



*Independent Statistics & Analysis*

U.S. Energy Information  
Administration

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# Natural Gas Monthly

March 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 January 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.

## 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	£2,727	£2,339	149	£2,190	5	20	675	£10	2,899
February	£2,504	£2,148	£144	£2,004	5	*	285	£35	2,328
March	£2,778	£2,381	£162	£2,220	5	9	275	17	2,526
April	£2,682	£2,308	£157	£2,151	5	-9	-230	£7	1,924
May	£2,770	£2,391	£166	£2,225	3	-10	-341	£18	£1,896
June	£2,682	£2,341	£162	£2,179	4	-14	-281	£21	1,910
July	£2,750	£2,443	£168	£2,276	5	2	-150	*	2,133
August	£2,764	£2,444	£164	£2,280	5	1	-196	£15	2,105
September	£2,757	£2,408	£158	£2,250	5	-21	-317	£5	1,923
October	£2,888	£2,507	£177	£2,329	4	-37	£-247	£-16	£2,032
November	£2,875	£2,497	£176	£2,321	6	£-45	85	-20	2,347
December	£2,997	£2,603	£175	£2,428	5	-23	£694	£-37	3,067
<b>Total</b>	<b>£33,174</b>	<b>£28,810</b>	<b>£1,956</b>	<b>£26,854</b>	<b>56</b>	<b>£-128</b>	<b>£253</b>	<b>£55</b>	<b>£27,090</b>
<b>2018</b>									
January	£2,962	£2,570	170	£2,400	5	*	895	17	3,317

<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 2012 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; 54 for 2013; and 57 for 2012. 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.

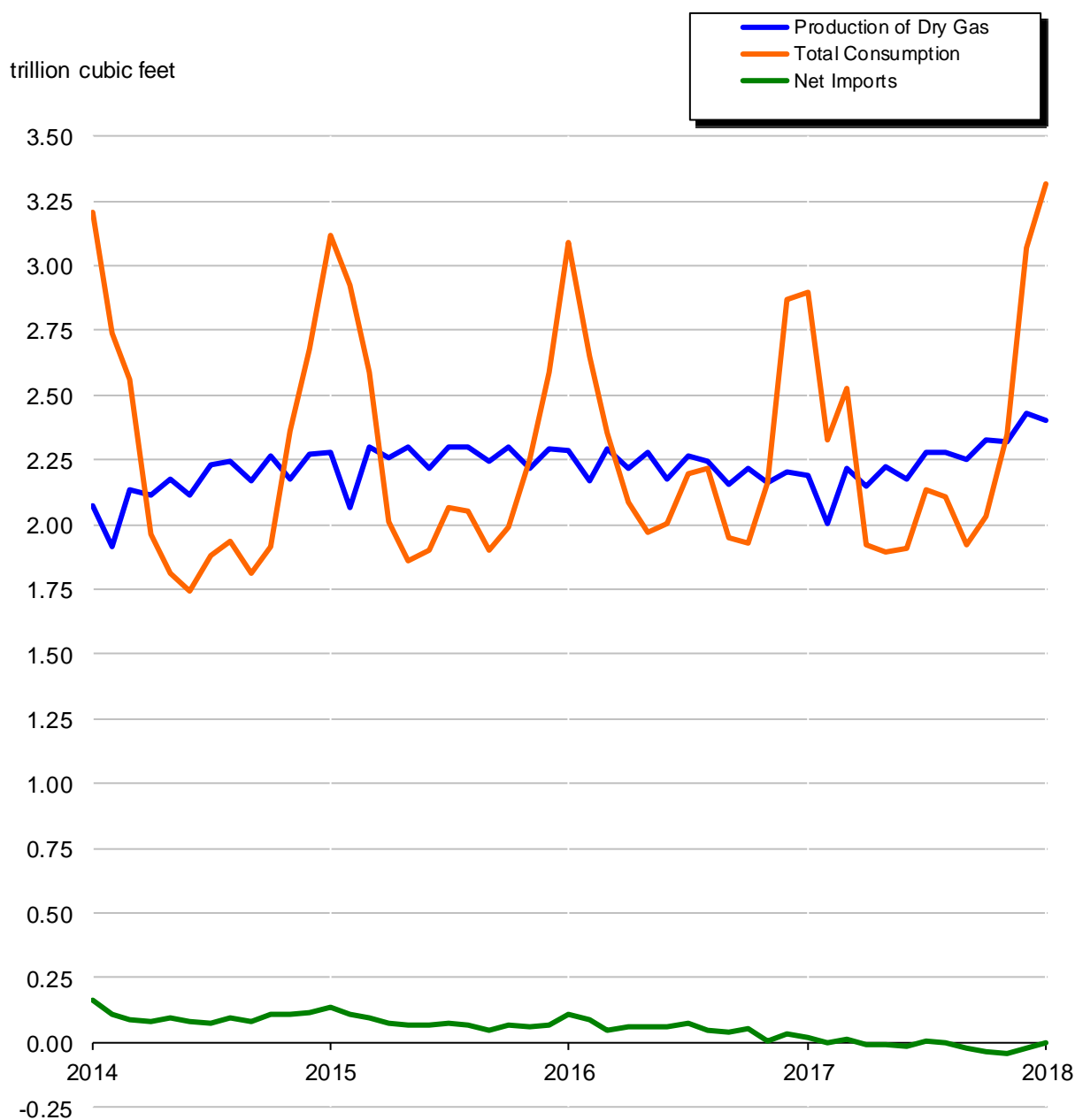
<sup>RE</sup> Revised estimated data.

**Notes:** Data for 2012 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:** 2012-2016: 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, 2014-2018



**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	£145	£78	825	488	759	768	£4	2,844	3,067	1,039
<b>Total</b>	<b>£1,608</b>	<b>£687</b>	<b>4,422</b>	<b>£3,177</b>	<b>7,902</b>	<b>9,250</b>	<b>£43</b>	<b>£24,795</b>	<b>£27,090</b>	<b>1,037</b>
<b>2018</b>										
January	£143	£84	974	548	769	795	£4	3,090	3,317	1,038

<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.

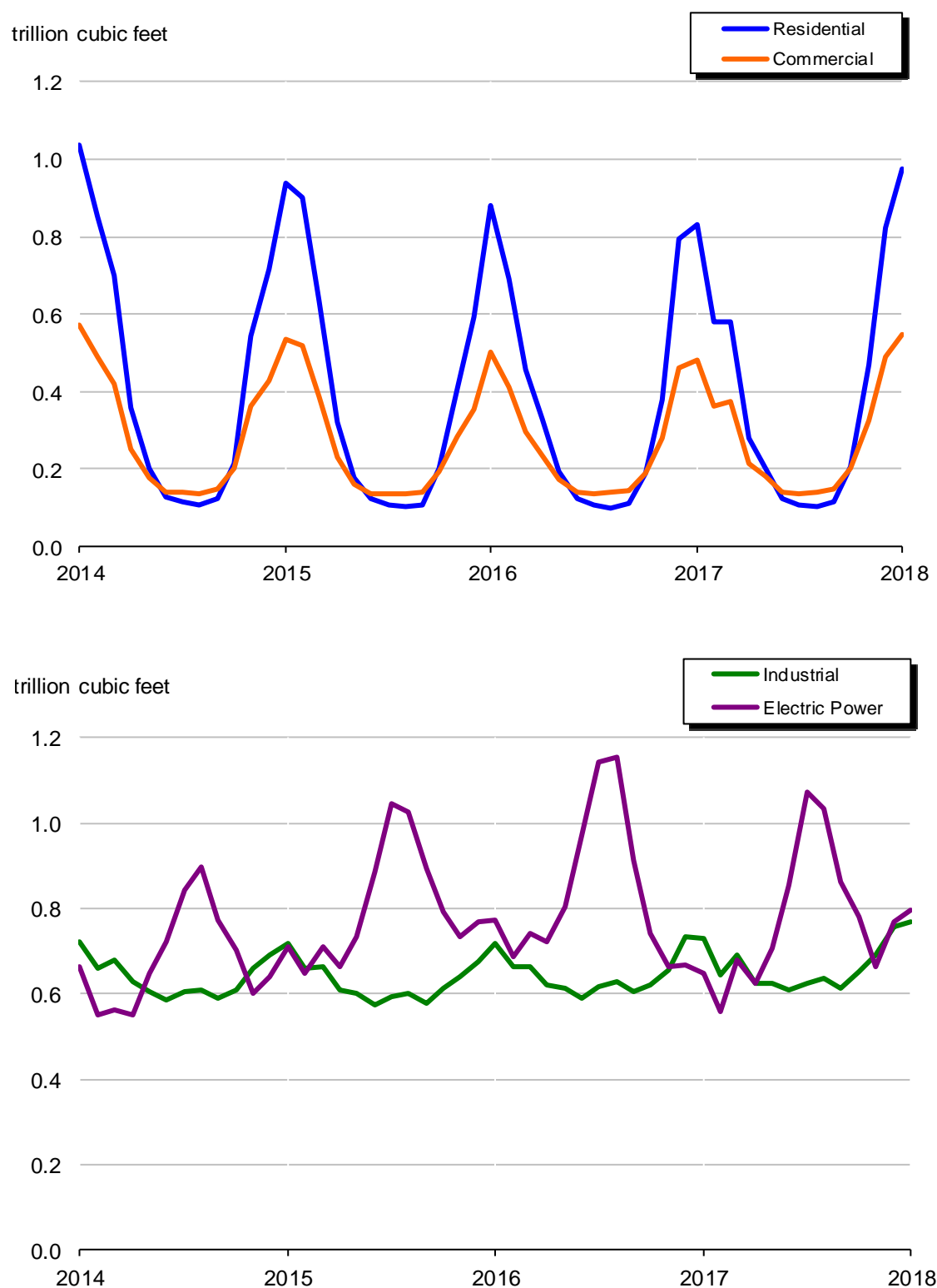
<sup>E</sup> Estimated data.

**Notes:** Data for 2012 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:** 2012-2016: 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, 2014-2018



**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						Electric Power Price <sup>d</sup>
				Residential		Commercial		Industrial		
				Price	% of Total <sup>c</sup>	Price	% of Total <sup>c</sup>	Price	% of Total <sup>c</sup>	
2013 Annual Average	9.94	3.73	4.88	10.32	95.7	8.08	65.8	4.64	16.6	4.49
2014 Annual Average	9.56	4.37	5.71	10.97	95.5	8.90	65.8	5.62	15.9	5.19
2015 Annual Average	4.97	2.62	4.26	10.38	95.6	7.91	65.7	3.93	14.8	3.38
2016										
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
Annual Average	5.04	2.52	3.71	10.05	95.8	7.28	64.8	3.52	14.7	2.99
2017										
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	7.68	67.8	3.98	15.0	3.52
April	6.25	3.10	4.18	11.38	95.3	8.08	65.0	4.17	14.5	3.50
May	6.14	3.15	4.41	13.32	95.6	8.32	60.8	4.07	13.8	3.61
June	5.73	2.97	4.81	16.13	94.5	8.76	58.2	4.10	14.4	3.41
July	6.27	2.98	4.68	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	4.57	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
Annual Average	6.92	2.99	4.16	10.98	95.9	7.89	65.4	4.14	14.5	3.52
2018										
January	7.90	3.87	4.27	8.93	96.1	7.43	71.2	4.53	15.0	5.35

<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.

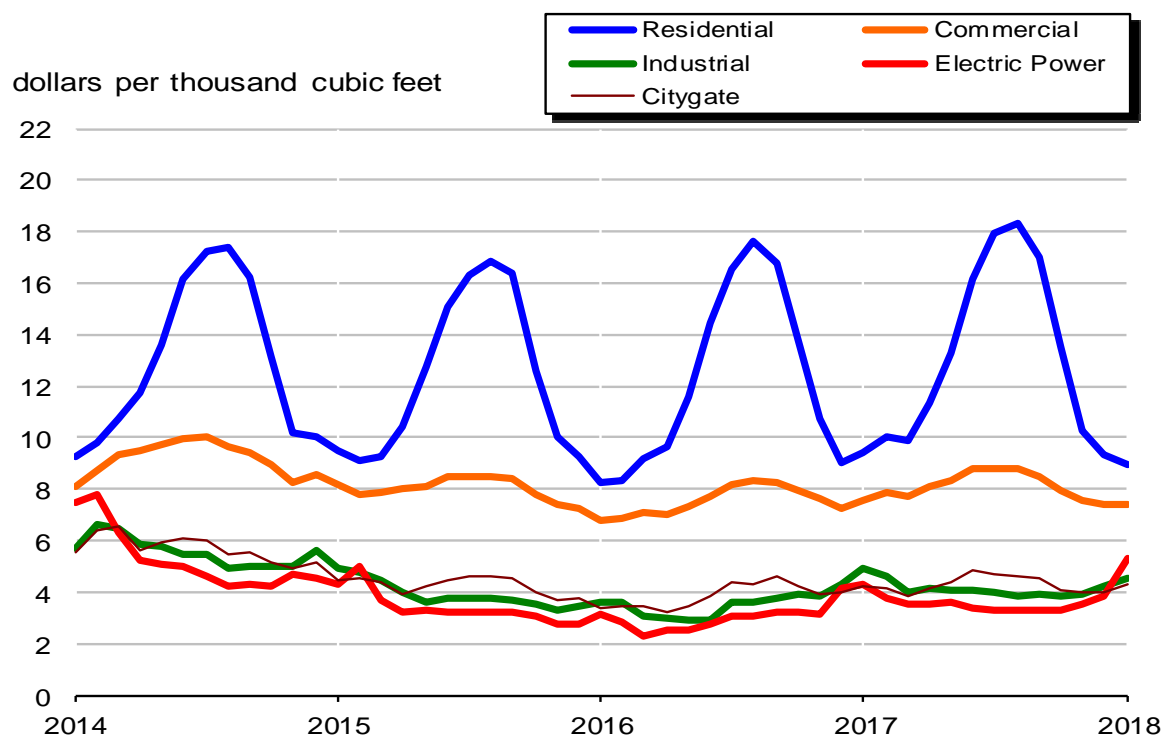
<sup>d</sup> The electric power sector comprises electricity-only and combined-heat-and-power plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Data include nonregulated members of the electric power sector.

<sup>R</sup> Revised data.

**Notes:** Prices are in nominal dollars. Data for 2012 through 2014 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:** 2012-2016: 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.

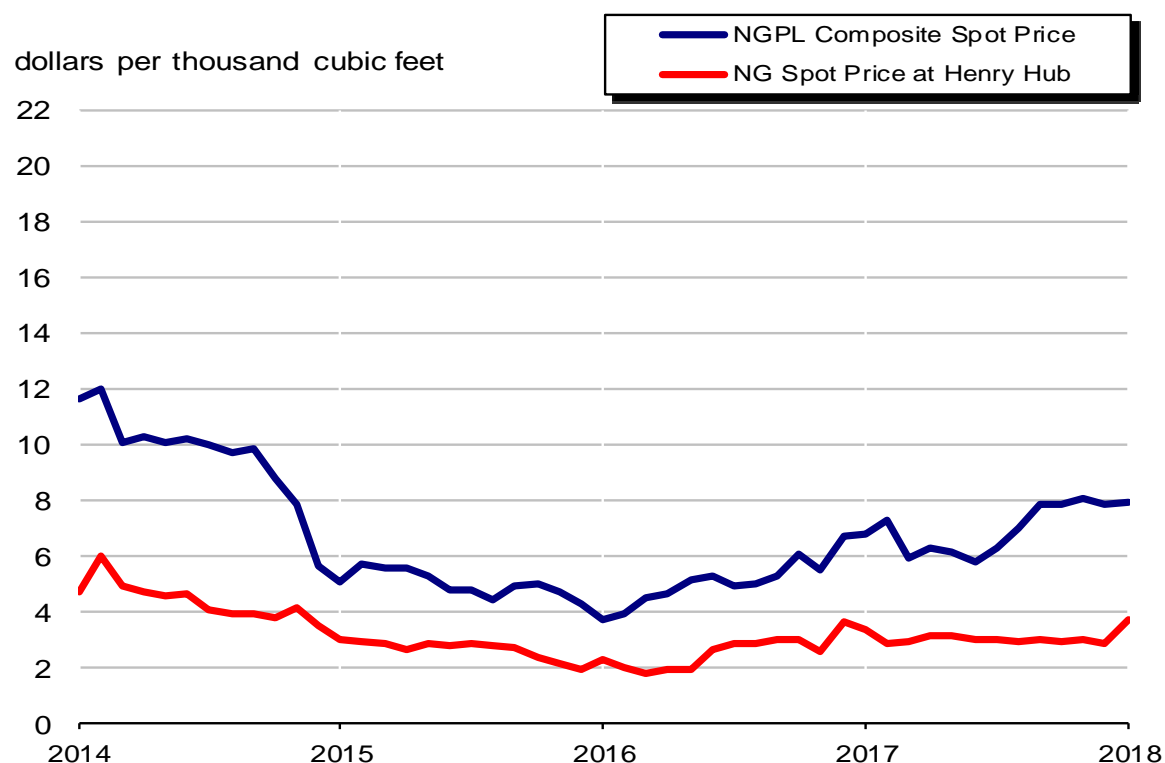
Figure 3. Average citygate and consumer prices of natural gas in the United States, 2014-2018



**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, 2014-2018



**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		
	January	Total	December	November	October	September
<b>Imports</b>						
Volume (million cubic feet)						
<b>Pipeline</b>						
Canada <sup>a</sup>	286,679	R2,960,454	R264,943	R236,438	241,425	226,738
Mexico	130	1,346	504	76	81	68
<b>Total Pipeline Imports</b>	<b>286,809</b>	<b>R2,961,800</b>	<b>R265,446</b>	<b>R236,514</b>	<b>241,506</b>	<b>226,806</b>
<b>LNG</b>						
By Truck						
Canada	10	1,569	8	165	120	183
By Vessel						
Nigeria	0	5,992	3,239	0	0	0
Norway	0	0	0	0	0	0
Trinidad/Tobago	13,511	70,450	7,617	6,213	2,337	2,467
United Kingdom	3,119	0	0	0	0	0
<b>Total LNG Imports</b>	<b>16,640</b>	<b>78,011</b>	<b>10,864</b>	<b>6,378</b>	<b>2,457</b>	<b>2,650</b>
<b>CNG</b>						
Canada	28	345	31	30	22	25
<b>Total CNG Imports</b>	<b>28</b>	<b>345</b>	<b>31</b>	<b>30</b>	<b>22</b>	<b>25</b>
<b>Total Imports</b>	<b>303,478</b>	<b>R3,040,156</b>	<b>R276,341</b>	<b>R242,922</b>	<b>243,985</b>	<b>229,482</b>
Average Price (dollars per thousand cubic feet)						
<b>Pipeline</b>						
Canada	3.78	2.55	2.94	2.40	1.98	2.05
Mexico	3.38	2.93	3.42	2.44	2.43	2.64
<b>Total Pipeline Imports</b>	<b>3.78</b>	<b>2.55</b>	<b>2.94</b>	<b>2.40</b>	<b>1.98</b>	<b>2.05</b>
<b>LNG</b>						
By Truck						
Canada	7.94	8.63	8.19	8.12	8.33	8.66
By Vessel						
Nigeria	--	6.52	7.11	--	--	--
Norway	--	--	--	--	--	--
Trinidad/Tobago	6.18	4.32	4.88	3.47	4.20	3.74
United Kingdom	13.26	--	--	--	--	--
<b>Total LNG Imports</b>	<b>7.51</b>	<b>4.58</b>	<b>5.55</b>	<b>3.59</b>	<b>4.41</b>	<b>4.08</b>
<b>CNG</b>						
Canada	10.87	2.95	4.31	1.17	1.06	0.82
<b>Total CNG Imports</b>	<b>10.87</b>	<b>2.95</b>	<b>4.31</b>	<b>1.17</b>	<b>1.06</b>	<b>0.82</b>
<b>Total Imports</b>	<b>4.40</b>	<b>R2.60</b>	<b>3.26</b>	<b>2.53</b>	<b>2.05</b>	<b>2.12</b>
<b>Net Imports - Volume</b>	<b>*</b>	<b>R-127,782</b>	<b>R-23,083</b>	<b>R-45,432</b>	<b>-37,374</b>	<b>-20,798</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
	August	July	June	May	April	March
<b>Imports</b>						
Volume (million cubic feet)						
<b>Pipeline</b>						
Canada <sup>a</sup>	239,935	245,212	234,061	238,527	232,998	275,573
Mexico	63	80	78	78	79	83
<b>Total Pipeline Imports</b>	<b>239,997</b>	<b>245,292</b>	<b>234,140</b>	<b>238,604</b>	<b>233,077</b>	<b>275,656</b>
<b>LNG</b>						
By Truck						
Canada	226	215	212	220	186	8
By Vessel						
Nigeria	0	0	0	0	0	0
Norway	0	0	0	0	0	0
Trinidad/Tobago	7,636	4,974	5,425	5,275	4,985	4,870
United Kingdom	0	0	0	0	0	0
<b>Total LNG Imports</b>	<b>7,862</b>	<b>5,189</b>	<b>5,637</b>	<b>5,494</b>	<b>5,171</b>	<b>4,878</b>
<b>CNG</b>						
Canada	28	27	29	28	31	34
<b>Total CNG Imports</b>	<b>28</b>	<b>27</b>	<b>29</b>	<b>28</b>	<b>31</b>	<b>34</b>
<b>Total Imports</b>	<b>247,888</b>	<b>250,508</b>	<b>239,805</b>	<b>244,126</b>	<b>238,279</b>	<b>280,567</b>
Average Price (dollars per thousand cubic feet)						
<b>Pipeline</b>						
Canada	2.24	2.31	2.51	2.59	2.53	2.57
Mexico	2.31	2.62	2.77	2.62	2.64	2.27
<b>Total Pipeline Imports</b>	<b>2.24</b>	<b>2.31</b>	<b>2.51</b>	<b>2.59</b>	<b>2.53</b>	<b>2.57</b>
<b>LNG</b>						
By Truck						
Canada	8.69	8.78	8.91	8.88	8.49	7.05
By Vessel						
Nigeria	--	--	--	--	--	--
Norway	--	--	--	--	--	--
Trinidad/Tobago	3.19	3.21	3.37	3.65	3.56	4.34
United Kingdom	--	--	--	--	--	--
<b>Total LNG Imports</b>	<b>3.34</b>	<b>3.44</b>	<b>3.58</b>	<b>3.86</b>	<b>3.74</b>	<b>4.35</b>
<b>CNG</b>						
Canada	0.97	1.19	1.64	1.86	1.76	1.91
<b>Total CNG Imports</b>	<b>0.97</b>	<b>1.19</b>	<b>1.64</b>	<b>1.86</b>	<b>1.76</b>	<b>1.91</b>
<b>Total Imports</b>	<b>2.38</b>	<b>2.40</b>	<b>2.62</b>	<b>2.70</b>	<b>2.64</b>	<b>2.68</b>
<b>Net Imports - Volume</b>	<b>889</b>	<b>2,080</b>	<b>-13,517</b>	<b>-9,737</b>	<b>-8,973</b>	<b>8,724</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
	February	January	Total	December	November	October
<b>Imports</b>						
Volume (million cubic feet)						
<b>Pipeline</b>						
Canada <sup>a</sup>	246,020	278,584	2,916,856	271,845	221,866	225,588
Mexico	74	83	917	64	83	83
<b>Total Pipeline Imports</b>	<b>246,094</b>	<b>278,666</b>	<b>2,917,774</b>	<b>271,910</b>	<b>221,949</b>	<b>225,671</b>
<b>LNG</b>						
By Truck						
Canada	8	18	924	16	41	58
By Vessel						
Nigeria	0	2,753	0	0	0	0
Norway	0	0	3,253	0	3,253	0
Trinidad/Tobago	8,468	10,183	84,190	8,838	5,779	5,696
United Kingdom	0	0	0	0	0	0
<b>Total LNG Imports</b>	<b>8,477</b>	<b>12,955</b>	<b>88,367</b>	<b>8,854</b>	<b>9,073</b>	<b>5,753</b>
<b>CNG</b>						
Canada	26	35	299	27	22	25
<b>Total CNG Imports</b>	<b>26</b>	<b>35</b>	<b>299</b>	<b>27</b>	<b>22</b>	<b>25</b>
<b>Total Imports</b>	<b>254,597</b>	<b>291,656</b>	<b>3,006,439</b>	<b>280,791</b>	<b>231,044</b>	<b>231,449</b>
Average Price (dollars per thousand cubic feet)						
<b>Pipeline</b>						
Canada	2.81	3.41	2.18	3.31	2.41	2.50
Mexico	2.94	3.29	1.85	2.56	2.34	2.50
<b>Total Pipeline Imports</b>	<b>2.81</b>	<b>3.41</b>	<b>2.18</b>	<b>3.31</b>	<b>2.41</b>	<b>2.50</b>
<b>LNG</b>						
By Truck						
Canada	7.22	9.12	8.07	7.51	7.92	7.93
By Vessel						
Nigeria	--	5.82	--	--	--	--
Norway	--	--	3.12	--	3.12	--
Trinidad/Tobago	6.39	5.48	4.06	4.62	5.96	3.05
United Kingdom	--	--	--	--	--	--
<b>Total LNG Imports</b>	<b>6.39</b>	<b>5.56</b>	<b>4.07</b>	<b>4.63</b>	<b>4.95</b>	<b>3.10</b>
<b>CNG</b>						
Canada	6.07	10.64	1.97	3.24	0.97	0.72
<b>Total CNG Imports</b>	<b>6.07</b>	<b>10.64</b>	<b>1.97</b>	<b>3.24</b>	<b>0.97</b>	<b>0.72</b>
<b>Total Imports</b>	<b>3.14</b>	<b>3.75</b>	<b>2.24</b>	<b>3.50</b>	<b>2.70</b>	<b>2.59</b>
<b>Net Imports - Volume</b>	<b>-349</b>	<b>19,789</b>	<b>670,991</b>	<b>29,955</b>	<b>3,125</b>	<b>54,983</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
	September	August	July	June	May	April
<b>Imports</b>						
Volume (million cubic feet)						
<b>Pipeline</b>						
Canada <sup>a</sup>	235,512	253,793	259,132	234,145	243,017	236,451
Mexico	82	90	92	83	72	71
<b>Total Pipeline Imports</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	72	84	70	118	113	74
By Vessel						
Nigeria	0	0	0	0	0	0
Norway	0	0	0	0	0	0
Trinidad/Tobago	2,810	7,998	5,703	7,520	5,087	4,693
United Kingdom	0	0	0	0	0	0
<b>Total LNG Imports</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	15	17	25	19	29	28
<b>Total CNG Imports</b>	<b>15</b>	<b>17</b>	<b>25</b>	<b>19</b>	<b>29</b>	<b>28</b>
<b>Total Imports</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	2.42	2.29	2.26	1.76	1.44	1.51
Mexico	2.43	2.27	2.45	1.41	1.10	1.03
<b>Total Pipeline Imports</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	8.04	8.11	7.95	7.80	7.72	7.88
By Vessel						
Nigeria	--	--	--	--	--	--
Norway	--	--	--	--	--	--
Trinidad/Tobago	3.13	3.17	3.15	3.11	3.36	3.23
United Kingdom	--	--	--	--	--	--
<b>Total LNG Imports</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	1.22	1.20	1.62	0.63	1.10	1.05
<b>Total CNG Imports</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>2.47</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>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.

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

**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
	January	Total	December	November	October	September
<b>Exports</b>						
Volume (million cubic feet)						
<b>Pipeline</b>						
Canada	94,894	917,087	81,050	74,427	68,382	69,823
Mexico	136,108	1,543,056	135,756	133,807	132,778	125,724
<b>Total Pipeline Exports</b>	<b>231,002</b>	<b>2,460,144</b>	<b>216,807</b>	<b>208,234</b>	<b>201,160</b>	<b>195,548</b>
<b>LNG</b>						
Exports						
By Vessel						
Argentina	0	16,276	0	0	0	0
Bahamas	4	2	2	0	0	0
Barbados	20	200	19	20	17	14
Brazil	0	17,648	0	0	6,967	3,364
Chile	2,938	25,746	3,362	0	3,675	0
China	13,584	103,410	23,433	20,871	24,588	10,056
Dominican Republic	0	8,691	0	2,835	0	2,922
Egypt	6,554	6,781	0	0	0	0
India	3,596	20,919	3,427	7,057	0	0
Italy	0	6,493	0	0	0	0
Japan	3,615	53,299	13,893	0	6,725	0
Jordan	0	36,321	7,135	0	3,373	0
Kuwait	0	20,213	0	0	0	0
Lithuania	0	6,844	0	0	0	3,414
Malta	0	867	0	0	0	0
Mexico	10,431	140,321	3,635	10,760	6,686	10,286
Netherlands	0	3,042	0	0	0	0
Pakistan	3,368	3,166	0	0	0	0
Poland	0	3,440	0	0	0	0
Portugal	3,247	19,523	0	3,702	0	0
South Korea	21,286	130,185	20,810	21,141	21,577	17,514
Spain	0	29,329	3,370	3,617	2,980	3,666
Taiwan	0	9,004	0	2,934	3,121	0
Thailand	0	3,113	0	0	0	0
Turkey	3,714	24,855	3,413	7,076	0	3,443
United Arab Emirates	0	13,408	0	0	0	0
United Kingdom	0	3,410	0	0	0	0
By Truck						
Canada	0	5	0	2	0	0
Mexico	105	691	105	86	65	53
<b>Re-Exports</b>						
By Vessel						
Argentina	0	0	0	0	0	0
Brazil	0	0	0	0	0	0
India	0	0	0	0	0	0
Mexico	0	422	0	0	422	0
<b>Total LNG Exports</b>	<b>72,463</b>	<b>707,622</b>	<b>82,604</b>	<b>80,100</b>	<b>80,195</b>	<b>54,733</b>
<b>CNG</b>						
Canada	13	171	13	20	4	0
<b>Total CNG Exports</b>	<b>13</b>	<b>171</b>	<b>13</b>	<b>20</b>	<b>4</b>	<b>0</b>
<b>Total Exports</b>	<b>303,478</b>	<b>3,167,937</b>	<b>299,424</b>	<b>288,354</b>	<b>281,359</b>	<b>250,280</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
	August	July	June	May	April	March
<b>Exports</b>						
Volume (million cubic feet)						
<b>Pipeline</b>						
Canada	66,342	59,760	66,725	63,949	80,532	99,489
Mexico	135,108	135,068	134,118	129,110	116,027	128,774
<b>Total Pipeline Exports</b>	<b>201,450</b>	<b>194,828</b>	<b>200,844</b>	<b>193,058</b>	<b>196,559</b>	<b>228,263</b>
<b>LNG</b>						
Exports						
By Vessel						
Argentina	0	0	2,949	3,192	10,135	0
Bahamas	0	0	0	0	0	0
Barbados	16	10	16	15	15	20
Brazil	0	3,642	0	3,676	0	0
Chile	0	3,256	3,657	0	5,894	2,951
China	0	7,218	0	3,514	0	0
Dominican Republic	0	0	0	0	0	2,934
Egypt	3,317	3,464	0	0	0	0
India	0	0	3,413	0	0	0
Italy	3,372	0	3,120	0	0	0
Japan	3,694	0	3,683	3,667	7,398	0
Jordan	7,393	0	0	3,453	0	6,655
Kuwait	0	3,410	0	3,281	6,784	3,360
Lithuania	3,431	0	0	0	0	0
Malta	0	0	0	0	0	0
Mexico	6,860	14,432	24,763	10,023	13,730	10,728
Netherlands	0	0	0	3,042	0	0
Pakistan	0	0	0	0	0	3,166
Poland	0	0	0	3,440	0	0
Portugal	3,399	3,662	0	3,625	0	0
South Korea	10,320	14,238	7,431	6,818	3,295	7,042
Spain	3,712	217	0	0	0	0
Taiwan	0	0	0	2,949	0	0
Thailand	0	0	0	0	0	3,113
Turkey	0	0	0	0	0	3,521
United Arab Emirates	0	0	0	10,062	3,347	0
United Kingdom	0	0	3,410	0	0	0
By Truck						
Canada	0	0	0	0	0	3
Mexico	33	44	19	26	70	61
<b>Re-Exports</b>						
By Vessel						
Argentina	0	0	0	0	0	0
Brazil	0	0	0	0	0	0
India	0	0	0	0	0	0
Mexico	0	0	0	0	0	0
<b>Total LNG Exports</b>	<b>45,548</b>	<b>53,592</b>	<b>52,462</b>	<b>60,782</b>	<b>50,669</b>	<b>43,553</b>
<b>CNG</b>						
Canada	1	8	16	23	24	27
<b>Total CNG Exports</b>	<b>1</b>	<b>8</b>	<b>16</b>	<b>23</b>	<b>24</b>	<b>27</b>
<b>Total Exports</b>	<b>246,999</b>	<b>248,428</b>	<b>253,322</b>	<b>253,864</b>	<b>247,251</b>	<b>271,843</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		Total	December	November	2016 October
	February	January				
<b>Exports</b>						
Volume (million cubic feet)						
<b>Pipeline</b>						
Canada	87,798	98,811	771,094	97,178	74,544	43,471
Mexico	115,089	121,696	1,377,305	111,815	120,378	129,984
<b>Total Pipeline Exports</b>	<b>202,887</b>	<b>220,508</b>	<b>2,148,399</b>	<b>208,993</b>	<b>194,922</b>	<b>173,455</b>
<b>LNG</b>						
Exports						
By Vessel						
Argentina	0	0	16,661	0	0	0
Bahamas	0	0	0	0	0	0
Barbados	15	22	100	22	18	15
Brazil	0	0	9,196	0	0	0
Chile	2,950	0	29,405	0	2,940	0
China	10,338	3,391	17,221	6,747	7,341	0
Dominican Republic	0	0	2,945	0	0	0
Egypt	0	0	3,606	3,606	0	0
India	3,399	3,623	16,915	0	3,115	0
Italy	0	0	3,328	0	3,328	0
Japan	3,705	10,533	11,137	11,137	0	0
Jordan	2,945	5,368	9,870	0	0	2,942
Kuwait	3,378	0	7,068	0	0	0
Lithuania	0	0	0	0	0	0
Malta	0	867	0	0	0	0
Mexico	14,407	14,010	27,470	7,169	13,300	0
Netherlands	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Poland	0	0	0	0	0	0
Portugal	1,692	3,442	3,700	0	0	0
South Korea	0	0	10,166	10,166	0	0
Spain	1,766	10,002	2,930	0	0	0
Taiwan	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Turkey	7,402	0	8,762	2,936	2,886	0
United Arab Emirates	0	0	3,391	0	0	0
United Kingdom	0	0	0	0	0	0
By Truck						
Canada	0	0	2	0	0	1
Mexico	44	85	375	42	48	42
<b>Re-Exports</b>						
By Vessel						
Argentina	0	0	612	0	0	0
Brazil	0	0	1,433	0	0	0
India	0	0	547	0	0	0
Mexico	0	0	0	0	0	0
<b>Total LNG Exports</b>	<b>52,042</b>	<b>51,342</b>	<b>186,841</b>	<b>41,825</b>	<b>32,976</b>	<b>3,000</b>
<b>CNG</b>						
Canada	18	19	208	18	22	11
<b>Total CNG Exports</b>	<b>18</b>	<b>19</b>	<b>208</b>	<b>18</b>	<b>22</b>	<b>11</b>
<b>Total Exports</b>	<b>254,946</b>	<b>271,868</b>	<b>2,335,448</b>	<b>250,836</b>	<b>227,919</b>	<b>176,466</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					
	September	August	July	June	May	April
<b>Exports</b>						
Volume (million cubic feet)						
<b>Pipeline</b>						
Canada	61,499	55,012	49,750	50,715	62,768	62,931
Mexico	123,722	132,446	123,173	115,836	115,606	104,857
<b>Total Pipeline Exports</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	2,190	0	8,161	0	6,310
Bahamas	0	0	0	0	0	0
Barbados	14	11	8	2	1	3
Brazil	0	3,933	0	0	0	0
Chile	0	9,518	6,074	4,643	6,230	0
China	0	0	3,132	0	0	0
Dominican Republic	0	2,945	0	0	0	0
Egypt	0	0	0	0	0	0
India	3,639	3,701	0	3,617	0	0
Italy	0	0	0	0	0	0
Japan	0	0	0	0	0	0
Jordan	3,362	0	3,566	0	0	0
Kuwait	3,458	0	0	0	3,610	0
Lithuania	0	0	0	0	0	0
Malta	0	0	0	0	0	0
Mexico	3,315	3,686	0	0	0	0
Netherlands	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Poland	0	0	0	0	0	0
Portugal	0	0	0	0	0	3,700
South Korea	0	0	0	0	0	0
Spain	0	0	2,930	0	0	0
Taiwan	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Turkey	2,941	0	0	0	0	0
United Arab Emirates	0	0	0	0	0	0
United Kingdom	0	0	0	0	0	0
By Truck						
Canada	0	0	0	0	0	0
Mexico	35	30	28	22	33	23
<b>Re-Exports</b>						
By Vessel						
Argentina	0	612	0	0	0	0
Brazil	0	142	0	0	0	0
India	0	0	0	0	0	0
Mexico	0	0	0	0	0	0
<b>Total LNG Exports</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	0	0	20	18	25	28
<b>Total CNG Exports</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>18</b>	<b>25</b>	<b>28</b>
<b>Total Exports</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
	January	Total	December	November	October	September
<b>Exports</b>						
Average Price (dollars per thousand cubic feet)						
<b>Pipeline</b>						
Canada	4.13	3.12	3.19	2.99	2.78	2.88
Mexico	3.64	3.26	3.34	3.29	3.28	3.29
<b>Total Pipeline Exports</b>	<b>3.84</b>	<b>3.20</b>	<b>3.28</b>	<b>3.18</b>	<b>3.11</b>	<b>3.14</b>
<b>LNG</b>						
Exports						
By Vessel						
Argentina	--	4.64	--	--	--	--
Bahamas	10.39	10.40	10.40	--	--	--
Barbados	10.39	10.40	10.40	10.40	10.40	10.40
Brazil	--	4.15	--	--	4.14	3.55
Chile	3.27	5.43	3.68	--	3.56	--
China	4.84	4.32	4.87	4.60	3.56	3.99
Dominican Republic	--	4.15	--	3.30	--	3.55
Egypt	3.27	4.93	--	--	--	--
India	3.27	4.84	6.80	4.41	--	--
Italy	--	3.95	--	--	--	--
Japan	3.27	6.14	5.87	--	3.56	--
Jordan	--	4.40	3.68	--	5.45	--
Kuwait	--	4.38	--	--	--	--
Lithuania	--	3.84	--	--	--	3.55
Malta	--	4.70	--	--	--	--
Mexico	4.43	4.93	3.68	4.85	5.54	3.98
Netherlands	--	6.35	--	--	--	--
Pakistan	3.27	3.14	--	--	--	--
Poland	--	4.26	--	--	--	--
Portugal	3.27	5.65	--	3.29	--	--
South Korea	5.31	4.18	4.20	4.60	4.15	4.05
Spain	--	4.94	5.73	3.29	3.56	3.55
Taiwan	--	4.77	--	6.41	3.56	--
Thailand	--	3.14	--	--	--	--
Turkey	3.27	4.84	3.68	3.98	--	3.55
United Arab Emirates	--	3.87	--	--	--	--
United Kingdom	--	3.87	--	--	--	--
By Truck						
Canada	19.21	8.05	--	7.35	--	--
Mexico	7.49	8.74	8.11	7.94	8.43	8.67
Re-Exports						
By Vessel						
Argentina	--	--	--	--	--	--
Brazil	--	--	--	--	--	--
India	--	--	--	--	--	--
Mexico	--	5.00	--	--	5.00	--
<b>Total LNG Exports</b>	<b>4.34</b>	<b>4.69</b>	<b>4.74</b>	<b>4.47</b>	<b>4.02</b>	<b>3.88</b>
<b>CNG</b>						
Canada	12.47	4.76	6.53	1.38	1.00	--
<b>Total CNG Exports</b>	<b>12.47</b>	<b>4.76</b>	<b>6.53</b>	<b>1.38</b>	<b>1.00</b>	--
<b>Total Exports</b>	<b>3.96</b>	<b>3.54</b>	<b>3.68</b>	<b>3.54</b>	<b>3.37</b>	<b>3.30</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
	August	July	June	May	April	March
<b>Exports</b>						
Average Price (dollars per thousand cubic feet)						
<b>Pipeline</b>						
Canada	2.84	2.90	3.02	3.16	3.19	3.01
Mexico	3.27	3.22	3.13	3.20	3.27	2.93
<b>Total Pipeline Exports</b>	<b>3.13</b>	<b>3.12</b>	<b>3.10</b>	<b>3.19</b>	<b>3.24</b>	<b>2.97</b>
<b>LNG</b>						
Exports						
By Vessel						
Argentina	--	--	3.87	4.77	4.82	--
Bahamas	--	--	--	--	--	--
Barbados	10.40	10.40	10.40	10.40	10.40	10.40
Brazil	--	4.23	--	4.63	--	--
Chile	--	3.67	6.46	--	6.65	6.26
China	--	3.67	--	4.62	--	--
Dominican Republic	--	--	--	--	--	5.59
Egypt	3.55	6.26	--	--	--	--
India	--	--	4.67	--	--	--
Italy	3.55	--	4.38	--	--	--
Japan	6.14	--	6.99	6.88	6.92	--
Jordan	3.55	--	--	3.76	--	4.42
Kuwait	--	4.51	--	4.77	4.19	3.14
Lithuania	4.13	--	--	--	--	--
Malta	--	--	--	--	--	--
Mexico	3.55	4.17	4.40	4.67	4.31	5.25
Netherlands	--	--	--	6.35	--	--
Pakistan	--	--	--	--	--	3.14
Poland	--	--	--	4.26	--	--
Portugal	4.38	6.26	--	6.35	--	--
South Korea	3.59	3.67	3.87	4.88	6.39	3.81
Spain	3.55	6.26	--	--	--	--
Taiwan	--	--	--	4.43	--	--
Thailand	--	--	--	--	--	3.14
Turkey	--	--	--	--	--	4.60
United Arab Emirates	--	--	--	3.89	3.80	--
United Kingdom	--	--	3.87	--	--	--
By Truck						
Canada	--	--	--	--	--	8.39
Mexico	8.94	8.79	9.04	8.90	8.95	8.64
Re-Exports						
By Vessel						
Argentina	--	--	--	--	--	--
Brazil	--	--	--	--	--	--
India	--	--	--	--	--	--
Mexico	--	--	--	--	--	--
<b>Total LNG Exports</b>	<b>3.88</b>	<b>4.26</b>	<b>4.61</b>	<b>4.80</b>	<b>5.16</b>	<b>4.47</b>
<b>CNG</b>						
Canada	2.50	2.72	3.14	3.39	3.35	3.32
<b>Total CNG Exports</b>	<b>2.50</b>	<b>2.72</b>	<b>3.14</b>	<b>3.39</b>	<b>3.35</b>	<b>3.32</b>
<b>Total Exports</b>	<b>3.27</b>	<b>3.37</b>	<b>3.41</b>	<b>3.57</b>	<b>3.63</b>	<b>3.21</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		Total	2016		
	February	January		December	November	October
<b>Exports</b>						
Average Price (dollars per thousand cubic feet)						
<b>Pipeline</b>						
Canada	3.22	3.85	2.60	3.82	2.71	2.72
Mexico	3.24	3.66	2.64	3.51	2.75	3.16
<b>Total Pipeline Exports</b>	<b>3.23</b>	<b>3.74</b>	<b>2.63</b>	<b>3.65</b>	<b>2.74</b>	<b>3.05</b>
<b>LNG</b>						
Exports						
By Vessel						
Argentina	--	--	4.47	--	--	--
Bahamas	--	--	--	--	--	--
Barbados	10.40	10.40	10.12	10.00	10.00	10.00
Brazil	--	--	4.39	--	--	--
Chile	7.18	--	5.30	--	5.64	--
China	4.92	4.70	4.16	4.50	3.21	--
Dominican Republic	--	--	5.41	--	--	--
Egypt	--	--	6.46	6.46	--	--
India	4.06	4.70	4.92	--	5.74	--
Italy	--	--	6.32	--	6.32	--
Japan	7.18	6.65	3.76	3.76	--	--
Jordan	4.06	6.41	5.11	--	--	3.52
Kuwait	5.50	--	4.40	--	--	--
Lithuania	--	--	--	--	--	--
Malta	--	4.70	--	--	--	--
Mexico	6.40	7.15	4.56	4.14	4.64	--
Netherlands	--	--	--	--	--	--
Pakistan	--	--	--	--	--	--
Poland	--	--	--	--	--	--
Portugal	7.18	7.29	3.58	--	--	--
South Korea	--	--	5.75	5.75	--	--
Spain	7.18	6.28	4.92	--	--	--
Taiwan	--	--	--	--	--	--
Thailand	--	--	--	--	--	--
Turkey	6.91	--	3.53	3.87	3.30	--
United Arab Emirates	--	--	4.18	--	--	--
United Kingdom	--	--	--	--	--	--
By Truck						
Canada	--	--	7.50	--	--	7.70
Mexico	9.97	9.66	9.81	10.20	9.72	10.06
Re-Exports						
By Vessel						
Argentina	--	--	4.51	--	--	--
Brazil	--	--	3.64	--	--	--
India	--	--	3.99	--	--	--
Mexico	--	--	--	--	--	--
<b>Total LNG Exports</b>	<b>5.99</b>	<b>6.44</b>	<b>4.71</b>	<b>4.68</b>	<b>4.58</b>	<b>3.65</b>
<b>CNG</b>						
Canada	7.73	12.97	3.30	4.72	2.55	2.53
<b>Total CNG Exports</b>	<b>7.73</b>	<b>12.97</b>	<b>3.30</b>	<b>4.72</b>	<b>2.55</b>	<b>2.53</b>
<b>Total Exports</b>	<b>3.79</b>	<b>4.25</b>	<b>2.79</b>	<b>3.82</b>	<b>3.00</b>	<b>3.06</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
	September	August	July	June	May	April
<b>Exports</b>						
Average Price (dollars per thousand cubic feet)						
<b>Pipeline</b>						
Canada	2.83	2.65	2.73	2.23	1.98	2.07
Mexico	3.06	2.92	2.80	2.46	2.06	2.03
<b>Total Pipeline Exports</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
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	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	--	--	--	--	--	--
Mexico	9.78	9.72	9.76	9.43	9.67	8.99
<b>Re-Exports</b>						
By Vessel						
Argentina	--	4.51	--	--	--	--
Brazil	--	4.57	--	--	--	--
India	--	--	--	--	--	--
Mexico	--	--	--	--	--	--
<b>Total LNG Exports</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	--	--	3.88	2.80	3.22	2.58
<b>Total CNG Exports</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>3.16</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
<b>Re-Exports</b>			
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>

-- 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

**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	RE54,603	RE16,423	RE142,452	RE17,622	RE202,858	RE3,855	RE118,628	RE62,863	£168,075
December	295,213	RE55,541	RE16,846	RE151,313	RE17,749	RE217,414	RE3,973	RE120,536	RE64,665	£181,006
<b>Total</b>	<b>3,250,779</b>	<b>RE700,896</b>	<b>RE201,931</b>	<b>RE1,689,477</b>	<b>RE220,296</b>	<b>RE2,128,327</b>	<b>RE47,902</b>	<b>RE1,336,076</b>	<b>RE687,016</b>	<b>RE1,786,624</b>
<b>2018</b>										
January	296,763	£51,732	£16,722	£150,962	£17,489	£211,365	£3,903	£117,772	£64,105	£183,231

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>	1,993,754	3,259,042	8,299,472	470,863	741,853	2,047,757	689,082	1,326,697	29,522,551
<b>2014 Total</b>	2,331,086	4,257,693	8,659,188	454,545	1,067,114	1,998,505	631,536	1,275,738	31,405,381
<b>2015 Total</b>	2,499,599	4,812,983	8,799,465	417,020	1,315,248	1,995,920	611,356	1,307,641	32,914,647
<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	RE220,016	RE471,137	RE680,803	RE24,692	RE142,990	RE145,044	£41,021	RE79,728	RE2,875,410
December	RE228,033	RE502,059	RE702,258	RE25,063	RE148,080	RE150,130	RE41,662	RE75,594	RE2,997,137
<b>Total</b>	<b>RE2,513,389</b>	<b>RE5,463,853</b>	<b>RE7,918,796</b>	<b>RE313,499</b>	<b>RE1,601,243</b>	<b>RE1,713,752</b>	<b>RE519,370</b>	<b>RE1,080,617</b>	<b>RE33,173,842</b>
<b>2018</b>									
January	£232,880	£498,539	£682,915	£25,537	£140,187	£149,788	£40,629	£77,530	£2,962,050

<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:** 2012-2016: 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

**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	£62,084	£17,262	£143,020	£19,255	£152,236	£4,050	£100,436	£40,456	£132,523
February	28,145	£56,403	£15,322	£130,148	£17,565	£143,751	£3,718	£93,212	£40,026	£122,279
March	31,344	£61,907	£16,909	£142,549	£19,215	£165,126	£4,050	£104,247	£45,224	£131,234
April	30,373	£59,935	£16,607	£136,337	£18,233	£156,440	£3,963	£103,170	£46,203	£130,878
May	30,399	£61,145	£17,293	£138,439	£18,516	£163,874	£4,128	£107,654	£48,121	£134,785
June	27,509	£58,505	£16,855	£134,382	£18,353	£169,788	£3,983	£103,915	£46,449	£139,251
July	24,025	£58,908	£17,599	£140,105	£18,873	£179,666	£4,128	£107,440	£48,811	£156,236
August	24,427	£58,542	£17,224	£143,311	£18,574	£182,591	£4,146	£106,999	£49,986	£160,228
September	27,205	£55,950	£16,594	£140,164	£18,070	£188,275	£3,888	£107,737	£48,290	£160,759
October	29,536	£57,372	£16,997	£147,258	£18,271	£198,622	£4,019	£113,947	£53,047	£169,369
November	29,760	RE54,603	RE16,423	RE142,452	RE17,622	RE201,945	RE3,855	RE113,420	RE52,427	£168,075
December	30,640	RE55,541	RE16,846	RE151,313	RE17,749	RE216,435	RE3,973	RE115,244	RE53,931	£181,006
<b>Total</b>	<b>344,385</b>	<b>RE700,896</b>	<b>RE201,931</b>	<b>RE1,689,477</b>	<b>RE220,296</b>	<b>RE2,118,749</b>	<b>RE47,902</b>	<b>RE1,277,422</b>	<b>RE572,971</b>	<b>RE1,786,624</b>
<b>2018</b>										
January	31,077	£51,732	£16,722	£150,962	£17,489	£210,414	£3,903	£112,602	£53,464	£183,231

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	RE220,016	RE471,137	RE587,193	RE24,692	RE142,990	RE131,569	E40,135	RE78,572	RE2,496,887
December	RE228,033	RE502,059	RE605,698	RE25,063	RE148,080	RE136,183	RE40,762	RE74,498	RE2,603,057
<b>Total</b>	<b>RE2,513,389</b>	<b>RE5,463,853</b>	<b>RE6,829,961</b>	<b>RE313,499</b>	<b>RE1,601,243</b>	<b>RE1,554,544</b>	<b>RE508,152</b>	<b>RE1,064,948</b>	<b>RE28,810,243</b>
<b>2018</b>									
January	E232,880	E498,539	E589,015	E25,537	E140,187	E135,872	E39,751	E76,406	E2,569,784

<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:** 2012-2016: 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>a</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	4,379	2,623	7,002	-315	-10.7	101	776	675
February	4,378	2,338	6,716	-196	-7.7	131	416	285
March	4,379	R2,064	6,442	-423	-17.0	167	443	275
April	4,380	2,292	6,672	-353	-13.4	341	111	-230
May	4,386	R2,628	7,013	-339	-11.4	423	82	-341
June	4,355	2,908	7,263	-278	-8.7	387	106	-281
July	4,357	3,055	7,412	-263	-7.9	310	160	-150
August	4,356	3,250	R7,607	-191	R-5.5	355	160	-196
September	4,356	3,568	7,924	-137	-3.7	423	107	-317
October	4,355	3,817	R8,172	-196	-4.9	385	R138	R-247
November	4,354	3,732	8,086	R-244	-6.1	203	288	85
December	R4,361	R3,034	R7,395	R-263	R-8.0	80	R774	R694
<b>Total</b>	--	--	--	--	--	<b>3,308</b>	<b>R3,561</b>	<b>R253</b>
<b>2018</b>								
January	4,358	2,139	6,498	-484	-18.4	145	1,040	895

<sup>a</sup> Total underground storage capacity at the end of each calendar year (in billion cubic feet): 2012 – 8,991; 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.

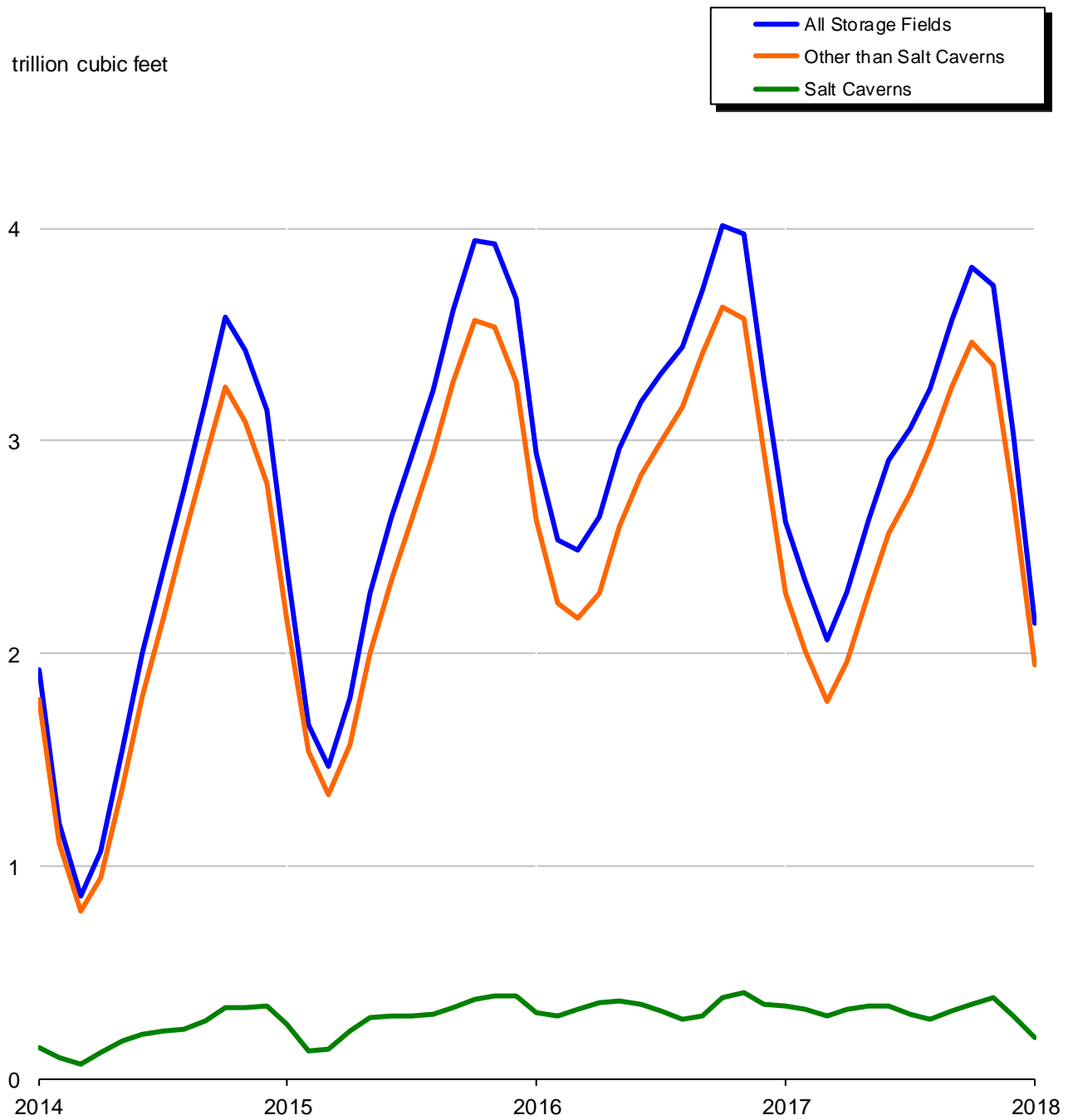
-- Not applicable.

**Notes:** Data for 2012 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, 2014-2018

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	4,379	2,623	7,002	-315	-10.7	101	776	675
February	4,378	2,338	6,716	-196	-7.7	131	416	285
March	4,379	R2,064	6,442	-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	4,380	2,292	6,672	-353	-13.4	341	111	-230
May	4,386	R2,628	7,013	-339	-11.4	423	82	-341
June	4,355	2,908	7,263	-278	-8.7	387	106	-281
July	4,357	3,055	7,412	-263	-7.9	310	160	-150
August	4,356	3,250	R7,607	-191	R-5.5	355	160	-196
September	4,356	3,568	7,924	-137	-3.7	423	107	-317
October	4,355	3,817	R8,172	-196	-4.9	385	R138	R-247
<b>Total</b>	--	--	--	--	--	<b>2,625</b>	<b>864</b>	<b>-1,761</b>
<b>2018 Heating Season</b>								
November	4,354	3,732	8,086	R-244	-6.1	203	288	85
December	R4,361	R3,034	R7,395	R-263	R-8.0	80	R774	R694
January	4,358	2,139	6,498	-484	-18.4	145	1,040	895

<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		
	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net 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

<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 2012 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	4,184	2,285	6,469	-341	-13.0	44	708	664
February	4,183	R2,011	6,194	-229	-10.2	94	369	275
March	4,183	1,772	5,955	-392	-18.1	124	364	239
April	4,183	1,966	6,149	-321	-14.0	273	79	-194
May	4,189	2,285	6,474	-314	-12.1	365	40	-325
June	4,159	2,569	6,727	-269	-9.5	338	53	-284
July	4,159	R2,752	6,910	-248	-8.3	272	88	-184
August	4,159	R2,972	7,130	R-188	-6.0	311	91	-220
September	4,159	R3,251	7,409	-160	-4.7	340	62	-279
October	4,157	R3,467	7,624	-163	-4.5	R295	80	-215
November	4,157	R3,354	7,511	-221	-6.2	133	246	113
December	R4,164	R2,737	R6,902	R-211	R-7.2	47	R658	R612
<b>Total</b>	--	--	--	--	--	<b>2,636</b>	<b>R2,838</b>	<b>R202</b>
<b>2018</b>								
January	4,163	1,947	6,110	-338	-14.8	57	847	790

<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 2012 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		
	January	Total	December	November	October	September
Alabama	7,522	3,570	2,448	-1,237	-3,630	-561
Alaska <sup>a</sup>	2,559	-3,585	1,309	1,622	-476	-1,624
Arkansas	951	-629	1,220	397	-251	-582
California	41,978	R5,688	R37,901	R6,223	-4,453	-12,170
Colorado	9,686	-309	13,278	-4,315	-582	-6,013
Illinois	64,676	8,410	57,696	-333	-40,165	-41,306
Indiana	5,357	-85	4,825	-1,525	-2,472	-2,352
Iowa	19,932	329	20,539	6,240	-20,082	-19,446
Kansas	23,304	6,142	22,474	-872	-5,986	-5,422
Kentucky	23,235	R15,130	R15,659	3,170	-10,110	-8,402
Louisiana	95,616	26,518	57,620	-10,612	-13,491	-23,167
Maryland	4,492	-1,045	2,079	816	-533	-1,395
Michigan	160,715	47,361	121,334	39,265	-34,646	-52,348
Minnesota	238	248	298	-9	-232	-242
Mississippi	37,691	21,748	29,161	-4,909	-11,495	-17,129
Missouri	-15	R248	R864	-210	-217	-432
Montana	7,142	2,360	7,373	3,931	-812	-4,091
Nebraska	3,298	1,266	2,753	-232	-702	-1,206
New Mexico	4,077	R11,752	R4,715	1,939	235	241
New York	22,793	-3,120	15,467	5,738	-10,854	-13,746
Ohio	42,463	9,594	33,605	16,388	-3,490	-22,590
Oklahoma	38,328	22,662	27,611	2,563	-9,766	-4,340
Oregon	3,193	-468	4,430	190	-705	-899
Pennsylvania	90,102	9,738	61,182	20,680	-31,295	-33,239
Tennessee	104	-45	68	5	-31	-42
Texas	106,822	R65,344	84,716	-11,751	R-30,361	-16,898
Utah	14,371	2,594	12,258	-177	-1,600	-4,342
Virginia	-243	912	1,051	-144	-40	-761
Washington	2,896	1,133	4,053	-191	1,203	-3,610
West Virginia	58,248	-5,627	43,252	13,698	-11,598	-17,030
Wyoming	3,503	5,222	3,028	-1,194	1,188	-1,390
<b>Regions</b>						
East Region	217,855	10,452	156,637	57,175	-57,810	-88,761
South Central Region	310,233	R145,355	225,249	-26,421	R-74,980	-68,100
Midwest Region	274,242	R71,597	R221,283	46,603	-107,955	-124,569
Mountain Region	42,077	R22,884	R43,405	-48	-2,273	-16,801
Pacific Region	48,067	R6,352	R46,384	R6,222	R-3,956	-16,679
<b>Total Lower 48 States</b>	<b>892,474</b>	<b>R256,640</b>	<b>R692,958</b>	<b>R83,531</b>	<b>R-246,975</b>	<b>-314,911</b>
<b>U.S. Total</b>	<b>895,033</b>	<b>R253,055</b>	<b>R694,267</b>	<b>R85,152</b>	<b>R-247,451</b>	<b>-316,535</b>

See footnotes at end of table.

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

(million cubic feet) – continued

State	2017					
	August	July	June	May	April	March
Alabama	3,628	3,386	498	169	-1,292	1,420
Alaska <sup>a</sup>	-2,476	-2,424	-2,108	-1,525	-1,076	1,572
Arkansas	-574	-647	-581	-595	-272	772
California	R-1,123	R-6,826	R-13,935	R-23,446	R-16,167	R-17,258
Colorado	-2,922	-5,245	-5,660	-4,519	-1,374	1,199
Illinois	-34,888	-25,184	-32,389	-17,012	4,438	35,264
Indiana	-2,191	-2,486	-2,796	-1,664	-501	2,040
Iowa	-11,805	-1,696	-1,917	-1,579	1,288	5,165
Kansas	656	-2,088	-4,611	-14,016	-10,252	5,246
Kentucky	-1,317	5,583	1,693	-8,818	-12,511	5,772
Louisiana	3,696	1,007	-5,268	-19,430	-21,998	23,900
Maryland	-2,626	-2,873	-2,241	-3,128	-280	3,170
Michigan	-54,494	-38,760	-57,334	-55,198	-39,909	63,573
Minnesota	-244	-220	-190	-63	36	342
Mississippi	4,919	14,904	-476	-3,259	-8,395	6,585
Missouri	*	0	*	0	*	100
Montana	-2,393	-3,558	-4,182	-4,160	-2,002	1,137
Nebraska	-564	-935	182	-1,017	-979	-287
New Mexico	2,883	1,623	68	-1,257	-1,704	-2,779
New York	-15,700	-8,367	-12,765	-7,272	-5,894	17,047
Ohio	-24,349	-26,059	-26,200	-18,721	-5,818	27,859
Oklahoma	1,626	1,039	-10,437	-13,581	-4,742	-5,893
Oregon	-702	-545	-1,472	-3,170	-336	-2,364
Pennsylvania	-47,206	-37,135	-46,732	-51,111	-33,170	70,898
Tennessee	11	8	-41	-32	-29	-5
Texas	19,068	18,244	-15,267	-37,200	-30,805	1,147
Utah	-1,449	-3,718	-5,162	-7,294	-2,628	-518
Virginia	-317	349	45	-513	-310	689
Washington	-2,225	329	-2,739	-5,577	-2,596	1,556
West Virginia	-24,959	-26,009	-26,523	-33,844	-30,240	27,775
Wyoming	172	-1,694	-2,290	-1,936	-632	234
<b>Regions</b>						
East Region	-115,156	-100,093	-114,416	-114,589	-75,713	147,438
South Central Region	33,018	35,847	-36,143	-87,911	-77,757	33,177
Midwest Region	-104,928	-62,755	-92,974	-84,366	-47,188	112,250
Mountain Region	-4,273	-13,527	-17,044	-20,183	-9,318	-1,014
Pacific Region	R-1,804	R-7,041	R-18,145	R-32,194	R-19,099	-18,066
<b>Total Lower 48 States</b>	<b>R-193,142</b>	<b>R-147,569</b>	<b>R-278,722</b>	<b>R-339,242</b>	<b>-229,075</b>	<b>R-273,785</b>
<b>U.S. Total</b>	<b>R-195,619</b>	<b>R-149,993</b>	<b>R-280,830</b>	<b>R-340,767</b>	<b>-230,151</b>	<b>R-275,357</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		
	February	January		December	November	October
Alabama	-1,005	-254	1,019	3,462	-2,161	-5,368
Alaska <sup>a</sup>	1,409	2,213	-8,322	1,789	872	139
Arkansas	66	418	-1,666	739	-86	-152
California	\$4,300	\$50,395	39,603	43,736	1,937	-8,590
Colorado	4,859	10,983	-4,606	11,693	-1,452	-7,324
Illinois	42,917	59,371	5,282	53,639	623	-37,807
Indiana	3,067	5,972	3,478	4,712	-1,533	-2,257
Iowa	8,052	15,571	6,414	22,217	5,150	-18,715
Kansas	2,192	18,823	8,377	21,467	876	-5,573
Kentucky	7,787	16,622	9,205	16,756	51	-4,545
Louisiana	11,892	22,369	39,572	42,587	-3,970	-51,370
Maryland	2,048	3,915	2,916	2,604	893	133
Michigan	47,176	108,702	57,601	108,495	17,034	-27,683
Minnesota	450	321	38	44	14	-104
Mississippi	1,802	10,041	26,635	24,501	1,560	-24,918
Missouri	-20	163	-156	365	-210	-405
Montana	4,042	7,075	-7,364	8,305	2,401	-782
Nebraska	1,408	2,844	785	2,171	721	-1,221
New Mexico	1,321	4,466	669	4,345	-1,195	-1,530
New York	12,369	20,857	19,233	20,132	4,697	-7,006
Ohio	22,619	36,350	17,390	41,276	14,460	-10,323
Oklahoma	3,193	35,389	11,957	30,817	-5,705	-11,783
Oregon	606	4,500	1,381	5,032	406	-1,086
Pennsylvania	54,306	82,560	68,344	70,114	10,492	-16,859
Tennessee	14	31	-66	71	-14	-34
Texas	6,329	78,122	38,656	65,863	-17,919	-50,646
Utah	5,334	11,889	-1,208	12,286	-466	-1,542
Virginia	685	180	189	212	-211	-163
Washington	4,022	6,908	-2,216	3,465	448	-109
West Virginia	29,958	49,893	22,407	44,092	10,686	-7,057
Wyoming	1,737	8,000	-7,349	8,555	-3,105	-3,717
<b>Regions</b>						
East Region	121,986	193,754	130,479	178,429	41,017	-41,275
South Central Region	24,469	164,908	124,549	189,436	-27,405	-149,809
Midwest Region	109,443	206,754	81,797	206,299	21,114	-91,550
Mountain Region	18,701	45,258	-19,074	47,355	-3,096	-16,117
Pacific Region	\$8,927	\$61,803	38,769	52,233	2,790	-9,785
<b>Total Lower 48 States</b>	<b>\$283,526</b>	<b>\$672,476</b>	<b>356,520</b>	<b>673,752</b>	<b>34,420</b>	<b>-308,536</b>
<b>U.S. Total</b>	<b>\$284,935</b>	<b>\$674,690</b>	<b>348,198</b>	<b>675,541</b>	<b>35,292</b>	<b>-308,397</b>

See footnotes at end of table.

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

(million cubic feet) – continued

State	2016					
	September	August	July	June	May	April
Alabama	-597	2,250	3,115	1,486	-1,536	-3,383
Alaska <sup>a</sup>	-1,321	-1,997	-1,976	-1,468	-1,957	-1,441
Arkansas	-318	-564	-517	-724	-801	-444
California	-3,383	4,248	769	-7,766	-16,700	-17,261
Colorado	-5,111	-3,745	-4,892	-5,512	-5,498	1,334
Illinois	-41,363	-33,535	-28,440	-32,072	-26,284	4,551
Indiana	-2,199	-1,850	-1,850	-2,226	-2,905	527
Iowa	-18,041	-14,078	-1,925	-2,856	-2,349	2,150
Kansas	-8,157	-2,098	-7,378	-4,701	-13,272	-7,171
Kentucky	-4,548	-128	-2,707	-2,776	-8,262	-16,117
Louisiana	-11,031	18,506	16,049	-2,585	-11,540	-20,296
Maryland	-150	-1,397	-1,133	-3,022	-1,671	716
Michigan	-54,745	-36,754	-35,799	-52,688	-65,480	-13,874
Minnesota	-197	-228	-205	-174	-76	7
Mississippi	-3,355	2,651	7,130	1,758	-7,184	-6,394
Missouri	-290	*	0	0	0	0
Montana	-2,191	-3,465	-3,260	-4,908	-5,202	-3,943
Nebraska	-1,132	-90	-151	-16	-1,099	-630
New Mexico	75	167	659	-391	-1,615	-1,170
New York	-12,209	-3,017	-3,467	-6,284	-11,257	-1,560
Ohio	-22,602	-23,658	-25,774	-26,258	-21,537	-5,040
Oklahoma	-2,082	1,055	-3,398	-3,069	-15,348	-9,402
Oregon	-266	-16	-887	-511	-2,228	-1,027
Pennsylvania	-43,300	-18,752	-21,094	-36,463	-32,012	-5,601
Tennessee	2	2	3	-38	-27	-17
Texas	112	21,348	18,530	7,624	-29,546	-38,115
Utah	-3,455	-2,871	-2,671	-4,887	-7,374	-814
Virginia	-185	-504	73	-46	-242	-508
Washington	-3,266	-2,091	-788	-1,834	-4,392	-2,918
West Virginia	-15,425	-22,388	-29,308	-25,938	-27,301	-14,249
Wyoming	-1,656	-769	-1,773	-3,980	-3,858	-2,386
<b>Regions</b>						
East Region	-93,871	-69,715	-80,704	-98,011	-94,019	-26,242
South Central Region	-25,428	43,149	33,529	-212	-79,227	-85,205
Midwest Region	-121,381	-86,571	-70,923	-92,831	-105,382	-22,774
Mountain Region	-13,469	-10,773	-12,088	-19,694	-24,646	-7,610
Pacific Region	-6,916	2,142	-906	-10,112	-23,319	-21,206
<b>Total Lower 48 States</b>	<b>-261,066</b>	<b>-121,769</b>	<b>-131,091</b>	<b>-220,859</b>	<b>-326,593</b>	<b>-163,038</b>
<b>U.S. Total</b>	<b>-262,387</b>	<b>-123,765</b>	<b>-133,067</b>	<b>-222,328</b>	<b>-328,551</b>	<b>-164,479</b>

See footnotes at end of table.

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

(million cubic feet) – continued

State	2016		
	March	February	January
Alabama	-323	-713	4,787
Alaska <sup>a</sup>	-451	-459	-50
Arkansas	438	328	434
California	-4,805	7,203	40,217
Colorado	3,688	2,412	9,800
Illinois	26,092	50,274	69,604
Indiana	1,694	5,259	6,106
Iowa	4,762	10,674	19,427
Kansas	-4,070	11,913	26,541
Kentucky	2,150	9,656	19,675
Louisiana	-14,011	21,175	56,058
Maryland	-342	2,294	3,991
Michigan	30,025	80,654	108,415
Minnesota	515	127	315
Mississippi	-12,187	6,944	36,129
Missouri	119	-168	433
Montana	-770	2,057	4,394
Nebraska	-103	549	1,788
New Mexico	-1,658	1,413	1,568
New York	2,483	14,571	22,150
Ohio	17,603	32,160	47,082
Oklahoma	-5,923	10,070	26,725
Oregon	-362	481	1,845
Pennsylvania	11,919	62,426	87,473
Tennessee	-32	-6	25
Texas	-19,445	24,128	56,721
Utah	-1,928	3,685	8,830
Virginia	135	17	1,612
Washington	1,935	5,854	1,480
West Virginia	11,571	35,666	62,059
Wyoming	-139	2,448	3,031
<b>Regions</b>			
East Region	43,370	147,134	224,367
South Central Region	-55,521	73,846	207,396
Midwest Region	65,327	156,470	224,000
Mountain Region	-910	12,562	29,411
Pacific Region	-3,232	13,538	43,542
<b>Total Lower 48 States</b>	<b>49,034</b>	<b>403,550</b>	<b>728,716</b>
<b>U.S. Total</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.<sup>\*</sup> 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, January 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	11,829	22,279	-11,342	-49.0	4,452	11,974
Alaska <sup>a</sup>	5	83,592	67,915	14,197	33,629	47,826	3,239	10.7	100	2,659
Arkansas	2	21,774	8,894	12,880	1,819	14,699	-21	-1.1	253	1,205
California	14	603,808	373,236	230,605	191,312	421,917	2,649	1.4	3,074	45,052
Colorado	11	139,627	68,174	63,117	31,837	94,954	-2,646	-7.7	2,136	11,822
Illinois	28	1,008,549	303,613	705,201	129,774	834,975	-13,964	-9.7	3,201	67,876
Indiana	21	113,665	34,066	79,554	16,920	96,474	-358	-2.1	315	5,672
Iowa	4	288,210	90,313	197,897	31,395	229,292	-4,690	-13.0	182	20,114
Kansas	16	282,986	122,982	163,899	57,678	221,577	-10,707	-15.7	3,540	26,844
Kentucky	23	221,798	107,647	112,925	49,687	162,613	-21,946	-30.6	1,314	24,549
Louisiana	19	746,933	456,292	281,285	215,319	496,604	-101,389	-32.0	41,471	137,087
Maryland	1	64,000	18,300	45,677	9,034	54,711	469	5.5	681	5,172
Michigan	44	1,071,608	683,820	386,921	321,932	708,853	-99,391	-23.6	5,698	166,413
Minnesota	1	7,000	2,000	4,848	1,601	6,449	-165	-9.3	0	238
Mississippi	12	334,792	204,713	124,851	74,067	198,918	-49,205	-39.9	21,893	59,584
Missouri	1	13,845	6,000	10,189	2,203	12,392	-4,051	-64.8	1,703	1,688
Montana	4	376,225	197,477	178,501	17,686	196,187	-2,493	-12.4	*	7,142
Nebraska	1	34,850	12,653	22,197	4,952	27,149	-1,762	-26.2	0	3,298
New Mexico	2	89,100	59,738	29,362	29,075	58,437	-11,363	-28.1	106	4,183
New York	26	245,779	127,487	114,176	68,825	183,002	1,080	1.6	1,097	23,890
Ohio	24	575,794	252,140	321,618	96,277	417,895	-15,538	-13.9	683	43,146
Oklahoma	13	376,528	198,675	177,696	94,164	271,860	-24,042	-20.3	3,407	41,734
Oregon	7	29,565	15,935	12,639	9,716	22,355	959	11.0	0	3,193
Pennsylvania	49	763,296	427,661	335,080	206,481	541,561	-17,305	-7.7	12,550	102,651
Tennessee	2	2,400	1,800	878	1,157	2,035	-28	-2.4	39	143
Texas	36	847,898	545,366	295,382	252,226	547,608	-92,797	-26.9	30,201	137,023
Utah	3	124,509	54,942	69,508	23,243	92,752	-5,104	-18.0	25	14,396
Virginia	2	9,500	5,400	4,100	4,120	8,220	-714	-14.8	2,450	2,207
Washington	1	46,900	24,600	22,300	15,328	37,628	2,941	23.7	1,237	4,133
West Virginia	31	530,837	268,867	262,632	107,761	370,394	-3,227	-2.9	3,035	61,283
Wyoming	9	155,995	74,492	67,675	28,257	95,932	-782	-2.7	145	3,648
<b>Regions</b>										
East Region	133	2,189,206	1,099,855	1,083,285	492,499	1,575,783	-35,235	-6.7	20,495	238,350
South Central Region	100	2,654,512	1,570,072	1,066,442	707,102	1,773,544	-289,503	-29.0	105,218	415,451
Midwest Region	124	2,727,074	1,229,259	1,498,412	554,670	2,053,082	-144,592	-20.7	12,451	286,693
Mountain Region	30	920,306	467,475	430,360	135,051	565,411	-24,149	-15.2	2,412	44,489
Pacific Region	22	680,273	413,771	265,544	216,356	481,900	6,549	3.1	4,311	52,377
<b>Total Lower 48 States</b>	<b>409</b>	<b>9,171,371</b>	<b>4,780,432</b>	<b>4,344,043</b>	<b>2,105,677</b>	<b>6,449,720</b>	<b>-486,930</b>	<b>-18.8</b>	<b>144,886</b>	<b>1,037,360</b>
<b>U.S. Total</b>	<b>414</b>	<b>9,254,963</b>	<b>4,848,347</b>	<b>4,358,240</b>	<b>2,139,306</b>	<b>6,497,546</b>	<b>-483,690</b>	<b>-18.4</b>	<b>144,987</b>	<b>1,040,019</b>

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

\* Volume is less than 500 Mcf.

**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			2017		
	January	Total	December	November	October	September
Alabama	9,436	NA	6,335	2,703	1,217	753
Alaska	2,712	20,256	2,526	2,614	1,579	893
Arizona	5,813	NA	4,277	2,132	1,504	1,147
Arkansas	8,263	24,159	5,376	2,375	876	552
California	58,209	NA	62,283	33,815	23,576	17,704
Colorado	21,992	120,866	21,461	12,751	8,858	3,626
Connecticut	10,430	49,275	8,433	4,873	1,455	1,110
Delaware	NA	9,804	1,988	944	247	170
District of Columbia	2,532	NA	2,152	843	371	270
Florida	3,121	15,135	1,829	1,235	931	836
Georgia	30,506	111,126	22,292	12,081	6,716	4,101
Hawaii	58	572	50	47	43	44
Idaho	4,193	28,399	5,200	3,029	2,117	824
Illinois	84,196	NA	69,476	44,363	17,809	NA
Indiana	29,579	123,558	26,398	14,374	5,540	2,492
Iowa	13,846	61,252	11,451	6,752	2,993	1,144
Kansas	13,685	NA	11,310	NA	2,351	1,224
Kentucky	12,067	43,124	9,915	5,289	2,013	972
Louisiana	9,983	30,552	6,572	2,796	1,615	1,283
Maine	573	2,815	532	270	87	59
Maryland	17,818	75,098	14,984	8,628	2,398	1,715
Massachusetts	25,287	122,126	23,076	12,242	4,217	2,681
Michigan	62,314	305,672	59,357	37,891	14,539	7,237
Minnesota	26,636	124,815	22,224	15,143	6,574	2,575
Mississippi	6,824	18,972	4,260	2,044	913	640
Missouri	24,662	88,514	19,608	10,559	2,354	1,828
Montana	3,572	21,777	3,681	2,569	1,608	646
Nebraska	8,121	35,318	6,186	4,118	1,455	641
Nevada	6,537	40,334	6,227	2,931	2,007	1,455
New Hampshire	1,557	7,647	1,490	821	268	161
New Jersey	49,326	222,267	43,308	21,725	28,246	4,547
New Mexico	6,423	29,924	5,518	2,437	1,538	877
New York	89,701	435,793	76,388	43,034	15,069	11,049
North Carolina	19,033	59,375	14,339	7,972	2,093	1,087
North Dakota	2,289	11,055	1,945	1,393	671	236
Ohio	58,852	NA	52,291	NA	12,021	5,593
Oklahoma	14,635	49,435	11,620	4,750	1,464	1,220
Oregon	6,253	47,720	8,192	5,312	3,141	1,188
Pennsylvania	52,366	222,875	43,013	23,451	8,013	4,695
Rhode Island	3,986	18,999	3,594	2,115	648	398
South Carolina	9,051	25,554	6,097	3,098	869	563
South Dakota	2,562	11,938	2,140	1,261	673	240
Tennessee	19,403	58,364	14,553	6,951	1,880	1,295
Texas	NA	NA	25,573	13,091	7,750	5,871
Utah	10,633	65,391	12,768	6,836	4,439	1,785
Vermont	744	3,585	600	307	113	89
Virginia	NA	74,091	15,443	7,774	2,744	1,623
Washington	12,380	90,315	14,900	10,528	6,405	2,419
West Virginia	5,486	NA	4,438	2,590	1,006	481
Wisconsin	25,776	130,332	25,078	15,254	6,246	2,725
Wyoming	1,893	12,954	1,862	1,325	983	275
<b>Total</b>	<b>973,598</b>	<b>4,422,498</b>	<b>824,610</b>	<b>466,811</b>	<b>204,245</b>	<b>115,095</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					
	August	July	June	May	April	March
Alabama	669	692	NA	NA	NA	3,251
Alaska	601	552	656	984	1,472	2,667
Arizona	1,012	1,102	1,326	1,783	2,361	3,706
Arkansas	521	537	584	896	1,099	2,773
California	17,954	18,796	20,802	27,144	29,589	40,448
Colorado	2,896	2,708	3,012	6,385	9,010	12,051
Connecticut	1,043	1,094	1,404	2,270	3,591	7,980
Delaware	156	150	205	347	606	1,674
District of Columbia	259	253	310	473	562	1,622
Florida	757	786	887	1,075	1,409	1,651
Georgia	4,044	3,937	4,104	4,932	5,700	12,802
Hawaii	42	43	49	44	49	52
Idaho	522	511	591	1,099	1,988	2,632
Illinois	8,083	8,664	9,173	16,967	23,286	52,086
Indiana	1,996	2,091	2,409	5,321	7,058	17,117
Iowa	1,121	1,043	1,295	2,473	4,107	8,180
Kansas	1,116	1,059	1,290	1,865	3,216	6,256
Kentucky	782	717	774	1,184	2,026	5,631
Louisiana	1,269	1,294	1,353	1,503	1,793	2,837
Maine	55	53	82	139	240	436
Maryland	1,303	1,634	1,772	3,001	3,391	11,365
Massachusetts	2,516	2,627	3,324	5,995	8,761	20,373
Michigan	5,484	5,216	6,194	14,012	19,261	43,961
Minnesota	2,529	2,293	3,019	5,082	8,370	16,781
Mississippi	568	527	541	749	830	2,214
Missouri	1,697	1,631	1,943	3,385	4,518	10,495
Montana	354	348	480	914	1,629	2,262
Nebraska	450	698	888	1,568	2,313	4,308
Nevada	1,137	1,292	1,578	1,994	2,755	4,334
New Hampshire	164	143	183	352	498	1,235
New Jersey	4,321	4,881	5,701	9,519	15,232	34,249
New Mexico	829	850	963	1,428	2,113	3,013
New York	10,307	10,844	13,979	20,798	31,178	68,661
North Carolina	985	1,125	1,038	1,506	2,285	8,077
North Dakota	178	156	191	348	740	1,480
Ohio	4,972	4,646	5,262	9,851	13,796	36,914
Oklahoma	1,257	1,135	1,260	1,820	2,651	4,602
Oregon	776	863	1,327	2,142	3,757	5,123
Pennsylvania	3,957	4,278	5,199	9,670	14,079	34,348
Rhode Island	420	427	476	823	1,229	3,224
South Carolina	502	582	548	681	1,227	3,385
South Dakota	210	192	260	474	890	1,513
Tennessee	1,015	1,044	1,207	1,778	2,442	7,118
Texas	5,423	5,987	5,807	7,728	9,387	15,955
Utah	1,442	1,647	2,183	2,834	4,879	5,592
Vermont	80	84	134	191	318	582
Virginia	1,524	1,592	1,747	2,381	3,649	10,958
Washington	1,733	1,786	2,206	4,009	6,969	10,331
West Virginia	301	NA	323	754	1,361	3,461
Wisconsin	2,490	2,293	2,780	5,936	8,395	18,556
Wyoming	209	217	383	823	1,036	1,567
<b>Total</b>	<b>104,031</b>	<b>107,473</b>	<b>123,933</b>	<b>200,427</b>	<b>280,593</b>	<b>581,888</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		Total	2016		
	February	January		December	November	October
Alabama	3,303	4,957	28,407	4,880	1,790	875
Alaska	2,522	3,190	17,787	2,969	2,313	1,713
Arizona	NA	6,664	35,120	4,982	2,314	1,433
Arkansas	3,177	5,394	27,130	5,947	1,830	733
California	53,768	NA	411,828	66,472	37,487	22,235
Colorado	14,949	23,160	121,963	22,109	11,560	6,061
Connecticut	7,324	8,698	46,045	7,814	4,432	1,971
Delaware	1,384	1,933	9,660	1,711	794	281
District of Columbia	NA	2,120	11,379	2,132	941	337
Florida	1,776	1,962	15,352	1,587	1,083	820
Georgia	12,374	18,044	115,922	19,450	10,131	4,799
Hawaii	52	58	571	52	47	45
Idaho	3,775	6,112	24,889	5,896	2,661	1,457
Illinois	47,485	72,032	386,590	77,072	32,863	14,682
Indiana	15,311	23,450	125,038	26,002	11,340	4,294
Iowa	8,504	12,187	61,247	12,695	4,607	2,016
Kansas	7,040	11,886	54,060	12,007	4,755	1,542
Kentucky	5,580	8,240	45,502	9,305	3,864	1,288
Louisiana	3,055	5,181	31,393	4,826	1,988	1,388
Maine	405	457	2,566	449	229	133
Maryland	10,915	13,992	76,047	13,905	6,792	2,645
Massachusetts	16,654	19,661	112,082	19,200	10,623	5,427
Michigan	39,308	53,213	294,187	53,793	27,488	14,924
Minnesota	16,630	23,596	117,598	21,656	9,848	5,555
Mississippi	2,170	3,514	20,177	3,776	1,349	625
Missouri	11,195	19,299	87,265	19,404	6,724	2,508
Montana	3,019	4,268	19,100	3,972	2,116	1,383
Nebraska	4,853	7,840	33,050	6,924	2,373	1,031
Nevada	6,168	8,457	39,075	6,777	2,891	1,810
New Hampshire	1,042	1,288	6,861	1,249	701	231
New Jersey	30,578	39,961	215,510	36,467	18,709	8,782
New Mexico	4,252	6,105	32,577	5,893	3,068	1,214
New York	60,883	73,601	410,836	65,878	37,839	18,228
North Carolina	7,041	11,829	64,547	12,919	6,304	1,719
North Dakota	1,582	2,134	10,059	2,140	867	629
Ohio	32,763	46,269	255,826	45,997	23,457	10,396
Oklahoma	6,244	11,410	50,573	11,805	3,798	1,659
Oregon	6,390	9,510	39,391	8,788	3,994	2,776
Pennsylvania	31,516	40,656	215,512	38,712	20,030	8,820
Rhode Island	2,592	3,054	17,200	3,064	1,753	906
South Carolina	3,037	4,964	27,562	5,384	2,620	730
South Dakota	1,640	2,444	11,663	2,513	901	520
Tennessee	7,458	11,623	58,924	12,405	4,393	1,410
Texas	22,069	NA	175,332	29,067	9,113	6,508
Utah	7,281	13,706	63,929	13,140	6,363	2,979
Vermont	518	568	3,518	555	326	149
Virginia	9,992	14,663	77,170	13,305	6,527	2,884
Washington	12,339	16,690	76,321	16,027	7,845	5,551
West Virginia	3,093	4,049	23,210	4,083	2,265	884
Wisconsin	17,162	23,416	125,484	24,373	10,370	5,591
Wyoming	1,854	2,420	11,999	2,423	1,135	727
<b>Total</b>	<b>581,381</b>	<b>832,011</b>	<b>4,345,031</b>	<b>793,950</b>	<b>379,611</b>	<b>187,305</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					
	September	August	July	June	May	April
Alabama	620	646	675	833	978	1,645
Alaska	831	534	479	534	864	1,242
Arizona	1,144	1,030	1,081	1,327	1,766	2,422
Arkansas	609	545	584	687	937	1,510
California	19,919	18,615	19,535	21,253	24,772	28,203
Colorado	3,216	2,736	2,559	2,931	6,530	10,422
Connecticut	962	897	1,034	1,312	2,294	4,070
Delaware	165	155	164	224	458	794
District of Columbia	202	211	240	280	489	772
Florida	727	683	700	798	969	1,222
Georgia	3,782	3,816	3,629	3,761	4,631	6,473
Hawaii	49	45	45	45	44	51
Idaho	690	498	524	587	893	1,308
Illinois	7,804	7,463	7,828	9,530	15,847	30,371
Indiana	2,346	2,216	2,033	2,231	4,740	9,341
Iowa	1,330	1,052	1,178	1,181	2,249	4,664
Kansas	1,138	990	1,079	1,376	2,084	2,598
Kentucky	772	774	723	812	1,491	2,634
Louisiana	1,222	1,248	1,182	1,240	1,482	1,903
Maine	56	44	50	60	136	255
Maryland	1,425	1,345	1,484	1,784	3,341	5,421
Massachusetts	2,440	2,282	2,440	2,802	5,617	10,051
Michigan	6,654	4,899	5,406	5,587	12,193	27,261
Minnesota	2,599	2,497	2,306	2,944	4,253	9,873
Mississippi	572	553	594	740	816	943
Missouri	1,526	1,611	1,637	1,919	2,869	4,944
Montana	631	405	400	515	934	1,288
Nebraska	706	665	713	905	1,371	2,324
Nevada	1,387	1,208	1,269	1,518	1,993	2,500
New Hampshire	153	129	130	168	294	606
New Jersey	4,706	4,313	5,739	6,416	10,809	17,908
New Mexico	933	775	839	1,085	1,546	2,179
New York	9,343	9,231	10,735	12,749	22,011	36,765
North Carolina	1,088	1,046	1,047	1,222	1,657	3,302
North Dakota	218	175	162	181	375	770
Ohio	4,721	4,818	4,237	4,868	10,509	21,446
Oklahoma	1,305	1,175	1,114	1,369	1,759	2,369
Oregon	1,114	622	920	1,127	1,550	2,244
Pennsylvania	4,167	3,943	4,156	5,190	9,401	16,928
Rhode Island	360	236	268	325	746	1,498
South Carolina	502	484	447	499	719	1,342
South Dakota	239	209	196	230	523	973
Tennessee	1,021	910	1,004	1,158	1,627	3,108
Texas	5,353	5,380	5,756	7,078	7,373	11,583
Utah	1,781	1,366	1,714	1,463	2,994	4,451
Vermont	87	77	93	113	204	362
Virginia	1,450	1,376	1,429	2,052	2,969	5,421
Washington	2,551	1,776	1,855	2,300	3,170	4,151
West Virginia	360	323	363	371	726	1,783
Wisconsin	2,404	2,125	2,362	2,605	5,058	11,245
Wyoming	353	259	231	294	772	979
<b>Total</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			2017		
	January	Total	December	November	October	September
Alabama	5,163	NA	3,994	2,647	2,029	1,252
Alaska	1,992	15,488	1,970	1,824	1,184	707
Arizona	NA	NA	3,688	2,555	2,169	1,918
Arkansas	8,175	NA	6,237	4,240	3,589	2,842
California	25,346	235,086	27,943	21,552	19,225	15,926
Colorado	NA	53,304	8,718	5,443	3,820	1,901
Connecticut	8,721	53,426	7,541	5,327	2,844	2,532
Delaware	NA	NA	NA	1,457	832	649
District of Columbia	NA	NA	2,482	NA	930	757
Florida	6,982	62,310	6,027	5,264	4,853	4,558
Georgia	11,197	49,375	8,569	5,243	3,346	2,237
Hawaii	186	NA	166	167	164	162
Idaho	2,594	19,488	2,882	1,894	1,473	930
Illinois	39,446	216,065	35,953	22,270	13,703	8,823
Indiana	15,991	75,368	13,733	8,404	5,004	2,769
Iowa	9,488	50,493	7,994	5,911	3,653	1,831
Kansas	6,115	36,293	5,599	3,503	2,450	1,782
Kentucky	7,789	32,850	6,269	3,767	2,048	1,380
Louisiana	4,479	NA	4,101	2,763	2,296	1,874
Maine	1,621	9,147	1,554	962	391	306
Maryland	12,161	NA	11,314	7,173	3,774	3,182
Massachusetts	19,267	113,757	18,628	12,141	5,866	4,301
Michigan	30,926	165,739	26,969	17,234	8,349	6,070
Minnesota	18,461	100,381	16,864	11,208	5,525	3,085
Mississippi	3,747	17,668	2,703	1,761	1,456	1,013
Missouri	12,428	NA	10,053	5,737	2,751	2,310
Montana	NA	23,530	3,550	2,660	1,694	1,016
Nebraska	5,379	30,083	4,545	3,144	1,751	1,043
Nevada	3,762	31,912	4,007	2,634	2,280	1,885
New Hampshire	1,853	9,522	1,767	1,084	407	256
New Jersey	26,712	NA	24,158	13,303	8,262	7,044
New Mexico	4,067	24,406	4,018	2,802	1,869	1,145
New York	47,828	315,768	46,690	31,863	17,487	14,931
North Carolina	10,853	52,761	8,343	5,709	3,831	2,710
North Dakota	2,227	13,104	2,036	1,612	885	466
Ohio	31,613	154,289	28,392	17,276	8,997	5,412
Oklahoma	8,830	38,675	6,867	3,614	2,198	1,676
Oregon	3,982	31,583	4,890	3,154	2,146	1,140
Pennsylvania	29,632	NA	NA	NA	7,957	5,088
Rhode Island	2,301	11,631	2,217	1,184	459	258
South Carolina	3,991	23,170	3,132	2,388	1,802	1,329
South Dakota	2,022	10,694	1,737	1,167	697	364
Tennessee	11,305	50,172	9,101	5,682	3,303	2,451
Texas	28,074	NA	19,416	13,992	12,199	10,331
Utah	6,169	40,200	7,296	4,292	2,720	1,398
Vermont	988	NA	942	759	405	346
Virginia	NA	NA	10,091	6,662	4,116	3,323
Washington	7,490	59,206	8,272	6,069	4,242	2,482
West Virginia	3,916	22,068	3,473	2,247	1,365	1,063
Wisconsin	16,419	90,033	14,745	9,969	5,154	3,011
Wyoming	1,919	14,174	1,844	1,339	1,035	449
<b>Total</b>	<b>548,159</b>	<b>3,177,113</b>	<b>488,326</b>	<b>323,729</b>	<b>200,987</b>	<b>145,714</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					
	August	July	June	May	April	March
Alabama	1,132	1,070	NA	NA	NA	2,339
Alaska	548	498	528	852	1,149	2,045
Arizona	NA	1,866	1,970	2,289	2,541	2,949
Arkansas	2,822	2,634	2,677	NA	3,026	4,379
California	16,058	14,802	14,653	16,097	17,114	19,797
Colorado	1,733	1,657	1,760	3,101	4,084	5,265
Connecticut	2,461	2,479	2,354	2,779	3,884	7,148
Delaware	571	498	559	717	747	1,685
District of Columbia	766	788	784	933	1,005	1,697
Florida	4,558	4,500	4,662	4,926	5,317	5,892
Georgia	2,219	2,172	2,223	2,601	2,827	5,440
Hawaii	166	159	NA	157	164	173
Idaho	722	694	709	945	1,330	1,740
Illinois	8,059	7,696	7,567	12,640	13,530	25,935
Indiana	2,394	2,234	2,441	3,578	4,425	9,282
Iowa	1,604	1,623	1,781	2,319	3,328	5,890
Kansas	1,846	1,671	1,658	1,874	2,630	3,579
Kentucky	1,138	1,043	1,101	1,339	1,662	3,889
Louisiana	1,990	1,868	NA	2,113	2,147	2,701
Maine	297	296	325	472	712	1,322
Maryland	3,222	NA	2,967	4,094	4,183	9,413
Massachusetts	4,232	3,979	4,120	6,084	7,681	16,774
Michigan	5,516	5,112	6,084	8,967	11,420	22,292
Minnesota	2,885	2,878	3,137	4,883	7,512	12,382
Mississippi	981	890	905	1,103	990	1,780
Missouri	2,240	2,041	2,196	2,786	3,243	6,391
Montana	690	675	758	1,102	1,722	2,492
Nebraska	837	1,075	1,236	1,555	2,143	3,351
Nevada	1,689	1,743	1,891	2,169	2,573	3,061
New Hampshire	269	201	251	446	592	1,509
New Jersey	6,049	5,590	5,948	8,160	9,544	21,049
New Mexico	1,134	1,061	1,010	1,275	1,718	1,957
New York	15,092	14,359	14,733	18,286	21,629	41,538
North Carolina	2,657	2,578	2,341	2,946	2,945	6,106
North Dakota	356	310	324	494	902	1,662
Ohio	5,026	4,606	4,955	7,067	8,316	20,541
Oklahoma	1,667	1,542	1,640	1,957	2,426	3,545
Oregon	846	885	1,188	1,664	2,452	3,299
Pennsylvania	4,814	4,907	5,168	7,497	9,282	20,924
Rhode Island	263	268	305	550	769	1,932
South Carolina	1,316	1,407	1,287	1,524	1,505	2,510
South Dakota	300	299	337	483	748	1,281
Tennessee	2,177	2,110	2,179	2,628	2,572	5,369
Texas	10,451	10,488	10,237	11,270	12,197	14,673
Utah	1,166	1,248	1,682	1,908	3,089	3,331
Vermont	320	295	NA	336	379	782
Virginia	3,160	NA	2,858	3,752	3,919	7,960
Washington	2,144	2,194	2,433	3,461	4,726	6,353
West Virginia	1,005	952	1,002	1,201	1,533	2,710
Wisconsin	3,133	2,869	3,054	4,477	6,288	11,194
Wyoming	407	414	527	952	1,114	1,739
<b>Total</b>	<b>139,002</b>	<b>133,901</b>	<b>138,029</b>	<b>179,211</b>	<b>213,036</b>	<b>373,046</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		
	February	January		December	November	October
Alabama	2,121	3,075	23,552	3,314	2,275	1,505
Alaska	1,850	2,333	15,953	2,277	1,986	1,400
Arizona	3,412	4,012	30,938	3,655	2,662	1,998
Arkansas	4,508	6,283	45,810	6,232	4,036	3,025
California	22,215	29,705	236,967	28,870	22,310	17,301
Colorado	6,275	9,547	54,265	9,066	5,115	2,824
Connecticut	6,442	7,635	50,258	7,106	4,847	3,180
Delaware	1,497	1,877	12,340	1,865	1,259	862
District of Columbia	1,499	1,976	15,648	2,011	1,577	898
Florida	5,491	6,261	62,526	5,911	5,251	4,707
Georgia	5,210	7,289	51,325	7,639	4,603	2,574
Hawaii	164	185	1,926	170	165	162
Idaho	2,456	3,714	17,598	3,274	1,658	1,266
Illinois	24,500	35,389	212,482	34,996	17,390	12,701
Indiana	8,366	12,736	74,131	13,291	6,367	4,327
Iowa	6,097	8,460	49,414	8,370	4,182	2,970
Kansas	3,652	6,048	34,762	5,921	2,682	1,968
Kentucky	3,822	5,391	33,520	5,921	2,990	1,697
Louisiana	2,386	3,307	28,931	3,403	2,448	2,095
Maine	1,177	1,334	8,559	1,319	771	523
Maryland	7,893	10,188	70,500	9,758	6,917	4,184
Massachusetts	13,799	16,151	104,850	15,481	10,334	7,338
Michigan	21,160	26,565	158,630	24,656	13,188	8,231
Minnesota	12,973	17,049	92,529	14,773	8,027	5,388
Mississippi	1,708	2,379	18,126	2,368	1,610	1,096
Missouri	NA	10,361	56,967	10,062	5,473	2,951
Montana	3,048	4,123	21,314	3,947	2,238	1,556
Nebraska	3,823	5,579	26,971	4,892	2,339	1,259
Nevada	3,493	4,488	31,125	4,003	2,639	2,154
New Hampshire	1,222	1,517	8,509	1,486	892	365
New Jersey	18,310	NA	153,096	23,599	11,716	7,835
New Mexico	2,477	3,938	24,954	3,981	3,335	1,535
New York	36,890	42,269	300,588	39,787	27,178	20,612
North Carolina	5,093	7,501	55,876	7,469	5,301	3,359
North Dakota	1,723	2,333	11,810	2,344	1,034	795
Ohio	18,469	25,232	152,478	24,165	14,606	8,566
Oklahoma	4,432	7,113	38,510	7,033	2,991	1,952
Oregon	4,087	5,831	26,667	5,055	2,520	1,949
Pennsylvania	19,194	23,371	142,724	23,326	13,681	8,461
Rhode Island	1,540	1,887	10,744	1,843	1,019	572
South Carolina	2,129	2,841	23,734	2,840	2,424	1,588
South Dakota	1,330	1,952	10,439	1,968	964	590
Tennessee	5,277	7,323	49,810	8,029	4,716	2,548
Texas	NA	NA	164,306	19,803	12,852	10,574
Utah	4,490	7,579	39,066	7,032	4,221	1,971
Vermont	685	822	6,251	845	575	495
Virginia	6,983	9,383	67,553	8,360	7,392	4,448
Washington	7,399	9,432	51,634	8,702	4,816	3,829
West Virginia	2,495	3,021	22,698	3,151	2,079	1,356
Wisconsin	10,826	15,314	88,701	14,628	7,423	4,884
Wyoming	1,912	2,441	13,425	2,257	1,252	850
<b>Total</b>	<b>361,061</b>	<b>481,070</b>	<b>3,105,487</b>	<b>462,253</b>	<b>280,328</b>	<b>191,273</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					
	September	August	July	June	May	April
Alabama	1,029	1,046	1,008	1,172	1,236	1,487
Alaska	866	639	566	664	826	1,201
Arizona	1,804	1,771	1,783	1,923	2,180	2,477
Arkansas	2,733	2,603	2,469	2,562	2,880	3,144
California	16,692	17,658	15,665	16,004	16,480	17,220
Colorado	1,813	1,495	1,638	1,834	3,121	4,605
Connecticut	2,466	2,462	2,444	2,106	2,826	3,746
Delaware	596	566	519	516	668	898
District of Columbia	675	699	688	639	877	1,222
Florida	4,552	4,284	4,640	4,548	4,880	5,280
Georgia	2,086	2,066	2,006	2,051	2,437	3,220
Hawaii	171	163	155	154	151	162
Idaho	811	712	668	664	865	1,009
Illinois	8,285	8,004	7,989	7,350	10,639	16,018
Indiana	2,719	2,493	2,087	2,176	3,276	5,161
Iowa	2,052	1,826	1,758	1,604	2,134	3,532
Kansas	1,540	1,563	1,512	1,628	1,960	2,102
Kentucky	1,176	1,126	1,065	1,012	1,522	1,798
Louisiana	1,903	1,970	1,785	1,816	2,110	2,137
Maine	291	280	284	311	471	789
Maryland	3,228	2,978	2,882	3,249	4,159	5,515
Massachusetts	4,424	4,205	3,926	3,830	5,716	8,832
Michigan	5,366	5,189	5,033	5,240	8,587	14,404
Minnesota	2,946	2,838	2,672	3,073	4,571	7,286
Mississippi	988	972	948	1,158	1,191	1,018
Missouri	1,981	2,119	2,040	2,034	2,666	3,235
Montana	934	742	732	764	1,136	1,461
Nebraska	954	930	960	1,048	1,267	1,817
Nevada	1,836	1,723	1,771	1,783	2,183	2,421
New Hampshire	234	203	200	248	381	716
New Jersey	7,339	8,213	8,165	7,963	8,929	11,456
New Mexico	1,170	1,053	1,009	1,117	1,249	1,558
New York	14,883	16,258	14,940	14,800	16,724	23,130
North Carolina	2,791	2,790	2,584	2,582	2,878	3,743
North Dakota	356	300	303	296	422	1,026
Ohio	4,898	4,902	4,193	4,162	6,640	12,084
Oklahoma	1,683	1,638	1,480	1,558	2,083	2,206
Oregon	1,071	697	926	1,046	1,318	1,797
Pennsylvania	4,846	4,608	4,420	4,911	6,756	10,707
Rhode Island	233	167	174	234	549	977
South Carolina	1,284	1,300	1,135	1,255	1,395	1,849
South Dakota	349	298	299	302	482	820
Tennessee	2,049	1,956	1,947	1,945	2,522	2,854
Texas	9,927	9,923	9,968	11,212	10,433	12,963
Utah	1,358	1,036	1,245	1,083	2,026	2,794
Vermont	353	355	350	310	290	520
Virginia	2,939	2,755	2,736	3,135	3,411	5,150
Washington	2,517	2,191	2,289	2,466	2,854	3,114
West Virginia	1,007	1,016	1,075	998	1,226	1,656
Wisconsin	3,142	3,060	2,867	3,162	4,578	7,206
Wyoming	555	467	430	434	856	1,107
<b>Total</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			2017		
	January	Total	December	November	October	September
Alabama	19,148	196,390	18,417	16,467	15,831	15,288
Alaska	535	4,118	391	303	237	213
Arizona	1,978	19,278	2,002	1,500	1,576	1,389
Arkansas	NA	91,322	8,703	7,761	7,934	7,082
California	63,846	758,959	65,925	61,958	64,442	67,212
Colorado	9,450	81,984	8,917	7,560	6,699	4,905
Connecticut	2,774	24,546	2,603	2,348	1,663	1,664
Delaware	2,530	NA	2,512	2,534	2,647	NA
District of Columbia	0	0	0	0	0	0
Florida	10,130	102,221	9,641	8,923	8,788	7,218
Georgia	14,371	152,153	13,961	13,361	12,266	10,523
Hawaii	NA	NA	NA	43	40	48
Idaho	3,529	35,889	3,496	3,329	3,251	2,703
Illinois	30,103	253,541	28,313	24,437	20,513	17,878
Indiana	NA	368,772	38,219	32,016	28,552	28,487
Iowa	21,011	NA	21,386	19,859	NA	17,226
Kansas	12,919	127,707	12,258	11,272	9,341	10,251
Kentucky	12,491	113,883	11,415	10,120	9,157	8,208
Louisiana	NA	1,094,370	99,846	95,417	93,437	89,505
Maine	1,973	17,201	1,875	1,718	1,349	1,281
Maryland	1,410	15,665	1,541	1,537	1,249	1,199
Massachusetts	6,195	NA	5,744	4,131	NA	2,745
Michigan	19,784	172,694	19,585	15,601	13,902	11,480
Minnesota	16,520	NA	NA	14,748	12,882	12,335
Mississippi	12,330	129,677	11,957	11,347	10,549	10,537
Missouri	6,918	63,669	6,896	5,663	5,146	4,346
Montana	2,331	NA	NA	NA	NA	1,963
Nebraska	7,606	NA	8,245	NA	7,800	6,666
Nevada	1,824	19,250	1,830	1,644	1,735	1,528
New Hampshire	851	8,559	849	737	653	611
New Jersey	NA	NA	4,771	NA	NA	NA
New Mexico	1,510	NA	1,525	NA	1,361	1,247
New York	9,694	83,337	9,186	8,445	6,658	5,750
North Carolina	NA	107,388	10,727	10,198	9,445	8,158
North Dakota	3,021	33,051	3,337	2,677	2,735	1,849
Ohio	30,958	280,501	29,341	25,474	21,444	20,576
Oklahoma	18,495	200,960	17,765	16,352	17,110	16,445
Oregon	5,338	58,734	5,346	4,864	4,969	4,430
Pennsylvania	22,582	NA	NA	20,006	17,721	16,453
Rhode Island	842	NA	773	709	641	673
South Carolina	7,470	91,903	8,286	8,559	8,087	7,079
South Dakota	4,313	45,274	4,228	3,979	3,515	3,539
Tennessee	NA	NA	NA	10,813	10,587	10,356
Texas	NA	NA	155,254	145,693	NA	131,222
Utah	3,937	40,009	3,874	3,380	2,947	3,048
Vermont	224	2,191	226	204	166	158
Virginia	NA	NA	8,029	8,089	7,390	7,361
Washington	7,667	80,495	7,710	6,987	7,281	6,274
West Virginia	3,563	34,896	3,271	3,133	2,905	2,771
Wisconsin	18,153	153,225	17,271	14,813	12,037	10,346
Wyoming	4,691	52,091	5,249	4,437	4,201	4,013
<b>Total</b>	<b>769,305</b>	<b>7,901,570</b>	<b>759,417</b>	<b>690,730</b>	<b>652,255</b>	<b>613,266</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					
	August	July	June	May	April	March
Alabama	15,869	15,719	15,813	16,313	15,892	17,421
Alaska	238	198	338	370	399	469
Arizona	1,376	1,333	1,350	1,562	1,585	1,756
Arkansas	7,217	6,887	7,073	7,490	7,215	7,685
California	68,890	64,201	60,178	62,230	60,226	62,828
Colorado	5,228	5,091	5,196	6,455	6,862	7,536
Connecticut	1,736	1,749	1,690	1,755	1,847	2,632
Delaware	2,492	2,272	2,424	2,316	NA	2,353
District of Columbia	0	0	0	0	0	0
Florida	8,184	8,033	7,672	8,370	8,295	9,171
Georgia	12,720	12,355	12,729	12,484	11,912	13,925
Hawaii	48	45	45	46	42	47
Idaho <sup>a</sup>	2,262	2,472	2,455	2,741	2,819	3,183
Illinois	17,826	16,732	17,032	18,843	19,630	23,228
Indiana	28,005	27,598	26,309	27,923	29,677	33,846
Iowa	17,992	17,845	17,647	18,182	17,984	20,009
Kansas	11,045	11,725	10,162	9,180	9,756	10,585
Kentucky	8,405	8,020	8,492	9,215	9,052	10,458
Louisiana	93,101	90,495	88,526	89,125	87,863	90,263
Maine	1,221	1,240	1,133	1,171	1,375	1,595
Maryland	1,127	1,177	1,287	1,228	1,035	1,528
Massachusetts	2,517	2,489	2,707	3,200	4,311	5,605
Michigan	11,967	10,799	10,846	12,433	13,052	17,541
Minnesota	12,894	12,236	12,610	12,849	13,729	14,907
Mississippi	10,730	10,169	10,208	10,849	10,556	11,143
Missouri	4,594	4,402	4,362	4,717	4,873	5,916
Montana	1,815	1,709	1,382	1,089	1,261	1,628
Nebraska	7,147	7,586	6,217	6,868	7,014	7,349
Nevada	1,579	1,453	1,481	1,469	1,524	1,671
New Hampshire	594	611	609	682	768	821
New Jersey	NA	NA	NA	4,343	NA	NA
New Mexico	1,292	1,298	1,253	1,310	NA	NA
New York	5,799	5,636	5,482	5,553	6,428	8,291
North Carolina	8,421	7,806	8,109	8,312	8,284	9,631
North Dakota	2,563	2,578	2,828	2,931	2,983	3,133
Ohio	19,580	19,227	18,812	21,307	22,548	26,962
Oklahoma	16,196	15,656	16,021	16,747	17,220	17,909
Oregon	4,335	4,200	4,467	4,819	4,854	5,288
Pennsylvania	16,635	15,739	16,016	16,784	17,082	21,013
Rhode Island	672	644	660	666	799	716
South Carolina	7,468	7,016	7,159	7,454	7,232	8,114
South Dakota	3,615	3,573	3,554	3,648	3,616	3,916
Tennessee	10,842	10,423	10,618	10,984	10,625	11,930
Texas	140,826	143,670	140,620	133,666	130,797	139,913
Utah	2,907	3,035	3,112	3,248	3,480	3,390
Vermont	164	158	158	158	167	215
Virginia	7,250	NA	7,646	7,698	7,833	8,262
Washington	6,074	5,922	5,939	6,052	6,263	6,994
West Virginia	2,822	2,686	2,733	2,667	2,488	3,155
Wisconsin	10,834	10,166	9,878	10,958	11,636	14,939
Wyoming	3,954	3,795	3,838	4,193	4,394	4,732
<b>Total</b>	<b>634,844</b>	<b>622,986</b>	<b>611,185</b>	<b>624,651</b>	<b>625,436</b>	<b>691,312</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		
	February	January		December	November	October
Alabama	15,519	17,843	192,424	16,998	15,514	15,106
Alaska	464	497	4,268	466	493	538
Arizona	1,782	2,067	19,765	1,914	1,646	1,663
Arkansas	7,626	8,647	87,876	8,515	7,582	7,052
California	56,739	64,131	774,504	66,492	62,918	63,793
Colorado	7,618	9,916	80,432	9,450	7,220	6,110
Connecticut	2,216	2,643	24,271	2,672	2,213	1,745
Delaware	2,657	2,888	31,457	2,776	2,573	2,742
District of Columbia	0	0	0	0	0	0
Florida	8,170	9,755	103,658	9,226	8,626	8,460
Georgia	12,308	13,608	152,312	13,487	12,619	12,635
Hawaii	42	48	542	42	41	43
Idaho	3,276	3,901	34,761	3,788	3,171	3,117
Illinois	22,437	26,671	254,682	27,055	22,153	20,313
Indiana	31,613	36,527	370,944	37,406	28,292	24,639
Iowa	18,149	20,042	189,618	20,149	18,448	16,360
Kansas	9,833	12,297	123,915	12,699	9,872	9,120
Kentucky	9,881	11,459	115,201	11,095	10,031	9,001
Louisiana	82,437	94,354	1,048,751	93,853	88,012	85,534
Maine	1,534	1,709	18,983	1,524	1,403	1,697
Maryland	1,275	1,482	15,400	1,666	1,146	1,281
Massachusetts	5,135	5,707	45,721	5,209	4,214	3,331
Michigan	16,396	19,092	172,010	18,447	14,564	13,226
Minnesota	14,732	16,471	162,818	15,993	13,769	12,018
Mississippi	10,406	11,226	116,117	10,739	9,932	8,328
Missouri	5,683	7,070	63,630	6,733	5,257	4,458
Montana	1,621	1,920	21,208	1,854	2,126	1,874
Nebraska	7,603	8,446	91,021	8,390	8,307	8,070
Nevada	1,516	1,819	18,327	1,824	1,517	1,628
New Hampshire	821	804	8,454	770	724	651
New Jersey	4,957	5,391	60,910	5,379	4,500	5,405
New Mexico	1,244	1,548	16,109	1,523	1,393	1,321
New York	7,587	8,522	77,153	8,323	6,779	6,129
North Carolina	8,662	9,633	105,504	9,629	8,938	8,625
North Dakota	2,426	3,012	31,232	2,620	3,009	3,179
Ohio	26,017	29,212	275,358	27,698	23,448	21,386
Oklahoma	15,559	17,980	192,257	17,581	15,480	14,948
Oregon	5,171	5,991	57,760	5,705	4,754	4,920
Pennsylvania	19,014	21,205	212,253	20,668	19,496	17,368
Rhode Island	NA	806	8,474	734	677	694
South Carolina	7,278	8,170	88,148	7,958	7,852	7,159
South Dakota	3,796	4,296	44,570	4,108	3,953	3,565
Tennessee	11,638	12,546	122,952	12,163	10,537	9,993
Texas	131,228	NA	1,649,759	154,403	140,134	137,211
Utah	3,810	3,779	38,568	3,460	3,201	3,130
Vermont	196	222	2,172	217	199	185
Virginia	7,874	7,741	88,422	7,668	7,547	6,455
Washington	6,844	8,156	79,275	7,903	6,687	7,137
West Virginia	2,937	3,328	32,281	3,394	3,284	3,013
Wisconsin	13,691	16,657	143,214	15,840	12,341	11,270
Wyoming	4,416	4,868	52,810	5,173	4,938	4,648
<b>Total</b>	<b>644,623</b>	<b>730,864</b>	<b>7,722,252</b>	<b>733,380</b>	<b>653,529</b>	<b>622,274</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					
	September	August	July	June	May	April
Alabama	14,453	14,872	14,946	15,399	16,891	16,027
Alaska	436	261	307	363	261	183
Arizona	1,576	1,386	1,334	1,542	1,591	1,582
Arkansas	6,668	7,035	6,546	6,554	6,970	7,074
California	68,837	72,768	66,479	62,672	63,228	61,518
Colorado	5,167	5,246	5,118	4,984	6,141	6,625
Connecticut	1,663	1,733	1,685	1,602	1,714	1,921
Delaware	2,659	2,573	2,690	2,333	2,643	2,464
District of Columbia	0	0	0	0	0	0
Florida	8,150	8,431	8,340	7,619	8,566	8,978
Georgia	11,517	11,720	11,880	11,832	12,657	12,370
Hawaii	44	56	54	41	47	42
Idaho <sup>a</sup>	2,659	2,252	2,524	2,136	2,462	2,492
Illinois	18,519	17,502	17,556	16,356	18,795	20,145
Indiana	27,077	27,962	29,016	29,034	31,204	31,458
Iowa	14,188	15,012	14,346	14,114	14,311	13,989
Kansas	8,356	12,156	11,049	9,324	9,217	9,344
Kentucky	8,199	8,561	8,169	8,237	9,171	9,448
Louisiana	84,515	87,369	88,600	85,219	87,933	85,740
Maine	1,590	1,588	1,569	1,414	1,570	1,602
Maryland	997	1,207	1,219	1,063	1,202	1,264
Massachusetts	2,495	2,419	2,475	2,841	3,168	4,147
Michigan	12,155	11,473	10,754	11,263	11,856	14,586
Minnesota	10,879	12,090	12,203	11,722	12,508	13,345
Mississippi	8,676	9,571	9,591	9,839	9,772	9,647
Missouri	4,628	4,301	4,453	4,385	4,952	4,936
Montana	1,835	1,641	1,661	1,510	1,658	1,459
Nebraska	7,639	9,167	8,450	7,126	6,787	6,586
Nevada	1,510	1,440	1,392	1,427	1,477	1,511
New Hampshire	620	582	590	564	679	727
New Jersey	5,179	5,372	5,628	5,268	4,364	4,820
New Mexico	1,232	1,209	1,252	1,220	1,297	1,234
New York	5,336	5,568	5,203	5,138	4,925	6,674
North Carolina	7,700	8,370	7,741	7,668	8,439	8,635
North Dakota	2,848	2,037	2,194	2,768	2,795	2,091
Ohio	19,351	18,914	19,148	19,685	21,390	22,601
Oklahoma	13,765	15,638	15,794	15,675	17,306	16,339
Oregon	4,469	4,337	4,254	4,287	4,591	4,623
Pennsylvania	14,878	16,263	14,823	14,577	15,739	17,592
Rhode Island	742	662	605	652	691	728
South Carolina	6,862	6,901	6,771	7,010	7,448	7,464
South Dakota	3,536	3,661	3,401	3,386	3,480	3,645
Tennessee	9,343	9,639	9,293	9,496	9,395	9,550
Texas	136,921	143,214	142,470	128,372	128,639	126,880
Utah	2,995	2,735	2,822	3,036	3,073	3,569
Vermont	153	140	140	151	167	192
Virginia	7,527	7,427	7,350	7,190	6,896	7,176
Washington	6,414	5,964	6,013	5,731	5,758	6,304
West Virginia	2,712	2,576	2,697	2,406	2,093	2,300
Wisconsin	9,824	9,962	9,222	9,690	10,099	11,833
Wyoming	4,013	4,304	4,274	4,040	4,159	4,054
<b>Total</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>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		
	January	Total	December	November	October	September
Alabama	33,707	387,460	30,027	30,663	31,968	35,935
Alaska	2,591	27,141	2,879	2,287	2,739	2,590
Arizona	11,768	222,843	15,583	12,775	21,580	24,782
Arkansas	12,246	133,042	12,806	6,552	10,535	10,781
California	45,594	597,171	50,535	48,013	58,492	62,609
Colorado	10,349	98,427	8,882	6,641	6,431	9,209
Connecticut	9,306	107,213	10,080	10,253	9,317	8,206
Delaware	2,402	45,793	2,622	2,381	3,671	3,758
District of Columbia	--	*	*	--	--	--
Florida	90,516	1,196,155	86,507	83,018	106,714	112,489
Georgia	33,757	377,452	32,831	26,920	29,911	33,691
Hawaii	--	--	--	--	--	--
Idaho	1,320	20,214	2,067	1,608	2,046	2,004
Illinois	10,770	116,882	9,016	7,543	8,982	11,325
Indiana	17,444	151,820	16,492	12,651	12,159	13,843
Iowa	2,928	27,706	3,249	2,098	2,623	3,197
Kansas	1,657	23,257	1,582	1,563	2,518	2,034
Kentucky	14,360	84,878	8,188	7,550	5,319	6,666
Louisiana	24,878	272,156	21,902	15,618	26,045	25,718
Maine	W	W	1,601	W	W	W
Maryland	4,061	51,303	5,044	5,218	3,262	5,952
Massachusetts	12,374	163,128	13,410	9,884	12,070	13,431
Michigan	21,235	216,285	21,153	16,756	19,250	18,700
Minnesota	4,983	58,713	5,661	4,496	5,591	5,964
Mississippi	36,863	346,990	31,169	24,528	25,870	29,682
Missouri	4,888	44,834	3,383	3,547	W	4,698
Montana	360	5,118	450	340	434	532
Nebraska	266	5,531	284	282	319	588
Nevada	14,717	196,646	14,765	14,037	16,823	17,643
New Hampshire	916	25,975	1,429	1,850	1,668	3,324
New Jersey	17,925	278,263	23,081	18,584	21,751	23,629
New Mexico	5,303	75,644	6,207	4,903	5,982	6,601
New York	29,082	400,403	31,253	27,835	30,115	36,648
North Carolina	24,882	285,843	26,844	22,687	22,530	24,699
North Dakota	846	10,100	993	821	899	973
Ohio	26,412	205,619	21,547	20,491	15,269	17,640
Oklahoma	17,827	235,574	19,103	14,548	18,031	21,568
Oregon	8,707	88,673	11,711	8,347	10,577	9,407
Pennsylvania	36,855	440,807	33,147	32,340	45,997	44,848
Rhode Island	2,859	W	3,072	3,304	W	3,926
South Carolina	12,011	135,107	9,625	10,191	12,271	12,622
South Dakota	499	W	540	427	543	707
Tennessee	9,349	77,410	6,653	5,416	6,291	6,626
Texas	125,476	1,383,503	110,222	88,443	110,054	125,868
Utah	3,756	40,900	3,738	1,982	2,017	3,581
Vermont	--	12	1	1	*	1
Virginia	29,356	327,126	27,707	26,263	21,680	31,012
Washington	6,034	77,234	8,453	6,714	8,284	7,571
West Virginia	W	11,295	434	915	2,067	2,064
Wisconsin	9,861	104,470	10,144	8,004	10,295	10,809
Wyoming	W	1,268	154	90	55	116
<b>Total</b>	<b>794,896</b>	<b>9,250,066</b>	<b>768,229</b>	<b>662,814</b>	<b>779,799</b>	<b>862,068</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					
	August	July	June	May	April	March
Alabama	41,891	43,183	33,599	30,994	29,790	30,529
Alaska	3,148	3,075	1,798	1,398	1,510	1,916
Arizona	31,174	34,001	27,480	19,077	14,165	7,307
Arkansas	14,121	16,802	13,498	13,100	11,525	11,030
California	78,072	67,121	49,346	35,394	27,417	31,506
Colorado	11,276	12,634	8,919	7,299	7,343	5,826
Connecticut	10,854	10,807	7,911	6,513	7,058	7,920
Delaware	5,123	5,481	5,034	4,977	3,096	4,208
District of Columbia	--	--	--	--	--	--
Florida	128,071	125,089	109,736	110,008	93,552	90,505
Georgia	41,187	39,860	34,495	30,628	24,262	27,563
Hawaii	--	--	--	--	--	--
Idaho	2,466	2,481	1,336	1,018	1,049	1,324
Illinois	12,376	15,559	12,488	8,386	6,401	10,068
Indiana	13,840	15,322	11,947	7,722	9,715	14,366
Iowa	3,935	3,785	1,969	1,450	1,609	1,256
Kansas	2,852	4,037	2,604	1,598	1,520	1,451
Kentucky	8,501	10,869	7,897	6,451	6,616	7,421
Louisiana	29,240	30,216	26,532	23,915	20,939	21,216
Maine	W	W	W	W	W	W
Maryland	4,900	5,951	4,624	3,267	3,780	4,637
Massachusetts	17,504	17,273	15,120	13,217	13,630	13,567
Michigan	21,353	23,797	17,749	15,867	13,869	19,052
Minnesota	7,274	8,038	3,957	3,115	2,990	3,813
Mississippi	36,360	39,236	30,537	30,306	25,274	29,604
Missouri	4,582	5,821	4,260	2,943	2,696	3,538
Montana	727	634	315	319	333	343
Nebraska	769	1,513	450	342	210	358
Nevada	22,428	22,970	19,267	14,582	11,945	12,837
New Hampshire	3,468	2,923	2,505	1,776	3,572	1,464
New Jersey	26,502	31,311	26,603	22,211	20,150	26,548
New Mexico	7,717	9,181	8,075	6,116	4,531	5,096
New York	44,450	47,146	37,934	28,322	25,663	33,506
North Carolina	27,503	28,212	24,265	21,983	18,297	24,879
North Dakota	1,111	1,126	761	628	628	675
Ohio	20,914	21,142	17,010	14,752	11,832	15,964
Oklahoma	29,133	34,774	24,995	18,664	16,848	12,971
Oregon	11,698	9,828	3,116	2,020	2,330	3,256
Pennsylvania	46,837	49,613	38,393	27,745	25,534	32,555
Rhode Island	4,249	4,480	3,817	3,286	3,093	2,987
South Carolina	13,429	14,172	11,987	12,820	11,209	9,993
South Dakota	865	1,071	W	352	W	452
Tennessee	7,456	8,614	7,142	3,618	6,468	8,876
Texas	166,502	176,441	142,427	111,299	97,943	93,567
Utah	6,207	5,218	3,670	2,516	2,195	2,210
Vermont	1	*	1	2	*	2
Virginia	35,320	37,392	33,514	23,226	19,393	26,434
Washington	10,262	8,374	3,605	3,452	4,295	4,373
West Virginia	1,470	1,544	1,047	496	W	W
Wisconsin	12,373	13,683	8,059	5,542	5,611	7,853
Wyoming	219	292	85	W	55	W
<b>Total</b>	<b>1,033,682</b>	<b>1,074,275</b>	<b>854,087</b>	<b>706,151</b>	<b>623,889</b>	<b>678,970</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		
	February	January		December	November	October
Alabama	23,174	25,708	415,162	30,859	30,500	31,962
Alaska	1,470	2,331	22,236	1,753	1,763	1,732
Arizona	5,396	9,522	255,593	9,577	12,145	20,806
Arkansas	7,424	4,866	136,368	7,172	10,868	9,109
California	37,508	51,157	671,152	52,512	51,615	62,951
Colorado	5,680	8,285	95,419	7,245	5,669	5,848
Connecticut	8,140	10,154	122,240	9,470	9,797	9,514
Delaware	2,807	2,635	53,926	2,262	3,572	5,346
District of Columbia	--	--	--	--	--	--
Florida	72,938	77,530	1,180,649	76,560	76,861	96,936
Georgia	27,669	28,434	379,202	25,859	23,972	26,061
Hawaii	--	--	--	--	--	--
Idaho	1,077	1,738	23,971	1,766	834	1,366
Illinois	7,394	7,345	146,175	8,363	8,308	11,710
Indiana	11,093	12,669	158,414	13,562	13,587	11,299
Iowa	952	1,583	20,233	713	575	942
Kansas	621	874	20,324	931	1,262	1,356
Kentucky	4,293	5,106	66,907	5,420	4,211	4,730
Louisiana	15,835	14,982	330,642	18,790	19,777	22,889
Maine	W	1,402	22,408	815	1,122	1,770
Maryland	2,708	1,960	49,059	822	570	3,308
Massachusetts	11,524	12,498	160,044	10,717	8,180	9,495
Michigan	12,299	16,439	243,612	15,356	16,947	16,857
Minnesota	2,922	4,893	65,606	2,906	3,268	3,282
Mississippi	18,842	25,581	367,456	27,475	21,372	27,273
Missouri	2,583	2,978	51,135	3,601	2,189	3,153
Montana	288	404	7,306	W	W	W
Nebraska	143	273	6,358	196	674	469
Nevada	13,168	16,181	209,610	15,951	15,667	15,257
New Hampshire	893	1,104	33,841	2,200	3,078	2,362
New Jersey	17,255	20,637	327,628	21,684	19,960	27,481
New Mexico	5,004	6,231	82,929	6,174	5,270	7,211
New York	26,606	30,926	477,867	33,326	28,853	32,503
North Carolina	21,931	22,013	293,669	21,708	23,813	18,622
North Dakota	624	862	9,347	W	607	691
Ohio	13,968	15,089	211,732	15,615	15,568	14,289
Oklahoma	10,845	14,093	274,388	16,442	20,889	18,559
Oregon	5,735	10,649	107,069	12,339	7,788	7,767
Pennsylvania	30,334	33,465	500,656	38,553	38,967	39,512
Rhode Island	2,638	2,887	46,974	2,844	2,903	2,968
South Carolina	8,927	7,863	133,130	7,370	13,620	10,992
South Dakota	270	490	7,574	272	512	473
Tennessee	5,105	5,144	87,680	7,931	3,688	6,423
Texas	75,007	85,730	1,538,663	90,872	96,452	111,658
Utah	2,677	4,889	58,008	4,215	3,313	4,019
Vermont	1	2	14	2	2	2
Virginia	22,401	22,783	292,826	20,812	20,785	18,007
Washington	4,100	7,748	85,403	7,455	4,674	5,017
West Virginia	W	W	10,311	164	386	1,662
Wisconsin	5,223	6,873	120,764	6,991	6,628	5,218
Wyoming	27	97	1,844	W	W	W
<b>Total</b>	<b>558,740</b>	<b>647,362</b>	<b>9,983,526</b>	<b>668,757</b>	<b>663,538</b>	<b>741,360</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					
	September	August	July	June	May	April
Alabama	40,587	43,505	44,566	39,282	33,335	26,636
Alaska	1,952	2,200	2,044	1,756	1,755	1,645
Arizona	28,593	36,059	36,512	31,063	20,260	18,623
Arkansas	9,207	16,405	16,341	17,250	12,184	10,509
California	64,501	79,709	73,374	63,255	40,618	37,567
Colorado	6,793	10,126	11,675	10,289	7,741	8,614
Connecticut	9,817	12,137	11,476	9,275	10,263	11,348
Delaware	5,237	7,089	7,425	6,001	3,953	4,602
District of Columbia	--	--	--	--	--	--
Florida	108,803	120,587	122,353	114,263	106,961	100,187
Georgia	31,785	41,363	43,098	39,628	33,268	30,528
Hawaii	--	--	--	--	--	--
Idaho	2,671	3,698	2,549	2,006	1,407	628
Illinois	12,872	20,063	23,039	13,253	9,676	9,615
Indiana	11,936	16,077	15,793	13,958	13,693	9,428
Iowa	1,249	3,628	3,162	2,131	2,456	801
Kansas	2,735	2,847	3,163	3,117	1,685	1,104
Kentucky	5,454	7,597	8,026	6,732	4,992	4,493
Louisiana	28,503	31,968	38,721	33,611	30,795	25,600
Maine	1,834	3,562	3,252	1,770	1,920	1,409
Maryland	5,414	10,307	9,671	3,730	3,879	3,569
Massachusetts	14,211	21,417	21,351	17,569	15,482	11,546
Michigan	17,992	31,130	26,034	21,500	22,478	23,125
Minnesota	3,332	10,302	8,556	6,111	6,207	5,853
Mississippi	36,326	37,854	39,659	36,139	31,831	22,528
Missouri	4,845	6,815	7,273	6,992	4,019	4,780
Montana	618	1,051	885	670	W	W
Nebraska	291	1,119	1,100	1,389	318	463
Nevada	17,112	21,887	22,567	21,319	17,106	14,939
New Hampshire	3,909	4,582	4,147	2,854	3,009	3,609
New Jersey	30,078	41,217	39,592	30,423	24,014	23,970
New Mexico	7,250	8,608	9,227	7,704	6,387	6,358
New York	45,082	64,329	59,588	44,619	39,743	33,273
North Carolina	24,204	30,092	29,132	23,889	21,936	23,986
North Dakota	828	1,315	1,155	898	688	W
Ohio	18,191	23,086	22,704	17,398	11,353	16,437
Oklahoma	25,575	29,527	33,632	31,430	22,843	20,250
Oregon	13,139	14,263	10,464	7,950	3,346	3,089
Pennsylvania	47,277	57,598	57,177	47,121	35,691	33,444
Rhode Island	4,439	5,686	5,963	4,761	5,004	2,937
South Carolina	13,848	14,771	15,788	12,229	10,143	6,915
South Dakota	556	1,139	1,031	745	605	687
Tennessee	8,879	10,415	10,109	9,257	6,235	5,147
Texas	144,557	174,935	171,002	151,685	132,544	117,577
Utah	4,423	6,023	6,322	6,069	5,071	5,259
Vermont	3	3	1	--	2	*
Virginia	27,967	38,099	36,703	29,100	21,704	13,489
Washington	10,717	12,266	9,735	6,145	5,028	2,787
West Virginia	1,150	686	680	1,309	1,666	1,100
Wisconsin	8,027	15,103	14,065	11,524	9,688	9,693
Wyoming	W	W	W	W	W	W
<b>Total</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			2017		
	January	Total	December	November	October	September
Alabama	67,482	NA	58,801	52,506	51,074	53,255
Alaska	7,831	67,013	7,767	7,029	5,741	4,404
Arizona	NA	NA	25,757	19,162	27,036	29,436
Arkansas	NA	NA	33,125	20,932	22,938	21,259
California	194,700	NA	208,394	166,992	167,445	165,104
Colorado	NA	354,980	48,013	32,428	25,842	19,674
Connecticut	31,232	234,480	28,658	22,801	15,281	13,515
Delaware	NA	NA	NA	7,317	7,397	NA
District of Columbia	NA	NA	4,709	NA	1,377	1,101
Florida	110,781	1,376,186	104,036	98,470	121,318	125,132
Georgia	89,981	691,692	77,804	57,750	52,390	50,697
Hawaii	NA	NA	NA	256	247	254
Idaho	11,650	104,155	13,658	9,873	8,900	6,474
Illinois	164,552	NA	142,795	98,648	61,044	NA
Indiana	NA	719,620	94,851	67,454	51,264	47,600
Iowa	47,276	NA	44,082	34,623	NA	23,401
Kansas	34,385	NA	30,758	NA	16,669	15,300
Kentucky	46,718	274,828	35,797	26,737	18,548	17,237
Louisiana	NA	NA	132,436	116,609	123,408	118,395
Maine	5,130	48,252	5,562	4,382	3,386	3,447
Maryland	35,472	NA	32,905	22,577	10,704	12,067
Massachusetts	63,199	NA	60,933	38,471	NA	23,232
Michigan	134,287	860,810	127,093	87,509	56,068	43,515
Minnesota	66,606	NA	NA	45,601	30,578	23,965
Mississippi	59,770	513,388	50,095	39,687	38,795	41,878
Missouri	48,902	NA	39,948	25,513	14,061	13,189
Montana	NA	NA	NA	NA	NA	4,157
Nebraska	21,378	NA	19,265	NA	11,331	8,943
Nevada	26,944	289,361	26,935	21,348	22,950	22,613
New Hampshire	5,183	51,780	5,541	4,498	3,002	4,357
New Jersey	NA	NA	95,344	NA	NA	NA
New Mexico	17,320	NA	17,284	NA	10,765	9,886
New York	176,622	1,239,361	163,835	111,484	69,647	68,686
North Carolina	NA	505,519	60,266	46,578	37,911	36,667
North Dakota	8,384	67,311	8,310	6,504	5,191	3,524
Ohio	147,882	NA	131,620	NA	57,780	49,268
Oklahoma	59,830	525,176	55,398	39,305	38,845	40,950
Oregon	24,300	226,928	30,159	21,696	20,853	16,184
Pennsylvania	141,484	NA	NA	NA	79,738	71,133
Rhode Island	9,996	NA	9,665	7,320	5,147	5,263
South Carolina	32,527	275,781	27,144	24,240	23,033	21,597
South Dakota	9,396	74,373	8,645	6,834	5,428	4,849
Tennessee	NA	NA	NA	28,885	22,084	20,751
Texas	NA	NA	310,877	261,617	NA	273,691
Utah	24,525	186,841	27,707	16,519	12,154	9,842
Vermont	1,958	NA	1,769	1,272	685	594
Virginia	NA	NA	61,296	48,813	35,956	43,344
Washington	33,614	307,783	39,378	30,338	26,254	18,786
West Virginia	13,560	NA	11,620	8,889	7,348	6,383
Wisconsin	70,219	478,202	67,249	48,051	33,742	26,901
Wyoming	8,547	80,513	9,111	7,193	6,277	4,855
<b>Total</b>	<b>3,089,641</b>	<b>24,794,653</b>	<b>2,844,276</b>	<b>2,147,659</b>	<b>1,840,980</b>	<b>1,739,719</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					
	August	July	June	May	April	March
Alabama	59,588	60,692	NA	NA	NA	53,579
Alaska	4,536	4,323	3,322	3,604	4,531	7,097
Arizona	NA	38,509	32,326	24,939	20,872	15,945
Arkansas	24,685	26,863	23,835	NA	22,867	25,871
California	182,684	166,629	146,626	142,464	135,893	156,177
Colorado	21,167	22,124	18,920	23,273	27,332	30,713
Connecticut	16,095	16,130	13,361	13,320	16,382	25,681
Delaware	8,342	8,401	8,222	8,357	NA	9,921
District of Columbia	1,101	1,117	1,167	1,489	1,648	3,403
Florida	141,603	138,440	122,986	124,410	108,602	107,249
Georgia	60,321	58,473	53,695	50,758	44,810	59,842
Hawaii	257	247	NA	248	255	272
Idaho	5,984	6,171	5,103	5,819	7,201	8,894
Illinois	46,381	48,687	46,295	56,878	62,887	111,360
Indiana	46,244	47,254	43,115	44,553	50,884	74,620
Iowa	24,655	24,299	22,695	24,427	27,031	35,338
Kansas	16,869	18,503	15,723	14,520	17,124	21,873
Kentucky	18,836	20,659	18,275	18,194	19,361	27,404
Louisiana	125,616	123,888	NA	116,661	112,747	117,022
Maine	3,547	3,772	3,299	3,166	3,646	4,958
Maryland	10,573	NA	10,672	11,614	12,413	26,968
Massachusetts	26,844	26,444	25,344	28,570	34,456	56,394
Michigan	44,349	44,954	40,900	51,325	57,647	102,892
Minnesota	25,587	25,452	22,729	25,936	32,607	47,889
Mississippi	48,646	50,829	42,197	43,015	37,657	44,748
Missouri	13,119	13,901	12,768	13,842	15,342	26,352
Montana	3,585	3,365	2,936	3,424	4,946	6,724
Nebraska	9,208	10,877	8,795	10,338	11,685	15,371
Nevada	26,937	27,563	24,317	20,316	18,896	22,004
New Hampshire	4,502	3,885	3,554	3,263	5,436	5,036
New Jersey	NA	NA	NA	44,256	NA	NA
New Mexico	10,988	12,406	11,317	10,145	NA	NA
New York	75,966	78,303	72,434	73,343	85,269	152,379
North Carolina	39,579	39,734	35,767	34,760	31,824	48,706
North Dakota	4,208	4,170	4,104	4,401	5,253	6,950
Ohio	50,540	49,669	46,086	53,029	56,542	100,433
Oklahoma	48,295	53,150	43,956	39,237	39,193	39,076
Oregon	17,674	15,795	10,117	10,662	13,409	16,983
Pennsylvania	72,293	74,587	64,824	61,737	66,017	108,882
Rhode Island	5,613	5,828	5,266	5,334	5,899	8,867
South Carolina	22,719	23,180	20,984	22,483	21,177	24,007
South Dakota	4,990	5,135	4,599	4,956	5,557	7,161
Tennessee	21,515	22,215	21,169	19,030	22,130	33,315
Texas	323,614	336,998	299,488	264,397	250,744	264,541
Utah	11,752	11,179	10,677	10,532	13,669	14,549
Vermont	566	538	NA	686	864	1,582
Virginia	47,280	NA	45,788	37,078	34,815	53,637
Washington	20,255	18,317	14,223	17,025	22,302	28,102
West Virginia	5,602	NA	5,109	5,117	5,710	9,848
Wisconsin	28,841	29,022	23,782	26,926	31,943	52,556
Wyoming	4,791	4,720	4,834	6,025	6,602	8,063
<b>Total</b>	<b>1,915,253</b>	<b>1,942,329</b>	<b>1,730,796</b>	<b>1,714,119</b>	<b>1,746,515</b>	<b>2,328,896</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		
	February	January	Total	December	November	October
Alabama	44,151	51,622	659,864	56,079	50,106	49,477
Alaska	6,307	8,353	60,255	7,466	6,557	5,385
Arizona	NA	22,493	343,766	20,335	18,967	26,109
Arkansas	22,739	25,194	297,218	27,869	24,318	19,922
California	171,674	NA	2,113,847	216,061	175,988	167,994
Colorado	34,554	50,942	352,463	47,904	29,596	20,877
Connecticut	24,124	29,131	242,831	27,063	21,291	16,412
Delaware	8,345	9,333	107,383	8,615	8,198	9,230
District of Columbia	NA	4,180	27,891	4,219	2,591	1,311
Florida	88,402	95,538	1,362,542	93,316	91,852	110,955
Georgia	57,662	67,488	700,464	66,586	51,471	46,219
Hawaii	258	291	3,038	263	253	250
Idaho	10,597	15,481	101,365	14,737	8,337	7,219
Illinois	101,855	141,480	1,000,348	147,523	80,751	59,444
Indiana	66,391	85,390	728,625	90,269	59,594	44,567
Iowa	33,705	42,274	320,541	41,930	27,815	22,290
Kansas	21,148	31,107	233,168	31,567	18,581	13,995
Kentucky	23,580	30,200	261,248	31,751	21,106	16,727
Louisiana	103,719	117,830	1,439,894	120,887	112,241	111,923
Maine	4,184	4,903	52,516	4,106	3,524	4,123
Maryland	22,813	27,647	211,245	26,172	15,446	11,439
Massachusetts	47,181	54,092	423,559	50,684	33,424	25,667
Michigan	89,204	115,355	868,762	112,282	72,216	53,267
Minnesota	47,263	62,015	438,623	55,334	34,918	26,250
Mississippi	33,133	42,708	521,948	44,364	34,269	37,327
Missouri	NA	39,721	259,072	39,807	19,650	13,076
Montana	7,975	10,716	68,928	10,259	6,877	5,219
Nebraska	16,427	22,143	157,458	20,406	13,699	10,834
Nevada	24,437	31,046	299,327	28,659	22,816	20,953
New Hampshire	3,984	4,720	57,735	5,711	5,401	3,615
New Jersey	71,119	NA	757,432	87,154	54,909	49,529
New Mexico	12,992	17,839	156,749	17,587	13,080	11,297
New York	132,312	155,701	1,270,049	147,632	100,958	77,791
North Carolina	42,738	50,989	519,746	51,738	44,370	32,338
North Dakota	6,355	8,342	62,448	7,651	5,517	5,295
Ohio	91,264	115,855	895,943	113,525	77,125	54,685
Oklahoma	37,125	50,646	556,210	52,904	43,200	37,161
Oregon	21,399	31,998	231,110	31,907	19,075	17,431
Pennsylvania	100,094	118,738	1,071,713	121,309	92,222	74,212
Rhode Island	NA	8,643	83,489	8,493	6,360	5,149
South Carolina	21,375	23,842	272,617	23,557	26,519	20,473
South Dakota	7,037	9,182	74,246	8,862	6,331	5,148
Tennessee	29,499	36,659	319,637	40,553	23,357	20,398
Texas	NA	NA	3,532,732	294,558	258,950	266,363
Utah	18,282	29,979	199,918	27,878	17,127	12,130
Vermont	1,400	1,614	11,958	1,619	1,102	831
Virginia	47,270	54,592	526,260	50,171	42,276	31,820
Washington	30,727	42,077	293,106	40,128	24,061	21,575
West Virginia	8,678	10,655	88,541	10,795	8,018	6,918
Wisconsin	46,915	62,274	478,287	61,843	36,772	26,975
Wyoming	8,213	9,829	80,100	9,960	7,406	6,322
<b>Total</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>	<b>1,745,916</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					
	September	August	July	June	May	April
Alabama	56,717	60,097	61,223	56,711	52,466	45,820
Alaska	4,086	3,634	3,397	3,318	3,707	4,272
Arizona	33,318	40,454	40,918	36,039	25,987	25,288
Arkansas	19,220	26,592	25,943	27,055	22,974	22,241
California	171,608	190,464	176,767	164,703	146,670	146,030
Colorado	17,022	19,637	21,025	20,069	23,564	30,297
Connecticut	14,910	17,231	16,640	14,296	17,097	21,086
Delaware	8,656	10,382	10,798	9,073	7,722	8,758
District of Columbia	951	987	1,004	987	1,436	2,062
Florida	122,262	134,016	136,065	127,256	121,405	115,695
Georgia	49,316	59,116	60,764	57,406	53,131	52,724
Hawaii	264	264	255	240	243	255
Idaho	6,844	7,173	6,278	5,404	5,639	5,449
Illinois	47,516	53,068	56,449	46,522	54,991	76,181
Indiana	44,086	48,757	48,937	47,406	52,920	55,396
Iowa	18,821	21,521	20,446	19,032	21,153	22,988
Kansas	13,778	17,564	16,813	15,453	14,954	15,157
Kentucky	15,610	18,069	17,993	16,802	17,186	18,381
Louisiana	116,158	122,571	130,304	121,899	122,334	115,393
Maine	3,772	5,474	5,155	3,556	4,097	4,055
Maryland	11,084	15,857	15,277	9,845	12,600	15,787
Massachusetts	23,643	30,399	30,268	27,109	30,052	34,643
Michigan	42,195	52,719	47,255	43,617	55,140	79,401
Minnesota	19,762	27,732	25,744	23,855	27,544	36,363
Mississippi	46,568	48,956	50,799	47,881	43,617	34,142
Missouri	12,986	14,852	15,409	15,335	14,512	17,901
Montana	4,018	3,839	3,677	3,459	4,293	4,668
Nebraska	9,596	11,886	11,227	10,473	9,747	11,195
Nevada	21,948	26,364	27,104	26,140	22,855	21,465
New Hampshire	4,922	5,502	5,074	3,840	4,370	5,664
New Jersey	47,327	59,140	59,150	50,093	48,141	58,178
New Mexico	10,601	11,661	12,343	11,140	10,494	11,343
New York	74,952	95,705	90,784	77,589	83,696	100,124
North Carolina	35,796	42,312	40,518	35,373	34,923	39,678
North Dakota	4,250	3,827	3,814	4,143	4,280	4,387
Ohio	47,207	51,768	50,330	46,157	49,937	72,611
Oklahoma	42,369	48,021	52,062	50,070	44,029	41,202
Oregon	19,812	19,938	16,584	14,427	10,822	11,770
Pennsylvania	71,216	82,461	80,626	71,845	67,633	78,716
Rhode Island	5,783	6,759	7,019	5,980	6,997	6,148
South Carolina	22,499	23,460	24,144	20,996	19,709	17,574
South Dakota	4,679	5,307	4,926	4,662	5,090	6,126
Tennessee	21,314	22,945	22,377	21,877	19,801	20,680
Texas	297,157	333,865	329,608	298,713	279,368	269,369
Utah	10,587	11,190	12,134	11,679	13,191	16,101
Vermont	596	575	584	574	663	1,073
Virginia	39,908	49,682	48,244	41,500	35,003	31,258
Washington	22,240	22,238	19,933	16,680	16,849	16,393
West Virginia	5,233	4,606	4,819	5,088	5,714	6,843
Wisconsin	23,408	30,261	28,528	26,992	29,433	39,987
Wyoming	5,063	5,380	5,217	4,942	5,943	6,294
<b>Total</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	2017				
	January	Total	December	November	October	September
Alabama	NA	3.88	3.87	3.79	3.77	3.63
Alaska	8.24	NA	6.94	7.02	6.59	6.29
Arizona	4.49	4.36	4.36	5.06	3.87	3.93
Arkansas	3.84	4.70	3.79	4.56	5.40	6.30
California	2.91	3.45	3.66	3.24	2.95	3.09
Colorado	3.38	3.90	3.44	3.88	3.96	5.10
Connecticut	4.82	NA	NA	3.71	4.22	5.66
Delaware	NA	NA	4.46	5.19	8.31	10.40
District of Columbia	--	--	--	--	--	--
Florida	5.71	NA	NA	6.32	5.88	5.40
Georgia	3.65	4.16	3.91	3.80	4.11	4.23
Hawaii	18.74	16.62	17.11	18.23	16.69	17.18
Idaho	2.67	2.90	2.72	2.90	2.24	2.27
Illinois	3.91	NA	3.59	3.55	3.44	NA
Indiana	3.97	3.85	3.55	3.71	3.68	4.34
Iowa	4.06	NA	4.96	3.90	3.71	3.69
Kansas	3.71	4.49	3.83	4.26	5.08	6.26
Kentucky	3.77	NA	3.73	3.84	3.66	3.70
Louisiana	4.20	4.00	4.06	3.92	3.91	3.84
Maine	10.35	6.42	7.55	4.99	6.17	5.66
Maryland	4.57	4.75	4.20	4.27	5.37	6.72
Massachusetts	9.32	5.28	5.24	4.60	6.28	8.86
Michigan	3.38	3.57	3.56	3.47	3.35	3.10
Minnesota	3.74	4.28	5.71	3.93	3.46	4.14
Mississippi	4.10	NA	NA	4.55	NA	4.49
Missouri	3.72	4.63	3.73	4.11	5.05	7.09
Montana	3.39	3.22	3.20	3.22	2.47	2.35
Nebraska	4.01	NA	4.74	NA	4.50	4.63
Nevada	3.76	4.13	3.47	4.18	3.73	4.01
New Hampshire	9.96	NA	6.87	4.95	5.29	8.23
New Jersey	4.37	NA	4.08	3.93	3.60	NA
New Mexico	3.17	NA	3.15	3.41	3.22	3.41
New York	5.75	4.30	3.93	4.17	5.11	6.96
North Carolina	3.46	NA	NA	3.54	4.41	5.09
North Dakota	4.24	4.28	4.36	4.17	4.23	4.38
Ohio	3.65	NA	NA	NA	NA	2.11
Oklahoma	3.62	NA	3.96	4.51	4.84	5.79
Oregon	3.61	3.90	3.44	3.76	3.75	4.69
Pennsylvania	3.85	NA	<sup>R</sup> 3.64	NA	4.67	<sup>R</sup> 5.86
Rhode Island	2.25	2.22	2.22	2.20	2.21	2.29
South Carolina	3.96	NA	3.81	3.88	3.93	4.14
South Dakota	3.91	4.39	5.60	4.11	3.80	4.42
Tennessee	4.08	4.09	3.88	3.98	4.00	4.20
Texas	5.42	4.81	4.94	5.32	5.13	4.47
Utah	5.77	5.30	5.76	5.78	4.95	3.85
Vermont	5.29	NA	5.07	4.70	4.56	4.48
Virginia	4.45	NA	4.02	3.96	5.09	NA
Washington	3.19	NA	3.21	3.32	NA	3.93
West Virginia	3.35	NA	3.52	3.61	3.88	5.10
Wisconsin	4.04	4.22	3.90	4.25	3.87	4.59
Wyoming	3.86	3.92	3.83	4.01	3.82	3.45
<b>Total</b>	<b>4.27</b>	<b>4.16</b>	<b><sup>R</sup>4.00</b>	<b>3.98</b>	<b>4.06</b>	<b><sup>R</sup>4.57</b>

See footnotes at end of table.



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

State	2017					
	August	July	June	May	April	March
Alabama	3.90	4.02	3.96	3.92	3.65	3.59
Alaska	5.83	5.76	5.69	6.02	6.96	7.42
Arizona	4.01	4.14	4.14	3.75	3.98	4.95
Arkansas	6.67	6.72	6.85	5.73	5.83	4.35
California	3.22	3.47	3.55	3.38	3.31	3.15
Colorado	4.65	5.09	4.68	3.98	3.66	3.65
Connecticut	5.79	6.08	6.58	5.85	4.97	3.53
Delaware	NA	10.42	9.94	7.65	NA	4.26
District of Columbia	--	--	--	--	--	--
Florida	5.31	NA	NA	NA	NA	NA
Georgia	4.07	4.21	4.28	4.22	4.29	3.72
Hawaii	17.63	16.17	15.06	16.46	16.05	17.38
Idaho	2.41	2.47	3.29	3.04	2.71	3.31
Illinois	NA	3.76	NA	3.48	4.15	4.06
Indiana	4.74	4.97	4.87	4.28	4.25	3.72
Iowa	3.87	4.08	4.34	NA	NA	4.08
Kansas	5.72	5.37	6.24	5.86	4.81	3.99
Kentucky	3.41	3.59	3.73	NA	4.46	NA
Louisiana	3.85	3.99	4.03	4.08	3.94	3.96
Maine	6.09	7.67	5.46	5.00	5.30	5.54
Maryland	6.85	6.87	7.29	6.23	6.06	4.05
Massachusetts	9.24	9.61	9.04	6.38	5.46	4.06
Michigan	3.09	3.10	3.35	3.43	3.78	3.48
Minnesota	4.33	4.46	4.49	3.80	3.51	3.77
Mississippi	4.62	4.68	4.78	4.59	3.95	3.88
Missouri	7.68	7.26	7.15	5.86	5.15	4.07
Montana	3.41	2.90	3.30	3.61	3.47	3.54
Nebraska	4.45	4.17	5.07	4.20	4.02	3.87
Nevada	4.39	4.50	4.52	4.13	4.40	4.05
New Hampshire	7.41	8.42	NA	5.50	4.64	4.37
New Jersey	4.37	4.61	4.73	4.56	4.26	4.32
New Mexico	3.60	3.59	3.61	3.43	3.31	NA
New York	7.11	7.39	7.18	6.00	4.23	3.27
North Carolina	5.41	5.83	5.87	5.28	4.91	3.36
North Dakota	4.03	3.92	4.35	3.99	4.11	3.88
Ohio	2.12	NA	NA	NA	NA	NA
Oklahoma	5.95	NA	5.90	5.44	4.64	4.22
Oregon	5.97	5.71	5.29	4.56	3.90	3.59
Pennsylvania	R6.36	R6.79	R6.67	R5.36	R4.85	3.86
Rhode Island	2.34	2.37	2.41	2.36	2.30	2.20
South Carolina	3.99	4.11	4.23	4.27	4.45	3.96
South Dakota	4.36	4.40	4.60	3.77	3.90	3.79
Tennessee	4.17	4.47	4.28	4.18	4.36	3.91
Texas	4.09	4.19	4.28	4.59	4.43	4.85
Utah	3.70	3.69	4.90	4.79	4.78	5.94
Vermont	4.44	4.31	4.74	4.69	5.26	4.98
Virginia	NA	NA	NA	NA	5.59	3.98
Washington	4.78	4.21	4.43	4.26	3.64	3.04
West Virginia	NA	NA	6.40	4.87	4.26	3.32
Wisconsin	4.55	4.82	5.26	4.24	4.08	3.82
Wyoming	3.82	3.98	3.79	3.24	3.71	3.89
<b>Total</b>	<b>4.59</b>	<b>R4.68</b>	<b>4.81</b>	<b>4.41</b>	<b>R4.18</b>	<b>3.84</b>

See footnotes at end of table.

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

State	2017		Total	2016		
	February	January		December	November	October
Alabama	4.23	4.13	3.44	3.78	3.85	4.20
Alaska	7.54	NA	6.79	7.29	6.82	7.10
Arizona	4.71	4.37	4.07	4.74	4.91	4.09
Arkansas	4.37	4.17	4.29	3.83	4.37	6.02
California	3.59	3.87	2.96	3.64	3.30	3.51
Colorado	3.91	3.92	3.56	3.61	3.88	4.73
Connecticut	4.45	4.45	3.57	3.90	3.31	3.13
Delaware	4.62	4.34	4.91	4.28	4.17	6.15
District of Columbia	--	--	--	--	--	--
Florida	NA	NA	4.04	5.47	4.92	4.45
Georgia	4.43	4.69	3.67	4.08	4.04	4.26
Hawaii	16.20	15.34	13.81	14.75	12.93	15.07
Idaho	3.14	3.17	3.21	3.16	3.29	3.18
Illinois	3.56	3.95	3.38	3.63	3.38	4.25
Indiana	3.89	3.81	3.58	3.84	3.63	4.26
Iowa	4.42	4.51	3.77	4.04	4.14	4.18
Kansas	4.18	4.24	4.02	3.75	4.43	6.27
Kentucky	4.19	NA	3.35	3.77	3.53	3.63
Louisiana	4.37	3.91	3.65	4.18	4.23	3.98
Maine	7.58	7.36	6.41	6.33	6.25	4.23
Maryland	4.69	4.43	4.18	3.96	4.20	5.42
Massachusetts	4.53	4.66	4.49	4.61	4.16	5.36
Michigan	3.71	3.84	3.57	3.54	3.65	3.53
Minnesota	4.23	4.30	3.71	4.05	4.17	3.71
Mississippi	4.20	5.02	3.78	4.77	4.14	4.17
Missouri	4.45	4.21	4.22	3.96	4.31	6.21
Montana	3.56	3.14	3.05	2.87	3.17	3.33
Nebraska	4.71	4.30	3.75	3.67	3.99	4.19
Nevada	4.34	4.46	3.73	4.18	3.70	4.10
New Hampshire	NA	NA	5.30	5.32	4.60	3.80
New Jersey	4.48	4.52	3.93	4.14	3.94	3.75
New Mexico	3.82	3.93	3.05	3.77	3.22	3.62
New York	3.64	3.85	3.57	3.85	3.42	3.61
North Carolina	3.72	3.87	3.44	3.72	3.33	4.43
North Dakota	4.53	4.58	3.88	4.10	4.64	4.51
Ohio	4.41	4.02	3.27	3.62	3.43	3.09
Oklahoma	4.26	4.46	3.98	4.04	4.00	5.03
Oregon	3.59	3.69	4.15	3.77	4.03	4.40
Pennsylvania	4.20	4.07	3.72	3.72	4.08	3.98
Rhode Island	2.18	2.12	2.12	1.99	1.96	1.96
South Carolina	4.40	NA	3.64	4.44	3.66	4.01
South Dakota	4.38	4.35	3.65	3.92	4.25	4.20
Tennessee	4.16	4.24	3.42	3.73	3.90	4.26
Texas	5.14	5.28	4.09	5.36	5.10	4.93
Utah	5.97	5.37	5.15	5.35	5.00	4.82
Vermont	5.69	NA	5.13	5.11	4.74	4.08
Virginia	4.07	3.90	3.99	3.68	3.87	5.37
Washington	3.47	NA	3.66	3.58	4.14	4.20
West Virginia	3.68	3.63	3.46	3.30	3.45	3.73
Wisconsin	4.39	4.46	3.81	3.88	4.23	4.37
Wyoming	4.23	4.27	3.53	4.00	3.48	3.76
<b>Total</b>	<b>4.13</b>	<b>4.21</b>	<b>3.71</b>	<b>3.96</b>	<b>3.90</b>	<b>4.19</b>

See footnotes at end of table.



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

State	2016					
	September	August	July	June	May	April
Alabama	3.89	3.89	3.89	3.34	2.99	2.90
Alaska	6.58	6.19	6.12	6.03	6.21	6.37
Arizona	3.92	3.86	4.05	3.31	2.77	3.03
Arkansas	5.69	6.22	6.68	6.16	4.79	4.60
California	3.56	3.29	3.34	2.52	2.49	2.25
Colorado	5.27	4.81	5.16	4.22	3.25	2.78
Connecticut	4.29	4.20	4.69	4.58	3.85	3.20
Delaware	8.20	8.50	8.77	8.53	6.24	5.03
District of Columbia	--	--	--	--	--	--
Florida	4.13	3.92	3.93	3.46	3.50	3.37
Georgia	4.30	4.01	4.32	3.44	3.37	3.19
Hawaii	14.06	13.33	13.54	17.26	16.20	14.19
Idaho	3.29	2.69	2.62	2.52	3.22	2.79
Illinois	5.19	4.66	4.25	3.72	3.10	3.39
Indiana	4.80	4.92	5.25	4.38	3.27	2.93
Iowa	4.47	3.91	3.94	3.67	3.01	3.46
Kansas	6.65	5.63	5.33	5.57	4.41	4.27
Kentucky	3.45	3.26	3.47	2.85	2.85	2.97
Louisiana	4.07	3.85	4.00	3.16	2.99	3.03
Maine	5.17	4.64	5.30	5.40	3.83	3.57
Maryland	7.54	7.65	8.57	7.14	4.57	3.89
Massachusetts	8.26	6.95	7.49	5.90	4.72	3.94
Michigan	3.35	3.08	3.19	2.76	2.87	2.91
Minnesota	4.38	4.28	3.88	3.49	2.98	2.94
Mississippi	3.90	3.79	4.04	3.46	3.19	3.36
Missouri	6.64	6.96	7.08	5.58	5.16	4.50
Montana	3.45	3.34	3.65	2.50	2.28	2.42
Nebraska	3.65	3.90	4.44	3.17	3.00	3.14
Nevada	4.45	4.76	4.50	3.74	3.19	3.16
New Hampshire	5.34	4.73	6.79	5.79	3.87	2.72
New Jersey	4.02	3.75	3.92	3.91	3.80	3.81
New Mexico	3.46	3.39	3.50	2.89	2.43	2.23
New York	6.30	6.85	6.58	5.65	4.26	3.03
North Carolina	4.76	4.83	5.28	4.38	3.71	3.21
North Dakota	4.52	4.18	4.36	2.83	2.71	2.97
Ohio	2.43	2.56	2.69	2.46	2.61	2.41
Oklahoma	5.29	5.39	5.51	4.77	3.83	3.73
Oregon	5.96	5.33	5.85	5.18	4.65	4.15
Pennsylvania	5.92	5.57	6.55	6.36	4.35	3.28
Rhode Island	2.01	2.03	2.06	2.05	2.09	2.14
South Carolina	3.94	3.75	3.87	3.43	3.08	3.37
South Dakota	4.73	4.82	4.47	3.06	2.28	2.47
Tennessee	3.99	3.64	3.88	3.19	3.01	2.97
Texas	4.16	4.00	3.94	3.41	3.20	3.20
Utah	3.86	3.24	3.37	3.58	4.60	4.63
Vermont	4.21	4.22	4.01	4.24	4.96	4.85
Virginia	6.50	7.04	6.25	6.42	4.38	3.92
Washington	4.85	4.35	4.56	3.57	3.85	3.43
West Virginia	5.14	5.08	5.59	4.62	3.41	3.18
Wisconsin	4.93	4.18	4.36	3.75	3.38	3.11
Wyoming	3.46	3.38	3.19	2.56	3.07	3.10
<b>Total</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	2017				
	January	Total	December	November	October	September
Alabama	13.59	16.34	14.94	17.22	22.49	22.98
Alaska	10.59	10.52	10.67	10.66	11.18	12.14
Arizona	13.70	NA	14.37	17.47	20.02	22.16
Arkansas	10.09	12.97	11.81	12.81	19.53	20.37
California	12.12	12.51	11.78	11.42	12.11	12.29
Colorado	6.60	8.07	6.83	7.38	8.43	12.15
Connecticut	12.03	13.96	11.95	13.43	19.85	21.76
Delaware	NA	12.80	12.40	14.29	21.98	21.95
District of Columbia	10.31	NA	11.37	13.75	19.76	20.23
Florida	17.98	NA	19.60	22.32	24.82	NA
Georgia	10.58	18.18	12.06	15.46	23.69	33.30
Hawaii	39.90	38.88	39.57	39.91	39.77	39.98
Idaho	7.32	7.61	6.79	7.12	7.39	9.42
Illinois	6.66	NA	6.75	7.40	10.40	16.65
Indiana	6.87	NA	6.55	7.77	10.46	17.62
Iowa	7.38	NA	8.56	9.73	13.43	NA
Kansas	8.67	NA	9.17	NA	14.44	21.40
Kentucky	8.59	11.74	9.13	10.76	14.95	22.77
Louisiana	8.71	13.13	10.83	13.34	16.63	16.60
Maine	14.54	14.61	13.59	14.14	18.92	23.14
Maryland	10.33	NA	11.43	12.42	NA	20.03
Massachusetts	NA	13.29	13.75	12.72	12.24	15.42
Michigan	7.40	8.32	7.25	7.61	9.44	12.11
Minnesota	7.87	NA	NA	7.81	9.01	12.06
Mississippi	7.64	11.93	9.80	11.50	16.59	18.15
Missouri	8.12	11.77	9.86	12.26	22.34	25.33
Montana	7.01	7.62	7.42	7.47	8.21	10.53
Nebraska	6.98	9.07	7.96	8.75	14.24	17.29
Nevada	8.12	8.82	8.26	9.97	11.06	12.81
New Hampshire	13.28	14.55	14.36	16.92	22.75	24.80
New Jersey	8.89	9.28	9.56	10.03	11.28	11.59
New Mexico	7.10	NA	7.86	NA	12.56	14.53
New York	9.50	NA	10.43	12.98	NA	17.98
North Carolina	9.78	NA	10.79	12.04	19.83	23.08
North Dakota	5.85	NA	6.06	6.48	9.11	15.63
Ohio	6.46	NA	7.01	8.83	15.26	23.50
Oklahoma	6.72	11.39	8.64	11.13	24.50	26.66
Oregon	10.85	10.75	9.92	10.59	11.34	14.91
Pennsylvania	9.97	NA	10.40	11.36	NA	17.52
Rhode Island	13.13	14.02	14.01	15.34	19.30	19.93
South Carolina	NA	NA	11.52	12.88	19.43	25.13
South Dakota	6.91	NA	7.60	7.72	11.09	NA
Tennessee	7.98	10.46	8.78	10.46	16.22	17.42
Texas	8.92	13.80	12.09	14.58	20.96	22.10
Utah	9.40	9.06	9.76	9.15	8.22	10.38
Vermont	12.37	14.00	13.11	15.30	19.67	20.96
Virginia	10.09	NA	10.88	12.28	NA	21.38
Washington	10.18	10.61	9.65	10.22	10.91	13.81
West Virginia	8.84	NA	8.98	9.39	11.23	14.13
Wisconsin	7.37	8.40	7.51	7.87	9.12	13.59
Wyoming	7.66	9.00	7.96	8.44	9.54	15.04
<b>Total</b>	<b>8.93</b>	<b>10.98</b>	<b>9.33</b>	<b>10.26</b>	<b>13.50</b>	<b>17.01</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					
	August	July	June	May	April	March
Alabama	23.31	22.48	21.45	20.87	16.43	14.73
Alaska	13.40	13.73	12.79	11.00	10.23	9.58
Arizona	23.32	22.64	20.40	18.12	16.75	15.26
Arkansas	21.40	20.16	18.26	15.66	14.03	12.53
California	12.54	12.56	13.16	12.98	12.52	12.42
Colorado	13.77	14.69	12.66	9.16	8.03	7.91
Connecticut	22.67	22.06	18.84	16.63	13.82	12.31
Delaware	24.57	22.77	18.79	15.97	12.03	11.30
District of Columbia	NA	19.00	17.71	16.99	12.85	12.22
Florida	26.45	25.25	23.91	22.09	19.68	19.34
Georgia	34.71	34.82	31.71	29.43	19.56	14.71
Hawaii	40.28	39.99	37.63	39.21	38.06	38.69
Idaho	10.82	11.21	10.41	8.28	7.98	8.04
Illinois	NA	16.75	15.18	11.01	10.13	7.87
Indiana	NA	20.05	19.13	11.68	11.66	7.73
Iowa	17.45	17.73	15.03	10.88	8.99	7.75
Kansas	22.95	22.06	19.78	NA	13.06	10.18
Kentucky	25.06	24.75	24.23	18.26	13.84	10.50
Louisiana	17.42	16.56	15.53	14.99	13.65	12.80
Maine	24.48	23.46	17.86	14.97	14.11	13.03
Maryland	22.15	20.74	NA	16.95	14.99	11.14
Massachusetts	15.92	15.43	13.45	13.60	13.19	12.88
Michigan	13.70	14.37	13.16	9.83	9.16	7.72
Minnesota	13.53	13.49	12.60	9.79	8.52	7.70
Mississippi	18.22	17.56	16.25	15.14	12.93	10.73
Missouri	27.72	26.48	21.51	15.45	12.34	10.48
Montana	11.64	10.99	9.59	8.08	7.51	7.38
Nebraska	17.64	16.90	14.24	10.43	8.76	7.92
Nevada	14.10	13.23	11.62	10.63	8.99	7.76
New Hampshire	25.25	22.46	16.35	14.31	12.22	12.75
New Jersey	12.11	11.89	10.31	9.68	8.33	8.67
New Mexico	15.40	14.74	12.43	10.19	8.81	7.87
New York	18.91	19.01	16.16	14.38	11.04	10.76
North Carolina	23.35	22.69	22.62	19.47	NA	NA
North Dakota	20.51	21.86	19.62	NA	7.60	6.47
Ohio	27.41	26.48	23.74	NA	10.31	7.77
Oklahoma	29.02	25.88	21.81	15.88	13.15	10.27
Oregon	16.94	15.65	14.51	12.41	11.15	10.83
Pennsylvania	20.08	19.38	16.82	13.15	11.71	10.35
Rhode Island	20.19	19.15	16.38	15.11	13.18	12.79
South Carolina	NA	24.78	24.43	22.07	17.21	11.84
South Dakota	14.72	14.62	12.10	9.12	7.78	7.51
Tennessee	19.61	18.95	17.12	14.34	11.11	9.75
Texas	23.75	21.25	18.83	17.36	15.84	12.44
Utah	11.22	10.88	9.56	8.36	9.15	9.18
Vermont	22.20	21.43	17.88	14.90	12.83	12.42
Virginia	22.75	21.46	19.19	NA	14.00	NA
Washington	16.04	15.37	14.64	12.02	10.66	10.23
West Virginia	17.47	NA	17.59	11.54	9.53	8.45
Wisconsin	14.32	15.04	12.99	8.99	9.03	7.49
Wyoming	17.84	17.24	12.39	10.06	9.31	8.50
<b>Total</b>	<b>18.32</b>	<b>17.96</b>	<b>16.13</b>	<b>13.32</b>	<b>11.38</b>	<b>9.90</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		Total	2016		
	February	January		December	November	October
Alabama	14.90	13.70	14.05	14.28	19.09	21.22
Alaska	9.62	9.45	9.81	9.51	9.73	10.07
Arizona	NA	12.65	15.28	12.70	15.69	18.72
Arkansas	11.82	10.41	11.17	10.66	17.46	18.13
California	12.67	13.11	11.84	13.08	12.33	13.31
Colorado	7.44	6.85	7.35	6.46	7.38	9.71
Connecticut	13.19	12.40	12.91	11.73	13.29	16.63
Delaware	11.01	10.61	11.88	11.38	13.77	19.82
District of Columbia	11.43	11.44	10.90	10.62	13.28	12.53
Florida	18.30	17.63	20.27	19.10	23.55	26.53
Georgia	14.58	12.72	14.56	11.96	16.02	24.58
Hawaii	37.91	36.66	36.48	37.57	34.17	37.56
Idaho	7.50	7.20	8.14	7.22	7.37	8.24
Illinois	8.32	7.51	7.88	6.74	8.71	12.16
Indiana	8.63	7.67	7.92	6.41	8.48	11.92
Iowa	8.02	7.65	8.13	6.93	10.22	14.77
Kansas	10.00	8.64	9.85	8.62	9.29	18.34
Kentucky	10.99	9.33	10.14	8.65	11.45	19.46
Louisiana	12.38	10.96	11.32	11.00	14.93	16.22
Maine	13.70	13.71	13.82	12.87	13.30	15.75
Maryland	12.57	11.64	11.53	10.84	13.22	17.39
Massachusetts	13.09	12.89	12.46	13.15	13.27	13.70
Michigan	7.93	7.54	8.21	7.35	7.98	9.39
Minnesota	8.14	8.13	8.01	7.31	7.98	9.51
Mississippi	10.77	10.10	10.06	8.87	13.44	15.88
Missouri	9.32	8.27	10.94	9.09	15.25	21.71
Montana	7.29	6.73	7.27	6.74	7.37	7.93
Nebraska	7.98	7.42	8.01	7.05	10.07	13.31
Nevada	7.10	6.96	10.23	7.57	9.70	11.49
New Hampshire	13.60	13.26	14.25	14.19	14.97	19.46
New Jersey	8.51	8.72	8.30	8.75	9.37	10.25
New Mexico	7.97	7.67	8.05	7.64	10.06	12.56
New York	10.98	9.81	10.84	9.61	10.95	14.87
North Carolina	13.85	11.78	11.31	10.61	11.89	18.54
North Dakota	6.80	5.94	7.21	5.68	6.96	8.49
Ohio	8.19	7.16	9.03	7.80	10.00	18.54
Oklahoma	8.77	7.12	10.57	8.37	18.86	24.82
Oregon	10.04	9.30	11.67	9.34	11.37	11.81
Pennsylvania	10.35	NA	10.18	9.21	10.62	13.58
Rhode Island	12.72	12.58	13.80	13.03	14.27	17.92
South Carolina	15.11	13.46	12.62	11.62	13.55	22.15
South Dakota	7.86	6.93	7.60	6.73	9.58	10.46
Tennessee	9.41	8.67	9.21	8.78	12.18	17.97
Texas	10.77	9.71	11.73	10.84	18.66	20.34
Utah	8.79	8.40	9.12	8.99	9.91	9.23
Vermont	12.37	12.69	14.15	13.13	14.31	18.75
Virginia	12.17	10.49	10.88	10.16	12.69	16.02
Washington	10.03	9.75	10.78	10.06	11.05	11.53
West Virginia	8.37	8.17	9.26	8.22	8.92	11.65
Wisconsin	7.56	8.05	8.07	7.41	8.25	9.19
Wyoming	8.08	7.50	8.51	7.32	8.77	10.25
<b>Total</b>	<b>10.07</b>	<b>9.38</b>	<b>10.05</b>	<b>9.06</b>	<b>10.77</b>	<b>13.74</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					
	September	August	July	June	May	April
Alabama	21.14	21.27	20.57	19.31	17.16	14.45
Alaska	11.34	12.66	12.98	12.14	10.41	9.63
Arizona	20.81	22.42	21.61	19.59	17.54	16.63
Arkansas	18.76	18.56	16.74	15.32	13.66	10.84
California	13.26	12.82	11.90	11.31	11.45	10.44
Colorado	12.07	14.22	13.96	12.46	7.07	6.84
Connecticut	22.19	24.07	21.76	19.19	15.04	12.88
Delaware	22.52	24.25	21.38	17.57	13.46	11.49
District of Columbia	18.63	19.25	17.60	14.70	12.03	10.10
Florida	25.75	26.80	26.17	23.35	21.72	20.29
Georgia	26.17	25.18	25.15	23.87	19.44	15.76
Hawaii	35.43	34.94	34.84	42.65	39.99	36.94
Idaho	9.49	10.16	9.88	9.80	9.21	8.94
Illinois	16.72	17.33	16.49	12.62	10.48	7.53
Indiana	17.65	18.47	18.89	16.47	10.09	7.76
Iowa	16.31	17.64	16.05	13.28	8.74	7.53
Kansas	19.96	21.74	20.13	18.92	13.42	11.08
Kentucky	22.92	24.45	23.07	20.15	14.84	10.32
Louisiana	15.84	16.62	15.93	13.87	13.13	11.10
Maine	21.33	22.79	21.88	17.99	13.46	12.56
Maryland	20.27	20.97	19.83	15.79	12.44	11.30
Massachusetts	14.97	15.22	14.42	12.73	12.35	11.91
Michigan	12.85	14.65	13.51	13.02	9.65	7.84
Minnesota	13.20	13.37	13.50	11.71	9.87	7.62
Mississippi	15.19	15.99	15.67	13.92	12.95	10.76
Missouri	24.01	26.41	24.86	19.73	15.60	11.32
Montana	10.06	11.11	10.33	8.36	7.19	6.77
Nebraska	15.73	16.13	15.03	12.37	9.25	7.63
Nevada	13.81	14.42	14.63	12.99	11.92	11.25
New Hampshire	24.66	24.61	23.02	18.19	13.97	12.22
New Jersey	11.74	12.12	11.33	10.64	9.37	8.86
New Mexico	14.49	15.18	13.85	11.38	8.73	7.48
New York	17.33	17.85	16.64	14.69	10.99	9.88
North Carolina	21.70	21.26	22.51	19.62	16.42	13.11
North Dakota	16.28	20.06	20.50	19.20	9.52	6.90
Ohio	25.79	26.95	25.16	19.01	11.57	7.94
Oklahoma	26.09	28.99	24.71	19.80	16.73	10.96
Oregon	14.32	16.61	16.56	15.90	15.29	13.81
Pennsylvania	18.88	19.48	18.34	15.62	11.38	9.91
Rhode Island	20.26	20.37	19.20	16.89	14.49	13.42
South Carolina	25.25	25.55	26.86	24.09	18.62	15.18
South Dakota	13.36	14.15	13.48	11.34	7.74	6.87
Tennessee	17.59	18.95	17.12	14.81	12.59	9.53
Texas	21.23	22.99	19.53	16.71	16.50	11.75
Utah	10.12	10.76	10.67	9.81	8.89	8.96
Vermont	22.57	23.02	21.11	18.40	14.26	13.30
Virginia	20.91	20.99	19.60	15.27	12.49	10.47
Washington	13.92	16.14	15.24	13.58	11.62	10.55
West Virginia	16.69	18.41	17.03	15.58	11.72	9.36
Wisconsin	14.28	15.04	14.30	10.56	8.63	7.57
Wyoming	15.68	16.54	16.97	11.27	8.49	8.24
<b>Total</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>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	2017				
	January	Total	December	November	October	September
Alabama	11.60	12.20	12.00	12.36	12.79	13.19
Alaska	9.99	9.91	10.00	10.12	10.46	11.13
Arizona	9.13	8.89	9.10	9.36	9.32	9.27
Arkansas	7.80	NA	8.37	8.59	NA	8.72
California	8.95	8.77	8.65	8.01	7.79	7.96
Colorado	6.32	7.16	6.61	6.86	7.24	9.21
Connecticut	7.92	9.30	7.97	8.72	10.64	10.73
Delaware	NA	10.59	10.57	11.11	12.79	12.08
District of Columbia	9.87	11.42	10.83	11.55	11.70	11.91
Florida	11.65	NA	11.05	11.26	11.24	NA
Georgia	7.65	8.76	8.11	8.51	9.01	9.31
Hawaii	31.31	29.62	30.53	30.74	29.58	30.32
Idaho	6.52	6.59	6.19	6.27	6.25	7.13
Illinois	6.18	7.80	6.18	6.61	7.92	12.11
Indiana	6.35	7.56	5.95	6.81	7.31	10.00
Iowa	6.23	6.93	7.01	6.56	6.58	9.13
Kansas	8.12	NA	8.45	8.21	10.22	14.29
Kentucky	7.48	9.20	7.87	8.84	10.31	12.01
Louisiana	8.48	NA	9.01	8.85	8.72	8.78
Maine	12.40	11.32	11.35	10.74	11.57	12.32
Maryland	8.59	NA	9.47	10.15	12.15	12.69
Massachusetts	NA	NA	10.58	9.53	NA	9.86
Michigan	6.46	6.97	6.36	6.57	7.53	8.42
Minnesota	6.84	6.82	6.55	6.26	6.50	7.47
Mississippi	NA	9.04	8.79	8.94	8.87	9.47
Missouri	7.34	8.48	8.20	9.23	10.60	10.70
Montana	6.96	7.42	7.40	7.25	7.73	8.82
Nebraska	6.14	6.46	6.27	6.17	6.56	6.86
Nevada	6.21	5.71	6.06	6.40	6.48	6.50
New Hampshire	11.15	11.71	11.83	12.78	15.10	16.06
New Jersey	8.92	9.05	9.17	9.37	9.03	8.54
New Mexico	5.66	NA	6.11	NA	NA	7.31
New York	7.21	6.79	6.86	6.58	6.44	5.96
North Carolina	7.45	NA	NA	8.73	9.02	9.25
North Dakota	5.98	5.99	5.88	5.66	5.91	6.46
Ohio	5.46	6.19	5.37	5.55	6.63	7.53
Oklahoma	5.80	8.55	6.97	8.74	14.90	15.36
Oregon	9.03	8.88	8.41	8.70	8.98	9.99
Pennsylvania	8.77	NA	8.77	8.82	10.38	11.14
Rhode Island	10.88	11.30	11.35	12.45	15.04	15.45
South Carolina	NA	9.35	9.49	9.35	8.60	9.10
South Dakota	5.91	6.31	6.80	6.02	6.01	7.57
Tennessee	8.06	8.83	8.33	8.90	9.57	9.48
Texas	6.83	NA	7.85	7.80	8.30	8.44
Utah	8.02	7.40	8.26	7.34	6.44	7.07
Vermont	7.80	NA	7.19	6.17	6.07	6.04
Virginia	7.65	NA	7.96	8.32	NA	NA
Washington	8.29	NA	7.87	8.08	8.28	9.07
West Virginia	7.45	7.60	7.60	7.80	8.51	8.87
Wisconsin	6.48	6.60	6.54	6.49	5.83	6.92
Wyoming	6.62	6.92	6.61	6.74	6.95	7.41
<b>Total</b>	<b>7.43</b>	<b>7.89</b>	<b>7.44</b>	<b>7.53</b>	<b>7.96</b>	<b>8.49</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					
	August	July	June	May	April	March
Alabama	13.27	13.31	12.98	12.91	12.35	11.66
Alaska	11.63	11.76	11.15	9.86	9.51	9.23
Arizona	9.42	9.14	8.95	8.88	9.02	8.87
Arkansas	9.28	9.31	9.20	8.83	8.60	8.29
California	8.32	8.41	8.76	8.70	8.83	9.49
Colorado	9.15	9.52	9.00	7.27	6.97	7.09
Connecticut	11.17	10.99	10.70	10.75	9.25	8.33
Delaware	13.67	13.06	11.92	11.18	10.15	9.97
District of Columbia	12.71	12.49	12.88	12.15	11.60	11.58
Florida	NA	11.06	11.15	11.09	10.95	11.02
Georgia	9.68	9.34	9.77	9.37	9.08	8.52
Hawaii	30.86	29.57	28.42	29.16	29.15	29.62
Idaho	7.15	7.60	7.44	7.11	7.15	6.93
Illinois	13.63	12.46	12.55	11.03	9.16	7.26
Indiana	11.66	11.40	11.52	9.09	9.65	6.90
Iowa	9.36	9.64	9.05	7.83	6.89	6.17
Kansas	13.51	13.75	13.21	NA	10.24	9.37
Kentucky	13.01	12.18	12.73	11.45	10.45	8.74
Louisiana	8.76	8.82	8.86	8.84	8.70	NA
Maine	12.77	13.05	11.41	10.93	11.22	10.82
Maryland	12.46	NA	12.60	12.02	11.77	9.29
Massachusetts	10.08	10.10	9.11	9.94	NA	9.77
Michigan	9.59	9.12	8.94	7.87	7.26	6.76
Minnesota	8.12	7.75	8.14	7.07	6.82	6.39
Mississippi	8.90	8.91	8.67	9.06	9.15	8.89
Missouri	11.24	11.07	9.84	9.04	8.40	8.16
Montana	9.68	9.65	8.85	7.82	7.26	7.21
Nebraska	7.02	7.17	6.63	6.68	6.02	6.38
Nevada	6.75	6.40	5.90	5.85	5.38	5.14
New Hampshire	16.06	15.28	12.45	11.49	10.15	10.63
New Jersey	9.37	9.74	8.89	8.74	7.83	8.95
New Mexico	7.33	7.46	6.98	6.47	6.09	5.98
New York	5.89	6.56	6.80	6.82	6.85	7.06
North Carolina	9.07	8.82	NA	10.59	10.08	NA
North Dakota	7.13	7.63	7.55	6.51	5.66	5.66
Ohio	7.91	7.84	7.84	6.86	6.26	5.94
Oklahoma	16.26	15.05	13.48	11.55	9.69	8.01
Oregon	10.60	10.20	10.35	9.51	9.18	9.03
Pennsylvania	11.58	11.99	11.65	10.10	NA	8.93
Rhode Island	15.73	15.38	13.10	12.02	10.63	10.42
South Carolina	8.90	9.09	8.99	8.69	9.71	8.63
South Dakota	7.74	7.69	7.47	6.31	5.88	5.82
Tennessee	9.75	9.64	9.50	9.22	8.85	8.59
Texas	8.46	8.27	7.78	NA	7.70	7.27
Utah	7.40	7.28	6.83	6.51	7.47	7.71
Vermont	6.05	6.29	NA	6.94	7.57	7.35
Virginia	9.31	9.07	9.51	NA	9.60	NA
Washington	9.78	9.40	NA	NA	8.20	8.15
West Virginia	9.31	9.48	9.42	8.22	7.66	7.04
Wisconsin	6.85	7.02	6.68	6.06	6.92	6.37
Wyoming	7.45	7.65	7.41	7.12	7.09	6.96
<b>Total</b>	<b>8.76</b>	<b>8.82</b>	<b>8.76</b>	<b>8.32</b>	<b>8.08</b>	<b>7.68</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		Total	2016		
	February	January		December	November	October
Alabama	11.52	11.31	10.65	11.12	12.08	11.82
Alaska	9.29	9.27	8.34	8.75	8.68	8.85
Arizona	8.26	8.22	8.83	8.03	8.22	8.52
Arkansas	8.16	7.63	7.14	7.59	8.63	7.01
California	9.35	9.62	8.42	9.96	9.28	9.08
Colorado	6.91	6.56	6.42	6.17	6.61	8.00
Connecticut	9.52	8.62	8.79	7.92	8.60	9.99
Delaware	9.82	9.64	9.58	9.88	10.36	11.42
District of Columbia	11.16	9.92	9.88	9.85	11.59	9.37
Florida	11.13	10.67	10.42	10.88	10.61	10.64
Georgia	8.83	8.37	7.92	7.57	8.78	9.29
Hawaii	29.34	28.33	27.02	27.61	25.04	27.71
Idaho	6.60	6.33	7.12	6.50	6.49	6.99
Illinois	7.61	6.92	7.14	6.45	8.08	9.04
Indiana	7.76	7.10	6.55	5.75	7.39	7.35
Iowa	6.45	6.46	5.99	5.96	6.48	6.86
Kansas	9.22	8.42	8.41	7.64	8.53	11.32
Kentucky	8.94	7.83	7.89	7.49	8.94	10.81
Louisiana	NA	NA	7.92	8.81	8.21	8.47
Maine	11.34	11.54	10.63	10.63	10.23	10.47
Maryland	10.06	9.62	8.94	8.83	10.06	10.89
Massachusetts	9.93	9.79	9.48	10.07	9.98	9.54
Michigan	6.82	6.61	6.90	6.56	6.94	7.58
Minnesota	6.97	7.11	6.44	6.31	6.28	6.74
Mississippi	9.32	9.25	7.80	8.10	8.56	8.10
Missouri	7.64	7.28	7.89	7.70	9.20	9.59
Montana	7.24	6.70	7.13	6.73	7.29	7.66
Nebraska	6.69	6.37	5.45	5.79	5.87	5.77
Nevada	5.02	5.09	6.84	5.37	5.78	6.24
New Hampshire	11.68	11.26	11.36	11.91	11.98	13.58
New Jersey	8.97	9.58	7.93	8.60	9.24	8.78
New Mexico	6.42	6.19	5.68	6.05	6.59	6.85
New York	7.43	6.74	6.18	6.49	5.96	5.58
North Carolina	9.94	8.77	7.71	8.36	8.05	7.95
North Dakota	6.30	5.73	5.45	5.43	5.60	5.82
Ohio	6.17	6.10	5.74	5.68	6.02	7.16
Oklahoma	6.97	6.01	7.72	6.86	12.31	14.46
Oregon	8.57	8.22	9.30	7.88	9.24	9.24
Pennsylvania	8.62	8.36	8.15	7.94	8.31	9.16
Rhode Island	10.45	10.02	11.16	10.27	11.48	14.53
South Carolina	10.20	10.36	8.42	9.48	9.01	9.02
South Dakota	6.48	5.82	5.64	5.72	5.97	6.30
Tennessee	8.64	8.42	7.80	8.23	9.06	9.78
Texas	7.59	7.48	6.89	7.60	8.25	8.52
Utah	7.48	7.29	7.43	7.65	7.50	6.71
Vermont	7.61	8.07	6.63	7.48	7.07	6.19
Virginia	8.75	7.72	7.23	7.55	7.54	7.68
Washington	8.16	7.96	8.49	8.14	8.60	8.78
West Virginia	6.97	6.92	7.75	7.10	7.50	8.72
Wisconsin	6.47	7.05	6.29	6.50	6.47	5.86
Wyoming	6.97	6.56	6.54	6.52	6.76	6.85
<b>Total</b>	<b>7.90</b>	<b>7.59</b>	<b>7.28</b>	<b>7.27</b>	<b>7.67</b>	<b>7.96</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					
	September	August	July	June	May	April
Alabama	11.69	11.75	11.61	11.19	10.50	10.51
Alaska	8.71	8.78	9.07	8.41	8.00	7.90
Arizona	8.64	8.65	8.74	8.73	8.81	9.10
Arkansas	6.89	7.16	6.90	7.22	7.11	6.85
California	9.16	8.74	8.07	7.43	7.33	7.18
Colorado	8.42	9.26	8.36	7.63	6.14	5.96
Connecticut	10.64	11.73	11.14	11.81	9.86	9.36
Delaware	11.86	12.11	11.50	10.86	10.03	9.33
District of Columbia	11.21	11.82	11.64	10.85	9.83	9.83
Florida	10.56	10.33	10.31	10.25	10.04	10.12
Georgia	9.54	9.58	9.35	8.72	8.38	8.15
Hawaii	27.32	25.57	25.24	32.82	30.04	28.09
Idaho	7.69	7.64	7.72	7.81	7.71	7.82
Illinois	12.31	12.77	12.26	10.93	9.48	6.99
Indiana	9.62	10.08	11.13	9.56	7.21	6.42
Iowa	7.53	8.14	7.82	7.12	5.81	5.55
Kansas	13.59	13.79	12.93	12.48	10.16	8.38
Kentucky	11.32	12.03	11.05	10.77	9.19	8.00
Louisiana	8.28	8.27	8.22	7.19	7.26	7.12
Maine	11.16	10.72	10.37	9.95	9.45	10.15
Maryland	11.78	11.49	11.34	9.65	8.11	8.20
Massachusetts	9.73	9.80	9.35	8.49	9.22	9.45
Michigan	9.02	9.32	8.66	8.51	7.29	6.63
Minnesota	7.89	7.80	7.91	7.09	6.41	6.17
Mississippi	7.55	7.49	7.61	7.03	7.51	8.04
Missouri	9.87	10.46	10.38	9.39	8.55	7.92
Montana	9.00	9.13	8.64	7.79	6.97	6.68
Nebraska	5.93	6.00	5.31	5.06	4.71	4.98
Nevada	6.87	6.89	7.22	7.08	7.04	7.25
New Hampshire	16.21	16.40	16.48	13.28	11.22	9.96
New Jersey	8.74	8.71	8.68	7.72	7.14	6.79
New Mexico	7.35	7.15	6.84	6.05	5.47	5.25
New York	5.32	5.29	5.57	5.76	6.02	6.20
North Carolina	8.19	8.30	8.77	8.52	8.02	7.78
North Dakota	6.74	7.29	7.01	6.68	5.36	4.62
Ohio	7.24	8.06	7.50	6.90	6.05	5.26
Oklahoma	14.76	15.04	13.81	12.31	10.89	8.09
Oregon	9.93	10.74	11.13	11.30	10.79	10.02
Pennsylvania	11.02	10.84	11.07	10.64	8.92	8.12
Rhode Island	16.35	15.78	15.43	13.58	11.51	10.79
South Carolina	8.56	8.48	8.71	7.79	7.43	8.36
South Dakota	7.16	7.90	6.98	6.46	5.07	4.94
Tennessee	9.10	9.49	8.70	8.30	7.63	7.61
Texas	8.15	8.26	7.52	6.73	6.84	6.14
Utah	6.84	7.10	7.02	6.84	6.77	7.37
Vermont	6.33	5.59	5.87	5.51	6.71	6.60
Virginia	8.67	8.40	8.20	7.66	7.17	6.59
Washington	9.45	9.87	9.37	9.64	8.09	7.99
West Virginia	9.99	10.27	10.14	9.78	9.00	7.89
Wisconsin	6.55	6.55	6.98	5.25	5.29	5.97
Wyoming	7.13	6.82	6.91	7.02	6.47	6.47
<b>Total</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	2017				
	January	Total	December	November	October	September
Alabama	4.79	4.31	4.38	4.18	3.99	4.01
Alaska	5.68	4.67	4.78	4.63	4.06	3.67
Arizona	6.70	6.53	6.63	6.98	6.78	6.83
Arkansas	6.79	6.67	6.48	6.62	6.63	6.66
California	7.48	7.00	7.09	6.33	6.05	6.19
Colorado	5.06	NA	5.04	5.18	NA	5.78
Connecticut	6.43	NA	6.16	6.12	6.01	6.42
Delaware	10.15	NA	NA	NA	10.37	NA
District of Columbia	--	--	--	--	--	--
Florida	7.73	6.30	5.94	6.34	6.40	6.24
Georgia	4.74	4.74	4.66	4.43	4.51	4.78
Hawaii	NA	17.77	20.14	18.87	19.10	17.89
Idaho	4.52	NA	4.42	NA	4.39	4.46
Illinois	5.24	NA	4.92	5.05	5.16	NA
Indiana	6.37	6.11	4.94	5.44	5.54	7.15
Iowa	5.44	NA	5.53	5.09	5.04	5.31
Kansas	6.07	4.23	5.53	4.97	4.56	3.99
Kentucky	4.52	4.51	4.59	4.31	4.31	4.19
Louisiana	3.85	3.74	3.44	3.50	3.63	3.56
Maine	9.71	8.15	9.59	9.36	5.26	5.30
Maryland	NA	NA	9.79	9.33	NA	NA
Massachusetts	9.52	NA	8.91	7.73	6.32	7.16
Michigan	5.77	6.01	5.68	6.01	6.07	6.99
Minnesota	4.70	4.47	4.64	4.04	4.39	4.23
Mississippi	5.80	NA	5.15	4.93	4.99	4.98
Missouri	6.96	6.76	6.96	7.09	6.55	6.14
Montana	NA	NA	NA	6.22	6.17	6.06
Nebraska	4.94	NA	4.52	4.34	4.28	4.44
Nevada	5.48	5.06	5.21	5.48	5.64	5.69
New Hampshire	NA	9.09	10.03	8.92	7.66	7.99
New Jersey	8.39	NA	8.22	8.21	NA	8.49
New Mexico	4.89	4.52	4.80	4.73	4.60	4.35
New York	7.26	NA	7.04	6.56	6.29	6.03
North Carolina	NA	6.39	6.44	6.12	6.03	6.23
North Dakota	3.81	3.16	3.97	3.12	2.89	3.79
Ohio	NA	NA	NA	5.17	5.83	6.47
Oklahoma	6.18	6.27	5.24	5.58	10.55	7.94
Oregon	5.35	5.43	5.29	5.40	5.29	5.31
Pennsylvania	8.14	NA	8.87	8.91	9.12	9.09
Rhode Island	8.62	8.48	8.62	8.45	8.41	8.59
South Carolina	6.12	4.91	5.23	4.59	4.64	4.76
South Dakota	4.99	5.19	4.99	4.72	5.49	6.19
Tennessee	5.75	5.20	5.39	5.11	4.84	4.86
Texas	3.33	3.28	3.21	2.98	3.11	3.21
Utah	6.25	5.50	6.02	5.45	5.14	5.13
Vermont	5.08	4.92	4.71	4.40	4.42	4.48
Virginia	5.09	5.08	5.20	4.68	4.73	4.97
Washington	7.49	7.39	7.46	7.34	7.12	7.23
West Virginia	3.15	2.50	3.21	3.18	2.36	2.19
Wisconsin	5.67	5.35	5.61	5.54	4.46	4.66
Wyoming	4.03	NA	4.21	4.26	4.37	4.38
<b>Total</b>	<b>4.53</b>	<b>4.14</b>	<b>4.25</b>	<b>3.89</b>	<b>3.82</b>	<b>3.89</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					
	August	July	June	May	April	March
Alabama	4.02	4.16	4.30	4.27	4.34	4.15
Alaska	3.19	3.07	5.01	5.00	5.06	5.17
Arizona	7.32	6.55	6.92	6.37	6.23	6.01
Arkansas	7.02	6.74	6.69	6.52	6.80	6.63
California	6.39	6.54	6.96	7.00	7.14	7.65
Colorado	5.91	6.35	6.08	5.66	5.19	5.61
Connecticut	6.07	5.94	5.84	6.45	NA	NA
Delaware	13.20	13.48	10.21	9.80	9.06	9.56
District of Columbia	--	--	--	--	--	--
Florida	6.50	6.12	6.21	6.22	6.11	6.65
Georgia	4.55	4.49	4.71	4.90	4.79	4.34
Hawaii	17.09	16.82	17.29	17.75	17.06	17.41
Idaho	4.51	4.52	4.63	4.48	4.61	4.56
Illinois	6.51	7.25	6.78	6.86	6.39	5.94
Indiana	8.14	7.25	8.09	6.44	7.17	5.80
Iowa	5.16	5.40	5.48	5.29	5.04	NA
Kansas	3.87	3.91	4.08	4.77	4.68	4.96
Kentucky	4.22	4.31	4.52	4.42	4.47	4.39
Louisiana	3.64	3.71	3.84	3.41	3.23	3.69
Maine	5.42	6.34	6.51	6.61	9.28	9.27
Maryland	NA	NA	NA	10.65	11.62	8.59
Massachusetts	7.22	7.42	7.06	NA	8.23	8.12
Michigan	6.79	6.52	6.45	6.41	6.15	5.93
Minnesota	4.18	4.13	4.43	4.22	4.38	4.41
Mississippi	4.87	5.11	4.92	4.99	4.69	NA
Missouri	6.36	6.32	6.13	6.15	6.56	7.08
Montana	5.42	6.33	6.17	6.21	5.71	6.47
Nebraska	4.51	4.46	4.50	4.40	4.39	NA
Nevada	6.02	5.74	5.48	5.15	4.61	4.47
New Hampshire	7.58	7.81	7.14	7.98	8.88	9.13
New Jersey	8.36	7.97	8.53	7.17	6.94	NA
New Mexico	4.42	4.35	4.36	4.29	4.12	4.48
New York	6.67	NA	NA	7.04	7.67	7.32
North Carolina	6.32	6.19	6.11	6.21	6.50	6.49
North Dakota	2.83	2.85	2.95	2.82	2.89	2.67
Ohio	6.32	6.99	7.41	NA	NA	NA
Oklahoma	7.80	8.53	9.30	6.78	7.79	6.47
Oregon	5.62	5.53	5.51	5.40	5.41	5.56
Pennsylvania	9.32	NA	8.94	8.18	8.64	7.98
Rhode Island	8.74	8.74	8.43	8.55	8.67	8.39
South Carolina	4.61	5.04	4.88	4.75	4.88	4.51
South Dakota	5.78	5.76	5.33	5.27	4.64	5.07
Tennessee	4.81	4.94	5.10	5.02	5.09	5.20
Texas	3.19	3.39	3.51	3.37	3.33	2.81
Utah	5.11	5.20	5.04	5.14	5.70	5.87
Vermont	4.47	4.51	4.68	4.78	5.04	5.34
Virginia	5.27	4.99	5.46	5.09	4.92	4.72
Washington	7.42	7.74	7.39	7.52	7.52	7.36
West Virginia	2.22	2.26	2.22	2.28	2.26	2.46
Wisconsin	4.55	4.24	4.75	4.69	5.83	5.34
Wyoming	4.35	4.39	4.24	3.97	4.25	4.38
<b>Total</b>	<b>3.83</b>	<b>3.96</b>	<b>4.10</b>	<b>4.07</b>	<b>4.17</b>	<b>3.98</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		
	February	January		December	November	October
Alabama	4.71	5.12	3.79	4.91	4.33	4.24
Alaska	5.04	5.11	5.06	5.21	4.83	4.53
Arizona	6.10	6.24	5.79	5.94	5.82	5.61
Arkansas	6.69	6.72	5.78	6.59	6.30	5.80
California	7.91	8.32	6.79	8.44	7.48	7.27
Colorado	5.48	5.37	4.89	4.75	5.02	6.08
Connecticut	8.11	7.26	6.07	6.07	5.62	5.97
Delaware	9.10	8.93	9.02	9.05	10.08	10.32
District of Columbia	--	--	--	--	--	--
Florida	6.60	6.27	5.77	5.59	5.77	6.14
Georgia	5.17	5.54	4.10	4.90	4.38	4.44
Hawaii	17.83	16.90	15.70	16.57	16.80	15.85
Idaho	4.63	4.56	5.19	4.51	4.61	4.63
Illinois	6.23	6.20	5.03	5.22	5.83	5.72
Indiana	6.20	5.94	4.99	5.28	5.36	5.06
Iowa	5.12	5.20	4.70	5.15	4.68	4.94
Kansas	6.60	6.41	3.69	5.27	4.54	3.63
Kentucky	4.95	5.20	3.77	4.49	4.29	4.17
Louisiana	4.68	4.64	3.11	3.80	4.12	3.54
Maine	9.35	9.33	7.68	9.37	8.83	5.99
Maryland	9.90	9.57	8.80	8.98	9.48	10.70
Massachusetts	8.39	8.18	7.40	8.41	8.15	7.11
Michigan	6.04	5.81	5.75	5.63	5.55	6.11
Minnesota	4.84	5.13	4.19	4.65	4.35	4.28
Mississippi	NA	5.55	4.35	4.71	4.82	4.59
Missouri	7.25	7.00	6.29	6.97	6.70	6.04
Montana	6.56	6.22	5.68	5.78	5.57	5.47
Nebraska	5.31	4.80	4.04	4.51	4.25	4.00
Nevada	4.38	4.36	5.90	4.60	5.07	5.21
New Hampshire	10.27	10.13	8.59	10.11	9.06	7.58
New Jersey	NA	NA	6.59	7.29	7.24	6.42
New Mexico	5.28	4.97	4.18	4.86	4.30	4.72
New York	7.28	6.75	5.92	6.11	5.69	5.56
North Carolina	6.81	6.82	5.43	6.12	5.46	5.26
North Dakota	3.46	3.96	2.62	3.45	2.86	2.91
Ohio	5.28	5.53	4.81	4.95	5.45	6.07
Oklahoma	5.72	4.90	8.04	6.46	10.13	8.57
Oregon	5.52	5.37	5.73	5.71	5.82	5.74
Pennsylvania	7.88	7.75	7.40	7.75	8.36	8.46
Rhode Island	8.34	8.06	8.70	8.00	8.83	9.01
South Carolina	5.19	5.84	4.20	5.30	4.77	4.48
South Dakota	5.40	5.33	4.78	4.78	4.94	5.09
Tennessee	5.79	5.95	4.44	5.31	4.80	4.70
Texas	3.43	3.84	2.65	3.35	2.93	3.22
Utah	5.98	6.03	5.52	5.89	5.17	4.96
Vermont	5.67	6.02	5.20	5.68	5.20	5.13
Virginia	5.67	5.43	4.42	4.79	4.46	4.41
Washington	7.59	7.20	7.47	7.38	7.24	7.20
West Virginia	2.69	2.43	2.43	2.52	2.40	2.52
Wisconsin	5.55	6.33	5.05	5.65	5.35	4.64
Wyoming	4.53	NA	3.96	4.58	4.64	4.27
<b>Total</b>	<b>4.59</b>	<b>4.90</b>	<b>3.52</b>	<b>4.32</b>	<b>3.87</b>	<b>3.88</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					
	September	August	July	June	May	April
Alabama	4.11	3.82	3.98	3.34	2.97	3.22
Alaska	4.45	5.64	5.17	4.58	3.69	6.36
Arizona	5.56	5.98	5.81	4.97	5.64	5.70
Arkansas	5.76	5.81	5.33	5.21	5.27	5.31
California	7.35	6.91	6.30	5.79	5.84	5.70
Colorado	6.12	6.31	6.17	5.46	4.25	4.36
Connecticut	6.06	6.15	6.17	6.03	6.56	6.82
Delaware	11.86	10.24	8.94	8.72	8.57	7.81
District of Columbia	--	--	--	--	--	--
Florida	5.34	5.77	5.45	5.30	5.20	5.72
Georgia	4.46	4.35	4.24	3.62	3.58	3.53
Hawaii	15.65	16.04	16.51	16.92	15.05	14.45
Idaho	5.41	5.46	5.43	5.46	5.44	5.51
Illinois	6.07	7.16	6.99	5.49	4.45	4.94
Indiana	5.90	6.11	5.89	5.13	4.22	4.52
Iowa	4.96	4.33	4.66	4.44	4.07	4.44
Kansas	3.69	3.55	3.48	3.31	3.39	3.44
Kentucky	3.99	3.67	4.01	2.99	3.36	2.95
Louisiana	3.37	3.18	3.41	2.50	2.58	2.51
Maine	6.23	5.99	5.58	5.54	5.78	8.46
Maryland	9.98	12.51	13.82	9.81	7.36	7.57
Massachusetts	6.06	6.33	6.30	6.13	7.25	7.49
Michigan	6.05	6.00	6.38	5.98	5.75	5.54
Minnesota	4.21	4.19	4.41	3.70	3.60	3.50
Mississippi	4.51	4.49	3.87	3.85	3.72	4.00
Missouri	6.12	6.36	7.00	6.03	5.53	6.02
Montana	5.69	6.35	4.86	6.21	4.85	5.43
Nebraska	4.08	3.97	3.67	3.35	3.27	3.77
Nevada	5.88	5.80	6.52	6.11	6.00	6.22
New Hampshire	8.06	8.21	8.24	7.14	7.48	7.90
New Jersey	6.95	7.78	7.74	6.53	5.61	5.14
New Mexico	4.54	4.29	3.93	3.50	3.39	3.46
New York	5.30	5.70	5.56	5.55	5.72	5.88
North Carolina	5.26	5.20	5.15	5.09	5.11	5.33
North Dakota	2.87	3.76	3.03	2.13	1.95	2.13
Ohio	6.43	6.47	6.76	5.58	5.33	4.25
Oklahoma	13.29	12.53	10.45	11.08	9.67	8.54
Oregon	5.65	5.72	5.58	5.76	5.72	5.79
Pennsylvania	8.65	5.79	9.17	8.04	8.25	6.75
Rhode Island	9.16	9.22	8.91	8.76	8.91	8.77
South Carolina	4.37	4.24	4.46	3.58	3.56	3.22
South Dakota	6.12	6.01	5.20	4.78	4.33	4.10
Tennessee	4.49	4.36	4.42	3.68	3.80	3.83
Texas	3.15	3.02	2.98	2.16	2.14	2.08
Utah	4.93	5.00	5.02	5.10	5.14	5.68
Vermont	5.14	5.31	5.61	4.97	5.13	4.93
Virginia	4.46	4.55	4.16	4.31	4.08	3.78
Washington	7.33	7.77	7.76	8.16	7.33	7.38
West Virginia	2.33	2.26	2.30	2.40	2.28	2.17
Wisconsin	4.61	4.29	4.65	3.45	3.98	5.06
Wyoming	3.93	3.94	3.60	3.66	3.71	3.65
<b>Total</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>

-- Not applicable.

NA 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	2017				
	January	Total	December	November	October	September
Alabama	W	W	W	W	W	W
Alaska	8.44	8.10	8.13	8.13	8.09	8.09
Arizona	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W
California	3.79	W	W	W	W	W
Colorado	W	W	W	W	W	W
Connecticut	11.06	4.19	W	4.17	2.86	2.67
Delaware	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--
Florida	W	4.31	4.58	4.38	W	W
Georgia	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--
Idaho	--	--	--	--	--	--
Illinois	W	3.11	W	W	W	W
Indiana	W	W	W	W	W	W
Iowa	4.17	3.47	5.61	3.18	2.76	2.87
Kansas	4.32	3.63	4.27	3.52	3.24	3.65
Kentucky	W	3.77	W	W	W	W
Louisiana	4.26	W	W	W	W	W
Maine	W	W	W	--	W	W
Maryland	W	3.71	4.89	3.28	3.21	3.00
Massachusetts	14.30	3.75	8.72	W	W	2.29
Michigan	3.97	3.26	3.09	3.30	3.11	3.29
Minnesota	W	3.50	3.16	W	W	W
Mississippi	W	W	W	W	W	W
Missouri	W	3.04	2.97	2.73	2.68	3.10
Montana	2.06	1.80	1.98	1.91	0.72	1.49
Nebraska	6.76	4.16	5.97	4.89	4.02	4.12
Nevada	3.37	3.51	3.47	3.40	3.14	3.35
New Hampshire	W	W	W	W	W	W
New Jersey	7.90	3.02	5.39	2.95	1.63	2.04
New Mexico	4.18	3.59	3.67	3.69	3.36	3.45
New York	8.21	3.44	5.12	3.40	2.33	2.36
North Carolina	W	W	W	W	W	W
North Dakota	15.38	5.92	7.74	5.43	8.67	4.98
Ohio	3.63	3.05	3.00	2.94	2.89	2.81
Oklahoma	W	W	W	W	W	W
Oregon	W	W	W	W	W	W
Pennsylvania	5.92	2.58	3.93	2.37	1.47	1.71
Rhode Island	W	W	W	W	W	W
South Carolina	W	W	W	W	W	W
South Dakota	--	--	--	--	--	--
Tennessee	3.61	3.03	3.02	2.92	2.88	2.99
Texas	4.09	3.13	2.95	3.10	3.11	3.11
Utah	W	W	W	W	W	W
Vermont	--	--	--	--	--	--
Virginia	W	3.49	W	W	W	2.67
Washington	W	4.16	4.13	4.39	3.70	3.94
West Virginia	W	2.50	W	W	W	W
Wisconsin	3.99	3.34	3.04	3.39	3.16	3.23
Wyoming	W	3.57	3.10	3.69	W	W
<b>Total</b>	<b>5.35</b>	<b>3.52</b>	<b>3.81</b>	<b>3.50</b>	<b>3.27</b>	<b>3.31</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					
	August	July	June	May	April	March
Alabama	W	W	W	W	W	W
Alaska	8.09	8.09	8.09	8.09	8.09	8.09
Arizona	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W
California	W	W	W	W	W	W
Colorado	W	W	W	W	W	W
Connecticut	W	W	W	W	W	W
Delaware	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--
Florida	W	W	4.33	W	3.59	4.02
Georgia	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--
Idaho	--	--	--	--	--	--
Illinois	W	3.23	3.06	W	W	W
Indiana	W	W	W	W	W	W
Iowa	2.80	2.92	2.74	2.84	2.85	4.71
Kansas	3.44	3.22	3.43	4.10	3.88	3.52
Kentucky	W	W	W	W	W	W
Louisiana	W	W	W	W	W	W
Maine	W	W	W	--	W	W
Maryland	3.27	3.44	3.25	3.37	3.40	4.90
Massachusetts	2.42	2.58	2.65	3.36	3.47	4.35
Michigan	3.23	3.21	3.22	3.44	3.45	3.16
Minnesota	W	W	W	W	3.40	W
Mississippi	W	W	W	W	W	W
Missouri	3.19	3.07	3.22	3.40	3.03	2.59
Montana	1.52	1.52	2.10	2.49	2.22	2.09
Nebraska	3.64	3.48	3.51	4.03	4.37	5.17
Nevada	3.27	3.29	3.48	3.49	3.74	3.60
New Hampshire	W	W	W	W	W	W
New Jersey	2.19	2.44	2.42	3.24	3.34	3.45
New Mexico	3.50	3.53	3.51	3.69	3.85	3.27
New York	2.56	2.75	2.96	3.29	3.39	4.26
North Carolina	W	W	W	W	W	W
North Dakota	6.35	6.14	4.36	4.37	4.42	5.52
Ohio	2.76	2.91	3.06	3.22	3.28	2.93
Oklahoma	W	W	W	W	W	W
Oregon	W	W	W	W	W	W
Pennsylvania	2.03	2.27	2.39	3.00	3.00	2.86
Rhode Island	W	W	W	W	W	W
South Carolina	W	W	W	W	W	W
South Dakota	--	--	--	--	--	--
Tennessee	2.86	2.93	3.07	2.96	3.04	3.00
Texas	3.03	3.11	3.17	3.29	3.22	3.02
Utah	W	W	W	W	W	W
Vermont	--	--	--	--	--	--
Virginia	2.94	3.09	3.10	3.59	3.67	W
Washington	3.62	4.03	5.16	3.85	3.67	3.74
West Virginia	W	W	W	W	3.36	W
Wisconsin	3.16	W	W	W	W	W
Wyoming	W	W	W	W	W	10.87
<b>Total</b>	<b>3.27</b>	<b>3.32</b>	<b>3.41</b>	<b>3.61</b>	<b>3.50</b>	<b>3.52</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	2017		Total	2016		
	February	January		December	November	October
Alabama	W	W	W	W	W	W
Alaska	8.09	8.09	6.65	7.21	6.91	6.86
Arizona	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W
California	W	W	3.22	4.05	3.27	3.43
Colorado	W	W	W	W	W	W
Connecticut	5.84	8.10	3.67	5.49	3.34	2.45
Delaware	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--
Florida	4.38	4.92	3.86	W	W	W
Georgia	W	W	3.08	W	3.15	3.59
Hawaii	--	--	--	--	--	--
Idaho	--	--	2.92	4.05	4.66	4.78
Illinois	W	W	2.88	W	W	3.18
Indiana	W	W	W	W	W	W
Iowa	4.85	5.12	2.81	3.83	3.02	3.00
Kansas	4.82	4.92	3.48	5.05	3.28	3.96
Kentucky	5.96	W	W	W	W	W
Louisiana	W	W	2.76	W	W	W
Maine	W	W	W	W	--	W
Maryland	4.25	5.50	2.97	4.98	3.67	2.75
Massachusetts	W	W	3.22	7.03	4.59	3.36
Michigan	3.18	3.63	2.81	3.93	2.77	3.19
Minnesota	3.49	4.49	W	W	W	W
Mississippi	W	W	W	W	W	W
Missouri	3.05	3.43	W	W	W	W
Montana	2.25	2.36	--	--	--	--
Nebraska	6.48	5.61	3.31	4.75	3.17	3.54
Nevada	3.80	4.37	3.02	3.77	3.35	3.46
New Hampshire	W	W	W	W	W	W
New Jersey	3.64	4.06	2.20	4.01	2.45	1.86
New Mexico	3.65	4.02	3.07	4.21	3.06	3.30
New York	4.54	5.41	2.76	5.47	2.95	1.98
North Carolina	W	W	W	W	W	W
North Dakota	4.80	6.31	2.74	3.58	2.74	3.10
Ohio	3.26	3.84	2.36	3.41	2.32	2.30
Oklahoma	W	W	W	W	W	W
Oregon	W	W	W	W	W	W
Pennsylvania	3.21	4.12	1.95	3.52	2.10	1.29
Rhode Island	W	W	W	W	W	W
South Carolina	W	W	W	W	W	W
South Dakota	--	--	2.62	3.92	2.50	3.38
Tennessee	3.09	3.82	2.61	3.44	2.84	3.15
Texas	3.13	3.47	2.67	3.44	2.71	3.24
Utah	W	W	W	W	W	W
Vermont	--	--	--	--	--	--
Virginia	W	W	W	W	W	W
Washington	5.57	4.95	W	W	W	W
West Virginia	W	W	W	5.87	2.83	1.69
Wisconsin	W	W	W	W	W	W
Wyoming	W	4.04	8.29	8.65	12.43	4,893.63
<b>Total</b>	<b>3.74</b>	<b>4.33</b>	<b>2.99</b>	<b>4.16</b>	<b>3.14</b>	<b>3.24</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					
	September	August	July	June	May	April
Alabama	W	W	W	W	W	W
Alaska	6.52	6.49	6.81	7.10	6.43	6.47
Arizona	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W
California	3.59	3.45	3.48	2.98	W	2.47
Colorado	W	W	W	W	W	W
Connecticut	2.92	3.09	3.13	2.33	2.39	2.74
Delaware	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--
Florida	W	3.95	3.72	3.43	W	W
Georgia	3.59	3.33	3.30	3.03	2.44	2.40
Hawaii	--	--	--	--	--	--
Idaho	3.38	2.89	2.83	2.47	2.41	11.72
Illinois	3.29	3.07	3.05	W	2.25	2.24
Indiana	W	W	W	W	W	W
Iowa	3.00	2.94	2.83	2.63	2.10	2.61
Kansas	3.52	3.53	3.26	3.07	3.15	3.16
Kentucky	W	W	W	W	W	W
Louisiana	W	W	3.08	2.63	W	W
Maine	W	W	W	W	W	W
Maryland	2.47	2.97	2.94	3.01	2.50	2.40
Massachusetts	2.97	3.18	2.86	2.34	2.11	2.99
Michigan	3.32	3.12	3.04	2.75	2.28	2.31
Minnesota	W	W	W	W	W	W
Mississippi	W	W	W	W	W	W
Missouri	W	W	W	W	W	W
Montana	--	--	--	--	--	--
Nebraska	3.70	3.48	3.41	3.32	2.77	2.44
Nevada	3.39	3.23	3.38	2.57	2.54	2.40
New Hampshire	W	W	W	W	W	W
New Jersey	1.70	1.92	2.09	2.13	1.95	1.76
New Mexico	3.43	3.30	3.31	2.87	2.47	2.69
New York	2.18	2.54	2.75	2.38	2.12	2.36
North Carolina	W	W	W	W	W	W
North Dakota	3.07	2.98	2.88	2.63	2.04	2.09
Ohio	2.59	2.55	2.80	2.32	2.03	2.01
Oklahoma	W	W	W	W	W	W
Oregon	W	W	W	W	W	W
Pennsylvania	1.51	1.68	1.86	1.90	1.65	1.61
Rhode Island	W	W	2.92	W	2.23	W
South Carolina	W	W	W	W	W	W
South Dakota	3.39	2.94	2.87	2.53	2.10	2.07
Tennessee	2.91	2.69	2.74	2.37	1.96	1.96
Texas	3.13	2.94	2.95	2.62	2.17	2.14
Utah	W	W	W	W	W	W
Vermont	--	--	--	--	--	--
Virginia	W	W	W	W	W	W
Washington	W	W	W	W	W	W
West Virginia	1.97	W	3.21	2.00	2.03	2.12
Wisconsin	W	W	W	W	W	W
Wyoming	10.24	5.57	--	17.60	12.15	5.88
<b>Total</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.

W 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						2017		
	January			Total			December		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	83.6	27.4	NA	NA	26.9	100.0	76.3	27.6
Alaska	100.0	99.2	100.0	100.0	98.4	100.0	100.0	99.3	100.0
Arizona	100.0	NA	12.4	NA	NA	13.7	100.0	80.8	13.4
Arkansas	100.0	54.9	NA	93.6	NA	1.6	100.0	39.3	2.0
California	95.2	54.1	4.2	NA	52.6	4.1	95.4	54.7	4.5
Colorado	100.0	NA	8.6	100.0	93.8	NA	100.0	95.6	9.1
Connecticut	96.9	80.8	52.2	96.2	76.6	NA	96.6	78.9	52.8
Delaware	NA	NA	0.7	100.0	NA	NA	100.0	NA	NA
District of Columbia	76.9	NA	0.0	NA	NA	0.0	74.5	20.3	0.0
Florida	92.7	33.0	3.9	NA	NA	3.5	91.4	32.8	3.7
Georgia	100.0	100.0	26.5	100.0	100.0	25.8	100.0	100.0	24.6
Hawaii	100.0	100.0	NA	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	82.7	2.7	100.0	76.9	NA	100.0	84.7	3.4
Illinois	87.0	41.0	10.2	NA	34.1	NA	92.1	37.8	9.8
Indiana	96.3	70.2	NA	NA	66.1	1.7	96.1	72.1	2.4
Iowa	100.0	70.7	3.1	100.0	68.4	NA	100.0	72.1	5.2
Kansas	100.0	67.5	1.3	NA	NA	6.7	100.0	53.0	1.9
Kentucky	96.9	84.2	17.3	97.0	78.0	18.3	97.6	83.4	17.0
Louisiana	100.0	83.4	NA	100.0	NA	3.2	100.0	78.4	3.2
Maine	100.0	68.2	10.3	100.0	59.3	9.2	100.0	63.1	10.6
Maryland	76.4	32.9	NA	NA	NA	NA	75.9	29.1	6.9
Massachusetts	NA	NA	34.5	98.3	NA	NA	98.0	54.4	31.2
Michigan	93.7	63.3	10.5	93.5	56.3	6.1	94.0	63.2	9.5
Minnesota	100.0	91.1	21.5	100.0	88.1	NA	100.0	90.7	NA
Mississippi	99.1	NA	7.7	92.0	83.5	NA	100.0	86.8	8.0
Missouri	100.0	82.2	19.2	100.0	NA	12.3	100.0	73.3	13.7
Montana	99.5	NA	NA	99.4	49.7	NA	99.5	48.5	NA
Nebraska	88.6	61.1	7.3	87.5	54.7	NA	87.5	57.4	6.3
Nevada	100.0	66.8	18.0	100.0	59.1	14.5	100.0	64.8	19.1
New Hampshire	100.0	59.1	NA	100.0	54.0	5.5	100.0	55.6	8.6
New Jersey	95.0	49.8	NA	94.7	NA	NA	95.1	46.5	10.7
New Mexico	100.0	60.2	3.1	NA	NA	NA	100.0	51.6	5.0
New York	100.0	100.0	8.4	NA	100.0	NA	100.0	100.0	6.6
North Carolina	100.0	92.3	NA	100.0	NA	10.8	100.0	NA	12.3
North Dakota	100.0	94.7	38.0	100.0	92.7	34.2	100.0	94.1	41.4
Ohio	100.0	100.0	NA	NA	100.0	NA	100.0	100.0	NA
Oklahoma	100.0	53.5	1.2	100.0	40.8	0.7	100.0	37.1	1.0
Oregon	100.0	95.1	16.5	100.0	94.6	15.3	100.0	95.7	16.8
Pennsylvania	87.1	42.0	2.5	NA	NA	NA	87.8	NA	NA
Rhode Island	100.0	57.2	4.2	100.0	52.8	NA	100.0	54.1	3.8
South Carolina	100.0	NA	38.6	100.0	91.4	40.8	100.0	93.5	38.5
South Dakota	100.0	84.1	6.0	100.0	80.9	4.3	100.0	83.2	8.5
Tennessee	100.0	93.2	NA	100.0	87.2	NA	100.0	90.3	NA
Texas	NA	81.9	NA	NA	NA	NA	99.7	73.0	37.8
Utah	100.0	77.2	3.0	100.0	72.6	4.1	100.0	75.5	3.0
Vermont	100.0	100.0	100.0	100.0	NA	100.0	100.0	100.0	100.0
Virginia	NA	NA	NA	NA	NA	NA	92.3	62.4	12.1
Washington	100.0	89.0	7.7	100.0	NA	6.4	100.0	91.3	7.4
West Virginia	100.0	66.2	7.5	NA	51.7	7.8	100.0	64.2	7.5
Wisconsin	100.0	80.0	22.2	100.0	71.9	16.4	100.0	78.3	22.4
Wyoming	68.9	48.4	2.2	71.9	51.4	NA	73.0	53.3	1.9
<b>Total</b>	<b>96.1</b>	<b>71.2</b>	<b>15.0</b>	<b>95.9</b>	<b>65.4</b>	<b>14.5</b>	<b>96.5</b>	<b>69.2</b>	<b>14.9</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								
	November			October			September		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	72.2	27.9	100.0	68.7	28.6	100.0	71.3	26.6
Alaska	100.0	98.7	100.0	100.0	96.7	100.0	100.0	96.4	100.0
Arizona	100.0	78.8	14.0	100.0	77.7	12.8	100.0	77.9	14.1
Arkansas	100.0	30.8	1.8	100.0	NA	1.3	100.0	25.6	1.5
California	95.3	51.1	3.9	95.0	48.4	4.4	95.1	47.6	3.9
Colorado	100.0	94.7	8.3	100.0	94.0	NA	100.0	90.8	6.4
Connecticut	95.5	76.5	49.6	95.1	72.8	49.1	95.5	73.4	49.6
Delaware	100.0	30.6	NA	100.0	23.7	0.2	100.0	24.9	NA
District of Columbia	73.8	NA	0.0	70.8	15.4	0.0	70.0	15.8	0.0
Florida	90.2	30.6	3.9	92.0	27.7	3.2	NA	NA	3.8
Georgia	100.0	100.0	24.0	100.0	100.0	29.1	100.0	100.0	27.3
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	77.7	NA	100.0	72.8	2.5	100.0	64.3	2.5
Illinois	87.9	36.3	7.1	90.5	34.4	4.8	NA	21.3	NA
Indiana	96.0	67.7	2.3	95.7	67.7	1.2	95.7	56.5	0.9
Iowa	100.0	70.3	5.9	100.0	67.5	NA	100.0	53.9	2.5
Kansas	NA	51.6	2.4	100.0	35.0	2.6	100.0	25.0	11.3
Kentucky	98.0	78.6	16.9	98.7	72.7	18.8	97.6	69.0	18.2
Louisiana	100.0	75.4	3.6	100.0	76.2	3.2	100.0	78.8	3.2
Maine	100.0	53.1	9.3	100.0	45.5	7.9	100.0	45.0	6.8
Maryland	77.8	28.6	4.4	NA	21.4	NA	73.3	17.3	NA
Massachusetts	98.2	46.5	25.9	97.9	NA	NA	97.9	29.0	20.6
Michigan	94.0	58.7	4.7	94.0	52.9	3.6	93.6	39.0	2.6
Minnesota	100.0	89.6	23.4	100.0	87.6	16.8	100.0	75.4	12.9
Mississippi	100.0	82.3	9.0	100.0	82.2	8.9	100.0	79.9	8.2
Missouri	100.0	70.1	12.6	100.0	60.2	10.4	100.0	61.1	11.1
Montana	99.5	47.4	NA	99.5	44.2	NA	99.5	37.9	0.8
Nebraska	86.5	53.2	NA	84.4	46.2	4.9	88.9	43.5	5.1
Nevada	100.0	57.9	16.0	100.0	50.9	14.2	100.0	48.8	10.7
New Hampshire	100.0	49.9	5.4	100.0	46.4	3.5	100.0	45.5	3.0
New Jersey	95.1	42.0	NA	94.8	33.8	NA	94.7	20.5	NA
New Mexico	NA	NA	NA	99.9	NA	10.2	99.9	46.9	8.9
New York	100.0	100.0	4.4	NA	100.0	4.2	100.0	100.0	4.1
North Carolina	100.0	86.8	10.6	100.0	84.2	9.7	100.0	76.2	9.6
North Dakota	100.0	93.7	27.5	100.0	90.0	30.1	100.0	88.3	8.6
Ohio	NA	100.0	1.9	100.0	100.0	1.1	100.0	100.0	0.8
Oklahoma	100.0	33.5	0.7	100.0	23.5	0.3	100.0	28.0	0.4
Oregon	100.0	94.8	16.1	100.0	93.7	15.3	100.0	92.3	14.6
Pennsylvania	88.4	NA	0.7	NA	31.4	0.4	87.8	28.7	0.3
Rhode Island	100.0	53.9	3.8	100.0	51.5	3.6	100.0	53.5	3.2
South Carolina	100.0	91.7	42.4	100.0	90.8	40.4	100.0	89.4	40.7
South Dakota	100.0	81.3	5.8	100.0	77.2	2.5	100.0	71.3	1.7
Tennessee	100.0	86.8	25.8	100.0	82.4	24.7	100.0	80.2	22.2
Texas	99.7	69.8	37.6	99.6	65.3	NA	99.8	63.4	38.4
Utah	100.0	68.0	3.4	100.0	67.8	3.4	100.0	58.4	3.8
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	92.3	55.5	10.5	NA	NA	8.5	87.0	NA	7.7
Washington	100.0	89.6	6.6	100.0	86.3	5.7	100.0	81.6	5.3
West Virginia	100.0	54.5	8.4	100.0	36.4	7.9	100.0	36.1	6.9
Wisconsin	100.0	75.0	18.4	100.0	63.6	15.2	100.0	52.1	10.7
Wyoming	72.3	53.5	2.1	72.7	53.5	1.5	74.9	54.3	1.9
<b>Total</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>	<b>96.1</b>	<b>56.2</b>	<b>13.6</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								
	August			July			June		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	70.9	25.8	100.0	72.5	25.7	NA	NA	26.3
Alaska	100.0	96.4	100.0	100.0	97.5	100.0	100.0	96.7	100.0
Arizona	100.0	NA	11.8	100.0	79.9	14.1	100.0	81.4	12.6
Arkansas	100.0	24.4	1.4	100.0	23.5	1.5	30.3	25.2	1.2
California	94.6	46.9	3.8	95.2	48.6	3.5	94.7	51.6	3.6
Colorado	100.0	91.3	5.7	100.0	90.8	5.7	100.0	90.6	5.4
Connecticut	95.4	72.2	47.3	95.2	73.0	50.1	95.4	72.4	47.7
Delaware	100.0	23.3	0.1	100.0	26.4	0.1	100.0	29.3	0.2
District of Columbia	NA	16.0	0.0	66.9	20.9	0.0	69.8	16.0	0.0
Florida	92.4	NA	3.4	92.4	28.9	3.2	91.9	30.2	3.4
Georgia	100.0	100.0	25.7	100.0	100.0	26.5	100.0	100.0	26.6
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	63.0	2.9	100.0	54.4	2.6	100.0	58.8	2.9
Illinois	NA	20.6	2.9	86.1	23.8	2.4	83.8	23.0	3.0
Indiana	NA	53.1	0.9	95.4	55.1	0.8	95.5	54.6	0.9
Iowa	100.0	54.7	1.9	100.0	51.8	2.0	100.0	52.8	1.7
Kansas	100.0	25.8	16.3	100.0	25.5	18.5	100.0	30.0	10.9
Kentucky	97.7	64.7	18.1	97.5	68.1	18.5	96.9	67.2	19.9
Louisiana	100.0	76.9	3.0	100.0	76.3	3.2	100.0	NA	3.4
Maine	100.0	43.6	7.2	100.0	43.1	8.0	100.0	53.2	6.4
Maryland	72.1	17.7	NA	69.7	NA	NA	NA	20.0	NA
Massachusetts	97.9	30.0	22.7	98.0	30.8	23.0	98.0	36.0	24.2
Michigan	93.5	36.3	2.1	92.6	36.9	2.5	93.4	38.5	2.9
Minnesota	100.0	70.9	12.3	100.0	76.6	14.9	100.0	73.8	11.4
Mississippi	100.0	81.0	7.6	100.0	80.2	8.3	100.0	78.4	8.4
Missouri	100.0	58.4	9.1	100.0	60.6	9.3	100.0	62.5	9.4
Montana	99.4	37.3	0.9	99.3	40.0	0.7	99.3	43.6	1.0
Nebraska	89.3	42.0	3.9	89.2	42.4	5.1	87.8	45.2	6.9
Nevada	100.0	47.1	8.6	100.0	49.3	9.9	100.0	52.8	10.2
New Hampshire	100.0	46.6	3.4	100.0	46.6	2.5	100.0	47.7	3.6
New Jersey	95.0	25.3	NA	94.1	28.0	NA	94.7	NA	NA
New Mexico	99.9	47.0	12.0	99.9	48.5	11.9	100.0	52.7	8.8
New York	100.0	100.0	4.6	100.0	100.0	NA	100.0	100.0	NA
North Carolina	100.0	75.6	8.6	100.0	75.9	8.8	100.0	NA	9.4
North Dakota	100.0	86.8	32.8	100.0	84.4	32.0	100.0	86.1	36.6
Ohio	100.0	100.0	1.0	100.0	100.0	0.8	100.0	100.0	0.7
Oklahoma	100.0	27.0	0.4	100.0	29.6	0.4	100.0	32.1	0.3
Oregon	100.0	92.6	13.1	100.0	92.8	13.1	100.0	92.5	13.3
Pennsylvania	87.8	28.8	0.3	87.6	27.4	NA	87.3	27.8	0.3
Rhode Island	100.0	54.4	3.1	100.0	50.7	3.4	100.0	47.9	4.1
South Carolina	100.0	89.7	40.8	100.0	90.5	38.9	100.0	90.4	40.7
South Dakota	100.0	68.1	1.9	100.0	73.1	2.3	100.0	71.0	2.3
Tennessee	100.0	79.1	22.6	100.0	80.6	21.0	100.0	81.8	22.7
Texas	99.7	62.1	39.5	99.8	62.7	39.1	99.8	65.6	38.6
Utah	100.0	55.2	4.0	100.0	60.1	4.8	100.0	60.5	5.1
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	NA	100.0
Virginia	88.0	41.4	7.4	86.4	NA	NA	86.2	41.2	7.3
Washington	100.0	78.1	3.8	100.0	79.9	4.3	100.0	NA	4.8
West Virginia	100.0	29.9	8.3	NA	30.5	6.0	100.0	27.9	8.3
Wisconsin	100.0	52.4	11.3	100.0	52.9	13.5	100.0	55.7	10.2
Wyoming	72.7	50.4	1.4	71.7	53.0	1.5	71.2	51.1	1.5
<b>Total</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>	<b>94.5</b>	<b>58.2</b>	<b>14.4</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								
	May			April			March		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	NA	25.6	100.0	NA	27.0	100.0	77.9	27.4
Alaska	100.0	97.7	100.0	100.0	98.7	100.0	100.0	99.0	100.0
Arizona	100.0	80.4	14.6	100.0	82.0	15.1	100.0	82.9	13.9
Arkansas	100.0	NA	1.3	100.0	35.8	1.2	100.0	43.1	1.9
California	95.2	55.0	3.7	94.8	53.9	3.8	94.6	53.9	4.5
Colorado	100.0	92.4	6.2	100.0	92.7	7.6	100.0	93.8	7.5
Connecticut	95.1	72.7	49.3	96.1	76.9	NA	96.3	79.7	NA
Delaware	100.0	32.5	0.5	100.0	43.7	NA	100.0	40.0	0.6
District of Columbia	72.0	17.5	0.0	74.7	14.7	0.0	75.5	22.2	0.0
Florida	91.1	29.7	3.4	90.5	30.6	3.8	90.3	31.3	3.4
Georgia	100.0	100.0	24.3	100.0	100.0	25.0	100.0	100.0	26.2
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	62.2	2.6	100.0	74.2	2.4	100.0	77.0	2.5
Illinois	82.3	24.9	3.8	82.8	30.1	5.0	86.4	38.3	8.5
Indiana	95.4	58.8	1.2	95.2	59.6	1.4	95.6	68.4	2.1
Iowa	100.0	61.0	1.8	100.0	64.9	2.2	100.0	71.4	NA
Kansas	NA	NA	2.9	100.0	44.2	3.5	100.0	48.6	4.2
Kentucky	96.6	70.5	18.8	95.4	73.5	18.4	96.8	79.3	19.8
Louisiana	100.0	78.3	3.1	100.0	81.4	3.3	100.0	NA	3.0
Maine	100.0	56.2	8.7	100.0	64.6	10.3	100.0	62.8	11.3
Maryland	74.2	20.2	2.8	72.6	22.8	4.1	75.4	28.0	7.4
Massachusetts	98.0	40.6	NA	98.2	NA	28.1	98.5	53.9	29.4
Michigan	92.5	46.0	3.8	93.3	58.5	6.8	93.6	58.5	8.3
Minnesota	100.0	82.4	13.9	100.0	86.7	15.9	100.0	91.8	17.4
Mississippi	100.0	80.5	8.6	44.1	81.5	8.1	100.0	85.2	NA
Missouri	100.0	65.2	10.0	100.0	71.0	13.1	100.0	72.6	12.6
Montana	99.4	49.3	1.5	99.4	50.5	2.0	99.4	51.4	1.7
Nebraska	86.9	49.2	5.6	88.1	56.0	7.2	87.6	59.5	NA
Nevada	100.0	52.0	12.5	100.0	56.9	15.7	100.0	62.5	16.2
New Hampshire	100.0	50.8	4.1	100.0	54.9	5.9	100.0	56.9	8.6
New Jersey	94.7	32.4	3.2	94.6	45.0	NA	94.6	48.4	NA
New Mexico	100.0	52.8	6.8	100.0	53.7	NA	100.0	61.2	NA
New York	100.0	100.0	5.5	100.0	100.0	6.4	100.0	100.0	7.5
North Carolina	100.0	77.7	9.2	100.0	77.9	11.6	100.0	NA	11.8
North Dakota	100.0	89.5	42.5	100.0	92.5	41.4	100.0	94.1	38.9
Ohio	NA	100.0	NA	100.0	100.0	NA	100.0	100.0	NA
Oklahoma	100.0	34.9	0.5	100.0	38.7	0.5	100.0	45.0	0.8
Oregon	100.0	93.2	14.0	100.0	93.9	15.1	100.0	94.8	16.4
Pennsylvania	87.9	31.8	0.5	87.0	NA	0.9	88.1	39.6	1.6
Rhode Island	100.0	48.5	4.0	100.0	50.5	3.3	100.0	54.1	4.0
South Carolina	100.0	90.1	41.0	100.0	90.0	41.6	100.0	91.7	41.0
South Dakota	100.0	77.8	2.7	100.0	79.4	4.1	100.0	82.8	5.2
Tennessee	100.0	82.3	22.7	100.0	86.6	23.2	100.0	89.3	24.4
Texas	99.8	NA	38.1	99.8	66.4	39.2	99.7	72.8	39.0
Utah	100.0	66.1	4.8	100.0	70.9	4.3	100.0	76.9	4.6
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	NA	NA	9.8	87.5	45.3	10.9	NA	NA	13.5
Washington	100.0	NA	5.2	100.0	86.0	7.0	100.0	87.6	7.8
West Virginia	100.0	41.3	8.5	100.0	45.8	9.9	100.0	60.3	6.8
Wisconsin	100.0	62.1	12.7	100.0	69.9	14.8	100.0	75.2	17.7
Wyoming	71.6	49.5	1.7	72.8	52.8	1.7	70.6	49.2	1.7
<b>Total</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>	<b>95.7</b>	<b>67.8</b>	<b>15.0</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						2016		
	February			January			Total		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	82.0	27.1	100.0	80.7	26.9	100.0	77.2	24.6
Alaska	100.0	99.0	100.0	100.0	99.1	100.0	100.0	98.5	100.0
Arizona	NA	85.8	14.2	100.0	85.2	13.6	100.0	82.8	15.9
Arkansas	100.0	46.8	1.8	100.0	51.9	1.6	100.0	37.7	1.5
California	95.1	56.9	5.0	NA	56.6	4.8	95.1	51.1	3.9
Colorado	100.0	94.3	9.0	100.0	94.7	9.0	100.0	94.3	7.5
Connecticut	96.5	76.8	51.7	96.6	79.8	52.0	96.2	76.3	49.0
Delaware	100.0	44.6	0.6	100.0	44.7	0.6	100.0	37.2	0.3
District of Columbia	NA	23.1	0.0	71.1	21.9	0.0	73.2	19.5	--
Florida	90.4	31.3	4.0	92.5	30.7	3.2	91.7	30.1	3.4
Georgia	100.0	100.0	26.0	100.0	100.0	25.1	100.0	100.0	22.0
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	82.5	3.2	100.0	87.0	2.7	100.0	75.0	2.4
Illinois	85.3	37.1	8.3	86.4	39.5	9.8	86.6	34.4	6.1
Indiana	95.7	66.8	2.4	95.9	68.8	2.7	95.7	66.3	1.7
Iowa	100.0	73.2	3.2	100.0	74.7	4.2	100.0	69.5	3.5
Kansas	100.0	56.1	1.5	100.0	60.9	1.4	100.0	46.2	7.7
Kentucky	96.3	80.6	18.3	96.7	83.1	17.8	96.9	78.0	17.4
Louisiana	100.0	NA	3.3	100.0	NA	3.1	100.0	77.9	3.1
Maine	100.0	64.6	10.6	100.0	63.4	10.9	100.0	57.8	8.4
Maryland	75.2	32.3	8.0	73.5	30.4	8.6	74.1	25.7	4.0
Massachusetts	98.5	51.6	27.9	98.5	53.6	30.5	98.9	47.0	25.8
Michigan	93.0	59.7	9.0	93.3	62.8	10.6	92.9	55.0	6.3
Minnesota	100.0	92.1	17.9	100.0	91.1	21.7	100.0	85.1	15.7
Mississippi	100.0	84.9	NA	100.0	87.7	9.7	100.0	84.2	9.7
Missouri	100.0	NA	17.2	100.0	79.0	15.4	100.0	72.1	11.8
Montana	99.3	55.5	2.7	99.4	55.9	2.8	99.6	47.6	1.4
Nebraska	87.6	59.4	8.5	87.7	60.4	8.5	87.5	58.5	6.2
Nevada	100.0	69.3	20.0	100.0	69.1	18.7	100.0	58.5	12.7
New Hampshire	100.0	56.3	6.8	100.0	57.0	7.0	100.0	53.7	5.7
New Jersey	94.5	49.5	NA	94.4	NA	NA	94.3	37.3	5.2
New Mexico	100.0	64.0	4.3	100.0	57.7	5.5	100.0	54.3	9.0
New York	100.0	100.0	7.9	100.0	100.0	7.6	100.0	100.0	5.9
North Carolina	100.0	84.4	12.4	100.0	87.4	13.9	100.0	83.1	10.6
North Dakota	100.0	94.1	28.3	100.0	94.5	36.6	100.0	92.8	31.6
Ohio	100.0	100.0	3.2	100.0	100.0	2.7	100.0	100.0	2.0
Oklahoma	100.0	52.5	1.5	100.0	53.6	1.9	100.0	40.4	0.5
Oregon	100.0	95.1	16.9	100.0	95.7	17.2	100.0	94.4	14.4
Pennsylvania	87.4	39.8	1.7	NA	41.1	1.9	87.6	37.4	1.0
Rhode Island	100.0	53.5	NA	100.0	54.6	4.0	100.0	52.8	3.3
South Carolina	100.0	91.9	43.1	100.0	93.0	40.6	100.0	91.6	41.3
South Dakota	100.0	83.6	7.1	100.0	85.0	6.4	100.0	80.5	4.5
Tennessee	100.0	91.0	24.0	100.0	91.6	24.7	100.0	87.2	27.1
Texas	99.8	NA	38.5	NA	NA	NA	99.8	70.7	40.1
Utah	100.0	77.1	4.1	100.0	80.8	4.2	100.0	76.1	5.5
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	89.6	53.2	9.0	89.4	59.9	13.2	90.1	51.7	10.1
Washington	100.0	87.9	8.5	100.0	89.4	9.0	100.0	85.4	6.2
West Virginia	100.0	60.3	8.0	100.0	61.6	7.0	100.0	51.7	9.6
Wisconsin	100.0	76.8	18.8	100.0	79.0	21.7	100.0	70.9	16.1
Wyoming	71.0	49.4	2.0	71.7	51.2	NA	72.8	51.8	1.8
<b>Total</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>	<b>95.8</b>	<b>64.8</b>	<b>14.7</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	2016								
	December			November			October		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	76.7	25.9	100.0	69.8	24.8	100.0	70.3	25.6
Alaska	100.0	99.1	100.0	100.0	98.9	100.0	100.0	97.7	100.0
Arizona	100.0	83.6	14.0	100.0	80.5	15.2	100.0	78.3	18.5
Arkansas	100.0	41.2	1.3	100.0	25.3	1.8	100.0	25.9	1.4
California	95.5	54.0	4.1	95.7	52.0	4.5	95.0	49.5	4.3
Colorado	100.0	95.7	9.4	100.0	94.8	7.7	100.0	92.5	5.5
Connecticut	96.4	77.6	52.5	95.9	75.7	49.2	95.1	72.7	47.5
Delaware	100.0	36.1	0.5	100.0	29.5	0.3	100.0	22.8	0.2
District of Columbia	78.5	26.3	--	69.3	16.9	--	68.9	15.5	--
Florida	90.6	29.5	3.3	89.6	29.8	3.4	91.7	29.5	3.1
Georgia	100.0	100.0	23.6	100.0	100.0	23.0	100.0	100.0	21.7
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	85.4	2.6	100.0	75.5	2.4	100.0	67.1	2.2
Illinois	88.2	40.1	9.7	88.1	33.8	5.6	87.1	29.0	4.1
Indiana	95.9	70.9	2.2	95.9	66.6	1.6	95.0	63.8	1.5
Iowa	100.0	73.8	3.9	100.0	69.1	5.4	100.0	65.8	4.0
Kansas	100.0	57.4	1.7	100.0	43.2	4.3	100.0	31.0	5.3
Kentucky	97.5	82.4	17.9	98.1	73.8	16.4	97.9	69.4	16.7
Louisiana	100.0	77.2	3.1	100.0	75.4	3.0	100.0	74.0	3.1
Maine	100.0	60.5	11.8	100.0	54.4	11.3	100.0	49.9	6.7
Maryland	77.8	31.1	6.3	75.4	23.6	4.4	73.9	20.9	1.6
Massachusetts	98.7	51.8	26.3	98.7	44.2	22.3	98.6	36.4	22.1
Michigan	93.3	60.9	9.1	93.3	54.8	5.6	93.1	48.8	3.6
Minnesota	100.0	89.7	18.7	100.0	87.9	18.5	100.0	83.4	17.0
Mississippi	100.0	86.6	9.3	100.0	80.7	9.5	100.0	81.0	11.0
Missouri	100.0	75.8	14.2	100.0	64.5	10.7	100.0	61.7	9.6
Montana	99.5	49.3	2.3	99.5	41.7	1.4	99.6	40.6	1.6
Nebraska	86.1	57.1	6.5	85.2	47.8	5.7	88.1	57.2	5.3
Nevada	100.0	65.4	17.6	100.0	55.7	13.7	100.0	50.0	12.0
New Hampshire	100.0	54.5	6.3	100.0	51.0	4.3	100.0	47.2	2.5
New Jersey	94.4	39.2	8.7	94.4	38.9	5.1	94.6	30.5	3.0
New Mexico	100.0	52.5	10.0	99.9	40.5	14.0	100.0	43.3	13.4
New York	100.0	100.0	5.9	100.0	100.0	4.7	100.0	100.0	4.7
North Carolina	100.0	85.6	12.1	100.0	83.3	10.4	100.0	77.7	9.0
North Dakota	100.0	94.2	28.1	100.0	92.8	36.9	100.0	90.7	39.5
Ohio	100.0	100.0	2.8	100.0	100.0	1.6	100.0	100.0	1.1
Oklahoma	100.0	38.1	0.8	100.0	24.4	0.3	100.0	25.6	0.3
Oregon	100.0	95.6	16.0	100.0	94.3	15.1	100.0	94.2	14.0
Pennsylvania	88.0	40.4	1.5	88.9	38.3	0.8	88.1	33.1	0.5
Rhode Island	100.0	54.5	3.6	100.0	51.7	2.7	100.0	54.0	3.5
South Carolina	100.0	92.6	39.1	100.0	91.6	40.9	100.0	90.1	41.5
South Dakota	100.0	83.3	6.7	100.0	80.8	6.7	100.0	76.4	3.1
Tennessee	100.0	89.5	25.0	100.0	84.9	24.4	100.0	80.8	23.5
Texas	99.7	75.8	37.5	99.5	65.4	38.1	99.7	63.9	38.6
Utah	100.0	80.8	5.0	100.0	67.9	4.4	100.0	66.7	4.5
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	92.0	63.1	14.1	91.5	45.9	10.9	89.6	45.3	10.8
Washington	100.0	90.1	8.0	100.0	86.2	6.6	100.0	85.1	5.4
West Virginia	100.0	61.5	8.5	100.0	51.6	6.2	100.0	39.8	10.8
Wisconsin	100.0	77.6	19.9	100.0	70.2	17.2	100.0	62.0	15.0
Wyoming	74.5	58.2	2.1	73.9	52.9	1.6	77.5	55.3	1.4
<b>Total</b>	<b>96.0</b>	<b>68.2</b>	<b>14.7</b>	<b>96.0</b>	<b>63.5</b>	<b>14.5</b>	<b>95.9</b>	<b>59.9</b>	<b>14.4</b>

<sup>R</sup> Revised data.

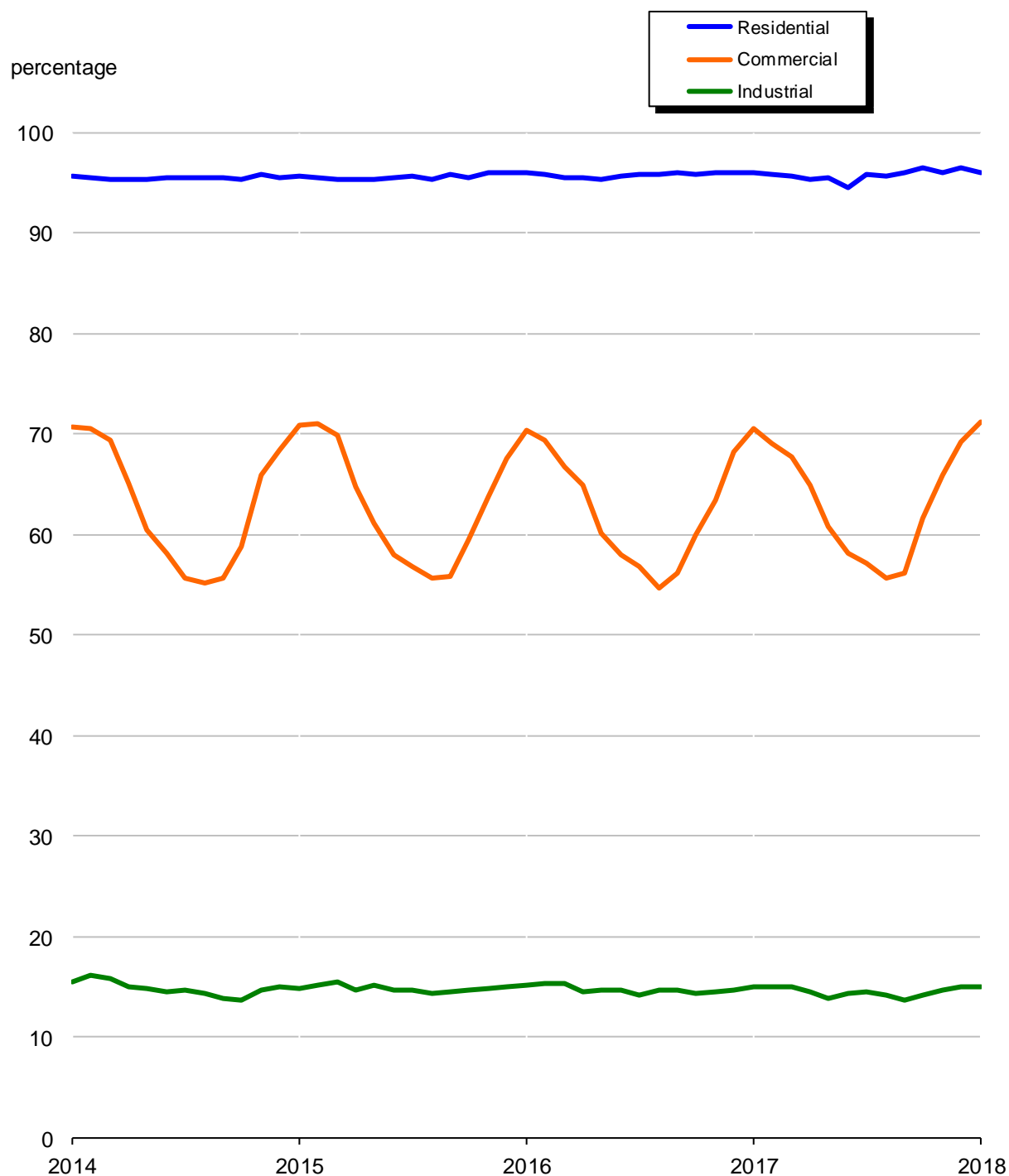
-- Not applicable.

NA 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, 2014-2018



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			2017		
	January	Total	December	November	October	September
Alabama	1,026	1,030	1,027	1,029	1,030	1,031
Alaska	995	990	992	996	983	980
Arizona	1,045	1,040	1,042	1,040	1,039	1,047
Arkansas	1,016	1,024	1,014	1,014	1,021	1,020
California	1,036	1,034	1,034	1,033	1,032	1,036
Colorado	1,066	1,066	1,065	1,061	1,069	1,067
Connecticut	1,030	1,026	1,029	1,029	1,026	1,026
Delaware	1,044	1,040	1,047	1,044	1,042	1,042
District of Columbia	1,047	1,042	1,045	1,041	1,033	1,034
Florida	1,024	1,023	1,022	1,020	1,021	1,022
Georgia	1,028	1,030	1,026	1,026	1,028	1,032
Hawaii	965	975	989	969	984	978
Idaho	1,045	1,036	1,038	1,031	1,030	1,037
Illinois	1,032	1,031	1,031	1,032	1,030	1,027
Indiana	1,041	1,046	1,043	1,050	1,049	1,049
Iowa	1,054	1,056	1,059	1,058	1,060	1,061
Kansas	1,037	1,036	1,032	1,038	1,034	1,037
Kentucky	1,054	1,043	1,055	1,056	1,060	1,051
Louisiana	1,022	1,029	1,021	1,020	1,023	1,025
Maine	1,035	1,026	1,031	1,030	1,022	1,017
Maryland	1,051	1,048	1,048	1,038	1,042	1,045
Massachusetts	1,033	1,031	1,031	1,030	1,030	1,030
Michigan	1,044	1,042	1,044	1,043	1,042	1,043
Minnesota	1,037	1,032	1,039	1,038	1,032	1,029
Mississippi	1,024	1,032	1,026	1,027	1,027	1,031
Missouri	1,023	1,021	1,021	1,021	1,022	1,020
Montana	1,044	1,036	1,052	1,045	1,052	1,042
Nebraska	1,053	1,057	1,059	1,054	1,065	1,071
Nevada	1,038	1,039	1,039	1,030	1,035	1,038
New Hampshire	1,036	1,030	1,033	1,031	1,029	1,028
New Jersey	1,042	1,040	1,042	1,042	1,036	1,039
New Mexico	1,040	1,043	1,042	1,042	1,041	1,046
New York	1,033	1,032	1,034	1,033	1,031	1,031
North Carolina	1,029	1,035	1,026	1,032	1,040	1,038
North Dakota	1,097	1,061	1,104	1,086	1,094	1,100
Ohio	1,068	1,071	1,074	1,071	1,076	1,070
Oklahoma	1,041	1,042	1,037	1,036	1,036	1,051
Oregon	1,063	1,055	1,059	1,062	1,059	1,058
Pennsylvania	1,041	1,039	1,042	1,041	1,039	1,039
Rhode Island	1,029	1,030	1,029	1,029	1,030	1,030
South Carolina	1,029	1,030	1,028	1,029	1,031	1,032
South Dakota	1,063	1,056	1,067	1,058	1,056	1,055
Tennessee	1,025	1,027	1,031	1,030	1,027	1,026
Texas	1,026	1,030	1,029	1,027	1,028	1,034
Utah	1,044	1,042	1,043	1,042	1,041	1,041
Vermont	1,036	1,030	1,033	1,033	1,026	1,021
Virginia	1,053	1,051	1,057	1,052	1,051	1,050
Washington	1,085	1,081	1,084	1,084	1,082	1,075
West Virginia	1,092	1,080	1,073	1,086	1,081	1,087
Wisconsin	1,040	1,033	1,035	1,039	1,034	1,027
Wyoming	1,054	1,063	1,052	1,047	1,049	1,050
<b>Total</b>	<b>1,038</b>	<b>1,037</b>	<b>1,039</b>	<b>1,037</b>	<b>1,035</b>	<b>1,036</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					
	August	July	June	May	April	March
Alabama	1,030	1,031	1,030	1,031	1,030	1,028
Alaska	964	974	988	995	994	996
Arizona	1,040	1,039	1,037	1,038	1,038	1,040
Arkansas	1,018	1,017	1,019	1,016	1,022	1,017
California	1,036	1,037	1,037	1,033	1,033	1,034
Colorado	1,074	1,072	1,069	1,065	1,063	1,062
Connecticut	1,026	1,026	1,025	1,025	1,025	1,026
Delaware	1,040	1,038	1,037	1,037	1,041	1,045
District of Columbia	1,034	1,030	1,029	1,034	1,035	1,047
Florida	1,025	1,024	1,023	1,024	1,023	1,023
Georgia	1,030	1,032	1,032	1,033	1,030	1,029
Hawaii	983	987	987	984	959	954
Idaho	1,034	1,035	1,069	1,044	1,051	1,037
Illinois	1,027	1,027	1,027	1,028	1,030	1,030
Indiana	1,050	1,049	1,044	1,042	1,036	1,034
Iowa	1,059	1,058	1,056	1,057	1,055	1,052
Kansas	1,034	1,034	1,033	1,035	1,041	1,037
Kentucky	1,042	1,040	1,043	1,028	1,030	1,035
Louisiana	1,022	1,022	1,020	1,022	1,023	1,022
Maine	1,018	1,017	1,021	1,022	1,026	1,036
Maryland	1,047	1,044	1,041	1,046	1,043	1,055
Massachusetts	1,031	1,032	1,030	1,030	1,029	1,031
Michigan	1,043	1,042	1,042	1,043	1,039	1,042
Minnesota	1,027	1,030	1,028	1,034	1,032	1,033
Mississippi	1,030	1,035	1,035	1,032	1,032	1,035
Missouri	1,021	1,018	1,020	1,021	1,022	1,021
Montana	1,048	1,045	1,040	1,026	1,032	1,036
Nebraska	1,069	1,070	1,066	1,063	1,061	1,058
Nevada	1,039	1,043	1,044	1,035	1,039	1,039
New Hampshire	1,028	1,026	1,030	1,029	1,028	1,032
New Jersey	1,038	1,036	1,036	1,037	1,038	1,043
New Mexico	1,045	1,043	1,040	1,042	1,040	1,042
New York	1,031	1,030	1,031	1,031	1,032	1,033
North Carolina	1,036	1,037	1,038	1,040	1,045	1,033
North Dakota	1,083	1,085	1,085	1,080	1,080	1,078
Ohio	1,069	1,067	1,068	1,068	1,069	1,072
Oklahoma	1,043	1,043	1,044	1,041	1,042	1,041
Oregon	1,067	1,073	1,086	1,079	1,076	1,035
Pennsylvania	1,038	1,038	1,038	1,038	1,038	1,040
Rhode Island	1,030	1,030	1,030	1,029	1,029	1,029
South Carolina	1,030	1,030	1,030	1,032	1,031	1,030
South Dakota	1,054	1,054	1,050	1,051	1,049	1,050
Tennessee	1,029	1,030	1,032	1,032	1,029	1,028
Texas	1,030	1,030	1,028	1,029	1,030	1,026
Utah	1,039	1,041	1,041	1,042	1,042	1,043
Vermont	1,022	1,020	1,026	1,024	1,025	1,033
Virginia	1,051	1,051	1,052	1,051	1,055	1,057
Washington	1,083	1,091	1,082	1,077	1,080	1,078
West Virginia	1,055	1,092	1,105	1,094	1,103	1,086
Wisconsin	1,027	1,026	1,029	1,036	1,034	1,035
Wyoming	1,058	1,055	1,053	1,052	1,051	1,055
<b>Total</b>	<b>1,035</b>	<b>1,035</b>	<b>1,035</b>	<b>1,035</b>	<b>1,036</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	2017		2016			
	February	January	Total	December	November	October
Alabama	1,029	1,028	1,029	1,030	1,030	1,031
Alaska	1,000	1,000	1,001	1,000	1,000	1,001
Arizona	1,043	1,042	1,037	1,039	1,034	1,031
Arkansas	1,019	1,018	1,019	1,019	1,021	1,018
California	1,034	1,036	1,035	1,034	1,032	1,033
Colorado	1,060	1,060	1,063	1,059	1,063	1,069
Connecticut	1,026	1,026	1,027	1,026	1,026	1,026
Delaware	1,045	1,047	1,046	1,047	1,045	1,046
District of Columbia	1,049	1,051	1,044	1,045	1,040	1,035
Florida	1,025	1,024	1,023	1,025	1,024	1,023
Georgia	1,033	1,030	1,030	1,031	1,030	1,032
Hawaii	972	955	981	954	947	952
Idaho	1,036	1,036	1,038	1,033	1,036	1,035
Illinois	1,031	1,033	1,031	1,033	1,031	1,029
Indiana	1,034	1,038	1,038	1,035	1,046	1,048
Iowa	1,052	1,052	1,056	1,056	1,059	1,059
Kansas	1,036	1,042	1,034	1,038	1,039	1,037
Kentucky	1,035	1,037	1,030	1,026	1,039	1,027
Louisiana	1,022	1,023	1,024	1,023	1,022	1,022
Maine	1,049	1,037	1,026	1,030	1,018	1,016
Maryland	1,056	1,054	1,051	1,050	1,045	1,042
Massachusetts	1,031	1,031	1,030	1,030	1,029	1,029
Michigan	1,045	1,045	1,041	1,044	1,048	1,047
Minnesota	1,028	1,028	1,037	1,033	1,033	1,037
Mississippi	1,035	1,034	1,031	1,033	1,037	1,032
Missouri	1,022	1,022	1,024	1,024	1,024	1,024
Montana	1,034	1,036	1,034	1,035	1,039	1,029
Nebraska	1,060	1,057	1,059	1,059	1,063	1,068
Nevada	1,040	1,041	1,041	1,041	1,038	1,039
New Hampshire	1,036	1,032	1,029	1,031	1,027	1,028
New Jersey	1,042	1,043	1,041	1,042	1,040	1,038
New Mexico	1,043	1,045	1,046	1,041	1,040	1,039
New York	1,033	1,033	1,031	1,033	1,031	1,030
North Carolina	1,032	1,033	1,035	1,032	1,034	1,039
North Dakota	1,083	1,076	1,083	1,092	1,075	1,072
Ohio	1,071	1,071	1,071	1,073	1,071	1,072
Oklahoma	1,043	1,046	1,049	1,053	1,050	1,050
Oregon	1,035	1,036	1,059	1,038	1,035	1,038
Pennsylvania	1,040	1,041	1,041	1,040	1,039	1,040
Rhode Island	1,029	1,029	1,029	1,028	1,028	1,030
South Carolina	1,031	1,030	1,030	1,031	1,029	1,031
South Dakota	1,051	1,055	1,056	1,052	1,052	1,053
Tennessee	1,031	1,032	1,030	1,033	1,035	1,028
Texas	1,029	1,027	1,030	1,029	1,028	1,030
Utah	1,043	1,043	1,042	1,043	1,042	1,041
Vermont	1,036	1,034	1,024	1,029	1,022	1,019
Virginia	1,052	1,057	1,053	1,054	1,055	1,052
Washington	1,075	1,076	1,078	1,080	1,083	1,081
West Virginia	1,089	1,084	1,097	1,085	1,083	1,083
Wisconsin	1,038	1,041	1,039	1,041	1,033	1,036
Wyoming	1,066	1,060	1,074	1,057	1,056	1,050
<b>Total</b>	<b>1,038</b>	<b>1,039</b>	<b>1,037</b>	<b>1,039</b>	<b>1,037</b>	<b>1,036</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					
	September	August	July	June	May	April
Alabama	1,032	1,031	1,029	1,026	1,028	1,028
Alaska	1,002	1,003	1,003	1,003	1,002	1,001
Arizona	1,034	1,035	1,031	1,031	1,037	1,042
Arkansas	1,020	1,022	1,021	1,020	1,018	1,019
California	1,037	1,038	1,035	1,042	1,021	1,035
Colorado	1,075	1,074	1,072	1,071	1,066	1,065
Connecticut	1,026	1,025	1,025	1,026	1,025	1,026
Delaware	1,046	1,043	1,044	1,042	1,042	1,044
District of Columbia	1,038	1,038	1,038	1,034	1,035	1,040
Florida	1,026	1,026	1,023	1,020	1,021	1,023
Georgia	1,032	1,029	1,028	1,027	1,030	1,028
Hawaii	945	947	967	1,050	1,018	992
Idaho	1,035	1,035	1,028	1,035	1,044	1,056
Illinois	1,028	1,030	1,029	1,027	1,032	1,032
Indiana	1,042	1,047	1,035	1,042	1,038	1,034
Iowa	1,059	1,061	1,057	1,058	1,057	1,053
Kansas	1,038	1,039	1,033	1,034	1,032	1,033
Kentucky	1,030	1,038	1,033	1,025	1,018	1,026
Louisiana	1,026	1,028	1,022	1,023	1,022	1,021
Maine	1,019	1,026	1,023	1,023	1,019	1,024
Maryland	1,046	1,051	1,052	1,046	1,047	1,048
Massachusetts	1,029	1,028	1,028	1,029	1,029	1,029
Michigan	1,047	1,052	1,044	1,041	1,038	1,040
Minnesota	1,038	1,036	1,034	1,044	1,042	1,041
Mississippi	1,034	1,031	1,022	1,030	1,036	1,033
Missouri	1,023	1,024	1,022	1,022	1,021	1,024
Montana	1,034	1,033	1,028	1,029	1,023	1,023
Nebraska	1,069	1,073	1,070	1,064	1,064	1,062
Nevada	1,044	1,045	1,044	1,038	1,039	1,042
New Hampshire	1,026	1,026	1,026	1,028	1,027	1,029
New Jersey	1,038	1,039	1,038	1,037	1,037	1,039
New Mexico	1,048	1,055	1,046	1,049	1,052	1,048
New York	1,030	1,029	1,029	1,030	1,029	1,033
North Carolina	1,037	1,035	1,033	1,034	1,038	1,038
North Dakota	1,061	1,090	1,089	1,070	1,091	1,108
Ohio	1,068	1,067	1,068	1,069	1,070	1,068
Oklahoma	1,053	1,051	1,049	1,046	1,047	1,044
Oregon	1,038	1,046	1,045	1,044	1,043	1,038
Pennsylvania	1,041	1,039	1,040	1,041	1,042	1,042
Rhode Island	1,029	1,028	1,028	1,028	1,029	1,034
South Carolina	1,030	1,030	1,029	1,029	1,030	1,031
South Dakota	1,056	1,057	1,060	1,058	1,054	1,052
Tennessee	1,026	1,025	1,025	1,024	1,031	1,031
Texas	1,034	1,035	1,031	1,027	1,029	1,032
Utah	1,041	1,042	1,042	1,040	1,041	1,042
Vermont	1,016	1,017	1,016	1,025	1,023	1,028
Virginia	1,053	1,054	1,054	1,052	1,054	1,052
Washington	1,076	1,085	1,085	1,080	1,078	1,078
West Virginia	1,103	1,109	1,108	1,118	1,096	1,096
Wisconsin	1,029	1,026	1,026	1,033	1,037	1,038
Wyoming	1,054	1,058	1,053	1,048	1,053	1,055
<b>Total</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>

**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>November to February</b>					
Normal	3,986	3,793	4,258	4,562	2,584
2017	3,513	3,214	3,560	3,826	2,036
2018	3,891	3,717	4,165	4,492	2,409
% Diff (normal to 2018)	-2.4	-2.0	-2.2	-1.5	-6.8
% Diff (2017 to 2018)	10.8	15.7	17.0	17.4	18.3

See footnotes at end of table.

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

	East South Central	West South Central	Mountain	Pacific <sup>b</sup>	
			AZ, CO, ID, MT, NV, NM, UT, WY		
Month/Year/Type of data	AL, KY, MS, TN	AR, LA, OK, TX		CA, OR, WA	U.S. Average <sup>b</sup>
<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>November to February</b>					
Normal	2,637	1,883	3,565	1,841	3,256
2017	1,976	1,271	3,241	1,830	2,754
2018	2,443	1,722	3,067	1,463	3,070
% Diff (normal to 2018)	-7.4	-8.6	-14.0	-20.5	-5.7
% Diff (2017 to 2018)	23.6	35.5	-5.4	-20.1	11.5

<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:

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

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:

$$[\text{Quarterly Daily Shale Production Rate (MMcf/day)} \times \text{Number of Days in Quarter} \times 1000] \times [\text{Month Gross Production Volume} / \text{Quarter Gross Production Volume}]$$

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  $\sum_{i \in s} y_{ij} / \sum_{i \in s} x_{ij}$  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  $\sum_{i \in s} y_{ij} / \sum_{i \in s} x_{ij}$  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:

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

where:

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

$\sigma_e^2 = \sum_{i=1}^n \sigma_{0i}^2 / (n - 1)$ , 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:

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

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,

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

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

$Cov(V_j, R_j)$  = 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, January 2018

State	Volume Relative Standard Error (Percent)				Price (Dollars per Thousand Cubic Feet)		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama	1.1	1.9	1.5	0.9	0.32	0.23	0.12
Alaska	0.7	7.7	0.0	3.0	0.03	0.62	0.00
Arizona	1.6	NA	2.7	NA	0.03	0.08	0.05
Arkansas	0.6	0.1	NA	NA	0.02	0.01	0.07
California	2.2	2.0	0.6	1.0	0.73	0.87	0.72
Colorado	1.0	NA	1.5	NA	0.08	0.10	0.09
Connecticut	0.2	0.7	0.7	0.3	0.04	0.04	0.01
Delaware	NA	NA	0.0	NA	NA	NA	0.00
District of Columbia	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Florida	5.0	3.0	6.1	3.3	0.46	0.57	1.06
Georgia	0.0	0.0	2.5	0.0	0.07	0.06	0.29
Hawaii	0.0	0.0	NA	NA	0.00	0.00	NA
Idaho	0.3	0.4	0.0	0.2	0.06	0.07	0.00
Illinois	1.1	0.7	1.0	0.7	0.09	0.12	0.25
Indiana	2.0	1.6	NA	NA	0.18	0.14	0.73
Iowa	0.6	0.2	2.2	1.0	0.04	0.03	0.35
Kansas	1.2	0.7	2.9	1.3	0.12	0.07	1.43
Kentucky	1.1	1.0	2.6	1.1	0.11	0.11	0.15
Louisiana	1.0	3.5	NA	NA	0.16	0.50	0.10
Maine	2.2	3.5	3.6	2.2	0.48	0.57	0.00
Maryland	0.2	1.3	2.3	0.5	0.06	0.00	NA
Massachusetts	0.1	0.9	1.8	0.4	NA	NA	0.18
Michigan	0.4	0.6	1.2	0.3	0.01	0.05	0.05
Minnesota	0.4	1.2	3.9	1.1	0.09	0.12	0.13
Mississippi	1.7	1.8	6.6	3.6	0.10	NA	0.83
Missouri	1.5	0.8	2.9	1.0	0.09	0.06	0.23
Montana	0.8	NA	0.0	NA	0.03	0.08	NA
Nebraska	1.6	1.3	6.6	2.5	0.20	0.08	0.25
Nevada	0.0	0.0	0.3	0.0	0.00	0.00	0.09
New Hampshire	0.0	0.0	3.6	NA	0.00	0.00	NA
New Jersey	0.0	0.0	NA	NA	0.00	0.00	0.00
New Mexico	1.4	1.2	2.4	0.9	0.06	0.08	0.03
New York	0.0	0.0	2.9	0.0	0.05	0.02	0.29
North Carolina	0.2	0.8	NA	NA	0.18	0.11	NA
North Dakota	0.2	0.2	1.6	0.6	0.01	0.01	0.04
Ohio	0.0	0.0	3.0	0.0	0.04	0.03	NA
Oklahoma	1.2	0.7	1.3	0.7	0.04	0.10	0.56
Oregon	0.0	0.0	1.2	0.4	0.00	0.00	0.00
Pennsylvania	0.5	0.8	1.2	0.4	0.08	0.06	0.20
Rhode Island	0.0	0.0	0.0	0.0	0.00	0.00	0.00
South Carolina	0.9	3.8	2.7	NA	NA	NA	0.42
South Dakota	1.9	1.3	1.6	1.0	0.06	0.05	0.28
Tennessee	1.5	1.2	NA	NA	0.12	0.14	0.19
Texas	NA	1.6	NA	NA	0.22	0.18	0.02
Utah	0.2	1.9	0.1	0.6	0.00	0.00	0.06
Vermont	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Virginia	NA	NA	NA	NA	0.08	0.08	0.43
Washington	0.2	0.5	1.0	0.3	0.03	0.03	0.01
West Virginia	4.6	2.1	2.3	2.1	0.27	0.38	0.86
Wisconsin	0.7	1.2	0.7	0.5	0.06	0.03	0.06
Wyoming	1.5	2.4	5.6	3.2	0.23	0.11	0.06
<b>Total</b>	<b>0.2</b>	<b>0.4</b>	<b>0.5</b>	<b>0.2</b>	<b>0.05</b>	<b>0.04</b>	<b>0.02</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.