b>2.77</b>	<b>2.49</b>	<b>2.52</b>

See footnotes at end of table.

**Table 23. Average price of natural gas sold to electric power<sup>a</sup> consumers, by state, 2016-2018**  
(dollars per thousand cubic feet) – continued

State	2016		
	March	February	January
Alabama	W	W	W
Alaska	6.34	6.43	6.47
Arizona	W	W	W
Arkansas	W	W	W
California	2.59	2.85	3.08
Colorado	W	W	W
Connecticut	4.63	5.63	6.12
Delaware	--	--	--
District of Columbia	--	--	--
Florida	W	W	W
Georgia	2.23	W	W
Hawaii	--	--	--
Idaho	2.26	2.25	2.67
Illinois	2.31	W	W
Indiana	W	W	W
Iowa	2.23	2.57	2.96
Kansas	2.84	4.22	4.26
Kentucky	W	3.35	W
Louisiana	W	W	W
Maine	W	W	W
Maryland	2.69	5.64	3.59
Massachusetts	1.99	3.46	4.73
Michigan	2.14	2.37	2.66
Minnesota	W	W	W
Mississippi	W	W	W
Missouri	W	W	W
Montana	--	--	--
Nebraska	2.34	2.81	3.52
Nevada	2.30	2.78	2.98
New Hampshire	W	W	W
New Jersey	1.62	2.83	3.02
New Mexico	2.56	2.57	2.91
New York	2.22	3.41	3.76
North Carolina	W	W	W
North Dakota	1.90	2.22	2.45
Ohio	1.63	2.00	2.20
Oklahoma	W	W	W
Oregon	W	W	W
Pennsylvania	1.43	2.33	2.70
Rhode Island	W	W	W
South Carolina	W	W	W
South Dakota	1.82	2.08	2.57
Tennessee	2.05	2.33	2.58
Texas	1.91	2.19	2.53
Utah	W	W	2.81
Vermont	--	--	--
Virginia	W	W	W
Washington	W	W	W
West Virginia	1.92	2.07	2.22
Wisconsin	W	W	W
Wyoming	4.39	7.69	13.31
<b>Total</b>	<b>2.33</b>	<b>2.83</b>	<b>3.17</b>

<sup>a</sup> The electric power sector comprises electricity-only (utilities and independent power producers) and combined-heat-and-power plants within the NAICS 22 sector, whose primary business is to sell electricity, or electricity and heat, to the public.

-- Not applicable.

<sup>w</sup> Withheld.

**Notes:** Geographic coverage is the 50 states and the District of Columbia. Prices are in nominal dollars.

**Sources:** Energy Information Administration (EIA): Form EIA-923, "Power Plant Operations Report."

**Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2016-2018**

State	2018 2-Month YTD			2017 2-Month YTD			2016 2-Month YTD		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	85.0	27.1	100.0	81.3	27.0	100.0	81.6	25.5
Alaska	100.0	99.3	100.0	100.0	99.1	100.0	100.0	99.1	100.0
Arizona	100.0	NA	12.5	NA	85.5	13.9	100.0	86.6	13.7
Arkansas	100.0	54.7	NA	100.0	49.7	1.7	100.0	50.2	1.7
California	95.3	54.7	4.6	NA	56.7	4.9	95.1	53.9	4.9
Colorado	100.0	NA	8.6	100.0	94.6	9.0	100.0	95.3	9.9
Connecticut	96.7	80.7	52.1	96.6	78.4	51.9	96.6	80.1	51.0
Delaware	NA	NA	NA	100.0	44.7	0.6	100.0	45.7	0.4
District of Columbia	77.1	NA	0.0	NA	22.5	0.0	73.9	21.6	--
Florida	92.6	32.6	4.5	91.5	31.0	3.6	92.2	32.2	3.6
Georgia	100.0	100.0	25.6	100.0	100.0	25.6	100.0	100.0	21.1
Hawaii	100.0	100.0	NA	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	NA	2.7	100.0	85.3	2.9	100.0	82.0	2.3
Illinois	86.6	39.9	NA	86.0	38.5	9.1	87.1	40.6	9.7
Indiana	96.1	69.7	NA	95.8	68.0	2.6	96.0	71.0	2.9
Iowa	100.0	NA	NA	100.0	74.1	3.7	100.0	76.0	4.1
Kansas	100.0	66.2	1.4	100.0	58.9	1.4	100.0	60.6	0.9
Kentucky	96.8	83.8	NA	96.5	82.1	18.0	96.8	83.4	17.4
Louisiana	100.0	83.8	NA	100.0	NA	3.2	100.0	80.0	3.5
Maine	100.0	NA	NA	100.0	64.0	10.8	100.0	60.8	11.6
Maryland	75.6	32.4	NA	74.3	31.3	8.3	74.2	30.0	8.3
Massachusetts	NA	NA	33.2	98.5	52.6	29.3	99.1	54.0	28.1
Michigan	93.7	62.5	NA	93.2	61.5	9.9	93.0	60.6	9.8
Minnesota	100.0	90.8	22.1	100.0	91.5	19.9	100.0	87.6	19.7
Mississippi	99.5	89.4	9.8	100.0	86.5	NA	100.0	88.4	10.2
Missouri	100.0	80.8	19.1	100.0	NA	16.2	100.0	77.9	15.4
Montana	99.5	53.3	2.1	99.4	55.7	2.7	99.7	54.1	2.0
Nebraska	88.3	60.4	7.4	87.6	60.0	8.5	88.1	61.0	8.9
Nevada	100.0	65.6	18.1	100.0	69.2	19.3	100.0	68.7	19.4
New Hampshire	100.0	58.9	NA	100.0	56.6	6.9	100.0	57.4	8.7
New Jersey	95.1	46.2	NA	94.5	NA	NA	94.2	46.9	10.0
New Mexico	100.0	62.6	3.8	100.0	60.6	5.0	100.0	62.0	4.6
New York	100.0	100.0	8.3	100.0	100.0	7.8	100.0	100.0	7.7
North Carolina	100.0	89.4	NA	100.0	86.2	13.2	100.0	88.8	13.1
North Dakota	100.0	94.5	38.4	100.0	94.3	32.9	100.0	94.5	28.5
Ohio	100.0	100.0	NA	100.0	100.0	2.9	100.0	100.0	3.5
Oklahoma	100.0	53.7	NA	100.0	53.1	1.7	100.0	51.6	1.0
Oregon	100.0	NA	17.0	100.0	95.5	17.1	100.0	95.1	16.2
Pennsylvania	87.0	40.9	NA	NA	40.5	1.8	87.4	42.2	1.8
Rhode Island	100.0	55.5	4.1	100.0	54.1	NA	100.0	54.8	3.7
South Carolina	100.0	NA	41.3	100.0	92.5	41.8	100.0	94.2	40.3
South Dakota	100.0	83.9	6.0	100.0	84.4	6.7	100.0	83.5	6.7
Tennessee	100.0	93.1	NA	100.0	91.3	24.4	100.0	91.8	29.2
Texas	NA	80.1	36.2	NA	NA	NA	99.8	78.3	39.9
Utah	100.0	75.3	2.9	100.0	79.1	4.1	100.0	81.9	6.1
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	NA	NA	13.0	89.5	56.9	11.2	90.5	58.6	12.1
Washington	100.0	86.5	7.5	100.0	88.8	8.8	100.0	87.7	7.9
West Virginia	100.0	64.9	7.8	100.0	61.0	7.5	100.0	64.6	11.1
Wisconsin	100.0	79.3	21.5	100.0	78.1	20.4	100.0	78.3	20.4
Wyoming	68.9	48.6	2.5	71.4	50.4	NA	71.1	50.9	2.2
<b>Total</b>	<b>96.1</b>	<b>70.3</b>	<b>14.9</b>	<b>95.9</b>	<b>69.8</b>	<b>15.0</b>	<b>95.9</b>	<b>69.9</b>	<b>15.3</b>

See footnotes at end of table.

**Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2016-2018 – continued**

State	2018						2017		
	February			January			Total		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	86.8	26.7	100.0	83.6	27.4	NA	NA	26.9
Alaska	100.0	99.3	100.0	100.0	99.2	100.0	100.0	98.4	100.0
Arizona	100.0	NA	12.7	100.0	NA	12.4	NA	NA	13.7
Arkansas	100.0	54.5	2.3	100.0	54.9	NA	93.6	NA	1.6
California	95.4	55.3	5.1	95.2	54.1	4.2	NA	52.6	4.1
Colorado	100.0	NA	8.7	100.0	NA	8.6	100.0	93.8	NA
Connecticut	96.4	80.5	52.0	96.9	80.8	52.2	96.2	76.6	NA
Delaware	100.0	49.0	NA	NA	NA	0.7	100.0	NA	NA
District of Columbia	77.4	22.3	0.0	76.9	NA	0.0	NA	NA	0.0
Florida	92.5	32.0	5.2	92.7	33.0	3.9	NA	NA	3.5
Georgia	100.0	100.0	24.8	100.0	100.0	26.3	100.0	100.0	25.8
Hawaii	100.0	100.0	100.0	100.0	100.0	NA	100.0	100.0	100.0
Idaho	100.0	NA	2.7	100.0	82.7	2.7	100.0	76.9	NA
Illinois	86.1	38.6	NA	87.0	41.0	10.2	NA	34.1	NA
Indiana	96.0	69.0	2.6	96.3	70.2	NA	NA	66.1	1.7
Iowa	100.0	NA	NA	100.0	70.7	3.1	100.0	68.4	NA
Kansas	100.0	64.8	1.5	100.0	67.5	1.3	NA	NA	6.7
Kentucky	96.6	83.2	NA	96.9	84.2	17.3	97.0	78.0	18.3
Louisiana	100.0	84.2	3.9	100.0	83.4	NA	100.0	NA	3.2
Maine	100.0	NA	NA	100.0	68.2	10.3	100.0	59.3	9.2
Maryland	74.6	29.8	NA	76.4	34.5	9.2	NA	NA	NA
Massachusetts	NA	NA	31.7	NA	NA	34.5	98.3	NA	NA
Michigan	93.6	61.4	NA	93.7	63.3	10.5	93.5	56.3	6.1
Minnesota	100.0	90.6	22.7	100.0	91.1	21.5	100.0	88.1	NA
Mississippi	100.0	88.0	10.4	99.1	90.6	9.2	92.0	83.5	NA
Missouri	100.0	79.3	19.0	100.0	82.2	19.2	100.0	NA	12.3
Montana	99.5	50.9	2.3	99.5	55.5	2.0	99.4	49.7	NA
Nebraska	88.0	59.6	7.5	88.6	61.1	7.3	87.5	54.7	NA
Nevada	100.0	64.3	18.4	100.0	66.8	18.0	100.0	59.1	14.5
New Hampshire	100.0	58.6	NA	100.0	59.1	NA	100.0	54.0	5.5
New Jersey	95.1	41.9	NA	95.0	49.8	NA	94.7	NA	NA
New Mexico	100.0	65.5	4.6	100.0	60.2	3.1	NA	NA	NA
New York	100.0	100.0	8.3	100.0	100.0	8.4	NA	100.0	NA
North Carolina	100.0	83.8	15.0	100.0	92.3	NA	100.0	NA	10.8
North Dakota	100.0	94.2	38.8	100.0	94.7	38.0	100.0	92.7	34.2
Ohio	100.0	100.0	NA	100.0	100.0	NA	NA	100.0	NA
Oklahoma	100.0	54.0	NA	100.0	53.5	1.2	100.0	40.8	0.7
Oregon	100.0	NA	17.4	100.0	95.1	16.5	100.0	94.6	15.3
Pennsylvania	86.9	39.5	NA	87.1	42.0	2.5	NA	NA	NA
Rhode Island	100.0	53.7	4.1	100.0	57.2	4.2	100.0	52.8	NA
South Carolina	100.0	92.5	43.9	100.0	NA	38.6	100.0	91.4	40.8
South Dakota	100.0	83.6	6.0	100.0	84.1	6.0	100.0	80.9	4.3
Tennessee	100.0	93.0	24.4	100.0	93.2	NA	100.0	87.2	NA
Texas	100.0	78.1	35.7	NA	81.9	36.6	NA	NA	NA
Utah	100.0	73.0	2.8	100.0	77.2	3.0	100.0	72.6	4.1
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	NA	100.0
Virginia	90.4	53.1	11.3	NA	NA	14.9	NA	NA	NA
Washington	100.0	83.9	7.3	100.0	89.0	7.7	100.0	NA	6.4
West Virginia	100.0	63.1	8.2	100.0	66.2	7.5	NA	51.7	7.8
Wisconsin	100.0	78.5	20.6	100.0	80.0	22.2	100.0	71.9	16.4
Wyoming	68.9	48.9	2.7	68.9	48.4	2.2	71.9	51.4	NA
<b>Total</b>	<b>96.0</b>	<b>69.1</b>	<b>14.8</b>	<b>96.1</b>	<b>71.3</b>	<b>15.0</b>	<b>95.9</b>	<b>65.4</b>	<b>14.5</b>

See footnotes at end of table.

**Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2016-2018 – continued**

State	2017								
	December			November			October		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	76.3	27.6	100.0	72.2	27.9	100.0	68.7	28.6
Alaska	100.0	99.3	100.0	100.0	98.7	100.0	100.0	96.7	100.0
Arizona	100.0	80.8	13.4	100.0	78.8	14.0	100.0	77.7	12.8
Arkansas	100.0	39.3	2.0	100.0	30.8	1.8	100.0	NA	1.3
California	95.4	54.7	4.5	95.3	51.1	3.9	95.0	48.4	4.4
Colorado	100.0	95.6	9.1	100.0	94.7	8.3	100.0	94.0	NA
Connecticut	96.6	78.9	52.8	95.5	76.5	49.6	95.1	72.8	49.1
Delaware	100.0	NA	NA	100.0	30.6	NA	100.0	23.7	0.2
District of Columbia	74.5	20.3	0.0	73.8	NA	0.0	70.8	15.4	0.0
Florida	91.4	32.8	3.7	90.2	30.6	3.9	92.0	27.7	3.2
Georgia	100.0	100.0	24.6	100.0	100.0	24.0	100.0	100.0	29.1
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	84.7	3.4	100.0	77.7	NA	100.0	72.8	2.5
Illinois	92.1	37.8	9.8	87.9	36.3	7.1	90.5	34.4	4.8
Indiana	96.1	72.1	2.4	96.0	67.7	2.3	95.7	67.7	1.2
Iowa	100.0	72.1	5.2	100.0	70.3	5.9	100.0	67.5	NA
Kansas	100.0	53.0	1.9	NA	51.6	2.4	100.0	35.0	2.6
Kentucky	97.6	83.4	17.0	98.0	78.6	16.9	98.7	72.7	18.8
Louisiana	100.0	78.4	3.2	100.0	75.4	3.6	100.0	76.2	3.2
Maine	100.0	63.1	10.6	100.0	53.1	9.3	100.0	45.5	7.9
Maryland	75.9	29.1	6.9	77.8	28.6	4.4	NA	21.4	NA
Massachusetts	98.0	54.4	31.2	98.2	46.5	25.9	97.9	NA	NA
Michigan	94.0	63.2	9.5	94.0	58.7	4.7	94.0	52.9	3.6
Minnesota	100.0	90.7	NA	100.0	89.6	23.4	100.0	87.6	16.8
Mississippi	100.0	86.8	8.0	100.0	82.3	9.0	100.0	82.2	8.9
Missouri	100.0	73.3	13.7	100.0	70.1	12.6	100.0	60.2	10.4
Montana	99.5	48.5	NA	99.5	47.4	NA	99.5	44.2	NA
Nebraska	87.5	57.4	6.3	86.5	53.2	NA	84.4	46.2	4.9
Nevada	100.0	64.8	19.1	100.0	57.9	16.0	100.0	50.9	14.2
New Hampshire	100.0	55.6	8.6	100.0	49.9	5.4	100.0	46.4	3.5
New Jersey	95.1	46.5	10.7	95.1	42.0	NA	94.8	33.8	NA
New Mexico	100.0	51.6	5.0	NA	NA	NA	99.9	NA	10.2
New York	100.0	100.0	6.6	100.0	100.0	4.4	NA	100.0	4.2
North Carolina	100.0	NA	12.3	100.0	86.8	10.6	100.0	84.2	9.7
North Dakota	100.0	94.1	41.4	100.0	93.7	27.5	100.0	90.0	30.1
Ohio	100.0	100.0	NA	NA	100.0	1.9	100.0	100.0	1.1
Oklahoma	100.0	37.1	1.0	100.0	33.5	0.7	100.0	23.5	0.3
Oregon	100.0	95.7	16.8	100.0	94.8	16.1	100.0	93.7	15.3
Pennsylvania	87.8	NA	NA	88.4	NA	0.7	NA	31.4	0.4
Rhode Island	100.0	54.1	3.8	100.0	53.9	3.8	100.0	51.5	3.6
South Carolina	100.0	93.5	38.5	100.0	91.7	42.4	100.0	90.8	40.4
South Dakota	100.0	83.2	8.5	100.0	81.3	5.8	100.0	77.2	2.5
Tennessee	100.0	90.3	NA	100.0	86.8	25.8	100.0	82.4	24.7
Texas	99.7	73.0	37.8	99.7	69.8	37.6	99.6	65.3	NA
Utah	100.0	75.5	3.0	100.0	68.0	3.4	100.0	67.8	3.4
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	92.3	62.4	12.1	92.3	55.5	10.5	NA	NA	8.5
Washington	100.0	91.3	7.4	100.0	89.6	6.6	100.0	86.3	5.7
West Virginia	100.0	64.2	7.5	100.0	54.5	8.4	100.0	36.4	7.9
Wisconsin	100.0	78.3	22.4	100.0	75.0	18.4	100.0	63.6	15.2
Wyoming	73.0	53.3	1.9	72.3	53.5	2.1	72.7	53.5	1.5
<b>Total</b>	<b>96.5</b>	<b>69.2</b>	<b>14.9</b>	<b>96.0</b>	<b>65.9</b>	<b>14.6</b>	<b>96.5</b>	<b>61.6</b>	<b>14.2</b>

See footnotes at end of table.

**Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2016-2018 – continued**

State	2017								
	September			August			July		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	71.3	26.6	100.0	70.9	25.8	100.0	72.5	25.7
Alaska	100.0	96.4	100.0	100.0	96.4	100.0	100.0	97.5	100.0
Arizona	100.0	77.9	14.1	100.0	NA	11.8	100.0	79.9	14.1
Arkansas	100.0	25.6	1.5	100.0	24.4	1.4	100.0	23.5	1.5
California	95.1	47.6	3.9	94.6	46.9	3.8	95.2	48.6	3.5
Colorado	100.0	90.8	6.4	100.0	91.3	5.7	100.0	90.8	5.7
Connecticut	95.5	73.4	49.6	95.4	72.2	47.3	95.2	73.0	50.1
Delaware	100.0	24.9	NA	100.0	23.3	0.1	100.0	26.4	0.1
District of Columbia	70.0	15.8	0.0	NA	16.0	0.0	66.9	20.9	0.0
Florida	NA	NA	3.8	92.4	NA	3.4	92.4	28.9	3.2
Georgia	100.0	100.0	27.3	100.0	100.0	25.7	100.0	100.0	26.5
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	64.3	2.5	100.0	63.0	2.9	100.0	54.4	2.6
Illinois	NA	21.3	NA	NA	20.6	2.9	86.1	23.8	2.4
Indiana	95.7	56.5	0.9	NA	53.1	0.9	95.4	55.1	0.8
Iowa	100.0	53.9	2.5	100.0	54.7	1.9	100.0	51.8	2.0
Kansas	100.0	25.0	11.3	100.0	25.8	16.3	100.0	25.5	18.5
Kentucky	97.6	69.0	18.2	97.7	64.7	18.1	97.5	68.1	18.5
Louisiana	100.0	78.8	3.2	100.0	76.9	3.0	100.0	76.3	3.2
Maine	100.0	45.0	6.8	100.0	43.6	7.2	100.0	43.1	8.0
Maryland	73.3	17.3	NA	72.1	17.7	NA	69.7	NA	NA
Massachusetts	97.9	29.0	20.6	97.9	30.0	22.7	98.0	30.8	23.0
Michigan	93.6	39.0	2.6	93.5	36.3	2.1	92.6	36.9	2.5
Minnesota	100.0	75.4	12.9	100.0	70.9	12.3	100.0	76.6	14.9
Mississippi	100.0	79.9	8.2	100.0	81.0	7.6	100.0	80.2	8.3
Missouri	100.0	61.1	11.1	100.0	58.4	9.1	100.0	60.6	9.3
Montana	99.5	37.9	0.8	99.4	37.3	0.9	99.3	40.0	0.7
Nebraska	88.9	43.5	5.1	89.3	42.0	3.9	89.2	42.4	5.1
Nevada	100.0	48.8	10.7	100.0	47.1	8.6	100.0	49.3	9.9
New Hampshire	100.0	45.5	3.0	100.0	46.6	3.4	100.0	46.6	2.5
New Jersey	94.7	20.5	NA	95.0	25.3	NA	94.1	28.0	NA
New Mexico	99.9	46.9	8.9	99.9	47.0	12.0	99.9	48.5	11.9
New York	100.0	100.0	4.1	100.0	100.0	4.6	100.0	100.0	NA
North Carolina	100.0	76.2	9.6	100.0	75.6	8.6	100.0	75.9	8.8
North Dakota	100.0	88.3	8.6	100.0	86.8	32.8	100.0	84.4	32.0
Ohio	100.0	100.0	0.8	100.0	100.0	1.0	100.0	100.0	0.8
Oklahoma	100.0	28.0	0.4	100.0	27.0	0.4	100.0	29.6	0.4
Oregon	100.0	92.3	14.6	100.0	92.6	13.1	100.0	92.8	13.1
Pennsylvania	87.8	28.7	0.3	87.8	28.8	0.3	87.6	27.4	NA
Rhode Island	100.0	53.5	3.2	100.0	54.4	3.1	100.0	50.7	3.4
South Carolina	100.0	89.4	40.7	100.0	89.7	40.8	100.0	90.5	38.9
South Dakota	100.0	71.3	1.7	100.0	68.1	1.9	100.0	73.1	2.3
Tennessee	100.0	80.2	22.2	100.0	79.1	22.6	100.0	80.6	21.0
Texas	99.8	63.4	38.4	99.7	62.1	39.5	99.8	62.7	39.1
Utah	100.0	58.4	3.8	100.0	55.2	4.0	100.0	60.1	4.8
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	87.0	NA	7.7	88.0	41.4	7.4	86.4	NA	NA
Washington	100.0	81.6	5.3	100.0	78.1	3.8	100.0	79.9	4.3
West Virginia	100.0	36.1	6.9	100.0	29.9	8.3	NA	30.5	6.0
Wisconsin	100.0	52.1	10.7	100.0	52.4	11.3	100.0	52.9	13.5
Wyoming	74.9	54.3	1.9	72.7	50.4	1.4	71.7	53.0	1.5
<b>Total</b>	<b>96.1</b>	<b>56.2</b>	<b>13.6</b>	<b>95.7</b>	<b>55.6</b>	<b>14.2</b>	<b>95.8</b>	<b>57.1</b>	<b>14.5</b>

See footnotes at end of table.

**Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2016-2018 – continued**

State	2017								
	June			May			April		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	NA	NA	26.3	100.0	NA	25.6	100.0	NA	27.0
Alaska	100.0	96.7	100.0	100.0	97.7	100.0	100.0	98.7	100.0
Arizona	100.0	81.4	12.6	100.0	80.4	14.6	100.0	82.0	15.1
Arkansas	30.3	25.2	1.2	100.0	NA	1.3	100.0	35.8	1.2
California	94.7	51.6	3.6	95.2	55.0	3.7	94.8	53.9	3.8
Colorado	100.0	90.6	5.4	100.0	92.4	6.2	100.0	92.7	7.6
Connecticut	95.4	72.4	47.7	95.1	72.7	49.3	96.1	76.9	NA
Delaware	100.0	29.3	0.2	100.0	32.5	0.5	100.0	43.7	NA
District of Columbia	69.8	16.0	0.0	72.0	17.5	0.0	74.7	14.7	0.0
Florida	91.9	30.2	3.4	91.1	29.7	3.4	90.5	30.6	3.8
Georgia	100.0	100.0	26.6	100.0	100.0	24.3	100.0	100.0	25.0
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	58.8	2.9	100.0	62.2	2.6	100.0	74.2	2.4
Illinois	83.8	23.0	3.0	82.3	24.9	3.8	82.8	30.1	5.0
Indiana	95.5	54.6	0.9	95.4	58.8	1.2	95.2	59.6	1.4
Iowa	100.0	52.8	1.7	100.0	61.0	1.8	100.0	64.9	2.2
Kansas	100.0	30.0	10.9	NA	NA	2.9	100.0	44.2	3.5
Kentucky	96.9	67.2	19.9	96.6	70.5	18.8	95.4	73.5	18.4
Louisiana	100.0	NA	3.4	100.0	78.3	3.1	100.0	81.4	3.3
Maine	100.0	53.2	6.4	100.0	56.2	8.7	100.0	64.6	10.3
Maryland	NA	20.0	NA	74.2	20.2	2.8	72.6	22.8	4.1
Massachusetts	98.0	36.0	24.2	98.0	40.6	NA	98.2	NA	28.1
Michigan	93.4	38.5	2.9	92.5	46.0	3.8	93.3	58.5	6.8
Minnesota	100.0	73.8	11.4	100.0	82.4	13.9	100.0	86.7	15.9
Mississippi	100.0	78.4	8.4	100.0	80.5	8.6	44.1	81.5	8.1
Missouri	100.0	62.5	9.4	100.0	65.2	10.0	100.0	71.0	13.1
Montana	99.3	43.6	1.0	99.4	49.3	1.5	99.4	50.5	2.0
Nebraska	87.8	45.2	6.9	86.9	49.2	5.6	88.1	56.0	7.2
Nevada	100.0	52.8	10.2	100.0	52.0	12.5	100.0	56.9	15.7
New Hampshire	100.0	47.7	3.6	100.0	50.8	4.1	100.0	54.9	5.9
New Jersey	94.7	30.0	NA	94.7	32.4	3.2	94.6	45.0	NA
New Mexico	100.0	52.7	8.8	100.0	52.8	6.8	100.0	53.7	NA
New York	100.0	100.0	NA	100.0	100.0	5.5	100.0	100.0	6.4
North Carolina	100.0	74.8	9.4	100.0	77.7	9.2	100.0	77.9	11.6
North Dakota	100.0	86.1	36.6	100.0	89.5	42.5	100.0	92.5	41.4
Ohio	100.0	100.0	0.7	NA	100.0	NA	100.0	100.0	NA
Oklahoma	100.0	32.1	0.3	100.0	34.9	0.5	100.0	38.7	0.5
Oregon	100.0	92.5	13.3	100.0	93.2	14.0	100.0	93.9	15.1
Pennsylvania	87.3	27.8	0.3	87.9	31.8	0.5	87.0	NA	0.9
Rhode Island	100.0	47.9	4.1	100.0	48.5	4.0	100.0	50.5	3.3
South Carolina	100.0	90.4	40.7	100.0	90.1	41.0	100.0	90.0	41.6
South Dakota	100.0	71.0	2.3	100.0	77.8	2.7	100.0	79.4	4.1
Tennessee	100.0	81.8	22.7	100.0	82.3	22.7	100.0	86.6	23.2
Texas	99.8	65.6	38.6	99.8	NA	38.1	99.8	66.4	39.2
Utah	100.0	60.5	5.1	100.0	66.1	4.8	100.0	70.9	4.3
Vermont	100.0	NA	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	86.2	41.2	7.3	NA	NA	9.8	87.5	45.3	10.9
Washington	100.0	NA	4.8	100.0	NA	5.2	100.0	86.0	7.0
West Virginia	100.0	27.9	8.3	100.0	41.3	8.5	100.0	45.8	9.9
Wisconsin	100.0	55.7	10.2	100.0	62.1	12.7	100.0	69.9	14.8
Wyoming	71.2	51.1	1.5	71.6	49.5	1.7	72.8	52.8	1.7
<b>Total</b>	<b>94.5</b>	<b>58.2</b>	<b>14.4</b>	<b>95.6</b>	<b>60.8</b>	<b>13.8</b>	<b>95.3</b>	<b>65.0</b>	<b>14.5</b>

See footnotes at end of table.

**Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2016-2018 – continued**

State	2017								
	March			February			January		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	77.9	27.4	100.0	82.0	27.1	100.0	80.7	26.9
Alaska	100.0	99.0	100.0	100.0	99.0	100.0	100.0	99.1	100.0
Arizona	100.0	82.9	13.9	NA	85.8	14.2	100.0	85.2	13.6
Arkansas	100.0	43.1	1.9	100.0	46.8	1.8	100.0	51.9	1.6
California	94.6	53.9	4.5	95.1	56.9	5.0	NA	56.6	4.8
Colorado	100.0	93.8	7.5	100.0	94.3	9.0	100.0	94.7	9.0
Connecticut	96.3	79.7	NA	96.5	76.8	51.7	96.6	79.8	52.0
Delaware	100.0	40.0	0.6	100.0	44.6	0.6	100.0	44.7	0.6
District of Columbia	75.5	22.2	0.0	NA	23.1	0.0	71.1	21.9	0.0
Florida	90.3	31.3	3.4	90.4	31.3	4.0	92.5	30.7	3.2
Georgia	100.0	100.0	26.2	100.0	100.0	26.0	100.0	100.0	25.1
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	77.0	2.5	100.0	82.5	3.2	100.0	87.0	2.7
Illinois	86.4	38.3	8.5	85.3	37.1	8.3	86.4	39.5	9.8
Indiana	95.6	68.4	2.1	95.7	66.8	2.4	95.9	68.8	2.7
Iowa	100.0	71.4	NA	100.0	73.2	3.2	100.0	74.7	4.2
Kansas	100.0	48.6	4.2	100.0	56.1	1.5	100.0	60.9	1.4
Kentucky	96.8	79.3	19.8	96.3	80.6	18.3	96.7	83.1	17.8
Louisiana	100.0	NA	3.0	100.0	NA	3.3	100.0	NA	3.1
Maine	100.0	62.8	11.3	100.0	64.6	10.6	100.0	63.4	10.9
Maryland	75.4	28.0	7.4	75.2	32.3	8.0	73.5	30.4	8.6
Massachusetts	98.5	53.9	29.4	98.5	51.6	27.9	98.5	53.6	30.5
Michigan	93.6	58.5	8.3	93.0	59.7	9.0	93.3	62.8	10.6
Minnesota	100.0	91.8	17.4	100.0	92.1	17.9	100.0	91.1	21.7
Mississippi	100.0	85.2	NA	100.0	84.9	NA	100.0	87.7	9.7
Missouri	100.0	72.6	12.6	100.0	NA	17.2	100.0	79.0	15.4
Montana	99.4	51.4	1.7	99.3	55.5	2.7	99.4	55.9	2.8
Nebraska	87.6	59.5	NA	87.6	59.4	8.5	87.7	60.4	8.5
Nevada	100.0	62.5	16.2	100.0	69.3	20.0	100.0	69.1	18.7
New Hampshire	100.0	56.9	8.6	100.0	56.3	6.8	100.0	57.0	7.0
New Jersey	94.6	48.4	NA	94.5	49.5	NA	94.4	NA	NA
New Mexico	100.0	61.2	NA	100.0	64.0	4.3	100.0	57.7	5.5
New York	100.0	100.0	7.5	100.0	100.0	7.9	100.0	100.0	7.6
North Carolina	100.0	84.9	11.8	100.0	84.4	12.4	100.0	87.4	13.9
North Dakota	100.0	94.1	38.9	100.0	94.1	28.3	100.0	94.5	36.6
Ohio	100.0	100.0	NA	100.0	100.0	3.2	100.0	100.0	2.7
Oklahoma	100.0	45.0	0.8	100.0	52.5	1.5	100.0	53.6	1.9
Oregon	100.0	94.8	16.4	100.0	95.1	16.9	100.0	95.7	17.2
Pennsylvania	88.1	39.6	1.6	87.4	39.8	1.7	NA	41.1	1.9
Rhode Island	100.0	54.1	4.0	100.0	53.5	NA	100.0	54.6	4.0
South Carolina	100.0	91.7	41.0	100.0	91.9	43.1	100.0	93.0	40.6
South Dakota	100.0	82.8	5.2	100.0	83.6	7.1	100.0	85.0	6.4
Tennessee	100.0	89.3	24.4	100.0	91.0	24.0	100.0	91.6	24.7
Texas	99.7	72.8	39.0	99.8	NA	38.5	NA	NA	NA
Utah	100.0	76.9	4.6	100.0	77.1	4.1	100.0	80.8	4.2
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	NA	NA	13.5	89.6	53.2	9.0	89.4	59.9	13.2
Washington	100.0	87.6	7.8	100.0	87.9	8.5	100.0	89.4	9.0
West Virginia	100.0	60.3	6.8	100.0	60.3	8.0	100.0	61.6	7.0
Wisconsin	100.0	75.2	17.7	100.0	76.8	18.8	100.0	79.0	21.7
Wyoming	70.6	49.2	1.7	71.0	49.4	2.0	71.7	51.2	NA
<b>Total</b>	<b>95.7</b>	<b>67.8</b>	<b>15.0</b>	<b>95.9</b>	<b>69.1</b>	<b>15.0</b>	<b>96.0</b>	<b>70.5</b>	<b>15.0</b>

<sup>R</sup> Revised data.

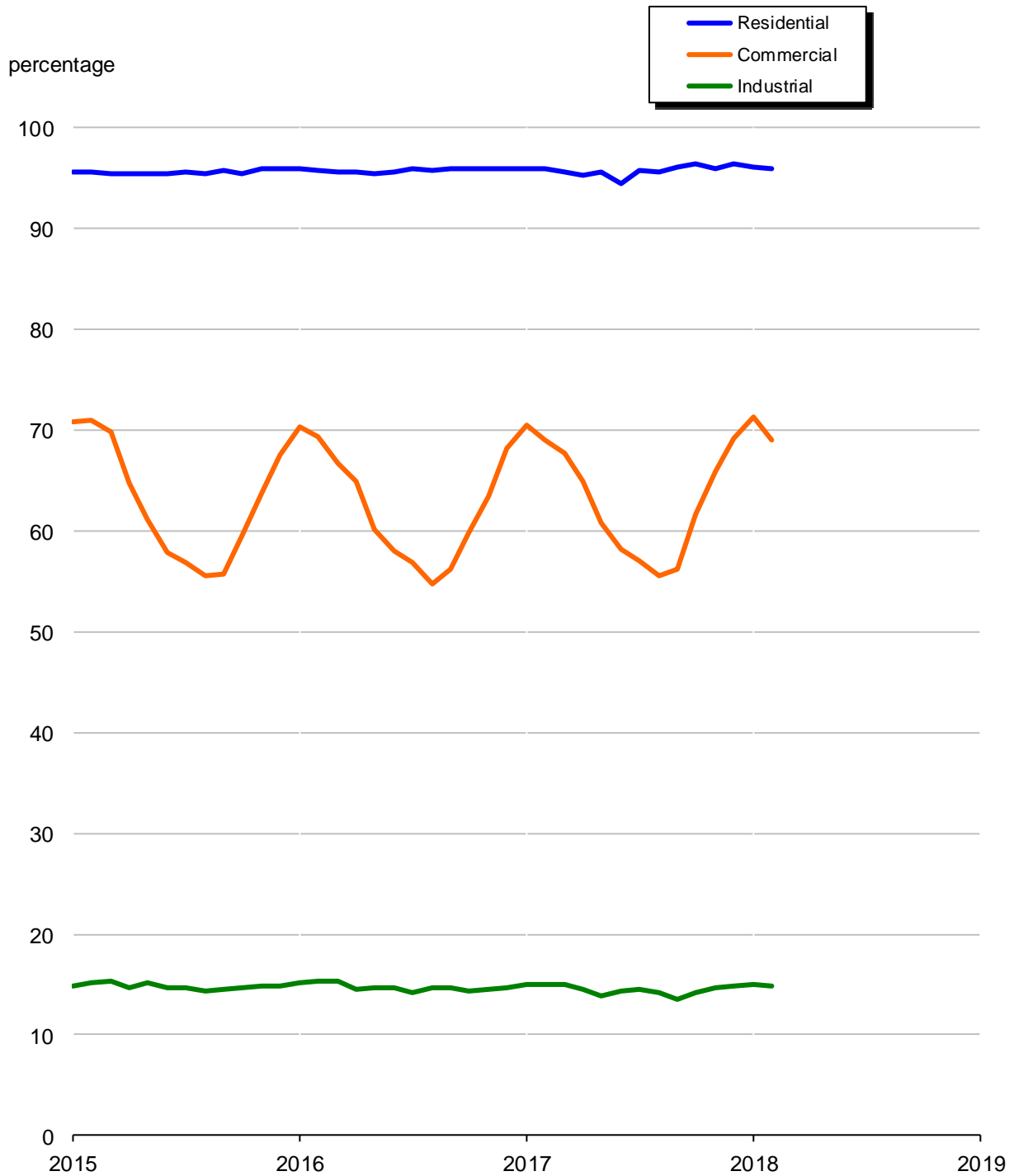
– Not applicable.

<sup>NA</sup> Not available.

**Notes:** Volumes of natural gas reported for the residential, commercial, and industrial sectors in this publication include data for both sales and deliveries for the account of others. This table shows the percentage of the total state volume that represents natural gas sales to the residential, commercial, and industrial sectors. This information may be helpful in evaluating residential, commercial, and industrial price data which are based on sales data only. Residential and commercial price data are based on total gas deliveries in the states of Georgia, New York and Ohio only. See Appendix C, Statistical Considerations, for a discussion of the computation of natural gas prices.

**Sources:** Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and Form EIA-910, "Monthly Natural Gas Marketer Survey."

Figure 6. Percentage of total deliveries included in residential, commercial, and industrial price estimates, 2015-2018



Sources: Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and Form EIA-910, "Monthly Natural Gas Marketer Survey."

**Table 25. Heating value of natural gas consumed, by state, 2016-2018**  
(Btu per cubic foot)

State	2018 2-Month YTD	2017 2-Month YTD	2016 2-Month YTD	2018		Total	2017 December
				February	January		
Alabama	1,026	1,028	1,027	1,026	1,026	1,030	1,027
Alaska	993	1,000	1,000	991	995	990	992
Arizona	1,043	1,042	1,046	1,041	1,045	1,040	1,042
Arkansas	1,019	1,025	1,022	1,019	1,016	1,024	1,014
California	1,035	1,035	1,036	1,034	1,036	1,034	1,034
Colorado	1,065	1,060	1,051	1,064	1,066	1,066	1,065
Connecticut	1,029	1,026	1,026	1,029	1,030	1,026	1,029
Delaware	1,043	1,045	1,050	1,043	1,044	1,040	1,047
District of Columbia	1,045	1,050	1,050	1,042	1,047	1,042	1,045
Florida	1,023	1,024	1,019	1,023	1,024	1,023	1,022
Georgia	1,028	1,031	1,029	1,028	1,028	1,030	1,026
Hawaii	968	963	1,001	971	965	975	989
Idaho	1,042	1,035	1,034	1,039	1,045	1,036	1,038
Illinois	1,033	1,033	1,032	1,033	1,032	1,031	1,031
Indiana	1,041	1,039	1,032	1,039	1,041	1,046	1,043
Iowa	1,055	1,051	1,052	1,054	1,054	1,056	1,059
Kansas	1,037	1,040	1,034	1,036	1,037	1,036	1,032
Kentucky	1,053	1,041	1,028	1,051	1,054	1,043	1,055
Louisiana	1,022	1,036	1,033	1,021	1,022	1,029	1,021
Maine	1,035	1,045	1,035	1,035	1,035	1,026	1,031
Maryland	1,047	1,055	1,058	1,043	1,051	1,048	1,048
Massachusetts	1,032	1,031	1,032	1,032	1,033	1,031	1,031
Michigan	1,045	1,045	1,039	1,046	1,044	1,042	1,044
Minnesota	1,038	1,028	1,039	1,038	1,037	1,032	1,039
Mississippi	1,024	1,036	1,032	1,024	1,024	1,032	1,026
Missouri	1,023	1,022	1,024	1,023	1,023	1,021	1,021
Montana	1,043	1,032	1,031	1,043	1,044	1,036	1,052
Nebraska	1,047	1,056	1,051	1,043	*1,052	1,057	1,059
Nevada	1,037	1,041	1,043	1,036	1,038	1,039	1,039
New Hampshire	1,035	1,034	1,037	1,033	1,036	1,030	1,033
New Jersey	1,041	1,043	1,044	1,039	1,042	1,040	1,042
New Mexico	1,038	1,044	1,047	1,035	1,040	1,043	1,042
New York	1,033	1,033	1,033	1,032	1,033	1,032	1,034
North Carolina	1,029	1,033	1,034	1,028	1,029	1,035	1,026
North Dakota	1,083	1,064	1,079	1,074	*1,098	1,061	1,104
Ohio	1,066	1,071	1,073	1,064	1,068	1,071	1,074
Oklahoma	1,040	1,047	1,049	1,039	1,041	1,042	1,037
Oregon	1,066	1,036	1,034	1,070	1,063	1,055	1,059
Pennsylvania	1,040	1,041	1,046	1,039	1,041	1,039	1,042
Rhode Island	1,029	1,029	1,029	1,029	1,029	1,030	1,029
South Carolina	1,029	1,031	1,031	1,029	1,029	1,030	1,028
South Dakota	1,062	1,057	1,060	1,061	1,063	1,056	1,067
Tennessee	1,025	1,030	1,034	1,027	1,025	1,027	1,031
Texas	1,026	1,028	1,030	1,024	1,026	1,030	1,029
Utah	1,043	1,043	1,045	1,042	1,044	1,042	1,043
Vermont	1,036	1,035	1,031	1,035	1,036	1,030	1,033
Virginia	1,050	1,053	1,055	1,049	1,053	1,051	1,057
Washington	1,086	1,076	1,074	1,086	1,085	1,081	1,084
West Virginia	1,088	1,082	1,089	1,086	*1,091	1,080	1,073
Wisconsin	1,038	1,039	1,044	1,035	1,040	1,033	1,035
Wyoming	1,059	1,068	1,066	1,060	1,054	1,063	1,052
<b>Total</b>	<b>1,037</b>	<b>1,038</b>	<b>1,038</b>	<b>1,037</b>	<b>1,038</b>	<b>1,037</b>	<b>1,039</b>

See footnotes at end of table.

**Table 25. Heating value of natural gas consumed, by state, 2016-2018**  
(Btu per cubic foot) – continued

State	2017						
	November	October	September	August	July	June	May
Alabama	1,029	1,030	1,031	1,030	1,031	1,030	1,031
Alaska	996	983	980	964	974	988	995
Arizona	1,040	1,039	1,047	1,040	1,039	1,037	1,038
Arkansas	1,014	1,021	1,020	1,018	1,017	1,019	1,016
California	1,033	1,032	1,036	1,036	1,037	1,037	1,033
Colorado	1,061	1,069	1,067	1,074	1,072	1,069	1,065
Connecticut	1,029	1,026	1,026	1,026	1,026	1,025	1,025
Delaware	1,044	1,042	1,042	1,040	1,038	1,037	1,037
District of Columbia	1,041	1,033	1,034	1,034	1,030	1,029	1,034
Florida	1,020	1,021	1,022	1,025	1,024	1,023	1,024
Georgia	1,026	1,028	1,032	1,030	1,032	1,032	1,033
Hawaii	969	984	978	983	987	987	984
Idaho	1,031	1,030	1,037	1,034	1,035	1,069	1,044
Illinois	1,032	1,030	1,027	1,027	1,027	1,027	1,028
Indiana	1,050	1,049	1,049	1,050	1,049	1,044	1,042
Iowa	1,058	1,060	1,061	1,059	1,058	1,056	1,057
Kansas	1,038	1,034	1,037	1,034	1,034	1,033	1,035
Kentucky	1,056	1,060	1,051	1,042	1,040	1,043	1,028
Louisiana	1,020	1,023	1,025	1,022	1,022	1,020	1,022
Maine	1,030	1,022	1,017	1,018	1,017	1,021	1,022
Maryland	1,038	1,042	1,045	1,047	1,044	1,041	1,046
Massachusetts	1,030	1,030	1,030	1,031	1,032	1,030	1,030
Michigan	1,043	1,042	1,043	1,043	1,042	1,042	1,043
Minnesota	1,038	1,032	1,029	1,027	1,030	1,028	1,034
Mississippi	1,027	1,027	1,031	1,030	1,035	1,035	1,032
Missouri	1,021	1,022	1,020	1,021	1,018	1,020	1,021
Montana	1,045	1,052	1,042	1,048	1,045	1,040	1,026
Nebraska	1,054	1,065	1,071	1,069	1,070	1,066	1,063
Nevada	1,030	1,035	1,038	1,039	1,043	1,044	1,035
New Hampshire	1,031	1,029	1,028	1,028	1,026	1,030	1,029
New Jersey	1,042	1,036	1,039	1,038	1,036	1,036	1,037
New Mexico	1,042	1,041	1,046	1,045	1,043	1,040	1,042
New York	1,033	1,031	1,031	1,031	1,030	1,031	1,031
North Carolina	1,032	1,040	1,038	1,036	1,037	1,038	1,040
North Dakota	1,086	1,094	1,100	1,083	1,085	1,085	1,080
Ohio	1,071	1,076	1,070	1,069	1,067	1,068	1,068
Oklahoma	1,036	1,036	1,051	1,043	1,043	1,044	1,041
Oregon	1,062	1,059	1,058	1,067	1,073	1,086	1,079
Pennsylvania	1,041	1,039	1,039	1,038	1,038	1,038	1,038
Rhode Island	1,029	1,030	1,030	1,030	1,030	1,030	1,029
South Carolina	1,029	1,031	1,032	1,030	1,030	1,030	1,032
South Dakota	1,058	1,056	1,055	1,054	1,054	1,050	1,051
Tennessee	1,030	1,027	1,026	1,029	1,030	1,032	1,032
Texas	1,027	1,028	1,034	1,030	1,030	1,028	1,029
Utah	1,042	1,041	1,041	1,039	1,041	1,041	1,042
Vermont	1,033	1,026	1,021	1,022	1,020	1,026	1,024
Virginia	1,052	1,051	1,050	1,051	1,051	1,052	1,051
Washington	1,084	1,082	1,075	1,083	1,091	1,082	1,077
West Virginia	1,086	1,081	1,087	1,055	1,092	1,105	1,094
Wisconsin	1,039	1,034	1,027	1,027	1,026	1,029	1,036
Wyoming	1,047	1,049	1,050	1,058	1,055	1,053	1,052
<b>Total</b>	<b>1,037</b>	<b>1,035</b>	<b>1,036</b>	<b>1,035</b>	<b>1,035</b>	<b>1,035</b>	<b>1,035</b>

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2016-2018

(Btu per cubic foot) – continued

State	2017				2016		
	April	March	February	January	Total	December	November
Alabama	1,030	1,028	1,029	1,028	1,029	1,030	1,030
Alaska	994	996	1,000	1,000	1,001	1,000	1,000
Arizona	1,038	1,040	1,043	1,042	1,037	1,039	1,034
Arkansas	1,022	1,017	1,019	1,018	1,019	1,019	1,021
California	1,033	1,034	1,034	1,036	1,035	1,034	1,032
Colorado	1,063	1,062	1,060	1,060	1,063	1,059	1,063
Connecticut	1,025	1,026	1,026	1,026	1,027	1,026	1,026
Delaware	1,041	1,045	1,045	1,047	1,046	1,047	1,045
District of Columbia	1,035	1,047	1,049	1,051	1,044	1,045	1,040
Florida	1,023	1,023	1,025	1,024	1,023	1,025	1,024
Georgia	1,030	1,029	1,033	1,030	1,030	1,031	1,030
Hawaii	959	954	972	955	981	954	947
Idaho	1,051	1,037	1,036	1,036	1,038	1,033	1,036
Illinois	1,030	1,030	1,031	1,033	1,031	1,033	1,031
Indiana	1,036	1,034	1,034	1,038	1,038	1,035	1,046
Iowa	1,055	1,052	1,052	1,052	1,056	1,056	1,059
Kansas	1,041	1,037	1,036	1,042	1,034	1,038	1,039
Kentucky	1,030	1,035	1,035	1,037	1,030	1,026	1,039
Louisiana	1,023	1,022	1,022	1,023	1,024	1,023	1,022
Maine	1,026	1,036	1,049	1,037	1,026	1,030	1,018
Maryland	1,043	1,055	1,056	1,054	1,051	1,050	1,045
Massachusetts	1,029	1,031	1,031	1,031	1,030	1,030	1,029
Michigan	1,039	1,042	1,045	1,045	1,041	1,044	1,048
Minnesota	1,032	1,033	1,028	1,028	1,037	1,033	1,033
Mississippi	1,032	1,035	1,035	1,034	1,031	1,033	1,037
Missouri	1,022	1,021	1,022	1,022	1,024	1,024	1,024
Montana	1,032	1,036	1,034	1,036	1,034	1,035	1,039
Nebraska	1,061	1,058	1,060	1,057	1,059	1,059	1,063
Nevada	1,039	1,039	1,040	1,041	1,041	1,041	1,038
New Hampshire	1,028	1,032	1,036	1,032	1,029	1,031	1,027
New Jersey	1,038	1,043	1,042	1,043	1,041	1,042	1,040
New Mexico	1,040	1,042	1,043	1,045	1,046	1,041	1,040
New York	1,032	1,033	1,033	1,033	1,031	1,033	1,031
North Carolina	1,045	1,033	1,032	1,033	1,035	1,032	1,034
North Dakota	1,080	1,078	1,083	1,076	1,083	1,092	1,075
Ohio	1,069	1,072	1,071	1,071	1,071	1,073	1,071
Oklahoma	1,042	1,041	1,043	1,046	1,049	1,053	1,050
Oregon	1,076	1,035	1,035	1,036	1,059	1,038	1,035
Pennsylvania	1,038	1,040	1,040	1,041	1,041	1,040	1,039
Rhode Island	1,029	1,029	1,029	1,029	1,029	1,028	1,028
South Carolina	1,031	1,030	1,031	1,030	1,030	1,031	1,029
South Dakota	1,049	1,050	1,051	1,055	1,056	1,052	1,052
Tennessee	1,029	1,028	1,031	1,032	1,030	1,033	1,035
Texas	1,030	1,026	1,029	1,027	1,030	1,029	1,028
Utah	1,042	1,043	1,043	1,043	1,042	1,043	1,042
Vermont	1,025	1,033	1,036	1,034	1,024	1,029	1,022
Virginia	1,055	1,057	1,052	1,057	1,053	1,054	1,055
Washington	1,080	1,078	1,075	1,076	1,078	1,080	1,083
West Virginia	1,103	1,086	1,089	1,084	1,097	1,085	1,083
Wisconsin	1,034	1,035	1,038	1,041	1,039	1,041	1,033
Wyoming	1,051	1,055	1,066	1,060	1,074	1,057	1,056
<b>Total</b>	<b>1,036</b>	<b>1,037</b>	<b>1,038</b>	<b>1,039</b>	<b>1,037</b>	<b>1,039</b>	<b>1,037</b>

See footnotes at end of table.

**Table 25. Heating value of natural gas consumed, by state, 2016-2018**  
(Btu per cubic foot) – continued

State	2016						
	October	September	August	July	June	May	April
Alabama	1,031	1,032	1,031	1,029	1,026	1,028	1,028
Alaska	1,001	1,002	1,003	1,003	1,003	1,002	1,001
Arizona	1,031	1,034	1,035	1,031	1,031	1,037	1,042
Arkansas	1,018	1,020	1,022	1,021	1,020	1,018	1,019
California	1,033	1,037	1,038	1,035	1,042	1,021	1,035
Colorado	1,069	1,075	1,074	1,072	1,071	1,066	1,065
Connecticut	1,026	1,026	1,025	1,025	1,026	1,025	1,026
Delaware	1,046	1,046	1,043	1,044	1,042	1,042	1,044
District of Columbia	1,035	1,038	1,038	1,038	1,034	1,035	1,040
Florida	1,023	1,026	1,026	1,023	1,020	1,021	1,023
Georgia	1,032	1,032	1,029	1,028	1,027	1,030	1,028
Hawaii	952	945	947	967	1,050	1,018	992
Idaho	1,035	1,035	1,035	1,028	1,035	1,044	1,056
Illinois	1,029	1,028	1,030	1,029	1,027	1,032	1,032
Indiana	1,048	1,042	1,047	1,035	1,042	1,038	1,034
Iowa	1,059	1,059	1,061	1,057	1,058	1,057	1,053
Kansas	1,037	1,038	1,039	1,033	1,034	1,032	1,033
Kentucky	1,027	1,030	1,038	1,033	1,025	1,018	1,026
Louisiana	1,022	1,026	1,028	1,022	1,023	1,022	1,021
Maine	1,016	1,019	1,026	1,023	1,023	1,019	1,024
Maryland	1,042	1,046	1,051	1,052	1,046	1,047	1,048
Massachusetts	1,029	1,029	1,028	1,028	1,029	1,029	1,029
Michigan	1,047	1,047	1,052	1,044	1,041	1,038	1,040
Minnesota	1,037	1,038	1,036	1,034	1,044	1,042	1,041
Mississippi	1,032	1,034	1,031	1,022	1,030	1,036	1,033
Missouri	1,024	1,023	1,024	1,022	1,022	1,021	1,024
Montana	1,029	1,034	1,033	1,028	1,029	1,023	1,023
Nebraska	1,068	1,069	1,073	1,070	1,064	1,064	1,062
Nevada	1,039	1,044	1,045	1,044	1,038	1,039	1,042
New Hampshire	1,028	1,026	1,026	1,026	1,028	1,027	1,029
New Jersey	1,038	1,038	1,039	1,038	1,037	1,037	1,039
New Mexico	1,039	1,048	1,055	1,046	1,049	1,052	1,048
New York	1,030	1,030	1,029	1,029	1,030	1,029	1,033
North Carolina	1,039	1,037	1,035	1,033	1,034	1,038	1,038
North Dakota	1,072	1,061	1,090	1,089	1,070	1,091	1,108
Ohio	1,072	1,068	1,067	1,068	1,069	1,070	1,068
Oklahoma	1,050	1,053	1,051	1,049	1,046	1,047	1,044
Oregon	1,038	1,038	1,046	1,045	1,044	1,043	1,038
Pennsylvania	1,040	1,041	1,039	1,040	1,041	1,042	1,042
Rhode Island	1,030	1,029	1,028	1,028	1,028	1,029	1,034
South Carolina	1,031	1,030	1,030	1,029	1,029	1,030	1,031
South Dakota	1,053	1,056	1,057	1,060	1,058	1,054	1,052
Tennessee	1,028	1,026	1,025	1,025	1,024	1,031	1,031
Texas	1,030	1,034	1,035	1,031	1,027	1,029	1,032
Utah	1,041	1,041	1,042	1,042	1,040	1,041	1,042
Vermont	1,019	1,016	1,017	1,016	1,025	1,023	1,028
Virginia	1,052	1,053	1,054	1,054	1,052	1,054	1,052
Washington	1,081	1,076	1,085	1,085	1,080	1,078	1,078
West Virginia	1,083	1,103	1,109	1,108	1,118	1,096	1,096
Wisconsin	1,036	1,029	1,026	1,026	1,033	1,037	1,038
Wyoming	1,050	1,054	1,058	1,053	1,048	1,053	1,055
<b>Total</b>	<b>1,036</b>	<b>1,037</b>	<b>1,037</b>	<b>1,034</b>	<b>1,034</b>	<b>1,034</b>	<b>1,037</b>

See footnotes at end of table.

**Table 25. Heating value of natural gas consumed, by state, 2016-2018**  
(Btu per cubic foot) – continued

State	2016		
	March	February	January
Alabama	1,030	1,025	1,029
Alaska	1,001	1,000	1,000
Arizona	1,050	1,047	1,046
Arkansas	1,017	1,015	1,019
California	1,034	1,036	1,038
Colorado	1,055	1,052	1,050
Connecticut	1,026	1,026	1,026
Delaware	1,043	1,050	1,055
District of Columbia	1,043	1,049	1,051
Florida	1,024	1,025	1,015
Georgia	1,030	1,030	1,029
Hawaii	1,003	1,004	998
Idaho	1,044	1,038	1,034
Illinois	1,030	1,031	1,031
Indiana	1,032	1,033	1,030
Iowa	1,052	1,052	1,053
Kansas	1,037	1,036	1,032
Kentucky	1,023	1,025	1,027
Louisiana	1,022	1,025	1,024
Maine	1,030	1,037	1,035
Maryland	1,050	1,055	1,061
Massachusetts	1,030	1,032	1,031
Michigan	1,036	1,038	1,040
Minnesota	1,039	1,035	1,043
Mississippi	1,039	1,032	1,031
Missouri	1,024	1,023	1,024
Montana	1,027	1,030	1,033
Nebraska	1,048	1,054	1,054
Nevada	1,037	1,042	1,043
New Hampshire	1,031	1,039	1,035
New Jersey	1,042	1,043	1,044
New Mexico	1,048	1,048	1,046
New York	1,033	1,034	1,033
North Carolina	1,037	1,034	1,034
North Dakota	1,099	1,095	1,095
Ohio	1,070	1,072	1,073
Oklahoma	1,048	1,047	1,049
Oregon	1,036	1,034	1,033
Pennsylvania	1,042	1,045	1,048
Rhode Island	1,025	1,027	1,032
South Carolina	1,029	1,031	1,031
South Dakota	1,053	1,058	1,060
Tennessee	1,034	1,035	1,035
Texas	1,030	1,028	1,029
Utah	1,041	1,043	1,046
Vermont	1,030	1,032	1,029
Virginia	1,056	1,055	1,055
Washington	1,077	1,075	1,070
West Virginia	1,096	1,096	1,092
Wisconsin	1,038	1,046	1,045
Wyoming	1,071	1,052	1,056
<b>Total</b>	<b>1,037</b>	<b>1,038</b>	<b>1,038</b>

<sup>R</sup> Revised data.

**Notes:** Geographic coverage is the 50 states and the District of Columbia. Heating value is the average number of British thermal units (Btu) per cubic foot of natural gas as reported on Form EIA-857. See Appendix A, Explanatory Note 11, for further information.

**Source:** Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and Form EIA-923, "Power Plant Operations Report."

Table 26. Natural gas home customer-weighted heating degree days

Month/Year/Type of data	New England	Middle Atlantic	East North Central	West North Central	South Atlantic
	CT, ME, MA, NH, RI, VT	NJ, NY, PA	IL, IN, MI, OH, WI	IA, KS, MN, MO, ND, NE, SD	DE, FL, GA, MD, DC, NC, SC, VA, WV
<b>November</b>					
Normal	702	665	758	841	443
2016	638	576	575	577	384
2017	706	674	743	780	433
% Diff (normal to 2017)	0.6	1.4	-2.0	-7.3	-2.3
% Diff (2016 to 2017)	10.7	17.0	29.2	35.2	12.8
<b>December</b>					
Normal	1,045	994	1,136	1,250	700
2016	1,004	945	1,147	1,240	633
2017	1,146	1,065	1,181	1,216	698
% Diff (normal to 2017)	9.7	7.1	4.0	-2.7	-0.3
% Diff (2016 to 2017)	14.1	12.7	3.0	-1.9	10.3
<b>January</b>					
Normal	1,209	1,155	1,303	1,391	803
2017	1,004	946	1,071	1,199	598
2018	1,205	1,189	1,275	1,343	860
% Diff (normal to 2018)	-0.3	2.9	-2.2	-3.5	7.1
% Diff (2017 to 2018)	20.0	25.7	19.1	12.0	43.8
<b>February</b>					
Normal	1,030	979	1,061	1,080	638
2017	867	747	767	810	421
2018	834	789	966	1,153	418
% Diff (normal to 2018)	-19.0	-19.4	-9.0	6.8	-34.5
% Diff (2017 to 2018)	-3.8	5.6	26.0	42.4	-0.7
<b>March</b>					
Normal	887	824	865	858	484
2017	1,005	885	834	786	477
2018	860	882	829	843	547
% Diff (normal to 2018)	-3.0	7.0	-4.2	-1.8	13.0
% Diff (2017 to 2018)	-14.4	-0.3	-0.6	7.3	14.7
<b>November to March</b>					
Normal	4,873	4,617	5,123	5,420	3,068
2017	4,518	4,099	4,394	4,612	2,513
2018	4,751	4,599	4,994	5,335	2,956
% Diff (normal to 2018)	-2.5	-0.4	-2.5	-1.6	-3.7
% Diff (2017 to 2018)	5.2	12.2	13.7	15.7	17.6

See footnotes at end of table.

Table 26. Natural gas home customer-weighted heating degree days – continued

Month/Year/Type of data	East South Central	West South Central	Mountain	Pacific <sup>b</sup>	U.S. Average <sup>b</sup>
	AL, KY, MS, TN	AR, LA, OK, TX	AZ, CO, ID, MT, NV, NM, UT, WY	CA, OR, WA	
<b>November</b>					
Normal	455	305	739	366	589
2016	351	172	550	263	452
2017	408	198	528	262	535
% Diff (normal to 2017)	-10.3	-35.1	-28.6	-28.4	-9.2
% Diff (2016 to 2017)	16.2	15.1	-4.0	-0.4	18.4
<b>December</b>					
Normal	722	537	998	531	884
2016	660	461	992	548	863
2017	724	512	892	412	875
% Diff (normal to 2017)	0.3	-4.7	-10.6	-22.4	-1.0
% Diff (2016 to 2017)	9.7	11.1	-10.1	-24.8	1.4
<b>January</b>					
Normal	829	612	1,026	532	990
2017	562	418	1,025	592	839
2018	907	644	848	382	958
% Diff (normal to 2018)	9.4	5.2	-17.4	-28.2	-3.2
% Diff (2017 to 2018)	61.4	54.1	-17.3	-35.5	14.2
<b>February</b>					
Normal	631	429	802	412	793
2017	403	220	674	427	600
2018	404	368	799	407	702
% Diff (normal to 2018)	-36.0	-14.2	-0.4	-1.2	-11.5
% Diff (2017 to 2018)	0.3	67.3	18.6	-4.7	17.0
<b>March</b>					
Normal	459	276	696	393	649
2017	394	162	501	307	604
2018	463	190	739	470	662
% Diff (normal to 2018)	0.9	-31.2	6.2	19.6	2.0
% Diff (2017 to 2018)	17.5	17.3	47.5	53.1	9.6
<b>November to March</b>					
Normal	3,096	2,159	4,261	2,234	3,905
2017	2,370	1,433	3,742	2,137	3,358
2018	2,906	1,912	3,806	1,933	3,732
% Diff (normal to 2018)	-6.1	-11.4	-10.7	-13.5	-4.4
% Diff (2017 to 2018)	22.6	33.4	1.7	-9.6	11.1

<sup>a</sup> Normal is based on calculations of data from 1971 through 2000.

<sup>b</sup> Excludes Alaska and Hawaii.

**Note:** See Appendix A, Explanatory Note 10, for discussion of Heating Degree-Days computations.

**Source:** National Oceanic and Atmospheric Administration.

## Appendix A

### Explanatory Notes

The Energy Information Administration (EIA) publishes monthly data for the supply and disposition of natural gas in the United States in the *Natural Gas Monthly* (NGM). The information in this Appendix is provided to assist users in understanding the monthly data. Table A1 lists the methodologies for deriving the data to be published for the most recent months shown in Tables 1 and 2. The following explanatory notes describe sources for all NGM tables.

**Table A1. Methodology for most recent monthly natural gas supply and disposition data of tables 1 and 2**

Components	Reporting Methodology
<b>Supply and Disposition</b>	
Marketed Production	Estimated from sample data reported on Form EIA-914
Natural Gas Plant Liquid (NGPL)	
Production	Derived from data reported on Form EIA-816
Dry Production	Marketed Production minus NGPL Production
Withdrawals from Storage	Reported on Form EIA-191
Supplemental Gaseous Fuels	Derived from supply estimates and coal gasification information
Imports	Derived from the Office of Fossil Energy
Additions to Storage	Reported on Form EIA-191
Exports	Derived from the Office of Fossil Energy
Current-Month Consumption	Reported on Form EIA-857, Form EIA-923, and other sources below
<b>Consumption by Sector</b>	
Lease and Plant Fuel	Derived from Marketed Production
Pipeline and Distribution Use	Derived from Deliveries to Consumers
Residential	Estimated from sample data reported on Form EIA-857
Commercial	Estimated from sample data reported on Form EIA-857
Industrial	Estimated from sample data reported on Form EIA-857
Electric Power	Estimated from sample data reported on Form EIA-923
Vehicle Fuel	EIA computations

### Note 1. Production

#### *Monthly Data*

Estimates of gross withdrawals and marketed production for the Lower 48 states are derived from submissions by well operators on the monthly Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report." For 2017 forward, volumes are available only for those states/areas that were collected individually on

the EIA-914 survey (Arkansas, California (including State Offshore), Colorado, Federal Offshore Gulf of Mexico, Kansas, Louisiana (including State Offshore), Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas (including State Offshore), Utah, West Virginia, and Wyoming). The “other states” category comprises states/areas not individually collected on the EIA-914 survey (Alabama, Arizona, Federal Offshore Pacific, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia). All data for Alaska are obtained directly from the state. The sum of individual states may not equal total U.S. volumes due to independent rounding. (See the [EIA-914 Methodology](#) for an explanation of the procedure for estimating state gross withdrawals from reported volumes.)

Marketed production is estimated from gross withdrawals using historical relationships between the two. All monthly data are considered preliminary up to the cover year of the most recent [Natural Gas Annual](#).

### ***Annual Data***

Prior to 2011, natural gas production data were collected from producing states on the voluntary Form EIA-895. The form requested data on gross withdrawals, gas vented and flared, repressuring, nonhydrocarbon gases removed, fuel used on leases, and marketed production (wet). Beginning in 2011, EIA has obtained similar data directly from the states agencies. Production data for the Federal waters of the Gulf of Mexico are provided by the Bureau of Safety & Environmental Enforcement.

## **Note 2. Natural Gas Plant Liquid (NGPL) Production**

### ***Monthly Data***

Monthly NGPL production is reported by gas processing plants on Form EIA-816, “Monthly Natural Gas Liquids Report.” These liquid volumes are converted to natural gas equivalents using factors consistent with industry standards published by the Gas Processors Association, and instructions to respondents to EIA’s annual survey of gas processing plants, Form EIA-64A, “Annual Report of the Origin of Natural Gas Liquids Production.” Separate values are used for ethane, propane, isobutane, and normal butane. A value for “natural gasoline,” reflecting pentanes and higher, is used. A separate value for isopentane is also used when reporting facilities have the capability to separate out and market isopentane on its own. The value for natural gasoline also includes isopentane - this value is used when estimating the volumetric equivalent of “pentanes plus” produced. These factors all are for “real” rather than “ideal” gas volumes stated at a pressure of 14.73 pounds per square inch absolute (psia) at 60 degrees Fahrenheit on a dry basis.

### ***Annual Data***

The final NGPL production estimates, published in the NGA, incorporate information received from gas processing plants on Form EIA-64A, “Annual Report of the Origin of Natural Gas Liquids Production.” Monthly NGPL production estimates are recalibrated to equate to this total.

### Note 3. Supplemental Gaseous Fuels

#### *Monthly Data*

All monthly data are considered preliminary until after the publication of the NGA for the year in which the report month falls. Monthly estimates are based on the annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the monthly sum of these three elements to compute a monthly supplemental gaseous fuels figure.

Monthly data are revised after publication of the NGA. Final monthly data are estimated based on the revised annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This revised ratio is applied to the revised monthly sum of these three supply elements to compute final monthly data.

#### *Annual Data*

Annual data on supplemental gaseous fuel supply are reported on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

### Note 4. Imports and Exports

#### *Monthly and Annual Data – Imports*

Monthly import and export data are from Form FE-746R, "Import and Export of Natural Gas," from the Office of Fossil Energy, U.S. Department of Energy. Annual data are the aggregate of the monthly data for that year.

### Note 5. Natural Gas Storage

Note that final monthly and annual storage levels, additions, and withdrawal data shown in Table 1 for 2013 through 2016 include both underground and liquefied natural gas (LNG) storage. Beginning in January 2013, U.S. totals include Alaska data. Prior to 2013, totals only included data from the lower 48 states. Beginning in November 2015, new region breakouts of the storage data shown in Tables 12 and 13 were introduced, replacing the Producing, East, and West region breakouts. The states included in each of the new regions are as follows:

*East Region:* Connecticut, Delaware, District of Columbia, Florida, Georgia, Massachusetts, Maryland, Maine, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Vermont, Virginia, and West Virginia.

*South Central Region:* Alabama, Arkansas, Kansas, Louisiana, Mississippi, Oklahoma, and Texas.

*Midwest Region:* Illinois, Indiana, Iowa, Kentucky, Michigan, Minnesota, Missouri, Tennessee, and Wisconsin.

*Mountain Region:* Arizona, Colorado, Idaho, Montana, Nebraska, Nevada, New Mexico, North Dakota, South Dakota, Utah, and Wyoming.

*Pacific Region:* California, Oregon, and Washington.

### **Monthly Data**

Preliminary and final monthly data on underground storage levels, additions, and withdrawals are from the Form EIA-191, “Monthly Underground Gas Storage Report.” All operators of underground storage fields complete the survey.

Estimates of monthly LNG additions and withdrawals are calculated by applying the proportion of each month’s net injections to underground storage during the injection season to annual LNG additions and the proportion of each month’s net withdrawals from underground storage during the withdrawal season to annual LNG withdrawals.

There are three principal types of underground storage facilities in operation in the United States today: salt caverns (caverns hollowed out in salt “bed” or “dome” formations), depleted fields (depleted reservoirs in oil and/or gas fields), and aquifer reservoirs (water-only reservoirs conditioned to hold natural gas). A storage facility’s daily deliverability or withdrawal capability is the amount of gas that can be withdrawn from it in a 24-hour period. Salt cavern storage facilities generally have high deliverability because all of the working gas in a given facility can be withdrawn in a relatively short period of time. (A typical salt cavern cycle is 10 days to deplete working gas, and 20 days to refill working gas.) By contrast, depleted field and aquifer reservoirs are designed and operated to withdraw all working gas over the course of an entire heating season (about 150 days). Further, while both traditional and salt cavern facilities can be switched from withdrawal to injection operations during the heating season, this is usually more quickly and easily done in salt cavern facilities, reflecting their greater operational flexibility.

### **Annual Data**

Final annual data on additions and withdrawals from underground storage facilities are the sum of the monthly data from the EIA-191.

Annual data on LNG additions and withdrawals are from the EIA-176.

## **Note 6. Consumption**

### **Monthly Data**

All monthly data are considered preliminary until after publication of the NGA.

### **Annual Data**

All annual data are from the NGA. Total consumption is the sum of the components of consumption listed below. Monthly data are revised after publication of the NGA.

### **Residential, Commercial, and Industrial Consumption**

Preliminary estimates of monthly deliveries of natural gas to residential, commercial, and industrial consumers in 50 states are based on data reported on Form EIA-857, “Monthly Report of Natural Gas Purchases and Deliveries.” See Appendix C, “Statistical Considerations,” for a detailed explanation of sample selection and estimation procedures. Monthly data for a given year are revised after the publication of the NGA to correct for any sampling errors. Final monthly data are

estimated by allocating annual consumption data from the Form EIA-176 to each month in proportion to monthly volumes reported in Form EIA-857.

### ***Vehicle Fuel Use***

Monthly U.S. total estimates of natural gas (compressed or liquefied) used as vehicle fuel are derived from an annual estimate of vehicle fuel use provided by the Office of Electricity, Renewables, and Uranium Statistics of EIA.

### ***Electric Power Consumption***

Monthly estimates of deliveries of natural gas to electric power producers are derived from data submitted by the sample of electric power producers reporting monthly on Form EIA-923, "Power Plant Operations Report," which replaced Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." The estimates reported in the NGM represent gas delivered to electricity-only plants (utility and independent power producers) and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. For a discussion of these estimates, see the [Electric Power Monthly](#).

### ***Pipeline and Distribution Use***

Preliminary monthly estimates are based on the pipeline fuel consumption as an annual percentage of total consumption from the previous year's Form EIA-176. This percentage is applied to each month's sum of total deliveries plus lease and plant fuel to compute the monthly estimate.

Monthly data are revised after the publication of the NGA. Final monthly data are based on the revised annual ratio of pipeline fuel consumption to total consumption from the Form EIA-176. This ratio is applied to each month's revised sum of total deliveries plus lease and plant fuel to compute final monthly pipeline fuel consumption estimates.

### ***Lease and Plant Fuel Consumption***

Preliminary monthly data are estimated based on lease and plant fuel consumption as an annual percentage of marketed production. This percentage is applied to each month's marketed production figure to compute estimated lease and plant fuel consumption.

Monthly data are revised after publication of the NGA. Final monthly plant fuel data are based on a revised annual ratio of plant fuel consumption to marketed production from Form EIA-176. This ratio is applied to each month's revised marketed production figure to compute final monthly plant fuel consumption estimates. Final monthly lease data are collected directly from state agencies' websites where available. For states where these data are not available, lease fuel quantities were estimated by applying an average of the states' historical ratio of lease fuel to gross withdrawals. See the NGA for a complete discussion of this process.

## **Note 7. Balancing Item**

The balancing item category represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to data reporting problems or to issues in survey coverage. Preliminary monthly data in the balancing item category are calculated by subtracting dry gas production, withdrawals from storage, supplemental gaseous fuels, and imports from total disposition. The balancing item may reflect problems in any of the surveys comprising natural gas supply or disposition.

Reporting problems include differences due to the net result of conversions of flow data metered at varying temperatures and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycles and calendar periods; and imbalances resulting from the merger of data reporting systems, which vary in scope, format, definitions, and type of respondents. Survey coverage problems include incomplete survey frames or problems in sampling design.

Annual data are from the NGA. For an explanation of the methodology used in calculating the annual balancing item, see the NGA.

## Note 8. Average Price of Deliveries to Consumers

For most states, price data are representative of prices for gas sold and delivered to residential, commercial, and industrial consumers by local distribution companies. Published prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges. In the states of Georgia, Maryland, New York, Ohio, and Pennsylvania, the residential and commercial sector prices reported in the NGM include data on prices of gas sold to customers in those sectors by energy marketers. These latter data are collected on Form EIA-910, "Monthly Natural Gas Marketer Survey." In 2008 through 2010, in the states of Florida, Georgia, Maryland, New Jersey, New York, Ohio, Pennsylvania, and Virginia, residential price data were based on total gas deliveries, and, in the states of Florida, Georgia, Maryland, Michigan, New York, Ohio, Pennsylvania, Virginia, and the District of Columbia, commercial price data were based on total gas deliveries. Beginning in 2011, however, residential and commercial price data are based on total gas deliveries in the states of Georgia, New York and Ohio only. Residential and commercial sector prices reported in the NGM include data on prices of gas sold to customers in those states by energy marketers as data quality becomes acceptable. Except for these states, none of the prices reflect average prices of natural gas transported to consumers for the account of third parties. Table 24 indicates the percentage of total deliveries included in residential, commercial, and industrial price estimates.

Prices of natural gas delivered to the electric power sector are derived from data reported on the Form EIA-923, "Power Plant Operations Report." Prices from these surveys are also published in the [Electric Power Monthly](#).

## Note 9. NGPL Composite Spot Price and Natural Gas Spot Price

### *Monthly Data*

The natural gas plant liquids (NGPL) composite price published in the NGM is derived from spot price data at Mont Belvieu, Texas, from Bloomberg. Daily closing spot prices for ethane, propane, butane, isobutane, and natural gasoline (pentanes plus) are each averaged into a monthly series, then weighted according to the portion of a representative natural gas plant liquids barrel that they occupy. Volume weights are updated monthly using the latest available data collected on Form EIA-816, *Monthly Natural Gas Liquids Report*. The NGPL composite price excludes natural gas liquids produced at crude oil refineries.

Bloomberg spot price data for each natural gas liquids (NGL) product are in cents per gallon. EIA converts these prices into dollars per barrel. Using heat conversion factors from Table A1 in the appendix of the *Annual Energy Review*, "Approximate Heat Content of Petroleum Products," the prices are converted to dollars per million British thermal units (MMBtu) for each natural gas liquid.

The NGPL composite spot price is calculated as:

$$P = \sum \left( p_i * \frac{v_i}{V} \right)$$

where:

$P$  = the NGPL composite spot price in dollars per MMBtu,

$p_i$  = the monthly spot price for natural gas liquids product  $i$  in dollars per MMBtu,

$V$  = the total volume of natural gas plant liquids produced in the report month,

$v_i$  = the monthly production volume for natural gas plant liquids product  $i$ .

The natural gas spot price is the simple average of the daily closing spot prices for natural gas at the Henry Hub in Louisiana. This series is published by Thompson Reuters and republished by EIA with permission.

### **Annual Data**

The annual NGPL composite spot price represents the average cost of a representative barrel of NGPL in a given year. This annual figure is calculated as the total cost of all NGPL products sold, as priced at Mont Belvieu, divided by the total volume of all NGPL products produced for the year derived by summing the months of natural gas plant liquids production data collected on Form EIA-816.

The annual natural gas spot price represents the average of daily closing spot prices for dry natural gas at the Henry Hub in Louisiana in a given year.

### **Note 10. Heating Degree-Days**

Degree-days are relative measurements of outdoor air temperature. Heating degree-days are deviations of the mean daily temperature below 65 degrees Fahrenheit. A weather station recording a mean daily temperature of 40 degrees Fahrenheit would report 25 heating degree-days. There are several degree-day databases maintained by the National Oceanic and Atmospheric Administration. The information published in the NGM, is developed by the National Weather Service Climate Analysis Center, Camp Springs, Maryland.

The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations around the country. The temperature information recorded at these weather stations is used to calculate statewide degree-day averages weighted by gas home customers. The state figures are then aggregated into Census Divisions and into the national average. Table 26 of this report presents the Heating Degree data, and is included in the December through April NGM publications.

### **Note 11. Heat Content**

The Form EIA-857 collects volume and cost data on natural gas delivered to residential, commercial, and industrial consumers, as shown in Tables 2 and 25 of the NGM. Data are reported by a sample of natural gas companies that deliver to consumers in the United States. Respondents are instructed to calculate the average heat content (Btu) by summing the total Btu delivered each month (volume delivered directly to consumers ) multiplied by average Btu content per unit volume and then dividing by the total volume delivered directly to consumers during that month. The average Btu content for each month should be that used for billing purposes whether billing was on a therm (100,000 Btu) or dekatherm (1,000,000 Btu) basis. The value for heat content is expected to be in the range of 900 to 1200 Btu/cubic foot.

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## Appendix B

### Data Sources

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The data in this publication are taken from survey reports collected by the Energy Information Administration (EIA), the Federal Energy Regulatory Commission (FERC), and the Office of Fossil Energy of the U.S. Department of Energy (DOE). The EIA is the independent statistical and analytical agency within the DOE. The FERC is an independent regulatory commission within the DOE that has jurisdiction primarily in the regulation of electric utilities and the interstate natural gas industry. The Office of Fossil Energy has the authority under Section 3 of the Natural Gas Act of 1938 to grant authorizations for the import and export of natural gas.

Data are collected from annual, quarterly, and monthly surveys. The primary annual report is the Form EIA-176, “Annual Report of Natural and Supplemental Gas Supply and Disposition,” a mandatory survey of all companies that deliver natural gas to consumers or that transport gas across state lines. Another annual report, Form EIA-895, “Annual Quantity and Value of Natural Gas Production Report,” was completed by agencies in the 32 gas producing states through 2010. EIA obtained similar data directly from the states beginning in 2011. The EIA-895 Form collected volumes of natural gas gross withdrawals, those vented and flared, returned to formation, or used on the lease, and the volume of nonhydrocarbons removed from the produced stream. It also collected information on the value of marketed production. The Office of Fossil Energy provides monthly and quarterly files of data on imports and exports. The monthly reports include surveys of the natural gas industry, and of the electric power industry. The monthly natural gas industry surveys are: the Form EIA-191, filed by companies that operate underground storage facilities in the Lower 48 states; the Form EIA-914, filed by a sample of companies that operate wells producing natural gas; the Form EIA-857, filed by a sample of companies that deliver natural gas to consumers; and the Form EIA-910, filed by natural gas marketers in select states. The electric power industry source for both price and consumption data is Form EIA-923, “Power Plant Operations Report.” Responses to all current surveys are mandatory. A description of the survey respondents, reporting requirements, and processing of the data is given on the following pages for each of the natural gas surveys. Copies of the forms and instructions are available on the EIA website. Further information about Electric Power forms can be found in Appendix C of the [Electric Power Monthly](#).

### [Form EIA-176, “Annual Report of Natural and Supplemental Gas Supply and Disposition”](#)

The Form EIA-176 is mailed to all identified interstate and intrastate natural gas pipeline companies; investor and municipally owned natural gas distributors; underground natural gas storage operators; synthetic natural gas plant operators; field, well, or processing plant operators that deliver natural gas directly to consumers (including their own industrial facilities); and/or companies that transport gas across a state border through field or gathering facilities. Each company is required to file if it meets the survey specifications. The mailing in 2017 for report year 2016 totaled approximately 2,038 questionnaire packages. While final nonresponse rates vary, the rates have averaged about 1 percent in recent years.

The Form EIA-176 is a multi-line, multi-page schedule for reporting all supplies of natural gas and supplemental gaseous fuels and their disposition within the state indicated. Respondents file completed forms with EIA in Washington, DC. Data for the report year are due by March 1st. Extensions of the filing deadline for up to 30 days are granted to any respondent upon request.

All natural gas and supplemental gaseous fuels volumes are reported on a physical custody basis in thousand cubic feet (Mcf), and dollar values are reported to the nearest whole dollar. All volumes are reported at 14.73 pounds per square inch absolute pressure (psia) and 60 degrees Fahrenheit.

Data from Form EIA-176 are also published in the [Natural Gas Annual](#) (NGA) and are available from the Form EIA-176 Query system posted on the EIA website. Data reported on this form are not considered proprietary. Response to the form is mandatory.

### **Form EIA-895, “Monthly and Annual Quantity and Value of Natural Gas Report”**

Monthly production data were collected through Form EIA-895, “Monthly and Annual Quantity and Value of Natural Gas Report,” from January 1995 through December 2006. The form was designed to provide a standard reporting system, to the extent possible, for the natural gas data reported by the states. Data were not considered proprietary. All gas-producing states and the Bureau of Safety & Environmental Enforcement (and predecessor agencies) were requested to report on the Form EIA-895, a voluntary report that was used through 2010.

In 1996, an annual schedule was added to the voluntary Form EIA-895 to replace a prior annual production form. This annual schedule, designated Form EIA-895, continued to be used for collecting production data from states through 2010. In 2011, annual gas production data were obtained directly from publicly available state data.

The commercial recovery of methane from coalbeds and shale plays contributes a significant amount to the production totals in a number of states. Gross production quantities of natural gas from coalbed methane seams and shale plays (in thousand cubic feet) are obtained from PointLogic Energy. Previously, data from LCI Energy Insight (LCI) were used. In 2007-2009, an average daily production rate, available for each year, from coalbed methane and shale were used to allocate production data across months depending on the number of days in each month. For 2010 forward, monthly coalbed and shale data from LCI and, later, PointLogic Energy, were developed with the following method:

[Quarterly Daily Shale Production Rate (MMcf/day) x Number of Days in Quarter x 1000] x [Month Gross Production Volume / Quarter Gross Production Volume]

Beginning in 2010, for Pennsylvania, the quarterly shale data were also used to create a gross production monthly pattern. Data for coalbed and shale gas wells are not shown in the *Natural Gas Monthly*; however, coalbed and shale breakouts are available via the [Natural Gas Navigator](#).

The EIA-895 also collected data on volumes returned to formation for repressuring, pressure maintenance, and cycling; quantities vented and flared; quantities of nonhydrocarbon gases removed; quantities of fuel used on

lease; and marketed production as well as the monthly volume and value of marketed production. From 2011 forward, these data were obtained directly from the states or, where it was not available, estimated by EIA. The annual schedule of the EIA-895 also collected data on the number of producing gas wells, the production of natural gas including gross withdrawals from both gas and oil wells; volumes returned to formation for repressuring, pressure maintenance, and cycling; quantities vented and flared; quantities of nonhydrocarbon gases removed; quantities of fuel used on lease; marketed production; the value of marketed production; and quantity of marketed production (value based). From 2011 forward, the same items were obtained directly from the states or estimated by EIA where it was not available. From 2011 forward, the number of producing wells is from *World Oil Magazine*. All volumes are in thousand cubic feet at the states' standard pressure base and at 60 degrees Fahrenheit. All dollar values are reported in thousands.

### **Form EIA-914, "Monthly Natural Gas Production Report"**

The Form EIA-914 is a sample survey of well operators in the Lower 48 states and 16 states or regions (Arkansas, California, Colorado, Kansas, Louisiana, Montana, North Dakota, New Mexico, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and the Federal Offshore Gulf of Mexico). Current estimates of monthly production are based on this survey. The survey collects natural gas production volume information on a monthly basis, aggregated to the areas specifically requested. Two volumes are requested from respondents for each area in which they operate wells: (1) "gross withdrawals (wet)," which is the full-bore well stream gas minus lease condensate, oil, and water; and (2) "natural gas lease production," which is a measure indicating the net amount of produced gas leaving the lease to go to natural gas processing plants or directly to end-users. Estimates of gross withdrawals in a state are made from the reported gross withdrawal volumes. Marketed production is estimated from gross withdrawals using state estimates of repressuring, vented and flared, and nonhydrocarbon gases removed.

The EIA-914 survey form is an 11-page document, similar in format to other surveys in EIA's Office of Oil, Gas, and Coal Supply Statistics. The form was designed based on direct input from potential respondents during pre-survey design visits and the quality and usability of the survey instrument were established with cognitive testing conducted by survey methodologists in EIA's Statistics and Methods Group. Based on the test results, the form includes imbedded instructions, intended to help respondents complete the form without the need to refer to instructions located elsewhere.

A full description of the survey methodology may be found at the [EIA-914 Methodology](#).

### **Form EIA-191, "Underground Natural Gas Storage Report"**

The Form EIA-191, "Monthly Underground Natural Gas Storage Report," is completed by approximately 131 companies that operate underground facilities in the United States (prior to 2013, Alaska data were not included in the EIA-191 survey). The final monthly and annual response rates are 100 percent. The Form EIA-191 monthly schedule contains current month data on the total quantities of gas in storage, injections and withdrawals, the location (including state and county, field, reservoir) and peak day withdrawals during the reporting period. The annual schedule contains type of facility, storage field capacity, maximum deliverability

and pipelines to which each field is connected. The annual schedule for the prior year is filed with the December submission.

Collection of the survey is on a custody basis. Information requested must be provided within 20 days after the last day of each month. Twelve reports are required per calendar year. Respondents are required to indicate whether the data reported are actual or estimated. For most of the estimated filings, the actual data or necessary revisions are submitted on separate forms for each month. Actual data on natural gas injections and withdrawals from underground storage are based on metered quantities. Data on quantities of gas in storage and on storage capacity represent, in part, reservoir engineering evaluations. All volumes are reported at 14.73 psia and 60 degrees Fahrenheit.

The *Monthly Energy Review* contains data from the Form EIA-191 survey.

### [“Quarterly Natural Gas Import and Export Sales and Price Report”](#)

Beginning in 1995, import and export data have been taken from the “Quarterly Natural Gas Import and Export Sales and Price Report.” This report is prepared by the Office of Fossil Energy, U.S. Department of Energy, based on information submitted by all firms having authorization to import or export natural gas. The Office of Fossil Energy provides authorizations for imports or exports under Section 3 of the Natural Gas Act of 1938.

All companies are required, as a condition of their authorizations, to file monthly and quarterly reports with the Office of Fossil Energy. The data are reported at a monthly level of detail.

### [Form EIA-857, “Monthly Report of Natural Gas Purchases and Deliveries to Consumers”](#)

Monthly price and volume data on gas deliveries are collected on the Form EIA-857 from a sample of respondents representing the 50 states and the District of Columbia. Response to Form EIA-857 is mandatory and data are considered proprietary. Completed forms are required to be submitted to EIA on or before the 30th day after the end of the report month.

A sample of approximately 300 natural gas companies, including interstate pipelines, intrastate pipelines, and local distribution companies, report to the survey. The sample was selected independently for each of the 50 states and the District of Columbia from a frame consisting of all respondents to Form EIA-176 who reported deliveries of natural gas to consumers in the residential, commercial, or industrial sectors. Each selected company is required to complete and file the Form EIA-857 monthly. Each month about half the responses are received by the due date although response rates by first publication of the relevant month are approximately 95 percent. When a response is extremely late, volumes are imputed, as described in Appendix C, “Statistical Considerations.” When the company’s submission is eventually received, the submitted data are entered into the data system and used for subsequent processing and revisions.

Form EIA-857 data are used to estimate monthly sales of natural gas (volume and price) by state and monthly deliveries of natural gas on behalf of others (volume) by state to three consumer sectors --residential, commercial, and industrial. Data from Form EIA-857 are also used to calculate the citygate price. See Appendix

C for a discussion of the sample design and estimation procedures. Monthly prices of natural gas to the electric power sector are calculated from data reported on Form EIA-923, "Electric Power Plant Operations." Data from Form EIA-857 are also used to calculate the citygate price.

### **Form EIA-910, "Monthly Natural Gas Marketer Survey"**

The Form EIA-910, "Monthly Natural Gas Marketer Survey," collects information on natural gas sales from marketers in selected states (Florida, Georgia, Illinois, Maryland, Massachusetts, Michigan, New Jersey, New York, Ohio, Pennsylvania, West Virginia, Virginia, and the District of Columbia) that have active customer choice programs. Beginning in 2011, the EIA-910 is collected only in Georgia, New York and Ohio. These states were selected based on the percentage of natural gas sold by marketers in the residential and commercial end-use sectors. The survey collects monthly price and volume data on natural gas sold by all marketers in the selected states. A natural gas marketer is a company that competes with other companies to sell natural gas service, but relies on regulated local distribution companies to deliver the gas. The data collected on the Form EIA-910 are integrated with residential and commercial price data from the Form EIA-857 for the states where the EIA-910 data are collected as data quality becomes acceptable. Response to the EIA-910 is mandatory and data are considered proprietary.

Approximately 100 natural gas marketers currently report to the survey. Final monthly survey response rates are approximately 95 percent. Responses are filed with EIA in Washington, DC, on or before the 30th day after the end of the report month.

All natural gas volumes are reported in thousand cubic feet at 14.73 psia at 60 degrees Fahrenheit, and dollar values are reported as whole dollar.

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## Appendix C

### Statistical Considerations

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The monthly volumes and prices of natural gas to residential, commercial, and industrial consumers presented in this report by state are estimated from data reported on the Form EIA-857, “Monthly Report of Natural Gas Purchases and Deliveries to Consumers.”

Monthly prices in select states are supplemented with data from the Form EIA-910, “Monthly Natural Gas Marketer Survey.” (See Appendix B, “Data Sources,” for a description of these Forms.)

A description of the sample design and the estimation procedures is given below.

#### *Sample Design*

The Form EIA-857 implements a monthly sample survey of companies delivering natural gas to consumers. It includes inter- and intrastate pipeline companies and local distribution companies.

The survey provides data that are used each month to estimate the volume of natural gas delivered and the price for onsystem sales of natural gas by state to three consumer sectors—residential, commercial, and industrial.

Monthly deliveries and prices of natural gas to the electric power sector are reported on the Form EIA-923, “Power Plant Operations Report.”

**Sample Universe.** The sample in use for 2018 was selected from a universe of 1,591 companies. These companies were respondents to the Form EIA-176, “Annual Report of Natural and Supplemental Gas Supply and Disposition,” for reporting year 2016, who reported sales or deliveries to consumers in the residential, commercial, or industrial sectors. (See Appendix B for a description of the Form EIA-176.)

**Sampling Plan.** Beginning in 2012, EIA changed its sample design from single stage probability-proportional-to-size (“PPS”) to a cut off sample in order to reduce respondent burden and decrease processing costs. The skewness of the volume of reported natural gas within the primary traditional sectors of interest for the EIA-857, residential, commercial, and industrial, is sufficiently large to enable a cut-off design that will maintain estimates of similar quality as under the previous PPS sample design.

One of the purposes of the sample is to provide a ratio useful for scaling the monthly state sector volumes in the sample up to precise estimates of the actual state sector monthly volumes. In cases where at most two suppliers in a state service a particular sector, all suppliers are included in the cut off sample. In states with more than two suppliers in a sector, the cut off sample is constructed by adding suppliers in descending order of volume until the change in the ratio of interest is considered statistically insignificant.

The single stage PPS sample design typically yielded approximately 390 respondents for the EIA-857 during 2009-2011. The cutoff sample approach as described above reduces this figure to approximately 300 respondents.

## Estimation Procedures

**Estimates of Volumes.** Total gas sales and deliveries is estimated as the sum of estimated volume of natural gas sales by EIA-857 sample companies and estimated volume of natural gas transported on behalf of others by EIA-857 sample companies. To estimate each component volume for a state, a ratio estimator is calculated separately for the volume of natural gas sales by EIA-857 sample companies and the volume of natural gas transported on behalf of others by EIA-857 sample companies. These ratios are then applied to the reported sales volumes and transportation volumes respectively. This is done in each state by sector for the sampled companies.

Ratio estimators are typically calculated for each consumer sector — residential, commercial, and industrial — in each state where companies are sampled using annual data from the most recent submission of Form EIA-176.

The classical ratio estimator (CRE) for the volume of gas in a state for consumer sector  $j$  is:

$$V_j = \sum_{i \in s} y_{ij} + \frac{\sum_{i \in s} y_{ij}}{\sum_{i \in s} x_{ij}} \sum_{i \notin s} x_{ij}$$

or (1)

$$V_j = \frac{\sum_{i \in s} y_{ij}}{\sum_{i \in s} x_{ij}} \sum_{i \in s \cup s^c} x_{ij}$$

where for either the natural gas sales by **EIA-857 sample companies** or the natural gas transported on behalf of others by EIA-857 sample companies:

$V_j$  = the estimate of monthly gas volumes in a state for consumer sector  $j$ ,

$y_{ij}$  = the monthly volume within a state for sector  $j$  and company  $i$ ,

$x_{ij}$  = the annual volume within a state for sector  $j$  and company  $i$ ,

Ideally, the ratio  $\frac{\sum_{i \in s} y_{ij}}{\sum_{i \in s} x_{ij}}$  is calculated separately for each state by sector cross classification. However, because certain states have extremely small sample sizes, we combine some states for estimation purposes only, in order to obtain more stable estimates. The state groupings are referred to as estimation groups. For most states, especially the large ones, the ratio will continue to be estimated separately as described above. The final volume estimates,  $V_j$ , will continue to be published separately for all states.

When an estimation group involves more than one state, such states are geographical neighbors, and the states in each group fall within a temperature and precipitation region, as defined by the National Climatic Data Center (NCDC).

Grouping states this way is an application of small area estimation, where more reliable estimates are obtained by “borrowing strength” from neighboring states with similar climate patterns. For more details see <http://interstat.statjournals.net/YEAR/2014/articles/1405001.pdf>

For most respondents, the estimation of residential and commercial consumption requires one additional step than the industrial sector. In this extra step the company level reported volumes are adjusted using sendout.

Sendout, which was added to Form EIA-857 for the August 2010 report month, is the total volume of gas dispatched for delivery during a calendar month. It should be noted that the adjusted volumes for the residential and commercial sector are used in equation 2.

The adjustment is implemented by taking reported sendout and removing gas that is consumed in company operations and distribution use as well as gas delivered to electric power, industrial, and vehicle use sectors. The remaining gas is allocated to the residential and commercial sectors proportionally based on reported totals for the report month. For a small number of companies, the adjustment to sendout is applied to all sectors in order to better represent their billing practices. In these cases, sendout is applied to all end-use sectors proportionally instead of just to residential and commercial.

The formulas for adjusting the reported residential and commercial volumes at the company level are:

$$R_{adj} = (SO * (1 - Oth) - EP - IN) * \frac{R}{R + C} \quad (2)$$

$$C_{adj} = (SO * (1 - Oth) - EP - IN) * \frac{C}{R + C} \quad (3)$$

where:

$R_{adj}$  = sendout adjusted residential volume,

$C_{adj}$  = sendout adjusted commercial volume,

SO = sendout volume,

Oth = ratio of annual distribution use and vehicle fuel to total deliveries,

EP = reported electric power volume,

IN = reported industrial volume,

R = reported residential volume,

C = reported commercial volume.

**Estimates of Revenue.** Revenue is calculated similarly to volumes. Sales revenue is estimated as the sum of estimated revenue from natural gas sales by EIA-857 sample companies for each sector by state and applying the ratio estimator in equation 1. Similar to volumes, states are combined if the sample size (by sector) is too small in order to estimate the ratio.

**Computation of Natural Gas Prices.** The natural gas volumes that are included in the computation of prices represent only those volumes associated with natural gas sales by natural gas companies except as explained below.

The price of natural gas within a state for sector  $j$  is calculated as follows:

$$P_j = \frac{R_j}{V_j} \quad (4)$$

where:

$P_j$  = the average price for gas sales within a state for consumer sector  $j$ ,

$R_j$  = the reported revenue from natural gas sales within a state for consumer sector  $j$ ,

$V_j$  = the reported volume of natural gas sales within a state for consumer sector  $j$ .

All average prices are weighted by their corresponding sales volume estimates when national average prices are computed.

For select states (Georgia, New York and Ohio), the monthly average prices of natural gas to residential and commercial consumers are based on total sales (sales by local distribution companies and natural gas marketers). See the Form EIA-910 description in Appendix B, "Data Sources," for details.

Volumes of gas delivered for the account of others to these consumer sectors are not included in the state or national average prices except in these states.

The price of natural gas in the residential and commercial sectors where EIA-910 data are used is calculated as follows:

$$P_c = \left[ \left( \frac{R_s}{V_s} \right) * \left( \frac{V_s}{V_s + V_t} \right) \right] + \left[ \left( \frac{Rm_s}{Vm_s} \right) * \left( \frac{V_t}{V_s + V_t} \right) \right] = \frac{R_s + \left( \frac{Rm_s}{Vm_s} \right) * V_t}{V_s + V_t} \quad (5a)$$

for Georgia, and,

$$P_c = \left[ \left( \frac{R_s}{V_s} \right) * \left( \frac{V_s}{V_s + V_t} \right) \right] + \left[ \left( \frac{Rm_s}{Vm_s} + \frac{R_t}{V_t} \right) * \left( \frac{V_t}{V_s + V_t} \right) \right] = \frac{R_s + \left( \frac{Rm_s}{Vm_s} \right) * V_t + R_t}{V_s + V_t} \quad (5b)$$

for New York and Ohio, where:

$P_c$  = the combined average price for gas sales by local distribution companies and marketers within the state in sector  $s$  (residential or commercial),

$R_s$  = the estimated revenue from natural gas sales by local distribution companies within the state in sector  $s$  (residential or commercial),

$V_s$  = the estimated volume of natural gas sales by local distribution companies within the state in sector  $s$  (residential or commercial),

$V_t$  = the estimated volume of natural gas transported by local distribution companies for marketers within the state in sector  $s$  (residential or commercial),

$Rm_s$  = the reported revenue from natural gas sales by marketers within the state in sector  $s$  (residential or commercial),

$Vm_s$  = the reported volume of natural gas sales by a marketer within the state in sector  $s$  (residential or commercial),

$R_t$  = the estimated revenue from natural gas transported by local distribution companies for marketers within the state in sector  $s$  (residential or commercial).

Table 24 shows the percent of the total state volume that represents volumes from natural gas sales to the residential, commercial, and industrial sectors. This table may be helpful in evaluating residential, commercial, and industrial price data.

#### Estimation for Nonrespondents and Edit Failures.

A volume for each delivered and transported consumer category is imputed for companies that fail to respond in time for inclusion in the published estimates (unit nonresponse) or for which reported volumes have failed the edit and not been confirmed or corrected (item nonresponse).

In the case of unit nonresponse and edit failures, the imputed volumes and revenues for the residential, commercial, and industrial sectors are predicted using CRE. In other words, they are predicted the same way as out of sample cases. In particular, for company  $i$ , which can be a nonrespondent, edit failure or not sampled, the predicted value is given as:

$$y_{ij}^* = \frac{\sum_{i \in s, j} y_{ij}}{\sum_{i \in s, j} x_{ij}} x_{ij}^*$$

where:

$y_{ij}^*$  = the estimated value (volume or revenue) of the nonrespondent company or for a company value that fails an edit,

$x_{ij}^*$  = the reported value (volume or revenue) of the nonrespondent company from the latest Form EIA 176 survey.

Again the ratio  $\frac{\sum_{i \in s} y_{ij}}{\sum_{i \in s} x_{ij}}$  is calculated separately for most states, but several states can be combined as described in the “Estimates of Volume” section above when sample size is too small for a state by sector classification.

## Final Revisions

**Adjusting Monthly Data to Annual Data.** After the annual data reported on the Form EIA-176 have been submitted, edited, and prepared for publication in the [Natural Gas Annual](#) (NGA), revisions are made to monthly data.

The revisions are made to the volumes and prices of natural gas delivered to consumers that have appeared in the *Natural Gas Monthly* (NGM) to match them to the annual values appearing in the *Natural Gas Annual*.

The revised monthly estimates allocate the difference between the sum of monthly estimates and the annual reports, according to the distribution of the estimated values across the months.

Before the final revisions are made, changes or additions to submitted data received after publication of the monthly estimate and not sufficiently large to require a revision to be published in the NGM, are used to derive an updated estimate of monthly consumption and revenues for each state's residential, commercial, or industrial natural gas consumption.

For each state, two numbers are revised, the estimated consumption and the estimated price per thousand cubic feet.

The formula for revising the estimated consumption is:

$$V_{jm}^* = V_{jm} \left( \frac{V_{ja}}{V'_{jm}} \right) \quad (6)$$

where:

$V_{jm}^*$  = the final volume estimate for month m in consumer sector j,

$V_{jm}$  = the estimated volume for month m in consumer sector j,

$V_{ja}$  = the volume for the year reported on Form EIA-176,

$V'_{jm}$  = the annual sum of estimated monthly volumes.

The price is calculated as described above in the Estimation Procedures section, using the final revised consumption estimate and a revised revenue estimate.

The formula for revising the estimated revenue is:

$$R_{jm}^* = R_{jm} \left( \frac{R_{ja}}{R'_{jm}} \right) \quad (7)$$

where:

$R_{jm}^*$  = the final revenue estimate for month m in consumer sector j,

$R_{jm}$  = the estimated revenue for month m in consumer sector j,

$R_{ja}$  = the revenue for the year reported on Form EIA-176,

$R'_{jm}$  = the annual sum of estimated monthly revenues.

**Revision of Volumes and Prices for Deliveries to Electric Power Sector.** Revisions to monthly deliveries to the electric power sector are published throughout the year as they become available.

### **Reliability of Monthly Data**

The monthly data published in this report are subject to two sources of error — nonsampling error and sampling error. Nonsampling errors occur in the collection and processing of the data.

See the discussion of the Form EIA-857 in Appendix B for a description of nonsampling errors for monthly data.

Sampling error may be defined as the difference between the results obtained from a sample and the results that a complete enumeration would provide. The standard error statistic is a measurement of sampling error.

**Standard Errors.** A standard error of an estimate is a statistical measure that indicates how the estimate from the sample compares to the result from a complete enumeration.

The standard errors for monthly natural gas volume and price estimates by state are given in Table C1. They are constructed so that over the long run the true value is within two standard errors of its estimate 95% of the time. For volume estimates, the relative standard error (RSE) is published as a percent. Standard errors of prices are expressed in dollars.

The relative standard error of a natural gas volume estimate is the square root of the variance of the estimate divided by the published volume. The formula for calculating the variance of the volume estimate is:

$$Var(V_j) = \sigma_\epsilon^2 \sum_{i=n+1}^N x_{ij} + \left( \frac{\sigma_\epsilon^2}{\sum_{i=1}^n x_{ij}} \right) \left( \sum_{i=n+1}^N x_{ij} \right)^2 \quad (8)$$

where:

$V_{.j}$  = the estimate of monthly gas volumes in a state for sector j,

$\sigma_\epsilon^2 = \frac{\sum_{i=1}^n \sigma_{0i}^2}{(n-1)}$ , the sum of squared residuals,

$\sigma_{0i} = \frac{(y_{ij} - T_{.j} x_{ij})}{\sqrt{x_{ij}}}$ , the weighted residual for company i,

$T_{.j}$  = the ratio estimator defined in equation 1,

$x_{ij}$  = the reported annual volume for company i in sector j,

$y_{ij}$  = the reported monthly volume for company i in sector j,

$n$  = sample size (  $i > n$  implies company i not in sample),

$N$  = frame size.

As the price of natural gas is calculated as a quotient of revenue to volume, the standard error of natural gas prices is derived using the variance properties of a quotient. The variance of revenue is calculated in the same manner as the volumes described in equation 8, with revenue substituted for volume. The formula for calculating the standard error of the price in equation 4 is:

$$\text{Var}(P_j) = \text{Var}\left(\frac{R_j}{V_j}\right) = \left(\frac{R_j}{V_j}\right)^2 * \left(\frac{\text{Var}(R_j)}{R_j^2} + \frac{\text{Var}(V_j)}{V_j^2} - 2\frac{\text{Cov}(R_j, V_j)}{R_j * V_j}\right) \quad (9)$$

where:

$P_j$  = natural gas price in sector j,

$V_j$  = volume in sector j, which is estimated in equation 1,

$R_j$  = revenue in sector j, which is estimated in same manner as equation 1,

$\text{Var}(V_j)$  = the variance of volume in sector j calculated using equation 8,

$\text{Var}(R_j)$  = the variance of revenue in sector j calculated in the same manner as equation 8,

$\text{Cov}(V_j, R_j)$  = the covariance between revenue and volume in sector j. The formula for estimating the covariance is:

$$\left[ \left( \sum_{i=n+1}^N x_{Rij} \right) \left( \sum_{i=n+1}^N x_{Vij} \right) \frac{\sum_{i=1}^n \sqrt{x_{Rij} x_{Vij}}}{\left( \sum_{i=1}^n x_{Rij} \right) \left( \sum_{i=1}^n x_{Vij} \right)} + \sum_{i=n+1}^N \sqrt{x_{Rij} x_{Vij}} \right] \\ * \left[ \left( \frac{1}{n-1} \right) \sum_{i=1}^n \sqrt{x_{Rij} x_{Vij}} (y_{Rij} - T_{Rj})(y_{Vij} - T_{Vj}) \right]$$

and,

$x_{Rij}$  = the reported annual revenue for company i in sector j,

$x_{Vij}$  = the reported annual volume for company i in sector j,

$y_{Rij}$  = the reported monthly revenue for company i in sector j,

$y_{Vij}$  = the reported monthly volume for company i in sector j,

$$T_{Rj} = \frac{\sum_{i \in s} y_{Rij}}{\sum_{i \in s} x_{Rij}},$$

$$T_{Vj} = \frac{\sum_{i \in s} y_{Vij}}{\sum_{i \in s} x_{Vij}}.$$

The formula for calculating the standard error of price in equations 5a and 5b is derived after a suitable expansion that involves repeated applications of equations 8 and 9.

Table C1. Standard error for natural gas deliveries and price by consumers, by state, February 2018

State	Volume Relative Standard Error (Percent)				Price (Dollars per Thousand Cubic Feet)		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama	2.9	2.8	1.5	1.2	0.13	0.18	0.15
Alaska	0.4	7.8	0.0	3.0	0.01	0.63	0.00
Arizona	2.0	NA	2.5	NA	0.05	0.17	0.06
Arkansas	0.9	0.3	4.1	1.7	0.02	0.02	0.07
California	0.9	1.5	0.4	0.5	0.20	0.49	0.34
Colorado	1.3	NA	1.7	NA	0.07	0.04	0.10
Connecticut	0.3	0.5	0.7	0.3	0.03	0.07	0.03
Delaware	0.0	0.0	NA	NA	0.00	0.00	0.00
District of Columbia	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Florida	2.6	1.9	6.7	3.5	0.51	0.46	0.51
Georgia	0.0	0.0	2.6	0.0	0.10	0.08	0.22
Hawaii	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Idaho	0.2	0.5	0.0	0.2	NA	NA	0.00
Illinois	0.9	0.5	1.5	0.6	0.06	0.09	NA
Indiana	1.9	0.7	2.3	1.4	0.14	0.14	0.07
Iowa	0.9	0.3	1.8	0.9	0.07	NA	NA
Kansas	1.4	0.5	2.9	1.3	0.06	0.06	0.56
Kentucky	1.5	1.6	2.9	1.6	0.15	0.14	NA
Louisiana	2.4	3.9	2.4	2.3	0.13	0.35	0.10
Maine	3.3	2.5	3.2	NA	0.55	NA	NA
Maryland	0.2	0.3	NA	NA	0.05	0.07	0.23
Massachusetts	1.4	2.9	1.9	1.4	NA	NA	0.52
Michigan	0.6	0.5	NA	NA	0.05	0.09	0.04
Minnesota	0.9	0.5	3.7	1.1	0.17	0.18	0.18
Mississippi	1.0	1.4	5.8	4.1	0.06	0.05	0.14
Missouri	1.4	0.8	3.0	1.0	0.06	0.06	0.22
Montana	0.5	0.4	0.0	0.3	0.04	0.11	0.04
Nebraska	0.5	0.7	6.0	2.3	0.14	0.14	0.27
Nevada	0.0	0.0	0.3	0.1	0.00	0.00	0.08
New Hampshire	0.0	0.0	NA	NA	0.00	0.00	0.00
New Jersey	0.0	0.0	NA	NA	0.00	0.00	0.00
New Mexico	2.1	1.9	3.6	1.4	0.12	0.14	0.80
New York	0.0	0.0	3.5	0.0	0.05	0.03	0.40
North Carolina	0.6	2.7	1.4	0.9	0.18	0.08	0.21
North Dakota	0.1	0.1	1.4	0.6	0.01	0.01	0.00
Ohio	0.0	0.0	3.5	0.0	0.03	0.03	NA
Oklahoma	1.5	3.8	2.1	1.4	0.13	0.16	NA
Oregon	0.0	0.0	2.6	NA	0.00	0.00	0.00
Pennsylvania	0.7	1.0	1.3	0.5	0.04	0.06	NA
Rhode Island	0.0	0.0	0.0	0.0	0.00	0.00	0.00
South Carolina	3.3	3.2	3.0	2.0	1.02	0.39	0.16
South Dakota	1.3	1.1	1.1	0.7	0.06	0.03	0.04
Tennessee	2.7	2.7	2.4	1.5	0.13	0.12	0.23
Texas	1.8	4.8	2.0	1.6	0.21	0.21	0.03
Utah	0.3	1.5	0.1	0.5	0.00	0.00	0.05
Vermont	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Virginia	1.4	1.6	0.7	0.8	0.09	0.16	0.14
Washington	0.1	0.4	2.0	0.6	0.00	0.11	0.02
West Virginia	4.4	1.8	2.5	2.0	0.58	0.31	1.05
Wisconsin	1.0	0.9	1.8	0.7	0.05	0.02	0.18
Wyoming	0.3	1.1	5.3	2.9	0.37	0.23	0.05
<b>Total</b>	<b>0.2</b>	<b>0.4</b>	<b>0.6</b>	<b>0.3</b>	<b>0.02</b>	<b>0.03</b>	<b>0.03</b>

NA Not available.

Source: Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

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## Glossary

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**Aquifer Storage Field:** A sub-surface facility for storing natural gas, consisting of water-bearing sands topped by an impermeable cap rock.

**Balancing Item:** Represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to data reporting or survey coverage problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperature and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems which vary in scope, format, definitions, and type of respondents.

**Base (Cushion) Gas:** The volume of gas needed as a permanent inventory to maintain adequate reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

**British Thermal Unit (Btu):** The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit).

**Btu Per Cubic Foot:** The total heating value, expressed in Btu, produced by the combustion, at constant pressure, of the amount of the gas that would occupy a volume of 1 cubic foot at a temperature of 60 degrees F if saturated with water vapor and under a pressure equivalent to that of 30 inches of mercury at 32 degrees F and under standard gravitational force (980.665 cm. per sec. squared) with air of the same temperature and pressure as the gas, when the products of combustion are cooled to the initial temperature of gas and air when the water formed by combustion is condensed to the liquid state.(Sometimes called gross heating value or total heating value.)

**Citygate:** A point or measuring station at which a gas distribution company receives gas from a pipeline company or transmission system.

**Commercial Consumption:** Gas used by nonmanufacturing establishments or agencies primarily engaged in the sale of goods or services such as hotels, restaurants, wholesale and retail stores and other service enterprises; and gas used by local, state and federal agencies engaged in nonmanufacturing activities.

**Compressed Natural Gas (CNG):** Natural gas which is comprised primarily of methane, compressed to a pressure at or above 2,400 pounds per square inch and stored in special high-pressure containers. It is used as a fuel for natural gas powered vehicles.

**Depleted Storage Field:** A sub-surface natural geological reservoir, usually a depleted oil or gas field, used for storing natural gas.

**Dry Natural Gas Production:** The process of producing consumer-grade natural gas. Natural gas withdrawn from reservoirs is reduced by volumes used at the production (lease) site and by processing losses. Volumes used at

the production site include (1) the volume returned to reservoirs in cycling, repressuring of oil reservoirs, and conservation operations; and (2) gas vented and flared. Processing losses include (1) nonhydrocarbon gases (e.g., water vapor, carbon dioxide, helium, hydrogen sulfide, and nitrogen) removed from the gas stream; and (2) gas converted to liquid form, such as lease condensate and plant liquids. Volumes of dry gas withdrawn from gas storage reservoirs are not considered part of production. Dry natural gas production equals marketed production less natural gas plant liquid production.

**Electric Power Consumption:** Gas used as fuel in the electric power sector.

**Electric Power Sector:** An energy-consuming sector that consists of electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public – i.e., North American Industry Classification System 22 plants.

**Exports:** Natural gas deliveries out of the continental United States (including Alaska) to foreign countries.

**Gas Well:** A well completed for production of natural gas from one or more gas zones or reservoirs. Such wells contain no completions for the production of crude oil.

**Gross Withdrawals:** Full well stream volume, including all natural gas plant liquid and nonhydrocarbon gases, but excluding lease condensate. Also includes amounts delivered as royalty payments or consumed in field operations.

**Heating Value:** The average number of British thermal units per cubic foot of natural gas as determined from tests of fuel samples.

**Imports:** Natural gas received in the Continental United States (including Alaska) from a foreign country.

**Industrial Consumption:** Natural gas used for heat, power, or chemical feedstock by manufacturing establishments or those engaged in mining or other mineral extraction as well as consumers in agriculture, forestry, and fisheries. Also included in industrial consumption are generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.

**Intransit Deliveries:** Redeliveries to a foreign country of foreign gas received for transportation across U.S. territory and deliveries of U.S. gas to a foreign country for transportation across its territory and redelivery to the United States.

**Intransit Receipts:** Receipts of foreign gas for transportation across U.S. territory and redelivery to a foreign country and redeliveries to the United States of U.S. gas transported across foreign territory.

**Lease and Plant Fuel:** Natural gas used in well, field, lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors) and as fuel in natural gas processing plants.

**Liquefied Natural Gas (LNG):** Natural gas (primarily methane) that has been liquefied by reducing its temperature to -260 degrees Fahrenheit at atmospheric pressure.

**Local Distribution Company (LDC):** A legal entity engaged primarily in the retail sale and/or delivery of natural gas through a distribution system that includes mainlines (that is, pipelines designed to carry large volumes of gas,

usually located under roads or other major right-of-ways) and laterals (that is, pipelines of smaller diameter that connect the end user to the mainline). Since the restructuring of the gas industry, the sale of gas and/or delivery arrangements may be handled by other agents, such as producers, brokers, and marketers that are referred to as "non-LDC."

**Marketed Production:** Gross withdrawals less gas used for repressuring, quantities vented and flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations.

**Native Gas:** Gas in place at the time that a reservoir was converted to use as an underground storage reservoir, as in contrast to injected gas volumes.

**Natural Gas:** A gaseous mixture of hydrocarbon compounds, the primary one being methane. Note: The Energy Information Administration measures wet natural gas and its two sources of production, associated/dissolved natural gas and nonassociated natural gas, and dry natural gas, which is produced from wet natural gas.

**Natural Gas Liquids (NGL):** A group of hydrocarbons including ethane, propane, normal butane, isobutane, and natural gasoline. Generally include natural gas plant liquids and all liquefied refinery gases, except olefins.

**Natural Gas Marketer:** A company that arranges purchases and sales of natural gas. Unlike pipeline companies or local distribution companies, a marketer does not own physical assets commonly used in the supply of natural gas, such as pipelines or storage fields. A marketer may be an affiliate of another company, such as a local distribution company, natural gas pipeline, or producer, but it operates independently of other segments of the company. In states with residential choice programs, marketers serve as alternative suppliers to residential users of natural gas, which is delivered by a local distribution company.

**Natural Gas Plant Liquids (NGPL):** Those hydrocarbons in natural gas that are separated as liquids at natural gas processing, fractionating, and cycling plants. Products obtained include ethane, liquefied petroleum gases (propane and butanes), and natural gasoline. Component products may be fractionated or mixed. Lease condensate and plant condensate are excluded.

**Natural Gas Plant Liquids (NGPL) Production:** The extraction of gas plant liquids constituents such as ethane, propane, normal butane, isobutane, and natural gasoline, sometimes referred to as extraction loss. Usually reported in barrels or gallons, but may be reported in cubic feet for purposes of comparison with dry natural gas volumes.

**Nominal Dollars:** A measure used to express nominal price.

**Nominal Price:** The price paid for a product or service at the time of the transaction. Nominal prices are those that have not been adjusted to remove the effect of changes in the purchasing power of the dollar; they reflect buying power in the year in which the transaction occurred.

**Onsystem Sales:** Sales to customers where the delivery point is a point on, or directly interconnected with, a transportation, storage, and/or distribution system operated by the reporting company.

**Pipeline Fuel:** Gas consumed in the operation of pipelines, primarily in compressors.

**Repressuring:** The injection of gas into oil or gas formations to effect greater ultimate recovery.

**Residential Consumption:** Gas used in private dwellings, including apartments, for heating, cooking, water heating, and other household uses.

**Salt Cavern Storage Field:** A storage facility that is a cavern hollowed out in either a “salt bed” or “dome” formation.

**Storage Additions:** Volumes of gas injected or otherwise added to underground natural gas reservoirs or liquefied natural gas storage.

**Storage Withdrawals:** Total volume of gas withdrawn from underground storage or from liquefied natural gas storage over a specified amount of time.

**Supplemental Gaseous Fuels Supplies:** Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

**Underground Gas Storage Reservoir Capacity:** Interstate company reservoir capacities are those certificated by FERC. Independent producer and intrastate company reservoir capacities are reported as developed capacity.

**Vehicle Fuel Consumption:** Natural gas (compressed or liquefied) used as vehicle fuel.

**Working (Top Storage) Gas:** The volume of gas in an underground storage reservoir above the designed level of the base. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.