



Independent Statistics & Analysis
U.S. Energy Information
Administration

Natural Gas Monthly

November 2018



This report was prepared by the U.S. Energy Information Administration (EIA), the statistical and analytical agency within the U.S. Department of Energy. By law, EIA's data, analyses, and forecasts are independent of approval by any other officer or employee of the United States Government. The views in this report therefore should not be construed as representing those of the Department of Energy or other Federal agencies.

Contacts

The *Natural Gas Monthly* (NGM) is prepared by the U.S. Energy Information Administration (EIA), U.S. Department of Energy (DOE), under the direction of the Director of the Office of Petroleum and Biofuels Statistics, Robert Merriam.

General inquiries about energy data can be directed to EIA's Office of Communications via email at infoctr@eia.gov.

Specific questions about the information in this report may be directed to:

Consumption and Consumer Prices.....	Michael Kopalek (michael.kopalek@eia.gov , 202-586-4001)
Imports and Exports.....	Jose Villar (jose.villar@eia.gov , 202-586-9613)
Natural Gas Production	Jeffrey Little (jeffrey.little@eia.gov , 202-586-6284)
Quality	Vicki Spangler (vicki.spangler@eia.gov , 202-586-8555)
Supplemental Gaseous Fuels	Michael Kopalek (michael.kopalek@eia.gov , 202-586-4001)
Underground Storage	Jose Villar (jose.villar@eia.gov , 202-586-9613)

Other contributors to this report include Sharon Belcher, Bridgette Brown, and Gary Long.

Preface

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.

Contents

Highlights	1
Common Abbreviations	2
Appendices	
A. Explanatory Notes.....	101
B. Data Sources	109
C. Statistical Considerations.....	115
Glossary	125

Tables

1. Summary of Natural Gas Supply and Disposition in the United States, 2013-2018.....	3
2. Natural Gas Consumption in the United States, 2013-2018	5
3. Selected National Average Natural Gas Prices, 2013-2018.....	7
4. U.S. Natural Gas Imports, 2016-2018.....	9
5. U.S. Natural Gas Exports, 2016-2018	14
6. Gross Withdrawals of Natural Gas in Selected States and the Federal Gulf of Mexico, 2013-2018.....	24
7. Marketed Production of Natural Gas in Selected States and the Federal Gulf of Mexico, 2013-2018.....	26
8. Underground Natural Gas Storage - All Operators, 2013-2018	29
9. Underground Natural Gas Storage - by Season, 2016-2018	30
10. Underground Natural Gas Storage - Salt Cavern Storage Fields, 2013-2018.....	31
11. Underground Natural Gas Storage - Storage Fields Other than Salt Caverns, 2013-2018.....	32
12. Net Withdrawals from Underground Storage, by State, 2016-2018	33
13. Activities of Underground Natural Gas Storage Operators, by State, September 2018.....	38
14. Natural Gas Deliveries to Residential Consumers, by State, 2016-2018.....	39
15. Natural Gas Deliveries to Commercial Consumers, by State, 2016-2018	44
16. Natural Gas Deliveries to Industrial Consumers, by State, 2016-2018	49
17. Natural Gas Deliveries to Electric Power Consumers, by State, 2016-2018	54
18. Natural Gas Deliveries to All Consumers, by State, 2016-2018	59
19. Average Citygate Price, by State, 2016-2018	64
20. Average Price of Natural Gas Sold to Residential Consumers, by State, 2016-2018	69
21. Average Price of Natural Gas Sold to Commercial Consumers, by State, 2016-2018.....	74
22. Average Price of Natural Gas Sold to Industrial Consumers, by State, 2016-2018.....	79
23. Average Price of Natural Gas Sold to Electric Power Consumers, by State, 2016-2018.....	84
24. Percentage of Total Deliveries Included in Residential, Commercial, and Industrial Prices, by State, 2016-2018.....	89
25. Heating Value of Natural Gas Consumed, by State, 2016-2018	96
A1. Methodology for Most Recent Monthly Natural Gas Supply and Disposition Data of Tables 1 and 2	101
C1. Standard Error for Natural Gas Deliveries and Price to Consumers by State, September 2018.....	123

Figures

1. Production, Consumption, and Net Imports of Natural Gas in the United States, 2015-2018.....	4
2. Natural Gas Deliveries to Consumers in the United States, 2015-2018.....	6
3. Citygate and Consumer Prices of Natural Gas in the United States, 2015-2018	8
4. Spot Prices of Natural Gas and Natural Gas Plant Liquids in the United States, 2015-2018	8
5. Working Gas in Underground Natural Gas Storage in the United States, 2015-2018	29
6. Percentage of Total Deliveries Included in Residential, Commercial, and Industrial Price Estimates, 2015-2018	95

Highlights

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

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 ^a	Dry Gas Production ^b	Supplemental Gaseous Fuels ^c	Net Imports	Net Storage Withdrawals ^d	Balancing Item ^e	Consumption ^f
2013 Total	29,523	25,562	1,357	24,206	55	1,311	546	38	26,155
2014 Total	31,405	27,498	1,608	25,890	60	1,181	-254	-283	26,593
2015 Total	32,915	28,772	1,707	27,065	59	935	-547	-268	27,244
2016									
January	2,823	2,435	155	2,280	5	105	741	-40	3,092
February	2,654	2,311	147	2,163	5	89	411	-16	2,652
March	2,825	2,442	155	2,287	5	46	53	-34	2,356
April	2,679	2,362	150	2,211	5	63	-171	-25	2,084
May	2,768	2,412	154	2,259	5	60	-337	-21	1,966
June	2,628	2,312	147	2,165	5	59	-229	1	2,001
July	2,721	2,409	153	2,256	5	76	-139	-11	2,187
August	2,723	2,390	152	2,238	5	48	-130	48	2,208
September	2,626	2,297	146	2,151	5	37	-270	25	1,948
October	2,720	2,365	151	2,214	5	55	-316	-32	1,925
November	2,678	2,307	147	2,161	5	3	39	-48	2,159
December	2,747	2,358	150	2,207	5	30	688	-63	2,866
Total	32,592	28,400	1,808	26,592	57	671	340	-216	27,444
2017									
January	2,749	2,355	154	2,202	5	20	687	-13	2,901
February	2,505	2,146	140	2,005	5	*	292	28	2,329
March	2,812	2,431	159	2,272	5	9	281	-39	2,529
April	2,703	2,355	154	2,201	5	-9	-236	-34	1,928
May	2,787	2,430	159	2,271	5	-10	-348	-22	1,897
June	2,693	2,370	155	2,215	5	-14	-287	-8	1,912
July	2,764	2,479	162	2,317	6	2	-155	-37	2,133
August	2,781	2,478	162	2,316	6	1	-201	-17	2,105
September	2,767	2,434	159	2,275	5	-21	-323	-14	1,923
October	2,907	2,550	166	2,384	6	-37	-254	-62	2,037
November	2,884	2,535	165	2,370	6	-45	90	-70	2,351
December	3,006	2,635	172	2,463	6	-22	707	-88	3,066
Total	33,357	29,197	1,906	27,291	66	-125	254	-375	27,110
2018									
January	£2,959	£2,586	171	£2,416	6	3	896	-13	3,308
February	£2,724	£2,385	163	£2,222	6	-36	467	40	2,699
March	£3,048	£2,673	188	£2,485	6	-18	285	13	2,772
April	£2,960	£2,598	184	£2,414	5	-35	-32	-16	2,335
May	£3,082	£2,713	192	£2,521	5	-44	-423	-14	2,046
June	£2,955	£2,641	187	£2,454	6	-31	-349	-31	2,049
July	RE3,108	RE2,784	197	RE2,586	5	-56	-186	R-7	R2,342
August	RE3,182	RE2,847	204	RE2,644	6	R-72	-235	R-28	R2,314
September	£3,134	£2,789	200	£2,590	6	-86	-334	-19	2,156
2018 9-Month YTD	£27,152	£24,016	1,685	£22,331	51	-376	88	-74	22,021
2017 9-Month YTD	24,560	21,477	1,402	20,075	48	-22	-290	-155	19,656
2016 9-Month YTD	24,447	21,370	1,360	20,010	43	583	-69	-73	20,493

^a 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."

^b Equal to marketed production minus NGPL production.

^c 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.

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

^e 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): 74 for 2017; 70 for 2016; 57 for 2015; 27 for 2014; and 54 for 2013. See Appendix A, Explanatory Note 7, for full discussion.

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

* Volume is between -500 MMcf and 500 MMcf.

^R Revised data.

^E Estimated data.

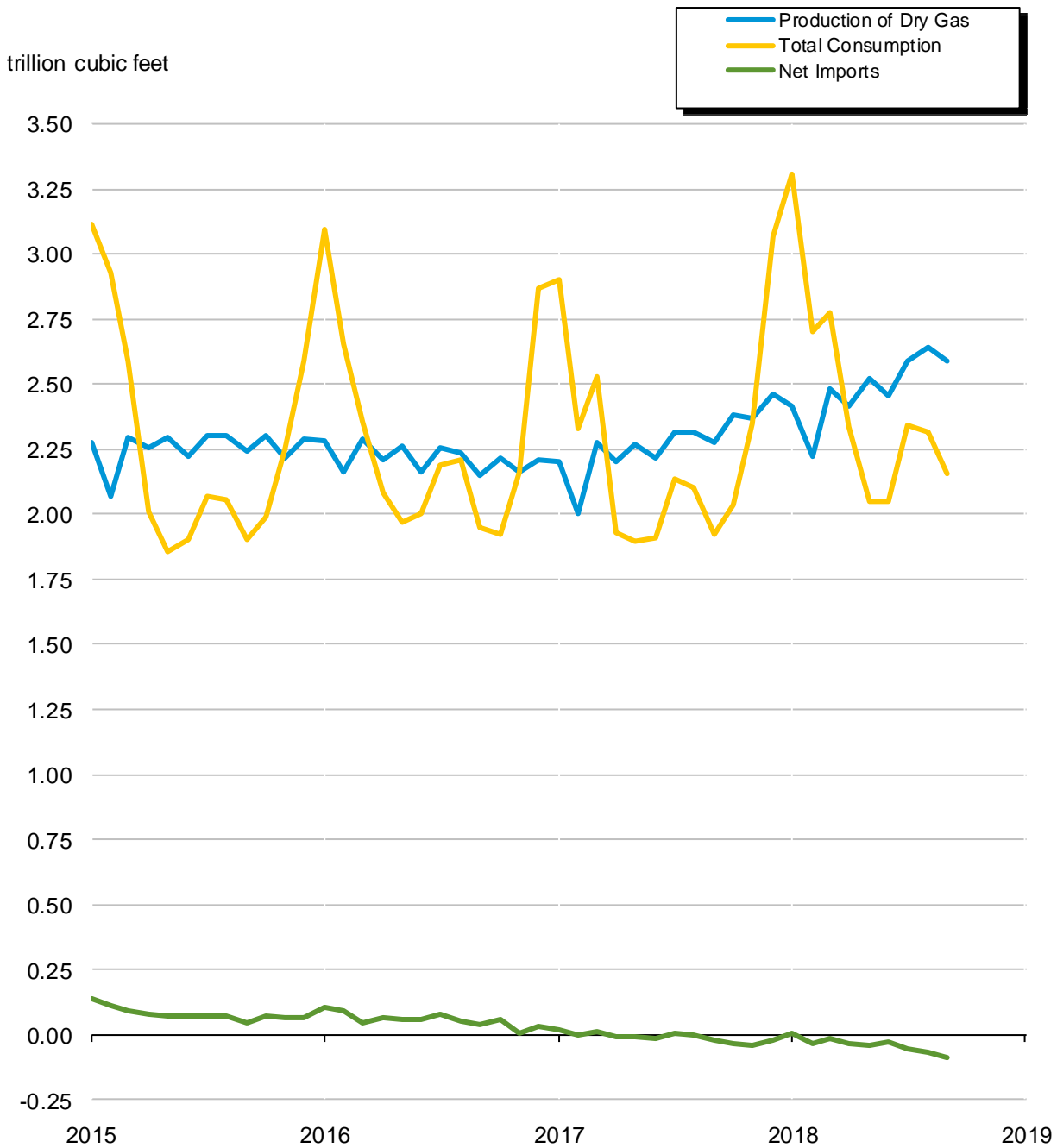
^{RE} Revised estimated data.

Notes: Data for 2013 through 2016 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 states and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: 2013-2017: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2017*. January 2018 through current month: Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report"; Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-191, "Monthly Underground Gas Storage Report"; EIA computations and estimates; and Office of Fossil Energy, "Natural Gas Imports and Exports." See Table 7 for detailed source notes for Marketed Production. See Appendix A, Notes 3 and 4, for discussion of computation and estimation procedures and revision policies.

Figure 1

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



Sources: 2015-2017: Energy Information Administration (EIA), *Natural Gas Annual 2017*. January 2018 through current month: Form EIA-914, "Monthly Crude Oil and 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 ^a	Pipeline and Distribution Use ^b	Delivered to Consumers						Total Consumption	Heating Value ^c (Btu per cubic foot)
			Residential	Commercial	Industrial	Electric Power	Vehicle Fuel	Total		
2013 Total	1,483	833	4,897	3,295	7,425	8,191	30	23,839	26,155	1,027
2014 Total	1,512	700	5,087	3,466	7,646	8,146	35	24,381	26,593	1,032
2015 Total	1,576	678	4,613	3,202	7,522	9,613	39	24,989	27,244	1,037
2016										
January	133	78	879	503	721	774	4	2,881	3,092	1,038
February	126	67	690	414	663	690	3	2,460	2,652	1,038
March	133	59	455	298	663	745	4	2,164	2,356	1,037
April	128	52	328	233	620	719	3	1,904	2,084	1,037
May	131	49	194	171	613	804	4	1,786	1,966	1,034
June	126	50	123	138	590	970	3	1,825	2,001	1,034
July	131	55	106	135	616	1,140	4	2,001	2,187	1,034
August	130	55	100	140	628	1,151	4	2,023	2,208	1,037
September	125	48	110	142	604	915	3	1,774	1,948	1,037
October	129	48	187	191	623	744	4	1,749	1,925	1,036
November	126	54	380	281	654	662	3	1,980	2,159	1,037
December	128	73	794	463	734	671	4	2,665	2,866	1,039
Total	1,545	687	4,347	3,110	7,729	9,985	42	25,212	27,444	1,037
2017										
January	126	78	831	479	735	647	4	2,696	2,901	1,039
February	115	63	579	359	650	559	4	2,152	2,329	1,038
March	130	68	580	372	697	679	4	2,331	2,529	1,037
April	126	51	279	212	632	624	4	1,751	1,928	1,036
May	130	50	199	178	629	706	4	1,717	1,897	1,035
June	127	50	124	138	615	854	4	1,735	1,912	1,035
July	133	56	107	134	624	1,074	4	1,943	2,133	1,035
August	133	56	104	137	638	1,034	4	1,916	2,105	1,035
September	130	51	115	145	616	862	4	1,742	1,923	1,036
October	137	54	205	201	657	780	4	1,847	2,037	1,035
November	136	63	468	322	696	663	4	2,153	2,351	1,037
December	141	83	822	487	761	768	4	2,842	3,066	1,039
Total	1,564	722	4,412	3,164	7,949	9,250	49	24,824	27,110	1,036
2018										
January	£139	£88	975	548	770	785	£4	3,081	3,308	1,038
February	£128	£72	687	420	689	701	£3	2,500	2,699	1,037
March	£143	£74	656	£413	726	756	£4	2,555	2,772	1,037
April	£139	£62	439	299	685	707	£4	2,134	2,335	1,035
May	£145	£54	168	162	659	853	£4	1,846	2,046	1,034
June	£142	£55	119	141	637	952	£4	1,853	2,049	1,035
July	£149	£62	105	135	£653	1,233	£4	£2,131	£2,342	1,035
August	£153	£62	99	141	£656	1,200	£4	£2,100	£2,314	1,034
September	£149	£57	113	145	644	1,044	£4	1,950	2,156	1,035
2018 9-Month YTD	£1,287	£586	3,361	2,404	6,119	8,232	£32	20,148	22,021	1,036
2017 9-Month YTD	1,151	523	2,918	2,154	5,835	7,039	36	17,983	19,656	1,036
2016 9-Month YTD	1,163	513	2,985	2,175	5,718	7,909	31	18,818	20,493	1,037

^a 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.

^b 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.

^c 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.

^R Revised data.

^E Estimated data.

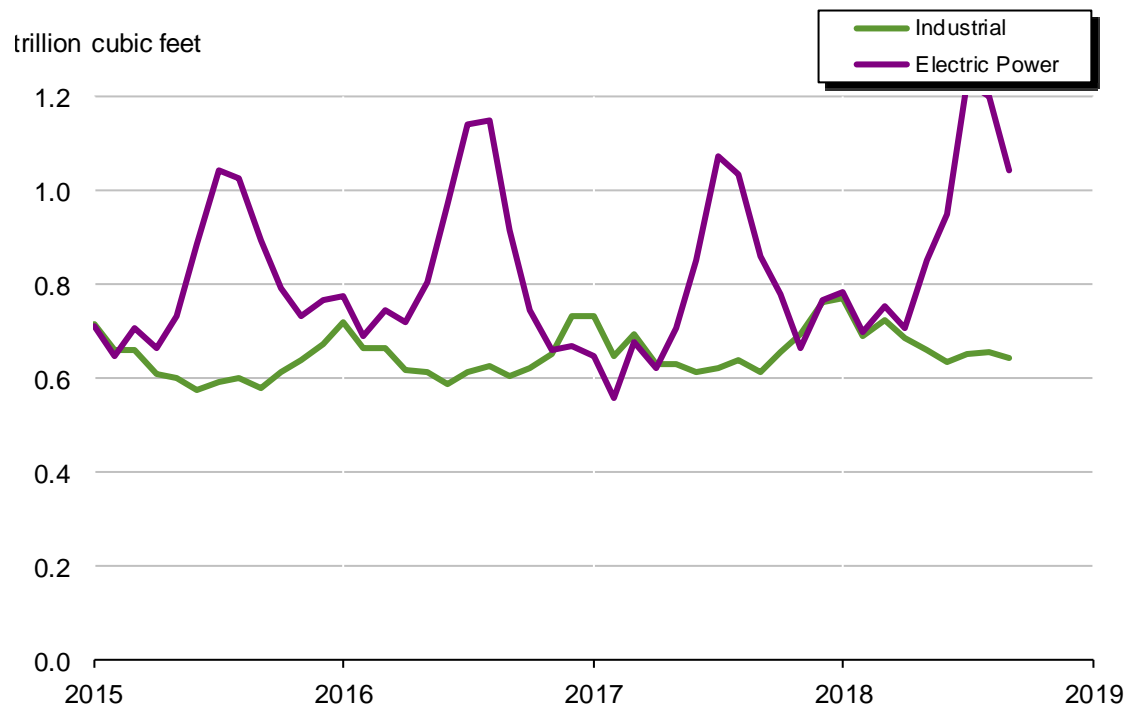
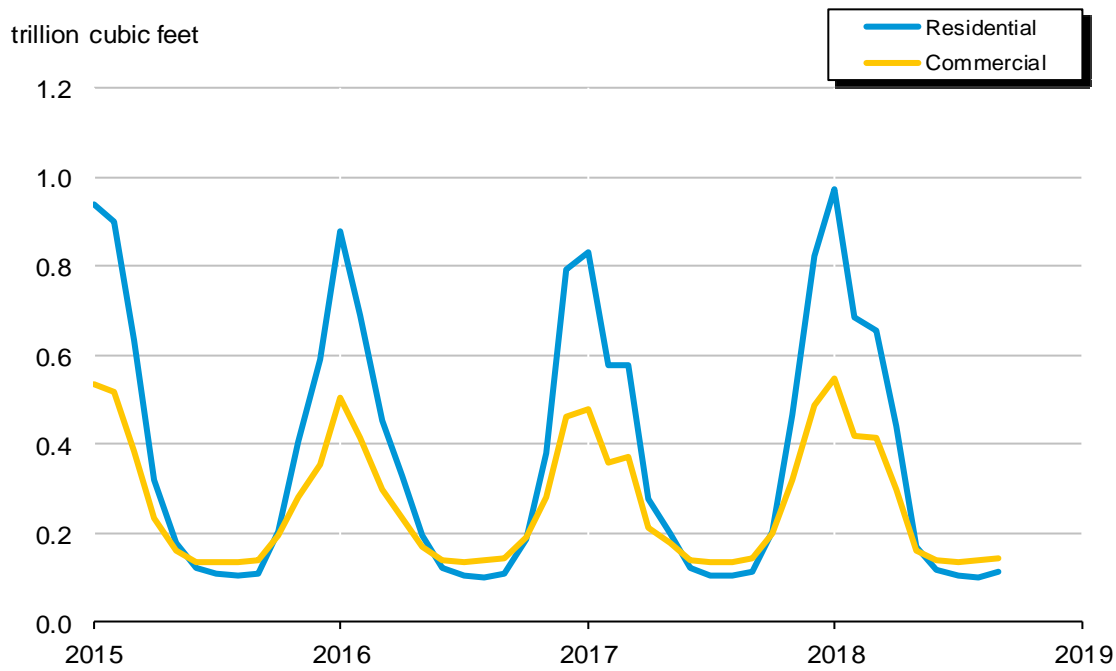
^{RE} Revised estimated data.

Notes: Data for 2013 through 2016 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 states and the District of Columbia. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Note 6, for definition of sectors.

Sources: 2013-2017: U.S. 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 2017*. January 2018 through current month: Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report"; Form EIA-857; Form EIA-923, "Power Plant Operations Report." See Appendix A, Explanatory Note 6, for computation procedures and revision policy.

Figure 2

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



Sources: 2015-2017: 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 2017. January 2018 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 ^a	Natural Gas Spot Price ^b	Citygate Price	Delivered to Consumers						Electric Power Price ^d
				Residential		Commercial		Industrial		
				Price	% of Total ^c	Price	% of Total ^c	Price	% of Total ^c	
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	15.4	3.18
February	3.89	1.99	3.48	8.36	95.8	6.86	69.4	3.58	15.8	2.83
March	4.48	1.73	3.49	9.19	95.6	7.08	66.7	3.02	15.5	2.33
April	4.65	1.92	3.22	9.65	95.6	6.98	65.0	3.00	14.6	2.52
May	5.11	1.92	3.44	11.62	95.4	7.32	60.2	2.90	14.7	2.49
June	5.25	2.59	3.84	14.43	95.7	7.72	58.0	2.89	14.7	2.77
July	4.92	2.82	4.42	16.56	95.9	8.14	56.9	3.57	14.3	3.07
August	4.94	2.82	4.33	17.60	95.8	8.30	54.7	3.59	14.7	3.07
September	5.25	2.99	4.60	16.78	96.0	8.28	56.2	3.74	14.6	3.18
October	6.05	2.98	4.19	13.74	95.9	7.96	59.9	3.87	14.5	3.23
November	5.45	2.55	3.90	10.77	96.0	7.67	63.5	3.86	14.6	3.14
December	6.66	3.59	3.96	9.06	96.0	7.27	68.2	4.27	15.0	4.15
Annual Average	5.04	2.52	3.71	10.05	95.8	7.28	64.8	3.51	14.9	2.99
2017										
January	6.78	3.30	4.21	9.32	95.9	7.58	70.5	4.87	15.0	4.33
February	7.24	2.85	4.13	10.01	95.8	7.89	69.0	4.56	14.9	3.74
March	5.91	2.88	3.84	9.86	95.7	7.68	67.7	3.94	14.9	3.52
April	6.25	3.10	4.20	11.34	95.2	8.04	65.0	4.13	14.5	3.50
May	6.14	3.15	4.42	13.26	95.5	8.31	60.8	4.03	13.9	3.61
June	5.73	2.97	4.82	16.06	94.4	8.75	58.2	4.06	14.5	3.41
July	6.27	2.98	4.73	17.86	95.8	8.81	57.2	3.93	14.6	3.32
August	7.01	2.90	4.61	18.22	95.6	8.76	55.9	3.79	14.2	3.27
September	7.80	2.98	4.52	16.92	96.1	8.52	56.2	3.84	13.7	3.31
October	7.84	2.88	4.03	13.36	96.4	7.97	61.5	3.79	14.2	3.27
November	8.03	3.01	3.97	10.15	96.0	7.51	65.8	3.85	14.5	3.50
December	7.82	2.82	4.00	9.29	96.5	7.42	69.1	4.21	15.0	3.81
Annual Average	6.92	2.99	4.16	10.91	95.9	7.88	65.4	4.10	14.5	3.52
2018										
January	7.91	3.87	4.29	R8.91	96.1	7.43	71.2	4.49	14.9	5.35
February	7.43	2.67	3.99	R9.63	96.0	R7.82	R69.1	4.86	14.6	3.74
March	7.17	2.69	3.71	9.78	95.9	7.74	68.4	4.02	15.0	3.32
April	7.49	2.80	3.64	R10.04	95.6	R7.63	R65.3	R3.90	14.8	3.25
May	8.40	2.80	4.13	R13.66	94.8	8.47	59.7	3.81	R13.9	3.15
June	8.57	2.97	4.46	16.51	95.7	R8.57	R57.7	3.78	R13.8	3.21
July	8.99	2.83	R4.69	R17.92	95.8	8.93	56.1	R3.76	R13.7	3.42
August	9.18	2.96	R4.85	18.63	95.6	8.73	54.9	R3.67	R13.9	3.39
September	10.46	3.00	4.73	17.32	96.2	8.64	56.6	3.75	13.8	3.21
2018 9-Month YTD	8.45	2.94	4.10	10.76	95.9	7.91	65.3	4.03	14.3	3.52
2017 9-Month YTD	6.56	3.01	4.24	11.26	95.7	8.01	64.9	4.15	14.5	3.51
2016 9-Month YTD	4.70	2.34	3.59	10.00	95.8	7.19	64.7	3.33	15.0	2.86

^a 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.

^b 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.

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

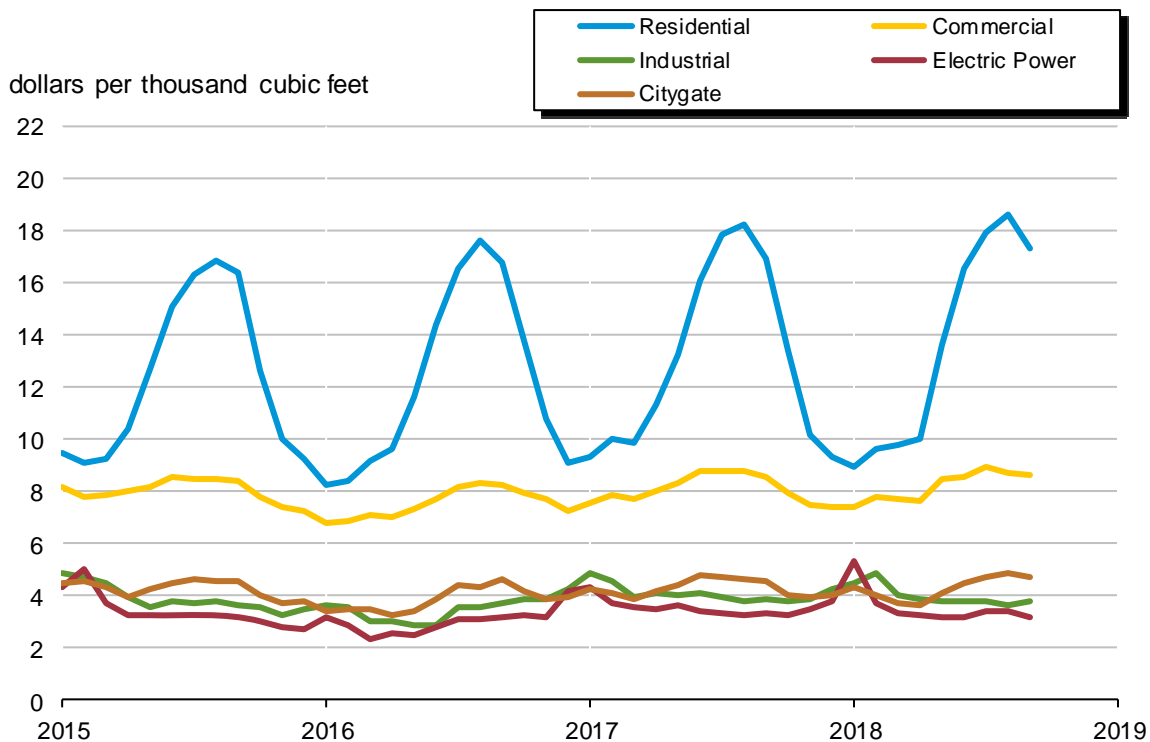
^d The electric power sector comprises electricity-only and combined-heat-and-power plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Data include nonregulated members of the electric power sector.

^R Revised data.

Notes: Prices are in nominal dollars. Data for 2013 through 2016 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 states and the District of Columbia. Published residential, commercial, and industrial prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges.

Sources: 2013-2017: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2017*. January 2018 through current month: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-910, "Monthly Natural Gas Marketer Survey"; Form EIA-923, "Power Plant Operations Report"; Form EIA-816; Bloomberg; Thompson Reuters; and EIA estimates.

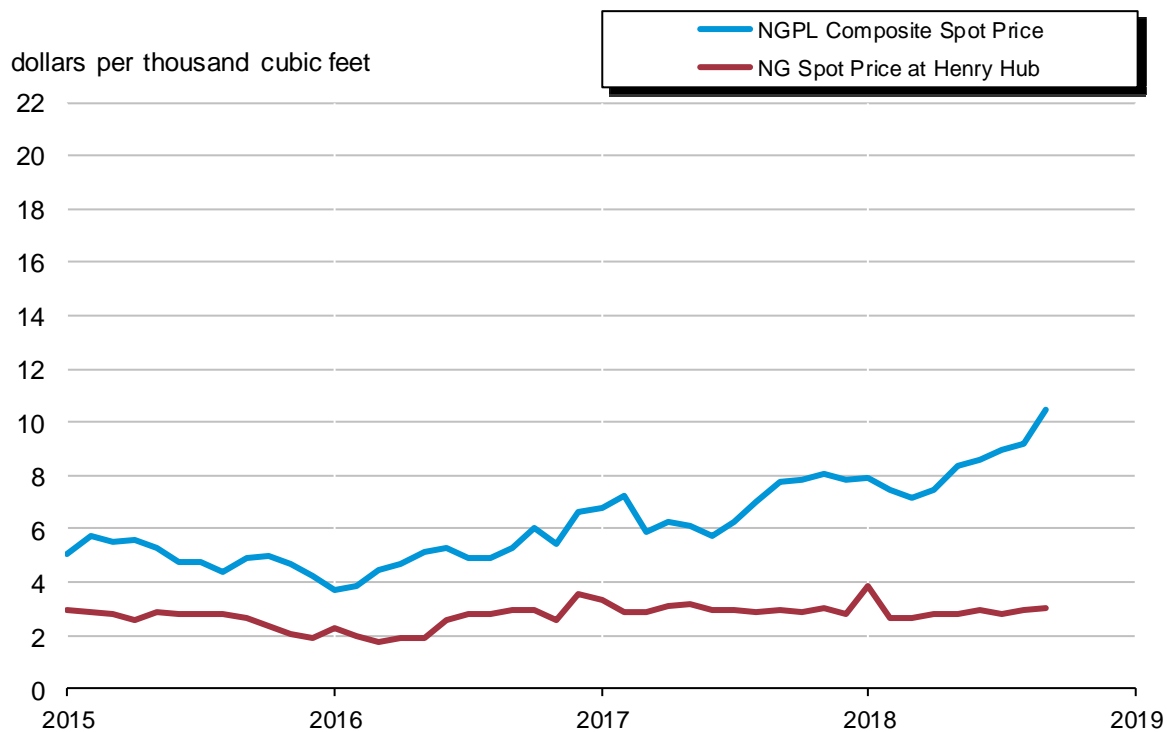
Figure 3. Average citygate and consumer prices of natural gas in the United States, 2015-2018



Note: Prices are in nominal dollars.

Sources: 2015-2017: Energy Information Administration (EIA), *Natural Gas Annual 2017*. January 2018 through current month: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-910, "Monthly Natural Gas Marketer Survey"; Form EIA-923, "Power Plant Operations Report"; Form EIA-816; Bloomberg; Thompson Reuters; and EIA estimates.

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



Note: Prices are in nominal dollars.

Sources: 2015-2017: Energy Information Administration (EIA), *Natural Gas Annual 2017*. January 2018 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 9-Month YTD	2017 9-Month YTD	2016 9-Month YTD	2018				
				September	August	July	June	May
Imports								
Volume (million cubic feet)								
Pipeline								
Canada ^a	2,169,757	2,217,874	2,197,556	212,591	232,986	242,492	227,313	226,355
Mexico	3,103	685	688	68	522	960	240	190
Total Pipeline Imports	2,172,860	2,218,560	2,198,243	212,659	233,508	243,452	227,553	226,545
LNG								
By Truck								
Canada	1,383	1,276	810	194	242	226	216	224
By Vessel								
France	2,768	0	0	0	0	0	0	0
Nigeria	0	2,753	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0	0
Trinidad/Tobago	45,530	54,284	63,877	2,961	5,231	5,376	2,688	2,429
United Kingdom	3,119	0	0	0	0	0	0	0
Total LNG Imports	52,800	58,313	64,687	3,154	5,473	5,602	2,904	2,653
CNG								
Canada	269	262	225	24	23	28	28	27
Total CNG Imports	269	262	225	24	23	28	28	27
Total Imports	2,225,929	2,277,135	2,263,155	215,837	239,004	249,082	230,486	229,226
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.30	2.58	1.98	1.97	2.09	2.02	1.77	1.64
Mexico	4.40	2.69	1.64	3.13	5.49	5.32	2.63	2.22
Total Pipeline Imports	2.30	2.58	1.98	1.97	2.10	2.03	1.77	1.64
LNG								
By Truck								
Canada	8.26	8.73	8.10	8.36	8.32	8.32	8.18	8.27
By Vessel								
France	8.35	--	--	--	--	--	--	--
Nigeria	--	5.82	--	--	--	--	--	--
Norway	--	--	--	--	--	--	--	--
Trinidad/Tobago	5.10	4.35	3.90	4.80	3.50	3.53	4.33	4.27
United Kingdom	13.26	--	--	--	--	--	--	--
Total LNG Imports	5.83	4.51	3.96	5.02	3.72	3.72	4.62	4.61
CNG								
Canada	3.80	3.15	2.05	1.48	1.42	1.31	1.01	1.19
Total CNG Imports	3.80	3.15	2.05	1.48	1.42	1.31	1.01	1.19
Total Imports	2.52	2.74	2.15	2.09	2.22	2.15	1.86	1.73
Net Imports - Volume	-375,931	-21,585	582,928	-86,032	72,282	-56,483	-30,824	-44,069

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

	2018				2017			
	April	March	February	January	Total	December	November	October
Imports								
Volume (million cubic feet)								
Pipeline								
Canada ^a	240,552	267,653	233,056	286,758	2,962,689	266,192	237,197	241,425
Mexico	68	119	805	130	1,346	504	76	81
Total Pipeline Imports	240,620	267,773	233,861	286,889	2,964,035	266,696	237,273	241,506
LNG								
By Truck								
Canada	196	54	21	10	1,569	8	165	120
By Vessel								
France	0	2,768	0	0	0	0	0	0
Nigeria	0	0	0	0	5,992	3,239	0	0
Norway	0	0	0	0	0	0	0	0
Trinidad/Tobago	2,934	3,650	6,750	13,511	70,450	7,617	6,213	2,337
United Kingdom	0	0	0	3,119	0	0	0	0
Total LNG Imports	3,131	6,473	6,771	16,640	78,011	10,864	6,378	2,457
CNG								
Canada	39	42	29	28	345	31	30	22
Total CNG Imports	39	42	29	28	345	31	30	22
Total Imports	243,789	274,287	240,661	303,557	3,042,391	277,590	243,681	243,985
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.11	2.17	2.75	3.78	2.55	2.94	2.40	1.98
Mexico	2.10	2.65	4.38	3.38	2.93	3.42	2.44	2.43
Total Pipeline Imports	2.11	2.17	2.76	3.78	2.55	2.94	2.40	1.98
LNG								
By Truck								
Canada	8.30	7.94	7.17	7.94	8.63	8.19	8.12	8.33
By Vessel								
France	--	8.35	--	--	--	--	--	--
Nigeria	--	--	--	--	6.52	7.11	--	--
Norway	--	--	--	--	--	--	--	--
Trinidad/Tobago	4.33	6.08	5.95	6.18	4.32	4.88	3.47	4.20
United Kingdom	--	--	--	13.26	--	--	--	--
Total LNG Imports	4.57	7.07	5.95	7.51	4.58	5.55	3.59	4.41
CNG								
Canada	2.69	2.14	12.03	10.87	2.95	4.31	1.17	1.06
Total CNG Imports	2.69	2.14	12.03	10.87	2.95	4.31	1.17	1.06
Total Imports	2.20	2.45	3.01	4.40	2.60	3.26	2.52	2.05
Net Imports - Volume	-35,463	-17,692	-35,614	2,528	-125,466	-21,834	-44,673	-37,374

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
	September	August	July	June	May	April	March	February
Imports								
Volume (million cubic feet)								
Pipeline								
Canada ^a	226,738	239,935	245,212	234,061	238,753	232,998	275,573	246,020
Mexico	68	63	80	78	78	79	83	74
Total Pipeline Imports	226,806	239,997	245,292	234,140	238,831	233,077	275,656	246,094
LNG								
By Truck								
Canada	183	226	215	212	220	186	8	8
By Vessel								
France	0	0	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0	0
Trinidad/Tobago	2,467	7,636	4,974	5,425	5,275	4,985	4,870	8,468
United Kingdom	0	0	0	0	0	0	0	0
Total LNG Imports	2,650	7,862	5,189	5,637	5,494	5,171	4,878	8,477
CNG								
Canada	25	28	27	29	28	31	34	26
Total CNG Imports	25	28	27	29	28	31	34	26
Total Imports	229,482	247,888	250,508	239,805	244,353	238,279	280,567	254,597
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.05	2.24	2.31	2.51	2.59	2.53	2.57	2.81
Mexico	2.64	2.31	2.62	2.77	2.62	2.64	2.27	2.94
Total Pipeline Imports	2.05	2.24	2.31	2.51	2.59	2.53	2.57	2.81
LNG								
By Truck								
Canada	8.66	8.69	8.78	8.91	8.88	8.49	7.05	7.22
By Vessel								
France	--	--	--	--	--	--	--	--
Nigeria	--	--	--	--	--	--	--	--
Norway	--	--	--	--	--	--	--	--
Trinidad/Tobago	3.74	3.19	3.21	3.37	3.65	3.56	4.34	6.39
United Kingdom	--	--	--	--	--	--	--	--
Total LNG Imports	4.08	3.34	3.44	3.58	3.86	3.74	4.35	6.39
CNG								
Canada	0.82	0.97	1.19	1.64	1.86	1.76	1.91	6.07
Total CNG Imports	0.82	0.97	1.19	1.64	1.86	1.76	1.91	6.07
Total Imports	2.12	2.38	2.40	2.62	2.70	2.64	2.68	3.14
Net Imports - Volume	-20,798	969	2,080	-13,517	-9,511	-8,973	8,724	-349

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
	January	Total	December	November	October	September	August	July
Imports								
Volume (million cubic feet)								
Pipeline								
Canada ^a	278,584	2,916,856	271,845	221,866	225,588	235,512	253,793	259,132
Mexico	83	917	64	83	83	82	90	92
Total Pipeline Imports	278,666	2,917,774	271,910	221,949	225,671	235,594	253,883	259,224
LNG								
By Truck								
Canada	18	924	16	41	58	72	84	70
By Vessel								
France	0	0	0	0	0	0	0	0
Nigeria	2,753	0	0	0	0	0	0	0
Norway	0	3,253	0	3,253	0	0	0	0
Trinidad/Tobago	10,183	84,190	8,838	5,779	5,696	2,810	7,998	5,703
United Kingdom	0	0	0	0	0	0	0	0
Total LNG Imports	12,955	88,367	8,854	9,073	5,753	2,882	8,082	5,773
CNG								
Canada	35	299	27	22	25	15	17	25
Total CNG Imports	35	299	27	22	25	15	17	25
Total Imports	291,656	3,006,439	280,791	231,044	231,449	238,491	261,983	265,022
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	3.41	2.18	3.31	2.41	2.50	2.42	2.29	2.26
Mexico	3.29	1.85	2.56	2.34	2.50	2.43	2.27	2.45
Total Pipeline Imports	3.41	2.18	3.31	2.41	2.50	2.42	2.29	2.26
LNG								
By Truck								
Canada	9.12	8.07	7.51	7.92	7.93	8.04	8.11	7.95
By Vessel								
France	--	--	--	--	--	--	--	--
Nigeria	5.82	--	--	--	--	--	--	--
Norway	--	3.12	--	3.12	--	--	--	--
Trinidad/Tobago	5.48	4.06	4.62	5.96	3.05	3.13	3.17	3.15
United Kingdom	--	--	--	--	--	--	--	--
Total LNG Imports	5.56	4.07	4.63	4.95	3.10	3.25	3.23	3.21
CNG								
Canada	10.64	1.97	3.24	0.97	0.72	1.22	1.20	1.62
Total CNG Imports	10.64	1.97	3.24	0.97	0.72	1.22	1.20	1.62
Total Imports	3.75	2.24	3.50	2.70	2.59	2.47	2.42	2.35
Net Imports - Volume	19,789	670,991	29,955	3,125	54,983	36,505	47,757	76,339

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					
	June	May	April	March	February	January
Imports						
Volume (million cubic feet)						
Pipeline						
Canada ^a	234,145	243,017	236,451	232,095	241,948	261,462
Mexico	83	72	71	69	70	59
Total Pipeline Imports	234,229	243,088	236,522	232,164	242,019	261,521
LNG						
By Truck						
Canada	118	113	74	65	116	97
By Vessel						
France	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
Norway	0	0	0	0	0	0
Trinidad/Tobago	7,520	5,087	4,693	8,503	9,612	11,951
United Kingdom	0	0	0	0	0	0
Total LNG Imports	7,638	5,200	4,767	8,568	9,728	12,048
CNG						
Canada	19	29	28	33	29	30
Total CNG Imports	19	29	28	33	29	30
Total Imports	241,885	248,317	241,317	240,764	251,775	273,600
Average Price (dollars per thousand cubic feet)						
Pipeline						
Canada	1.76	1.44	1.51	1.55	2.12	2.42
Mexico	1.41	1.10	1.03	0.82	1.22	1.50
Total Pipeline Imports	1.76	1.44	1.51	1.55	2.12	2.42
LNG						
By Truck						
Canada	7.80	7.72	7.88	8.74	8.58	8.21
By Vessel						
France	--	--	--	--	--	--
Nigeria	--	--	--	--	--	--
Norway	--	--	--	--	--	--
Trinidad/Tobago	3.11	3.36	3.23	3.25	5.08	5.45
United Kingdom	--	--	--	--	--	--
Total LNG Imports	3.18	3.45	3.30	3.29	5.12	5.48
CNG						
Canada	0.63	1.10	1.05	1.54	3.27	5.41
Total CNG Imports	0.63	1.10	1.05	1.54	3.27	5.41
Total Imports	1.90	1.55	1.61	1.73	2.43	2.80
Net Imports - Volume	58,872	60,043	63,464	45,849	89,019	105,079

^a 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.

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

^c Revised data.

^d Not applicable.

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

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

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

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

	2018	2017	2016	2018				
	9-Month YTD	9-Month YTD	9-Month YTD	September	August	July	June	May
Exports								
Volume (million cubic feet)								
Pipeline								
Canada	587,644	693,228	555,900	71,613	866,781	57,537	51,603	40,340
Mexico	1,251,196	1,140,715	1,015,129	148,869	152,965	149,766	136,142	138,128
Total Pipeline Exports	1,838,840	1,833,943	1,571,029	220,482	8219,746	207,303	187,745	178,468
LNG								
Exports								
By Vessel								
Argentina	27,560	16,276	16,661	0	10,679	2,939	0	5,392
Bahamas	98	0	0	12	10	11	14	11
Barbados	120	144	45	14	13	10	10	13
Brazil	35,645	10,681	9,196	0	15,425	12,540	0	1,153
Chile	34,233	18,708	26,465	3,675	0	6,525	5,865	0
China	76,155	34,518	3,132	0	3,588	10,644	2,926	10,416
Colombia	5,101	0	0	0	867	1,521	1,113	0
Dominican Republic	5,835	5,856	2,945	0	2,992	0	0	1,023
Egypt	6,554	6,781	0	0	0	0	0	0
India	43,347	10,435	13,801	5,910	0	5,918	6,717	7,118
Israel	3,270	0	0	0	0	0	0	3,270
Italy	6,468	6,493	0	6,468	0	0	0	0
Japan	84,705	32,600	0	16,698	10,286	13,438	9,820	12,782
Jordan	27,738	25,814	6,928	0	3,677	0	3,201	10,572
Kuwait	9,981	20,213	7,068	0	3,485	0	0	6,496
Lithuania	0	6,844	0	0	0	0	0	0
Malta	2,927	867	0	0	0	2,927	0	0
Mexico	157,766	119,239	7,001	10,559	20,708	21,237	26,591	13,512
Netherlands	6,167	3,042	0	2,915	0	0	0	0
Pakistan	12,956	3,166	0	0	0	0	0	3,222
Panama	3,518	0	0	0	0	0	0	2,077
Poland	0	3,440	0	0	0	0	0	0
Portugal	9,214	15,821	3,700	3,670	2,296	0	0	0
South Korea	166,097	66,658	0	24,179	17,467	14,040	13,994	17,735
Spain	3,230	19,362	2,930	0	0	3,230	0	0
Taiwan	13,307	2,949	0	0	0	3,234	3,268	0
Thailand	0	3,113	0	0	0	0	0	0
Turkey	6,992	14,367	2,941	0	0	0	0	0
United Arab Emirates	3,638	13,408	3,391	3,638	0	0	0	0
United Kingdom	9,890	3,410	0	3,624	0	0	0	0
By Truck								
Canada	18	3	2	2	0	0	0	0
Mexico	321	436	243	17	33	26	17	6
Re-Exports								
By Vessel								
Argentina	0	0	612	0	0	0	0	0
Brazil	0	0	1,433	0	0	0	0	0
India	0	0	547	0	0	0	0	0
Mexico	0	0	0	0	0	0	0	0
Total LNG Exports	762,852	464,643	109,040	81,381	91,526	98,240	73,535	94,797
CNG								
Canada	167	134	158	6	15	22	29	30
Total CNG Exports	167	134	158	6	15	22	29	30
Total Exports	2,601,860	2,298,720	1,680,227	301,869	8311,286	305,565	261,309	273,295

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				Total	2017		
	April	March	February	January		December	November	October
Exports								
Volume (million cubic feet)								
Pipeline								
Canada	62,894	68,112	76,908	91,855	917,087	81,050	74,427	68,382
Mexico	130,644	132,301	125,684	136,698	1,543,056	135,756	133,807	132,778
Total Pipeline Exports	193,538	200,413	202,591	228,553	2,460,144	216,807	208,234	201,160
LNG								
Exports								
By Vessel								
Argentina	5,217	3,333	0	0	16,276	0	0	0
Bahamas	8	16	12	4	2	2	0	0
Barbados	8	13	20	20	200	19	20	17
Brazil	3,255	3,272	0	0	17,648	0	0	6,967
Chile	4,987	6,994	3,249	2,938	25,746	3,362	0	3,675
China	17,509	10,739	6,750	13,584	103,410	23,433	20,871	24,588
Colombia	1,599	0	0	0	0	0	0	0
Dominican Republic	0	1,821	0	0	8,691	0	2,835	0
Egypt	0	0	0	6,554	6,781	0	0	0
India	3,254	10,834	0	3,596	20,919	3,427	7,057	0
Israel	0	0	0	0	0	0	0	0
Italy	0	0	0	0	6,493	0	0	0
Japan	10,967	0	7,099	3,615	53,218	13,893	0	6,725
Jordan	3,293	3,694	3,300	0	36,321	7,135	0	3,373
Kuwait	0	0	0	0	20,213	0	0	0
Lithuania	0	0	0	0	6,844	0	0	0
Malta	0	0	0	0	867	0	0	0
Mexico	11,074	28,877	14,777	10,431	140,321	3,635	10,760	6,686
Netherlands	3,253	0	0	0	3,042	0	0	0
Pakistan	3,258	3,108	0	3,368	3,166	0	0	0
Panama	0	1,442	0	0	0	0	0	0
Poland	0	0	0	0	3,440	0	0	0
Portugal	0	0	0	3,247	19,523	0	3,702	0
South Korea	17,996	11,079	28,322	21,286	130,185	20,810	21,141	21,577
Spain	0	0	0	0	29,329	3,370	3,617	2,980
Taiwan	0	0	6,806	0	9,004	0	2,934	3,121
Thailand	0	0	0	0	3,113	0	0	0
Turkey	0	0	3,279	3,714	24,855	3,413	7,076	0
United Arab Emirates	0	0	0	0	13,408	0	0	0
United Kingdom	0	6,267	0	0	3,410	0	0	0
By Truck								
Canada	1	0	15	0	5	0	2	0
Mexico	4	56	56	105	691	105	86	65
Re-Exports								
By Vessel								
Argentina	0	0	0	0	0	0	0	0
Brazil	0	0	0	0	0	0	0	0
India	0	0	0	0	0	0	0	0
Mexico	0	0	0	0	422	0	0	422
Total LNG Exports	85,684	91,542	73,684	72,463	707,542	82,604	80,100	80,195
CNG								
Canada	29	24	0	13	171	13	20	4
Total CNG Exports	29	24	0	13	171	13	20	4
Total Exports	279,252	291,979	276,275	301,029	3,167,857	299,424	288,354	281,359

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							
	September	August	July	June	May	April	March	February
Exports								
Volume (million cubic feet)								
Pipeline								
Canada	69,823	66,342	59,760	66,725	63,949	80,532	99,489	87,798
Mexico	125,724	135,108	135,068	134,118	129,110	116,027	128,774	115,089
Total Pipeline Exports	195,548	201,450	194,828	200,844	193,058	196,559	228,263	202,887
LNG								
Exports								
By Vessel								
Argentina	0	0	0	2,949	3,192	10,135	0	0
Bahamas	0	0	0	0	0	0	0	0
Barbados	14	16	10	16	15	15	20	15
Brazil	3,364	0	3,642	0	3,676	0	0	0
Chile	0	0	3,256	3,657	0	5,894	2,951	2,950
China	10,056	0	7,218	0	3,514	0	0	10,338
Colombia	0	0	0	0	0	0	0	0
Dominican Republic	2,922	0	0	0	0	0	2,934	0
Egypt	0	3,317	3,464	0	0	0	0	0
India	0	0	0	3,413	0	0	0	3,399
Israel	0	0	0	0	0	0	0	0
Italy	0	3,372	0	3,120	0	0	0	0
Japan	0	3,614	0	3,683	3,667	7,398	0	3,705
Jordan	0	7,393	0	0	3,453	0	6,655	2,945
Kuwait	0	0	3,410	0	3,281	6,784	3,360	3,378
Lithuania	3,414	3,431	0	0	0	0	0	0
Malta	0	0	0	0	0	0	0	0
Mexico	10,286	6,860	14,432	24,763	10,023	13,730	10,728	14,407
Netherlands	0	0	0	0	3,042	0	0	0
Pakistan	0	0	0	0	0	0	3,166	0
Panama	0	0	0	0	0	0	0	0
Poland	0	0	0	0	3,440	0	0	0
Portugal	0	3,399	3,662	0	3,625	0	0	1,692
South Korea	17,514	10,320	14,238	7,431	6,818	3,295	7,042	0
Spain	3,666	3,712	217	0	0	0	0	1,766
Taiwan	0	0	0	0	2,949	0	0	0
Thailand	0	0	0	0	0	0	3,113	0
Turkey	3,443	0	0	0	0	0	3,521	7,402
United Arab Emirates	0	0	0	0	10,062	3,347	0	0
United Kingdom	0	0	0	3,410	0	0	0	0
By Truck								
Canada	0	0	0	0	0	0	3	0
Mexico	53	33	44	19	26	70	61	44
Re-Exports								
By Vessel								
Argentina	0	0	0	0	0	0	0	0
Brazil	0	0	0	0	0	0	0	0
India	0	0	0	0	0	0	0	0
Mexico	0	0	0	0	0	0	0	0
Total LNG Exports	54,733	45,468	53,592	52,462	60,782	50,669	43,553	52,042
CNG								
Canada	0	1	8	16	23	24	27	18
Total CNG Exports	0	1	8	16	23	24	27	18
Total Exports	250,280	246,919	248,428	253,322	253,864	247,251	271,843	254,946

See footnotes at end of table.

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

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

	2017							2016
	January	Total	December	November	October	September	August	July
Exports								
Volume (million cubic feet)								
Pipeline								
Canada	98,811	771,094	97,178	74,544	43,471	61,499	55,012	49,750
Mexico	121,696	1,377,305	111,815	120,378	129,984	123,722	132,446	123,173
Total Pipeline Exports	220,508	2,148,399	208,993	194,922	173,455	185,222	187,458	172,923
LNG								
Exports								
By Vessel								
Argentina	0	16,661	0	0	0	0	2,190	0
Bahamas	0	0	0	0	0	0	0	0
Barbados	22	100	22	18	15	14	11	8
Brazil	0	9,196	0	0	0	0	3,933	0
Chile	0	29,405	0	2,940	0	0	9,518	6,074
China	3,391	17,221	6,747	7,341	0	0	0	3,132
Colombia	0	0	0	0	0	0	0	0
Dominican Republic	0	2,945	0	0	0	0	2,945	0
Egypt	0	3,606	3,606	0	0	0	0	0
India	3,623	16,915	0	3,115	0	3,639	3,701	0
Israel	0	0	0	0	0	0	0	0
Italy	0	3,328	0	3,328	0	0	0	0
Japan	10,533	11,137	11,137	0	0	0	0	0
Jordan	5,368	9,870	0	0	2,942	3,362	0	3,566
Kuwait	0	7,068	0	0	0	3,458	0	0
Lithuania	0	0	0	0	0	0	0	0
Malta	867	0	0	0	0	0	0	0
Mexico	14,010	27,470	7,169	13,300	0	3,315	3,686	0
Netherlands	0	0	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0	0	0
Panama	0	0	0	0	0	0	0	0
Poland	0	0	0	0	0	0	0	0
Portugal	3,442	3,700	0	0	0	0	0	0
South Korea	0	10,166	10,166	0	0	0	0	0
Spain	10,002	2,930	0	0	0	0	0	2,930
Taiwan	0	0	0	0	0	0	0	0
Thailand	0	0	0	0	0	0	0	0
Turkey	0	8,762	2,936	2,886	0	2,941	0	0
United Arab Emirates	0	3,391	0	0	0	0	0	0
United Kingdom	0	0	0	0	0	0	0	0
By Truck								
Canada	0	2	0	0	1	0	0	0
Mexico	85	375	42	48	42	35	30	28
Re-Exports								
By Vessel								
Argentina	0	612	0	0	0	0	612	0
Brazil	0	1,433	0	0	0	0	142	0
India	0	547	0	0	0	0	0	0
Mexico	0	0	0	0	0	0	0	0
Total LNG Exports	51,342	186,841	41,825	32,976	3,000	16,764	26,768	15,739
CNG								
Canada	19	208	18	22	11	0	0	20
Total CNG Exports	19	208	18	22	11	0	0	20
Total Exports	271,868	2,335,448	250,836	227,919	176,466	201,986	214,226	188,682

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					
	June	May	April	March	February	January
Exports						
Volume (million cubic feet)						
Pipeline						
Canada	50,715	62,768	62,931	81,403	62,192	69,629
Mexico	115,836	115,606	104,857	103,413	97,234	98,841
Total Pipeline Exports	166,551	178,375	167,789	184,816	159,426	168,470
LNG						
Exports						
By Vessel						
Argentina	8,161	0	6,310	0	0	0
Bahamas	0	0	0	0	0	0
Barbados	2	1	3	2	2	0
Brazil	0	0	0	3,270	1,993	0
Chile	4,643	6,230	0	0	0	0
China	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Dominican Republic	0	0	0	0	0	0
Egypt	0	0	0	0	0	0
India	3,617	0	0	2,844	0	0
Israel	0	0	0	0	0	0
Italy	0	0	0	0	0	0
Japan	0	0	0	0	0	0
Jordan	0	0	0	0	0	0
Kuwait	0	3,610	0	0	0	0
Lithuania	0	0	0	0	0	0
Malta	0	0	0	0	0	0
Mexico	0	0	0	0	0	0
Netherlands	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Panama	0	0	0	0	0	0
Poland	0	0	0	0	0	0
Portugal	0	0	3,700	0	0	0
South Korea	0	0	0	0	0	0
Spain	0	0	0	0	0	0
Taiwan	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Turkey	0	0	0	0	0	0
United Arab Emirates	0	0	0	3,391	0	0
United Kingdom	0	0	0	0	0	0
By Truck						
Canada	0	0	0	0	0	2
Mexico	22	33	23	24	24	25
Re-Exports						
By Vessel						
Argentina	0	0	0	0	0	0
Brazil	0	0	0	0	1,290	0
India	0	0	0	547	0	0
Mexico	0	0	0	0	0	0
Total LNG Exports	16,445	9,874	10,036	10,078	3,309	26
CNG						
Canada	18	25	28	21	22	25
Total CNG Exports	18	25	28	21	22	25
Total Exports	183,013	188,274	177,853	194,915	162,757	168,521

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 9-Month YTD	2017 9-Month YTD	2016 9-Month YTD	2018				
				September	August	July	June	May
Exports								
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	3.07	3.15	2.37	2.92	2.97	2.83	2.75	2.63
Mexico	3.16	3.24	2.46	3.00	3.21	3.03	3.03	3.09
Total Pipeline Exports	3.13	3.21	2.43	2.98	3.14	2.98	2.96	2.99
LNG								
Exports								
By Vessel								
Argentina	6.01	4.64	4.47	--	6.61	6.91	--	4.59
Bahamas	10.39	--	--	10.39	10.39	10.39	10.39	10.39
Barbados	10.39	10.40	10.26	10.39	10.39	10.39	10.39	10.39
Brazil	6.05	4.15	4.39	--	5.79	5.90	--	6.48
Chile	4.28	6.12	5.26	3.46	--	6.77	3.44	--
China	4.32	4.33	5.66	--	3.38	3.53	6.56	4.31
Colombia	4.86	--	--	--	6.49	6.70	3.44	--
Dominican Republic	3.91	4.57	5.41	--	3.38	--	--	6.80
Egypt	3.27	4.93	--	--	--	--	--	--
India	4.72	4.48	4.73	4.76	--	6.83	3.44	3.37
Israel	6.48	--	--	--	--	--	--	6.48
Italy	4.99	3.95	--	4.99	--	--	--	--
Japan	6.71	6.78	--	7.13	8.25	6.86	6.34	7.11
Jordan	4.24	4.46	5.78	--	3.38	--	6.85	3.37
Kuwait	6.67	4.38	4.40	--	6.49	--	--	6.76
Lithuania	--	3.84	--	--	--	--	--	--
Malta	6.70	4.70	--	--	--	6.70	--	--
Mexico	4.56	4.94	4.85	4.40	5.04	4.06	4.58	5.47
Netherlands	6.45	6.35	--	6.58	--	--	--	--
Pakistan	5.60	3.14	--	--	--	--	--	6.63
Panama	5.30	--	--	--	--	--	--	6.80
Poland	--	4.26	--	--	--	--	--	--
Portugal	4.26	6.20	3.58	3.46	6.94	--	--	--
South Korea	4.20	4.05	--	3.86	3.38	3.58	3.44	3.84
Spain	6.70	5.32	4.92	--	--	6.70	--	--
Taiwan	6.25	4.43	--	--	--	6.70	6.56	--
Thailand	--	3.14	--	--	--	--	--	--
Turkey	3.77	5.54	3.41	--	--	--	--	--
United Arab Emirates	3.46	3.87	4.18	3.46	--	--	--	--
United Kingdom	5.00	3.87	--	3.46	--	--	--	--
By Truck								
Canada	12.81	8.39	7.41	8.23	--	--	--	--
Mexico	8.06	9.10	9.72	7.62	9.81	8.80	7.04	7.18
Re-Exports								
By Vessel								
Argentina	--	--	4.51	--	--	--	--	--
Brazil	--	--	3.64	--	--	--	--	--
India	--	--	3.98	--	--	--	--	--
Mexico	--	--	--	--	--	--	--	--
Total LNG Exports	4.91	4.84	4.80	4.78	5.33	5.28	4.65	5.03
CNG								
Canada	3.87	5.19	3.30	2.98	2.89	2.88	2.63	2.75
Total CNG Exports	3.87	5.19	3.30	2.98	2.89	2.88	2.63	2.75
Total Exports	3.65	3.54	2.58	3.46	3.78	3.72	3.43	3.70

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			
	April	March	February	January	Total	December	November	October
Exports								
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.90	2.63	3.16	4.18	3.12	3.19	2.99	2.78
Mexico	3.01	3.00	3.41	3.64	3.26	3.34	3.29	3.28
Total Pipeline Exports	2.97	2.87	3.31	3.86	3.20	3.28	3.18	3.11
LNG								
Exports								
By Vessel								
Argentina	5.56	6.28	--	--	4.64	--	--	--
Bahamas	10.39	10.39	10.39	10.39	10.40	10.40	--	--
Barbados	10.39	10.39	10.39	10.39	10.40	10.40	10.40	10.40
Brazil	6.33	7.46	--	--	4.15	--	--	4.14
Chile	4.76	3.15	4.34	3.27	5.43	3.68	--	3.56
China	3.67	4.20	5.93	4.84	4.32	4.87	4.60	3.56
Colombia	3.21	--	--	--	--	--	--	--
Dominican Republic	--	3.15	--	--	4.15	--	3.30	--
Egypt	--	--	--	3.27	4.93	--	--	--
India	6.33	5.22	--	3.27	4.84	6.80	4.41	--
Israel	--	--	--	--	--	--	--	--
Italy	--	--	--	--	3.95	--	--	--
Japan	4.95	--	7.46	3.27	6.13	5.87	--	3.56
Jordan	6.63	3.15	4.34	--	4.40	3.68	--	5.45
Kuwait	--	--	--	--	4.38	--	--	--
Lithuania	--	--	--	--	3.84	--	--	--
Malta	--	--	--	--	4.70	--	--	--
Mexico	3.98	4.32	4.85	4.43	4.93	3.68	4.85	5.54
Netherlands	6.33	--	--	--	6.35	--	--	--
Pakistan	6.33	6.28	--	3.27	3.14	--	--	--
Panama	--	3.15	--	--	--	--	--	--
Poland	--	--	--	--	4.26	--	--	--
Portugal	--	--	--	3.27	5.65	--	3.29	--
South Korea	3.66	3.15	5.85	5.31	4.18	4.20	4.60	4.15
Spain	--	--	--	--	4.94	5.73	3.29	3.56
Taiwan	--	--	5.89	--	4.77	--	6.41	3.56
Thailand	--	--	--	--	3.14	--	--	--
Turkey	--	--	4.34	3.27	4.84	3.68	3.98	--
United Arab Emirates	--	--	--	--	3.87	--	--	--
United Kingdom	--	5.89	--	--	3.87	--	--	--
By Truck								
Canada	7.79	--	13.63	19.21	8.05	--	7.35	--
Mexico	6.40	8.03	8.43	7.49	8.74	8.11	7.94	8.43
Re-Exports								
By Vessel								
Argentina	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--	--
Mexico	--	--	--	--	5.00	--	--	5.00
Total LNG Exports	4.56	4.45	5.62	4.34	4.69	4.74	4.47	4.02
CNG								
Canada	4.29	3.48	--	12.47	4.76	6.53	1.38	1.00
Total CNG Exports	4.29	3.48	--	12.47	4.76	6.53	1.38	1.00
Total Exports	3.46	3.37	3.93	3.97	3.54	3.68	3.54	3.37

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							
	September	August	July	June	May	April	March	February
Exports								
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.88	2.84	2.90	3.02	3.16	3.19	3.01	3.22
Mexico	3.29	3.27	3.22	3.13	3.20	3.27	2.93	3.24
Total Pipeline Exports	3.14	3.13	3.12	3.10	3.19	3.24	2.97	3.23
LNG								
Exports								
By Vessel								
Argentina	--	--	--	3.87	4.77	4.82	--	--
Bahamas	--	--	--	--	--	--	--	--
Barbados	10.40	10.40	10.40	10.40	10.40	10.40	10.40	10.40
Brazil	3.55	--	4.23	--	4.63	--	--	--
Chile	--	--	3.67	6.46	--	6.65	6.26	7.18
China	3.99	--	3.67	--	4.62	--	--	4.92
Colombia	--	--	--	--	--	--	--	--
Dominican Republic	3.55	--	--	--	--	--	5.59	--
Egypt	--	3.55	6.26	--	--	--	--	--
India	--	--	--	4.67	--	--	--	4.06
Israel	--	--	--	--	--	--	--	--
Italy	--	3.55	--	4.38	--	--	--	--
Japan	--	6.14	--	6.99	6.88	6.92	--	7.18
Jordan	--	3.55	--	--	3.76	--	4.42	4.06
Kuwait	--	--	4.51	--	4.77	4.19	3.14	5.50
Lithuania	3.55	4.13	--	--	--	--	--	--
Malta	--	--	--	--	--	--	--	--
Mexico	3.98	3.55	4.17	4.40	4.67	4.31	5.25	6.40
Netherlands	--	--	--	--	6.35	--	--	--
Pakistan	--	--	--	--	--	--	3.14	--
Panama	--	--	--	--	--	--	--	--
Poland	--	--	--	--	4.26	--	--	--
Portugal	--	4.38	6.26	--	6.35	--	--	7.18
South Korea	4.05	3.59	3.67	3.87	4.88	6.39	3.81	--
Spain	3.55	3.55	6.26	--	--	--	--	7.18
Taiwan	--	--	--	--	4.43	--	--	--
Thailand	--	--	--	--	--	--	3.14	--
Turkey	3.55	--	--	--	--	--	4.60	6.91
United Arab Emirates	--	--	--	--	3.89	3.80	--	--
United Kingdom	--	--	--	3.87	--	--	--	--
By Truck								
Canada	--	--	--	--	--	--	8.39	--
Mexico	8.67	8.94	8.79	9.04	8.90	8.95	8.64	9.97
Re-Exports								
By Vessel								
Argentina	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--	--
Mexico	--	--	--	--	--	--	--	--
Total LNG Exports	3.88	3.88	4.26	4.61	4.80	5.16	4.47	5.99
CNG								
Canada	--	2.50	2.72	3.14	3.39	3.35	3.32	7.73
Total CNG Exports	--	2.50	2.72	3.14	3.39	3.35	3.32	7.73
Total Exports	3.30	3.27	3.37	3.41	3.57	3.63	3.21	3.79

See footnotes at end of table.

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

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

	2017						2016	
	January	Total	December	November	October	September	August	July
Exports								
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	3.85	2.60	3.82	2.71	2.72	2.83	2.65	2.73
Mexico	3.66	2.64	3.51	2.75	3.16	3.06	2.92	2.80
Total Pipeline Exports	3.74	2.63	3.65	2.74	3.05	2.99	2.84	2.78
LNG								
Exports								
By Vessel								
Argentina	--	4.47	--	--	--	--	4.51	--
Bahamas	--	--	--	--	--	--	--	--
Barbados	10.40	10.12	10.00	10.00	10.00	10.00	10.00	10.00
Brazil	--	4.39	--	--	--	--	5.29	--
Chile	--	5.30	--	5.64	--	--	5.53	5.82
China	4.70	4.16	4.50	3.21	--	--	--	5.66
Colombia	--	--	--	--	--	--	--	--
Dominican Republic	--	5.41	--	--	--	--	5.41	--
Egypt	--	6.46	6.46	--	--	--	--	--
India	4.70	4.92	--	5.74	--	5.00	5.01	--
Israel	--	--	--	--	--	--	--	--
Italy	--	6.32	--	6.32	--	--	--	--
Japan	6.65	3.76	3.76	--	--	--	--	--
Jordan	6.41	5.11	--	--	3.52	5.74	--	5.81
Kuwait	--	4.40	--	--	--	5.58	--	--
Lithuania	--	--	--	--	--	--	--	--
Malta	4.70	--	--	--	--	--	--	--
Mexico	7.15	4.56	4.14	4.64	--	5.53	4.23	--
Netherlands	--	--	--	--	--	--	--	--
Pakistan	--	--	--	--	--	--	--	--
Panama	--	--	--	--	--	--	--	--
Poland	--	--	--	--	--	--	--	--
Portugal	7.29	3.58	--	--	--	--	--	--
South Korea	--	5.75	5.75	--	--	--	--	--
Spain	6.28	4.92	--	--	--	--	--	4.92
Taiwan	--	--	--	--	--	--	--	--
Thailand	--	--	--	--	--	--	--	--
Turkey	--	3.53	3.87	3.30	--	3.41	--	--
United Arab Emirates	--	4.18	--	--	--	--	--	--
United Kingdom	--	--	--	--	--	--	--	--
By Truck								
Canada	--	7.50	--	--	7.70	--	--	--
Mexico	9.66	9.81	10.20	9.72	10.06	9.78	9.72	9.76
Re-Exports								
By Vessel								
Argentina	--	4.51	--	--	--	--	4.51	--
Brazil	--	3.64	--	--	--	--	4.57	--
India	--	3.98	--	--	--	--	--	--
Mexico	--	--	--	--	--	--	--	--
Total LNG Exports	6.44	4.71	4.68	4.58	3.65	5.11	5.13	5.63
CNG								
Canada	12.97	3.30	4.72	2.55	2.53	--	--	3.88
Total CNG Exports	12.97	3.30	4.72	2.55	2.53	--	--	3.88
Total Exports	4.25	2.79	3.82	3.00	3.06	3.16	3.13	3.02

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					
	June	May	April	March	February	January
Exports						
Average Price (dollars per thousand cubic feet)						
Pipeline						
Canada	2.23	1.98	2.07	1.99	2.34	2.66
Mexico	2.46	2.06	2.03	1.88	2.20	2.45
Total Pipeline Exports	2.39	2.03	2.04	1.93	2.26	2.54
LNG						
Exports						
By Vessel						
Argentina	4.71	--	4.16	--	--	--
Bahamas	--	--	--	--	--	--
Barbados	10.00	10.00	10.00	15.19	10.00	--
Brazil	--	--	--	3.83	3.54	--
Chile	4.69	4.72	--	--	--	--
China	--	--	--	--	--	--
Colombia	--	--	--	--	--	--
Dominican Republic	--	--	--	--	--	--
Egypt	--	--	--	--	--	--
India	4.77	--	--	3.98	--	--
Israel	--	--	--	--	--	--
Italy	--	--	--	--	--	--
Japan	--	--	--	--	--	--
Jordan	--	--	--	--	--	--
Kuwait	--	3.27	--	--	--	--
Lithuania	--	--	--	--	--	--
Malta	--	--	--	--	--	--
Mexico	--	--	--	--	--	--
Netherlands	--	--	--	--	--	--
Pakistan	--	--	--	--	--	--
Panama	--	--	--	--	--	--
Poland	--	--	--	--	--	--
Portugal	--	--	3.58	--	--	--
South Korea	--	--	--	--	--	--
Spain	--	--	--	--	--	--
Taiwan	--	--	--	--	--	--
Thailand	--	--	--	--	--	--
Turkey	--	--	--	--	--	--
United Arab Emirates	--	--	--	4.18	--	--
United Kingdom	--	--	--	--	--	--
By Truck						
Canada	--	--	--	--	--	7.41
Mexico	9.43	9.67	8.99	8.96	10.16	10.96
Re-Exports						
By Vessel						
Argentina	--	--	--	--	--	--
Brazil	--	--	--	--	3.54	--
India	--	--	--	3.98	--	--
Mexico	--	--	--	--	--	--
Total LNG Exports	4.72	4.21	3.96	4.01	3.59	10.74
CNG						
Canada	2.80	3.22	2.58	3.05	2.42	5.09
Total CNG Exports	2.80	3.22	2.58	3.05	2.42	5.09
Total Exports	2.60	2.15	2.15	2.04	2.28	2.54

^R Revised data.

-- Not applicable.

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

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

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

(million cubic feet)

Year and Month	Alaska	Arkansas	California	Colorado	Kansas	Louisiana	Montana	New Mexico	North Dakota	Ohio
2013 Total	3,215,358	1,139,654	252,310	1,604,860	292,467	2,366,943	63,242	1,247,394	345,787	166,017
2014 Total	3,168,545	1,122,733	238,988	1,643,487	286,480	1,968,618	59,160	1,266,379	463,216	512,371
2015 Total	3,175,301	1,010,382	236,648	1,688,733	284,184	1,813,232	58,240	1,296,793	584,632	1,007,270
2016										
January	298,815	77,592	18,222	144,485	21,498	154,113	4,611	99,998	50,905	116,293
February	273,298	71,658	16,831	133,847	20,005	146,013	4,307	98,407	49,040	108,791
March	295,235	74,247	17,699	142,980	21,399	153,587	4,587	109,588	53,093	116,293
April	246,130	70,504	16,358	139,228	20,338	154,360	4,416	106,101	48,915	114,315
May	269,206	71,555	18,102	143,542	20,897	151,643	4,508	108,921	51,010	118,125
June	233,815	67,073	16,791	135,945	20,067	140,782	4,268	105,475	49,945	114,315
July	239,442	68,009	17,456	139,649	20,594	157,148	4,375	109,500	52,657	125,833
August	250,381	66,959	17,328	142,233	20,344	145,060	4,129	111,476	50,847	125,833
September	249,275	63,989	16,728	136,568	20,854	145,726	4,166	108,062	48,416	121,774
October	271,920	65,709	16,891	145,443	19,989	151,308	4,341	110,173	53,354	126,599
November	294,151	62,826	16,194	140,988	18,898	143,001	4,264	107,020	52,901	122,515
December	308,524	63,075	16,424	143,468	19,911	150,664	4,175	107,945	47,767	126,599
Total	3,230,193	823,196	205,025	1,688,375	244,795	1,793,406	52,146	1,282,666	608,849	1,437,285
2017										
January	301,493	61,608	16,691	142,790	19,044	162,990	4,135	105,653	48,477	132,135
February	275,044	55,911	15,634	128,838	17,280	141,567	3,777	97,589	48,102	119,348
March	308,111	61,608	17,688	142,161	19,077	177,967	4,168	110,479	53,891	132,135
April	286,963	59,905	17,281	136,409	18,063	155,363	4,087	107,283	55,188	132,359
May	286,678	61,319	17,796	138,439	18,451	162,999	4,235	113,939	57,606	136,771
June	248,829	59,366	17,229	134,382	18,281	168,309	4,126	108,071	55,673	132,359
July	205,707	60,612	19,987	140,105	18,854	167,283	4,247	112,631	58,915	159,314
August	221,579	59,937	17,558	143,311	18,600	183,079	4,277	111,163	60,597	159,314
September	255,362	56,568	17,145	140,164	17,969	189,429	4,054	111,084	58,407	154,174
October	283,192	58,056	18,316	147,258	16,696	212,769	4,155	117,049	64,060	173,541
November	282,589	55,511	16,767	142,452	16,056	207,876	3,970	109,644	62,980	167,942
December	295,221	56,890	17,235	151,359	16,108	217,981	3,989	120,322	64,709	173,541
Total	3,250,769	707,292	209,327	1,687,667	214,480	2,147,612	49,218	1,324,909	688,605	1,772,932
2018										
January	296,763	€51,757	€16,821	€151,072	€17,495	€211,270	€3,927	€113,537	€64,221	€183,232
February	268,604	€46,612	€15,370	€136,802	€15,831	€200,831	€3,478	€106,157	€58,668	€171,082
March	295,802	€51,018	€16,903	€151,348	€17,607	€230,892	€3,783	€123,241	€65,547	€190,999
April	282,720	€51,363	€16,313	€148,397	€17,079	€224,143	€3,738	€121,113	€67,360	€184,005
May	282,751	€51,483	€16,948	€154,111	€17,598	€239,895	€3,934	€124,029	€72,213	€191,843
June	229,020	€49,106	€16,421	€144,180	€16,144	€232,868	€3,734	€123,048	€68,891	€186,149
July	234,050	€49,707	RE16,922	RE151,809	RE17,513	RE248,001	RE4,015	RE132,395	RE73,923	RE200,544
August	242,885	€49,826	RE16,895	RE155,490	RE17,168	RE251,404	RE4,039	RE136,045	RE74,922	RE203,137
September	255,600	€48,009	€16,339	€153,280	€16,768	€237,551	€3,916	€130,938	€75,041	€208,644
2018 9-Month YTD	2,388,195	€448,881	€148,931	€1,346,489	€153,204	€2,076,855	€34,564	€1,110,504	€620,787	€1,719,634
2017 9-Month YTD	2,389,766	536,835	157,009	1,246,598	165,620	1,508,986	37,104	977,893	496,856	1,257,909
2016 9-Month YTD	2,355,598	631,587	155,515	1,258,476	185,997	1,348,433	39,366	957,529	454,827	1,061,572

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
2013 Total	1,993,754	3,259,042	8,299,472	470,863	741,853	2,047,757	689,082	1,326,697	29,522,551
2014 Total	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
2015 Total	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
2016									
January	214,000	442,434	709,938	33,692	116,943	163,388	50,050	106,127	2,823,104
February	201,258	426,244	666,642	30,756	109,571	151,068	47,820	98,287	2,653,842
March	214,561	444,309	708,832	32,961	113,695	164,016	49,521	108,380	2,824,983
April	203,524	426,424	681,793	31,448	112,470	155,715	47,633	98,939	2,678,610
May	211,836	439,310	701,679	31,673	116,018	153,550	48,419	107,850	2,767,844
June	202,081	431,137	678,190	29,730	104,660	152,538	46,193	95,158	2,628,164
July	210,617	440,575	693,378	30,376	119,034	143,881	47,486	101,199	2,721,210
August	211,218	439,910	688,855	30,330	121,035	145,537	47,732	103,424	2,722,631
September	202,202	414,330	656,230	28,875	115,466	151,851	46,417	95,284	2,626,213
October	206,225	417,455	675,365	29,216	117,061	160,094	46,916	102,131	2,720,187
November	195,366	431,708	645,281	27,880	116,843	152,711	46,361	99,339	2,678,247
December	195,424	456,371	650,116	28,332	121,664	154,274	47,272	104,539	2,746,543
Total	2,468,312	5,210,209	8,156,296	365,268	1,384,458	1,848,623	571,820	1,220,656	32,591,578
2017									
January	193,927	460,918	648,850	27,703	123,989	148,233	47,062	102,987	2,748,684
February	179,163	415,355	600,163	25,039	112,378	136,489	43,038	90,210	2,504,926
March	207,995	460,321	659,935	27,541	126,645	152,801	46,020	103,119	2,811,662
April	203,362	447,576	645,039	26,632	121,705	148,606	44,942	92,253	2,703,018
May	207,889	458,392	673,537	27,553	131,952	147,115	45,864	96,498	2,787,032
June	203,690	443,483	661,942	26,320	130,111	148,655	44,055	88,406	2,693,285
July	213,003	457,004	692,994	26,480	136,091	151,986	43,157	95,280	2,763,649
August	218,247	450,180	675,036	26,376	143,578	153,381	44,419	90,190	2,780,821
September	211,644	443,450	664,234	25,376	139,445	149,107	43,781	85,952	2,767,345
October	226,421	447,617	690,921	25,908	144,282	154,561	43,669	78,293	2,906,765
November	220,016	473,760	680,803	24,692	142,990	153,924	42,894	79,262	2,884,127
December	228,540	505,832	702,282	25,114	147,884	159,824	43,552	75,679	3,006,062
Total	2,513,897	5,463,888	7,995,736	314,733	1,601,047	1,804,681	532,453	1,078,130	33,357,375
2018									
January	€227,286	€500,205	€682,935	€25,601	€141,628	€150,657	€42,447	€78,466	€2,959,321
February	€210,361	€461,491	€627,460	€23,088	€130,261	€134,640	€39,077	€73,749	€2,723,563
March	€240,653	€504,670	€705,295	€26,087	€146,465	€150,489	€44,572	€82,685	€3,048,056
April	€235,092	€491,030	€692,906	€25,100	€138,210	€145,180	€41,853	€74,284	€2,959,887
May	€243,974	€498,922	€739,934	€25,416	€150,963	€147,038	€43,201	€77,499	€3,081,754
June	€241,563	€493,551	€723,434	€24,670	€143,939	€137,975	€42,150	€78,100	€2,954,943
July	RE252,810	RE525,512	RE759,558	RE25,144	€143,239	RE142,181	€42,429	RE88,346	RE3,108,098
August	RE258,687	RE534,949	RE774,133	RE25,136	RE157,078	RE143,040	€43,750	RE93,859	RE3,182,443
September	€252,947	€531,612	€754,258	€24,369	€155,159	€142,378	€41,646	€85,389	€3,133,845
2018 9-Month YTD	€2,163,374	€4,541,942	€6,459,913	€224,613	€1,306,941	€1,293,579	€381,124	€732,379	€27,151,909
2017 9-Month YTD	1,838,919	4,036,679	5,921,729	239,020	1,165,891	1,336,372	402,338	844,895	24,560,422
2016 9-Month YTD	1,871,297	3,904,674	6,185,535	279,841	1,028,891	1,381,544	431,272	914,648	24,446,601

E Estimated data.

RE 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 2018, Federal Offshore Pacific is included in California. All data for Alaska are obtained directly from the state. Monthly preliminary state-level data for all states not collected individually on the EIA-914 survey are available after the final annual reports for these series are collected and processed. Final annual data are generally available in the third quarter of the following year. The sum of individual states may not equal total U.S. volumes due to independent rounding.

Sources: 2013-2017: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2017*, Bureau of Safety and Environmental Enforcement (BSEE), PointLogic Energy, and BENTEK Energy. January 2018 through current month: Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report"; and EIA computations.

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

Year and Month	Alaska	Arkansas	California	Colorado	Kansas	Louisiana	Montana	New Mexico	North Dakota	Ohio
2013 Total	338,182	1,139,654	252,310	1,604,860	292,467	2,360,202	63,242	1,171,640	235,711	166,017
2014 Total	345,310	1,122,733	238,988	1,643,487	286,480	1,960,813	59,160	1,229,519	326,491	512,371
2015 Total	343,625	1,010,382	236,648	1,688,733	284,184	1,805,197	51,356	1,245,145	471,360	1,007,270
2016										
January	30,686	77,592	18,222	144,191	21,498	153,337	4,267	94,728	43,621	116,293
February	28,434	71,658	16,831	133,677	20,005	145,451	3,960	93,658	42,951	108,791
March	29,898	74,247	17,699	142,795	21,399	152,860	4,214	104,259	47,266	116,293
April	26,258	70,504	16,358	139,031	20,338	153,585	4,083	101,796	44,024	114,315
May	27,088	71,555	18,102	143,350	20,897	150,858	4,086	104,054	44,698	118,125
June	24,882	67,073	16,791	135,713	20,067	139,980	3,987	100,265	44,293	114,315
July	25,025	68,009	17,456	139,430	20,594	156,387	4,045	104,706	46,331	125,833
August	24,969	66,959	17,328	142,030	20,344	144,306	3,618	107,465	44,343	125,833
September	24,970	63,989	16,728	136,361	20,854	144,983	3,770	104,161	42,231	121,774
October	28,546	65,709	16,891	145,195	19,989	150,567	3,993	107,846	44,919	126,599
November	30,380	62,826	16,194	140,755	18,898	142,225	3,977	102,881	46,694	122,515
December	31,612	63,075	16,424	143,226	19,911	149,857	3,922	103,829	40,625	126,599
Total	332,749	823,196	205,025	1,685,755	244,795	1,784,396	47,921	1,229,647	531,997	1,437,285
2017										
January	31,022	61,608	16,691	142,554	19,044	162,163	3,889	101,810	41,899	132,135
February	28,145	55,911	15,634	128,554	17,280	140,873	3,530	94,177	42,317	119,348
March	31,344	61,608	17,688	141,880	19,077	177,195	3,897	108,214	47,675	132,135
April	30,373	59,905	17,281	136,194	18,063	154,875	3,773	104,963	48,931	132,359
May	30,399	61,319	17,796	138,206	18,451	162,291	3,965	111,425	50,770	136,771
June	27,509	59,366	17,229	133,912	18,281	167,599	3,863	105,266	48,471	132,359
July	24,025	60,612	19,987	139,706	18,854	166,507	3,990	110,185	51,351	159,314
August	24,427	59,937	17,558	142,957	18,600	182,309	4,022	108,861	51,769	159,314
September	27,205	56,568	17,145	139,869	17,969	188,756	3,757	108,947	48,483	154,174
October	29,536	58,056	18,316	146,976	16,696	211,980	3,866	114,741	52,713	173,541
November	29,760	55,511	16,767	141,944	16,056	207,106	3,760	106,936	54,010	167,942
December	30,640	56,890	17,235	150,637	16,108	217,263	3,777	117,515	55,665	173,541
Total	344,385	707,292	209,327	1,683,388	214,480	2,138,918	46,090	1,293,040	594,053	1,772,932
2018										
January	31,077	€51,757	€16,821	€150,695	€17,495	€210,425	€3,677	€110,801	€55,403	€183,232
February	27,724	€46,612	€15,370	€136,460	€15,831	€200,028	€3,257	€103,599	€50,613	€171,082
March	30,900	€51,018	€16,903	€150,969	€17,607	€229,968	€3,542	€120,271	€56,547	€190,999
April	28,913	€51,363	€16,313	€148,026	€17,079	€223,247	€3,500	€118,195	€58,111	€184,005
May	28,833	€51,483	€16,948	€153,726	€17,598	€238,935	€3,684	€121,040	€62,299	€191,843
June	26,045	€49,106	€16,421	€143,820	€16,144	€231,937	€3,497	€120,082	€59,432	€186,149
July	26,116	€49,707	RE16,922	RE151,430	RE17,513	RE247,009	RE3,759	RE129,204	RE63,773	RE200,544
August	26,127	€49,826	RE16,895	RE155,101	RE17,168	RE250,398	RE3,782	RE132,766	RE64,635	RE203,137
September	27,050	€48,009	€16,339	€152,897	€16,768	€236,601	€3,667	€127,782	€64,738	€208,644
2018 9-Month YTD	252,785	€448,881	€148,931	€1,343,123	€153,204	€2,068,548	€32,366	€1,083,741	€535,553	€1,719,634
2017 9-Month YTD	254,449	536,835	157,009	1,243,831	165,620	1,502,569	34,687	953,848	431,666	1,257,909
2016 9-Month YTD	242,210	631,587	155,515	1,256,579	185,997	1,341,747	36,029	915,090	399,759	1,061,572

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
2013 Total	1,993,754	3,259,042	7,633,618	470,863	741,853	1,858,207	671,364	1,309,246	25,562,232
2014 Total	2,331,086	4,257,693	7,985,019	454,545	1,067,114	1,794,413	628,854	1,253,678	27,497,754
2015 Total	2,499,599	4,812,983	7,890,459	417,020	1,315,248	1,808,519	592,373	1,291,945	28,772,044
2016									
January	214,000	442,434	622,924	33,692	116,943	147,676	48,850	104,422	2,435,375
February	201,258	426,244	596,319	30,756	109,571	137,429	46,815	96,715	2,310,521
March	214,561	444,309	622,809	32,961	113,695	147,394	48,469	106,846	2,441,976
April	203,524	426,424	612,599	31,448	112,470	140,677	46,664	97,457	2,361,554
May	211,836	439,310	618,479	31,673	116,018	138,420	47,540	106,386	2,412,475
June	202,081	431,137	601,588	29,730	104,660	137,007	45,387	93,331	2,312,288
July	210,617	440,575	624,567	30,376	119,034	130,346	46,573	99,010	2,408,915
August	211,218	439,910	609,656	30,330	121,035	131,856	46,708	101,907	2,389,813
September	202,202	414,330	581,717	28,875	115,466	135,764	45,464	93,762	2,297,402
October	206,225	417,455	594,772	29,216	117,061	143,151	45,933	100,613	2,364,679
November	195,366	431,708	568,877	27,880	116,843	136,200	45,364	97,909	2,307,494
December	195,424	456,371	571,165	28,332	121,664	136,987	46,220	102,311	2,357,556
Total	2,468,312	5,210,209	7,225,472	365,268	1,384,458	1,662,909	559,985	1,200,669	28,400,049
2017									
January	193,927	460,918	562,977	27,703	123,989	125,802	45,868	101,371	2,355,370
February	179,163	415,355	521,489	25,039	112,378	115,936	41,938	88,458	2,145,526
March	207,995	460,321	592,173	27,541	126,645	129,287	44,722	101,586	2,430,983
April	203,362	447,576	583,129	26,632	121,705	131,381	43,761	90,802	2,355,065
May	207,889	458,392	600,541	27,553	131,952	131,989	44,643	95,171	2,429,523
June	203,690	443,483	591,282	26,320	130,111	131,082	42,967	86,831	2,369,620
July	213,003	457,004	621,007	26,480	136,091	134,587	42,014	93,910	2,478,626
August	218,247	450,180	602,991	26,376	143,578	134,827	43,286	88,800	2,478,038
September	211,644	443,450	593,431	25,376	139,445	130,690	42,620	84,476	2,434,007
October	226,421	447,617	623,160	25,908	144,282	137,608	42,363	76,533	2,550,312
November	220,016	473,760	615,496	24,692	142,990	138,440	41,775	78,022	2,534,983
December	228,540	505,832	627,818	25,114	147,884	143,856	42,334	74,340	2,634,990
Total	2,513,897	5,463,888	7,135,494	314,733	1,601,047	1,585,486	518,291	1,060,300	29,197,042
2018									
January	€227,286	€500,205	€609,451	€25,601	€141,628	€132,352	€41,326	€77,172	€2,586,405
February	€210,361	€461,491	€559,945	€23,088	€130,261	€118,281	€38,046	€72,532	€2,384,581
March	€240,653	€504,670	€629,405	€26,087	€146,465	€132,204	€43,395	€81,321	€2,672,927
April	€235,092	€491,030	€618,349	€25,100	€138,210	€127,541	€40,748	€73,059	€2,597,880
May	€243,974	€498,922	€660,317	€25,416	€150,963	€129,173	€42,060	€76,220	€2,713,435
June	€241,563	€493,551	€645,593	€24,670	€143,939	€121,211	€41,037	€76,811	€2,641,008
July	RE252,810	RE525,512	RE677,830	RE25,144	RE143,239	RE124,906	RE41,309	RE86,889	RE2,783,615
August	RE258,687	RE534,949	RE690,836	RE25,136	RE157,078	RE125,661	RE42,595	RE92,310	RE2,847,088
September	€252,947	€531,612	€673,100	€24,369	€155,159	€125,079	€40,546	€83,980	€2,789,288
2018 9-Month YTD	€2,163,374	€4,541,942	€5,764,826	€224,613	€1,306,941	€1,136,409	€371,062	€720,295	€24,016,228
2017 9-Month YTD	1,838,919	4,036,679	5,269,020	239,020	1,165,891	1,165,582	391,819	831,404	21,476,757
2016 9-Month YTD	1,871,297	3,904,674	5,490,657	279,841	1,028,891	1,246,570	422,468	899,836	21,370,319

E Estimated data.

RE Revised estimated data.

Notes: For 2018 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 2018, Federal Offshore Pacific is included in California. All data for Alaska are obtained directly from the state. Monthly preliminary state-level data for all states not collected individually on the EIA-914 survey are available after the final annual reports for these series are collected and processed. Final annual data are generally available in the third quarter of the following year. The sum of individual states may not equal total U.S. volumes due to independent rounding.

Sources: 2013-2017: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2017*, Bureau of Safety and Environmental Enforcement (BSEE), PointLogic Energy, and BENTEK Energy. January 2018 through current month: Form EIA-914, "Monthly Crude Oil and 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 ^c	Volume	Percent	Injections	Withdrawals	Net Withdrawals ^b
2013 Total^c	--	--	--	--	--	3,156	3,702	546
2014 Total^c	--	--	--	--	--	3,839	3,586	-253
2015 Total^c	--	--	--	--	--	3,638	3,100	-539
2016								
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
Total	--	--	--	--	--	2,977	3,325	348
2017								
January	4,378	2,622	7,000	-316	-10.8	113	787	675
February	4,377	2,337	6,715	-197	-7.8	137	422	285
March	4,378	2,063	6,440	-424	-17.0	175	449	274
April	4,379	2,291	6,670	-354	-13.4	352	122	-230
May	4,385	2,627	7,011	-340	-11.5	430	90	-341
June	4,354	2,907	7,261	-279	-8.8	386	105	-281
July	4,356	3,054	7,410	-264	-8.0	303	154	-150
August	4,355	3,250	7,605	-191	-5.6	353	158	-196
September	4,355	3,567	7,923	-138	-3.7	419	103	-317
October	4,354	3,816	8,170	-196	-4.9	378	131	-247
November	4,353	3,709	8,062	-267	-6.7	199	285	86
December	4,360	3,033	7,392	-264	-8.0	91	785	695
Total	--	--	--	--	--	3,337	3,590	254
2018								
January	4,357	2,141	6,498	-481	-18.4	141	1,037	896
February	4,357	1,673	6,030	-664	-28.4	133	599	467
March	4,353	1,391	5,744	-672	-32.6	164	449	285
April	4,350	1,427	5,778	-864	-37.7	256	224	-32
May	4,352	1,848	6,200	-779	-29.7	489	66	-423
June	4,354	2,196	6,550	-711	-24.5	436	88	-349
July	4,355	2,382	6,737	-672	-22.0	362	175	-186
August	4,356	2,617	6,973	-633	-19.5	407	172	-235
September	4,356	2,951	7,306	-617	-17.3	464	130	-334

^a Total underground storage capacity at the end of each calendar year (in billion cubic feet): 2013 – 9,173; 2014 – 9,233; 2015- 9,231; 2016 – 9,239; and 2017 – 9,261. Total storage capacity of existing fields includes both active and inactive fields.

^b Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

^c Total as of December 31.

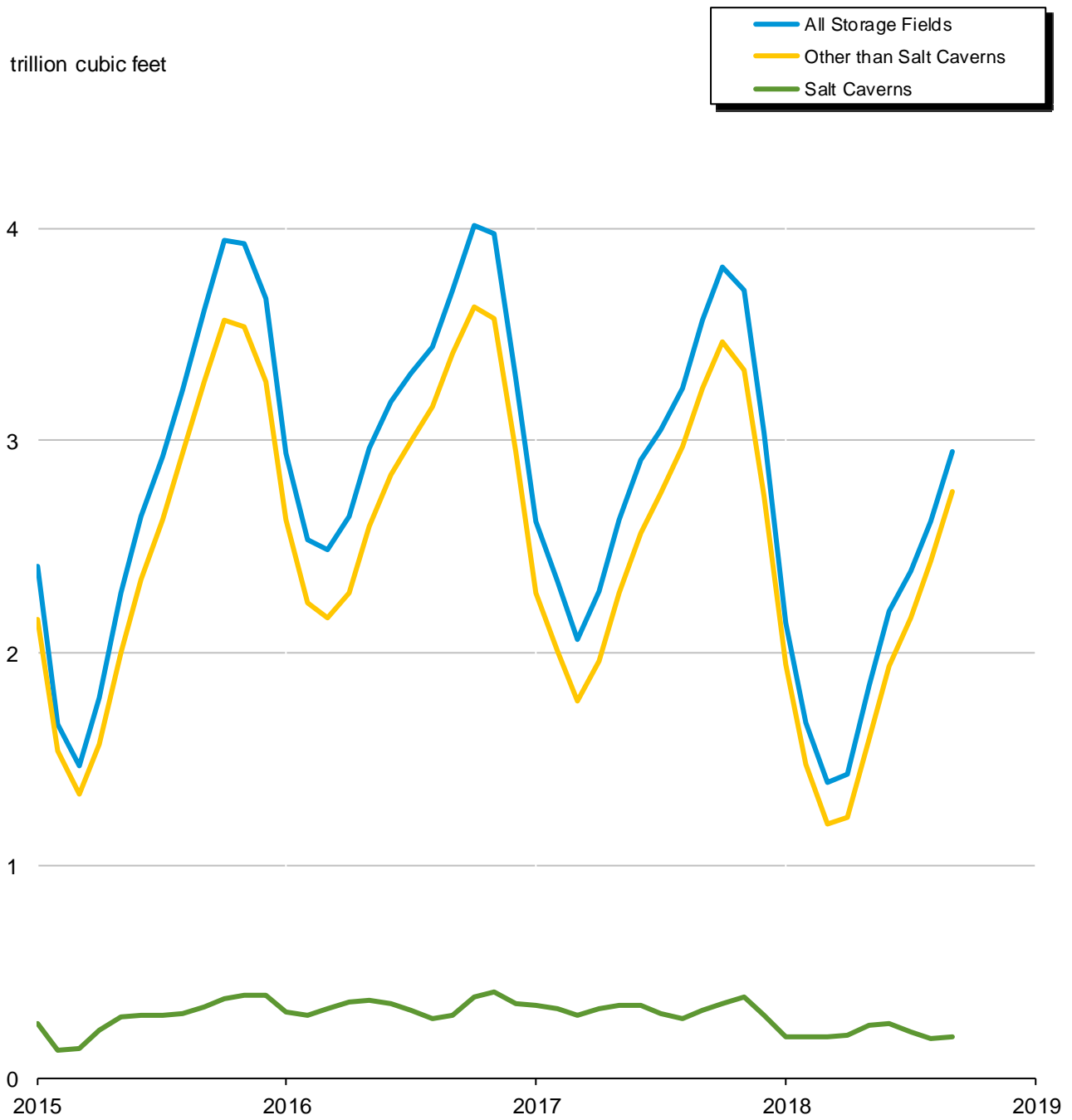
-- Not applicable.

Notes: Data for 2013 through 2016 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: U.S. Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

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

Figure 5



Note: Geographic coverage is the 50 states and the District of Columbia.
Source: Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

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

(volumes in billion cubic feet)

Year, Season, and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net Withdrawals ^a
2016 Refill Season								
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
Total	--	--	--	--	--	2,319	776	-1,543
2017 Heating Season								
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	4,378	2,622	7,000	-316	-10.8	113	787	675
February	4,377	2,337	6,715	-197	-7.8	137	422	285
March	4,378	2,063	6,440	-424	-17.0	175	449	274
Total	--	--	--	--	--	689	2,634	1,945
2017 Refill Season								
April	4,379	2,291	6,670	-354	-13.4	352	122	-230
May	4,385	2,627	7,011	-340	-11.5	430	90	-341
June	4,354	2,907	7,261	-279	-8.8	386	105	-281
July	4,356	3,054	7,410	-264	-8.0	303	154	-150
August	4,355	3,250	7,605	-191	-5.6	353	158	-196
September	4,355	3,567	7,923	-138	-3.7	419	103	-317
October	4,354	3,816	8,170	-196	-4.9	378	131	-247
Total	--	--	--	--	--	2,622	861	-1,761
2018 Heating Season								
November	4,353	3,709	8,062	-267	-6.7	199	285	86
December	4,360	3,033	7,392	-264	-8.0	91	785	695
January	4,357	2,141	6,498	-481	-18.4	141	1,037	896
February	4,357	1,673	6,030	-664	-28.4	133	599	467
March	4,353	1,391	5,744	-672	-32.6	164	449	285
Total	--	--	--	--	--	727	3,155	2,428
2018 Refill Season								
April	4,350	1,427	5,778	-864	-37.7	256	224	-32
May	4,352	1,848	6,200	-779	-29.7	489	66	-423
June	4,354	2,196	6,550	-711	-24.5	436	88	-349
July	4,355	2,382	6,737	-672	-22.0	362	175	-186
August	4,356	2,617	6,973	-633	-19.5	407	172	-235
September	4,356	2,951	7,306	-617	-17.3	464	130	-334

^a Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

-- Not applicable.

Notes: Data for 2016 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: U.S. 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 ^a
2013 Total^b	--	--	--	--	--	492	521	29
2014 Total^b	--	--	--	--	--	634	552	-82
2015 Total^b	--	--	--	--	--	606	550	-56
2016								
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
Total	--	--	--	--	--	593	624	32
2017								
January	195	338	533	26	8.3	69	80	11
February	195	328	522	33	11.0	43	53	10
March	196	292	487	-31	-9.5	51	86	35
April	197	326	523	-32	-9.0	79	43	-36
May	197	343	539	-25	-6.8	65	49	-16
June	196	339	535	-9	-2.7	48	51	4
July	198	304	502	-15	-4.7	32	66	34
August	198	279	477	-2	-0.8	42	67	24
September	197	318	515	23	7.7	79	41	-38
October	197	350	548	-33	-8.5	84	51	-33
November	197	379	576	-24	-5.9	66	38	-28
December	197	297	493	-52	-14.9	44	127	83
Total	--	--	--	--	--	701	752	50
2018								
January	195	192	388	-145	-43.0	84	189	105
February	196	196	392	-131	-40.1	60	55	-5
March	194	193	387	-99	-33.9	57	61	3
April	194	203	397	-123	-37.7	63	54	-8
May	195	249	444	-93	-27.2	79	31	-47
June	195	256	451	-83	-24.6	49	44	-6
July	196	214	410	-90	-29.5	35	77	41
August	196	188	384	-91	-32.7	44	71	27
September	196	191	387	-127	-39.9	65	62	-4
2018 9-Month YTD	--	--	--	--	--	536	643	107
2017 9-Month YTD	--	--	--	--	--	508	536	28
2016 9-Month YTD	--	--	--	--	--	392	478	87

^a Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

^b Total as of December 31.

-- Not applicable.

Notes: Data for 2013 through 2016 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: U.S. 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 ^a
2013 Total^b	--	--	--	--	--	2,664	3,181	517
2014 Total^b	--	--	--	--	--	3,205	3,034	-171
2015 Total^b	--	--	--	--	--	3,032	2,549	-482
2016								
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
Total	--	--	--	--	--	2,384	2,700	316
2017								
January	4,183	2,284	6,468	-342	-13.0	44	708	664
February	4,183	2,010	6,192	-230	-10.2	94	369	275
March	4,182	1,771	5,953	-393	-18.2	124	364	239
April	4,182	1,965	6,147	-322	-14.1	273	79	-194
May	4,188	2,284	6,472	-315	-12.1	365	40	-325
June	4,158	2,568	6,725	-270	-9.5	338	53	-284
July	4,158	2,750	6,908	-249	-8.3	272	88	-184
August	4,158	2,971	7,129	-189	-6.0	311	91	-220
September	4,158	3,250	7,408	-161	-4.7	340	62	-279
October	4,156	3,466	7,622	-164	-4.5	295	80	-215
November	4,156	3,330	7,487	-244	-6.8	133	247	114
December	4,163	2,736	6,899	-212	-7.2	47	659	612
Total	--	--	--	--	--	2,635	2,839	203
2018								
January	4,162	1,948	6,110	-336	-14.7	57	848	791
February	4,161	1,477	5,638	-533	-26.5	73	544	471
March	4,159	1,198	5,357	-573	-32.3	107	388	282
April	4,156	1,224	5,381	-741	-37.7	193	170	-23
May	4,157	1,598	5,755	-686	-30.0	410	35	-376
June	4,159	1,940	6,099	-628	-24.4	387	44	-343
July	4,159	2,167	6,327	-583	-21.2	326	99	-228
August	4,159	2,430	6,589	-541	-18.2	363	101	-262
September	4,160	2,760	6,920	-490	-15.1	398	68	-330
2018 9-Month YTD	--	--	--	--	--	2,314	2,296	-18
2017 9-Month YTD	--	--	--	--	--	2,161	1,853	-308
2016 9-Month YTD	--	--	--	--	--	1,934	1,793	-141

^a Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

^b Total as of December 31.

-- Not applicable.

Notes: Data for 2013 through 2016 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: U.S. 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						
	September	August	July	June	May	April	March
Alabama	3,736	3,070	2,879	1,165	-3,590	-2,801	-2,192
Alaska ^a	-1,536	-1,795	-1,862	-1,749	-856	25	1,020
Arkansas	-522	-931	-793	-838	-917	-193	776
California	-12,150	290	8,376	-18,473	-29,083	-18,639	10,696
Colorado	-4,713	-5,997	-2,338	-6,154	-6,557	127	4,370
Illinois	-42,720	-34,744	-28,754	-29,674	-20,284	7,769	31,354
Indiana	-3,720	-4,155	-2,826	-3,023	-1,240	542	3,497
Iowa	-19,504	-15,538	-1,673	-1,593	-2,828	1,387	6,081
Kansas	-13,872	-13,675	-12,141	-12,300	-12,254	-1,471	9,818
Kentucky	-9,599	-4,460	-2,846	-5,514	-10,612	3,827	312
Louisiana	-20,246	-4,409	7,158	-17,984	-42,445	7,969	7,193
Maryland	-652	-2,598	-2,904	-3,246	-1,661	654	1,983
Michigan	-65,317	-74,298	-76,375	-75,997	-75,307	15,716	77,908
Minnesota	-279	-269	-221	-162	6	112	175
Mississippi	9,728	11,902	13,724	-1,213	-15,259	-3,445	-2,922
Missouri	-244	25	24	25	-345	321	98
Montana	-2,451	-4,466	-4,171	-4,023	-4,084	-591	4,348
Nebraska	-1,400	-839	-633	-887	-2,061	-472	1
New Mexico	-488	1,475	3,751	93	-818	-258	1,785
New York	-14,541	-9,405	-6,908	-8,007	-12,164	-952	14,822
Ohio	-22,743	-25,825	-25,872	-25,869	-26,345	4,379	27,353
Oklahoma	-10,303	-13,480	-5,348	-13,098	-17,878	-6,196	5,470
Oregon	-2,316	431	-1,178	-2,824	-2,644	29	-261
Pennsylvania	-54,224	-28,602	-39,628	-46,334	-50,138	858	60,784
Tennessee	2	-58	-82	-75	-96	-44	-30
Texas	-12,209	28,939	26,147	-22,403	-37,196	-28,408	-15,104
Utah	-5,992	-3,631	-4,035	-6,954	-8,576	-1,893	3,257
Virginia	-176	214	74	-77	-607	-627	1,485
Washington	-2,437	-2,448	1,854	-5,671	-4,561	-2,546	2,206
West Virginia	-22,336	-28,124	-29,175	-33,562	-28,088	-6,014	28,590
Wyoming	-675	-1,874	-612	-2,225	-4,377	-936	136
Regions							
East Region	-114,671	-94,340	-104,413	-117,095	-119,003	-1,702	135,016
South Central Region	-43,688	11,415	31,626	-66,671	-129,540	-34,545	3,039
Midwest Region	-141,382	-133,497	-112,753	-116,013	-110,705	29,630	119,395
Mountain Region	-15,718	-15,332	-8,038	-20,150	-26,473	-4,022	13,898
Pacific Region	-16,903	-1,727	9,052	-26,969	-36,288	-21,156	12,640
Total Lower 48 States	-332,362	-233,482	-184,526	-346,898	-422,008	-31,796	283,988
U.S. Total	-333,898	-235,277	-186,388	-348,648	-422,865	-31,771	285,008

See footnotes at end of table.

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

(million cubic feet) – continued

State	2018			2017			
	February	January	Total	December	November	October	September
Alabama	885	7,522	3,570	2,448	-1,237	-3,630	-561
Alaska ^a	1,988	2,559	-3,585	1,309	1,622	-476	-1,624
Arkansas	616	951	-629	1,220	397	-251	-582
California	25,368	41,978	5,688	37,901	6,223	-4,453	-12,170
Colorado	9,346	9,686	-309	13,278	-4,315	-582	-6,013
Illinois	43,006	64,676	8,410	57,696	-333	-40,165	-41,306
Indiana	4,115	5,357	-69	4,827	-1,525	-2,472	-2,352
Iowa	9,545	19,932	329	20,539	6,240	-20,082	-19,446
Kansas	19,645	23,304	6,142	22,474	-872	-5,986	-5,422
Kentucky	8,578	23,235	15,130	15,659	3,170	-10,110	-8,402
Louisiana	16,429	95,750	26,198	57,784	-10,494	-13,491	-23,167
Maryland	2,961	4,492	-1,045	2,079	816	-533	-1,395
Michigan	107,038	161,641	47,361	121,334	39,265	-34,646	-52,348
Minnesota	290	238	248	298	-9	-232	-242
Mississippi	-12,144	37,691	21,817	29,161	-4,909	-11,495	-17,129
Missouri	-133	-15	248	864	-210	-217	-432
Montana	6,469	7,142	2,360	7,373	3,931	-812	-4,091
Nebraska	1,856	3,298	1,266	2,753	-232	-702	-1,206
New Mexico	3,846	4,077	11,752	4,715	1,939	235	241
New York	15,424	22,793	-3,120	15,467	5,738	-10,854	-13,746
Ohio	24,424	42,463	9,594	33,605	16,388	-3,490	-22,590
Oklahoma	31,221	37,977	23,004	27,244	3,272	-9,766	-4,340
Oregon	2,704	3,193	214	5,113	190	-705	-899
Pennsylvania	53,807	90,102	9,738	61,182	20,680	-31,295	-33,239
Tennessee	25	104	-45	68	5	-31	-42
Texas	36,004	106,822	65,344	84,716	-11,751	-30,361	-16,898
Utah	9,335	14,371	2,594	12,258	-177	-1,600	-4,342
Virginia	-193	-243	912	1,051	-144	-40	-761
Washington	6,762	2,896	1,133	4,053	-191	1,203	-3,610
West Virginia	33,907	58,248	-5,627	43,252	13,698	-11,598	-17,030
Wyoming	3,444	3,503	5,222	3,028	-1,194	1,188	-1,390
Regions							
East Region	130,329	217,855	10,452	156,637	57,175	-57,810	-88,761
South Central Region	92,655	310,017	145,446	225,046	-25,593	-74,980	-68,100
Midwest Region	172,464	275,168	71,612	221,285	46,603	-107,955	-124,569
Mountain Region	34,295	42,077	22,884	43,405	-48	-2,273	-16,801
Pacific Region	34,834	48,067	7,035	47,067	6,222	-3,956	-16,679
Total Lower 48 States	464,577	893,183	257,429	693,440	84,358	-246,975	-314,911
U.S. Total	466,564	895,742	253,844	694,748	85,980	-247,451	-316,535

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	February
Alabama	3,628	3,386	498	169	-1,292	1,420	-1,005
Alaska ^a	-2,476	-2,424	-2,108	-1,525	-1,076	1,572	1,409
Arkansas	-574	-647	-581	-595	-272	772	66
California	1,123	-6,826	-13,935	-23,446	-16,167	-17,258	4,300
Colorado	-2,922	-5,245	-5,660	-4,519	-1,374	1,199	4,859
Illinois	-34,888	-25,184	-32,389	-17,012	4,438	35,264	42,917
Indiana	-2,191	-2,486	-2,782	-1,664	-501	2,040	3,067
Iowa	-11,805	-1,696	-1,917	-1,579	1,288	5,165	8,052
Kansas	656	-2,088	-4,611	-14,016	-10,252	5,246	2,192
Kentucky	-1,317	5,583	1,693	-8,818	-12,511	5,772	7,787
Louisiana	3,696	1,075	-5,251	-19,393	-22,014	22,982	11,892
Maryland	-2,626	-2,873	-2,241	-3,128	-280	3,170	2,048
Michigan	-54,494	-38,760	-57,334	-55,198	-39,909	63,573	47,176
Minnesota	-244	-220	-190	-63	36	342	450
Mississippi	4,913	14,979	-476	-3,259	-8,395	6,585	1,802
Missouri	*	0	*	0	*	100	-20
Montana	-2,393	-3,558	-4,182	-4,160	-2,002	1,137	4,042
Nebraska	-564	-935	182	-1,017	-979	-287	1,408
New Mexico	2,883	1,623	68	-1,257	-1,704	-2,779	1,321
New York	-15,700	-8,367	-12,765	-7,272	-5,894	17,047	12,369
Ohio	-24,349	-26,059	-26,200	-18,721	-5,818	27,859	22,619
Oklahoma	1,626	1,039	-10,437	-13,581	-4,742	-5,893	3,193
Oregon	-702	-545	-1,472	-3,170	-336	-2,364	606
Pennsylvania	-47,206	-37,135	-46,732	-51,111	-33,170	70,898	54,306
Tennessee	11	8	-41	-32	-29	-5	14
Texas	19,068	18,244	-15,267	-37,200	-30,805	1,147	6,329
Utah	-1,449	-3,718	-5,162	-7,294	-2,628	-518	5,334
Virginia	-317	349	45	-513	-310	689	685
Washington	-2,225	329	-2,739	-5,577	-2,596	1,556	4,022
West Virginia	-24,959	-26,009	-26,523	-33,844	-30,240	27,775	29,958
Wyoming	172	-1,694	-2,290	-1,936	-632	234	1,737
Regions							
East Region	-115,156	-100,093	-114,416	-114,589	-75,713	147,438	121,986
South Central Region	33,012	35,989	-36,126	-87,874	-77,772	32,259	24,469
Midwest Region	-104,928	-62,755	-92,960	-84,366	-47,188	112,250	109,443
Mountain Region	-4,273	-13,527	-17,044	-20,183	-9,318	-1,014	18,701
Pacific Region	-1,804	-7,041	-18,145	-32,194	-19,099	-18,066	8,927
Total Lower 48 States	-193,148	-147,426	-278,691	-339,205	-229,091	272,867	283,526
U.S. Total	-195,625	-149,850	-280,799	-340,730	-230,167	274,439	284,935

See footnotes at end of table.

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

(million cubic feet) – continued

State	2017						2016
	January	Total	December	November	October	September	August
Alabama	-254	1,019	3,462	-2,161	-5,368	-597	2,250
Alaska ^a	2,213	-8,322	1,789	872	139	-1,321	-1,997
Arkansas	418	-1,666	739	-86	-152	-318	-564
California	50,395	39,603	43,736	1,937	-8,590	-3,383	4,248
Colorado	10,983	-4,606	11,693	-1,452	-7,324	-5,111	-3,745
Illinois	59,371	5,282	53,639	623	-37,807	-41,363	-33,535
Indiana	5,972	3,478	4,712	-1,533	-2,257	-2,199	-1,850
Iowa	15,571	6,414	22,217	5,150	-18,715	-18,041	-14,078
Kansas	18,823	8,377	21,467	876	-5,573	-8,157	-2,098
Kentucky	16,622	9,205	16,756	51	-4,545	-4,548	-128
Louisiana	22,579	39,572	42,587	-3,970	-51,370	-11,031	18,506
Maryland	3,915	2,916	2,604	893	133	-150	-1,397
Michigan	108,702	57,601	108,495	17,034	-27,683	-54,745	-36,754
Minnesota	321	38	44	14	-104	-197	-228
Mississippi	10,041	26,635	24,501	1,560	-24,918	-3,355	2,651
Missouri	163	-156	365	-210	-405	-290	*
Montana	7,075	-7,364	8,305	2,401	-782	-2,191	-3,465
Nebraska	2,844	785	2,171	721	-1,221	-1,132	-90
New Mexico	4,466	669	4,345	-1,195	-1,530	75	167
New York	20,857	19,233	20,132	4,697	-7,006	-12,209	-3,017
Ohio	36,350	17,390	41,276	14,460	-10,323	-22,602	-23,658
Oklahoma	35,389	11,957	30,817	-5,705	-11,783	-2,082	1,055
Oregon	4,500	1,381	5,032	406	-1,086	-266	-16
Pennsylvania	82,560	68,344	70,114	10,492	-16,859	-43,300	-18,752
Tennessee	31	-66	71	-14	-34	2	2
Texas	78,122	38,656	65,863	-17,919	-50,646	112	21,348
Utah	11,889	-1,208	12,286	-466	-1,542	-3,455	-2,871
Virginia	180	189	212	-211	-163	-185	-504
Washington	6,908	-2,216	3,465	448	-109	-3,266	-2,091
West Virginia	49,893	22,407	44,092	10,686	-7,057	-15,425	-22,388
Wyoming	8,000	-7,349	8,555	-3,105	-3,717	-1,656	-769
Regions							
East Region	193,754	130,479	178,429	41,017	-41,275	-93,871	-69,715
South Central Region	165,118	124,549	189,436	-27,405	-149,809	-25,428	43,149
Midwest Region	206,754	81,797	206,299	21,114	-91,550	-121,381	-86,571
Mountain Region	45,258	-19,074	47,355	-3,096	-16,117	-13,469	-10,773
Pacific Region	61,803	38,769	52,233	2,790	-9,785	-6,916	2,142
Total Lower 48 States	672,686	356,520	673,752	34,420	-308,536	-261,066	-121,769
U.S. Total	674,900	348,198	675,541	35,292	-308,397	-262,387	-123,765

See footnotes at end of table.

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

(million cubic feet) – continued

State	2016						
	July	June	May	April	March	February	January
Alabama	3,115	1,486	-1,536	-3,383	-323	-713	4,787
Alaska ^a	-1,976	-1,468	-1,957	-1,441	-451	-459	-50
Arkansas	-517	-724	-801	-444	438	328	434
California	769	-7,766	-16,700	-17,261	-4,805	7,203	40,217
Colorado	-4,892	-5,512	-5,498	1,334	3,688	2,412	9,800
Illinois	-28,440	-32,072	-26,284	4,551	26,092	50,274	69,604
Indiana	-1,850	-2,226	-2,905	527	1,694	5,259	6,106
Iowa	-1,925	-2,856	-2,349	2,150	4,762	10,674	19,427
Kansas	-7,378	-4,701	-13,272	-7,171	-4,070	11,913	26,541
Kentucky	-2,707	-2,776	-8,262	-16,117	2,150	9,656	19,675
Louisiana	16,049	-2,585	-11,540	-20,296	-14,011	21,175	56,058
Maryland	-1,133	-3,022	-1,671	716	-342	2,294	3,991
Michigan	-35,799	-52,688	-65,480	-13,874	30,025	80,654	108,415
Minnesota	-205	-174	-76	7	515	127	315
Mississippi	7,130	1,758	-7,184	-6,394	-12,187	6,944	36,129
Missouri	0	0	0	0	119	-168	433
Montana	-3,260	-4,908	-5,202	-3,943	-770	2,057	4,394
Nebraska	-151	-16	-1,099	-630	-103	549	1,788
New Mexico	659	-391	-1,615	-1,170	-1,658	1,413	1,568
New York	-3,467	-6,284	-11,257	-1,560	2,483	14,571	22,150
Ohio	-25,774	-26,258	-21,537	-5,040	17,603	32,160	47,082
Oklahoma	-3,398	-3,069	-15,348	-9,402	-5,923	10,070	26,725
Oregon	-887	-511	-2,228	-1,027	-362	481	1,845
Pennsylvania	-21,094	-36,463	-32,012	-5,601	11,919	62,426	87,473
Tennessee	3	-38	-27	-17	-32	-6	25
Texas	18,530	7,624	-29,546	-38,115	-19,445	24,128	56,721
Utah	-2,671	-4,887	-7,374	-814	-1,928	3,685	8,830
Virginia	73	-46	-242	-508	135	17	1,612
Washington	-788	-1,834	-4,392	-2,918	1,935	5,854	1,480
West Virginia	-29,308	-25,938	-27,301	-14,249	11,571	35,666	62,059
Wyoming	-1,773	-3,980	-3,858	-2,386	-139	2,448	3,031
Regions							
East Region	-80,704	-98,011	-94,019	-26,242	43,370	147,134	224,367
South Central Region	33,529	-212	-79,227	-85,205	-55,521	73,846	207,396
Midwest Region	-70,923	-92,831	-105,382	-22,774	65,327	156,470	224,000
Mountain Region	-12,088	-19,694	-24,646	-7,610	-910	12,562	29,411
Pacific Region	-906	-10,112	-23,319	-21,206	-3,232	13,538	43,542
Total Lower 48 States	-131,091	-220,859	-326,593	-163,038	49,034	403,550	728,716
U.S. Total	-133,067	-222,328	-328,551	-164,479	48,583	403,091	728,666

^a Alaska data are not included in the regions' totals or the lower 48 states total.^{*} 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: U.S. Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 13. Activities of underground natural gas storage operators, by state, September 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	8,647	19,097	-8,285	-48.9	1,196	4,931
Alaska ^a	5	83,592	67,915	14,197	38,396	52,593	-246	-0.6	1,599	63
Arkansas	2	21,774	8,894	12,880	4,621	17,501	485	11.7	522	0
California	14	603,808	373,236	230,605	224,882	455,488	-48,119	-17.6	16,978	4,828
Colorado	10	139,627	71,774	60,370	46,401	106,771	-3,485	-7.0	7,585	2,872
Illinois	28	1,008,849	303,613	706,390	203,800	910,190	-7,842	-3.7	42,750	30
Indiana	21	113,659	34,119	79,554	23,649	103,203	406	1.7	3,772	52
Iowa	4	288,210	90,313	197,897	55,518	253,414	-2,505	-4.3	19,504	*
Kansas	16	282,986	122,982	163,852	94,157	258,009	-2,442	-2.5	15,204	1,333
Kentucky	22	221,695	107,596	112,827	70,066	182,894	-11,641	-14.2	10,402	803
Louisiana	19	740,013	449,422	281,494	260,372	541,867	-82,911	-24.2	50,649	30,403
Maryland	1	64,000	18,300	45,677	14,497	60,175	-1,391	-8.8	655	3
Michigan	44	1,071,608	683,820	386,921	487,275	874,195	-121,165	-19.9	65,910	593
Minnesota	1	7,000	2,000	4,848	1,948	6,796	52	2.7	279	0
Mississippi	12	334,092	204,013	124,988	73,765	198,754	-50,571	-40.7	15,455	25,183
Missouri	1	13,845	3,656	10,189	2,416	12,605	-4,068	-62.7	270	26
Montana	4	376,225	197,477	178,501	26,654	205,155	-8,589	-24.4	2,954	503
Nebraska	1	34,850	12,653	22,197	9,353	31,550	-724	-7.2	1,402	2
New Mexico	2	89,100	59,738	29,362	19,688	49,050	-20,353	-50.8	1,368	880
New York	26	245,779	127,492	114,176	90,732	204,909	-11,474	-11.2	15,133	592
Ohio	24	575,794	253,750	321,358	167,083	488,442	-18,158	-9.8	23,480	738
Oklahoma	13	376,528	198,675	177,696	124,195	301,891	-26,885	-17.8	14,491	4,188
Oregon	7	29,565	15,935	12,639	15,722	28,360	-1,867	-10.6	2,316	0
Pennsylvania	49	763,296	427,601	335,612	309,371	644,982	-37,091	-10.7	58,348	4,124
Tennessee	2	2,400	1,800	878	1,516	2,393	213	16.4	0	2
Texas	35	845,081	545,640	293,771	280,303	574,074	-120,751	-30.1	54,465	42,256
Utah	3	124,509	54,942	69,508	41,730	111,238	-6,392	-13.3	6,034	43
Virginia	2	9,500	5,400	4,100	4,027	8,127	-941	-18.9	1,186	1,011
Washington	1	46,900	24,600	22,300	22,399	44,699	-909	-3.9	2,975	538
West Virginia	31	530,837	268,637	262,862	192,322	455,183	-19,062	-9.0	25,184	2,848
Wyoming	9	155,995	74,492	67,671	35,059	102,730	47	0.1	1,538	863
Regions										
East Region	133	2,189,206	1,101,180	1,083,785	778,032	1,861,818	-88,117	-10.2	123,986	9,315
South Central Region	99	2,644,075	1,562,776	1,065,132	846,060	1,911,193	-291,360	-25.6	151,981	108,293
Midwest Region	123	2,727,265	1,226,916	1,499,504	846,187	2,345,691	-146,551	-14.8	142,888	1,506
Mountain Region	29	920,306	471,075	427,609	178,885	606,494	-39,496	-18.1	20,881	5,164
Pacific Region	22	680,273	413,771	265,544	263,003	528,547	-50,895	-16.2	22,269	5,366
Total Lower 48 States	406	9,161,125	4,775,718	4,341,574	2,912,168	7,253,742	-616,418	-17.5	462,006	129,644
U.S. Total	411	9,244,717	4,843,633	4,355,771	2,950,564	7,306,335	-616,665	-17.3	463,605	129,707

^a 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: U.S. 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	2016	2018				
	9-Month YTD	9-Month YTD	9-Month YTD	September	August	July	June	May
Alabama	23,616	16,376	20,862	664	708	682	732	1,127
Alaska	12,567	13,531	10,792	754	590	500	672	1,031
Arizona	24,442	24,914	26,395	1,130	1,047	1,120	1,326	1,729
Arkansas	22,505	16,518	18,620	556	554	501	626	931
California	NA	310,856	285,637	19,331	NA	19,967	22,008	27,006
Colorado	83,772	76,323	82,235	3,259	2,772	2,593	2,720	5,733
Connecticut	36,547	33,923	31,828	1,052	951	1,066	1,325	1,965
Delaware	NA	6,687	6,874	167	166	166	185	345
District of Columbia	8,425	8,177	7,969	250	271	266	253	358
Florida	12,945	10,968	11,863	834	752	811	984	1,146
Georgia	87,972	70,118	81,559	3,884	4,087	3,917	3,984	4,710
Hawaii	450	433	428	45	47	46	50	49
Idaho	16,566	18,310	14,875	734	567	548	656	801
Illinois	291,274	245,851	261,974	8,018	7,334	7,470	8,923	12,347
Indiana	95,453	77,398	83,397	2,470	2,103	2,203	2,006	3,676
Iowa	46,691	39,473	41,929	1,270	1,056	934	1,157	1,788
Kansas	44,812	34,760	35,760	1,512	1,150	1,052	1,344	1,673
Kentucky	34,001	25,984	31,046	852	748	696	755	1,214
Louisiana	26,687	18,614	23,183	1,320	1,121	R1,210	1,245	1,579
Maine	1,991	1,879	1,755	60	54	49	74	114
Maryland	NA	49,503	52,705	1,553	1,474	1,568	1,870	NA
Massachusetts	92,276	82,011	76,833	2,640	R2,360	R2,482	R2,830	R4,480
Michigan	220,979	189,581	197,955	6,542	5,726	5,269	5,752	9,052
Minnesota	NA	80,280	80,538	2,857	2,485	2,218	2,930	NA
Mississippi	16,384	11,434	14,432	553	560	513	498	680
Missouri	74,271	54,948	58,629	1,744	1,662	1,666	1,787	2,294
Montana	NA	13,733	11,630	465	382	357	550	854
Nebraska	28,434	22,725	22,721	676	580	754	780	1,576
Nevada	28,313	29,586	27,598	1,383	1,134	1,234	1,583	1,967
New Hampshire	5,231	4,859	4,681	170	149	136	172	227
New Jersey	166,780	148,089	151,552	4,694	4,311	4,764	5,911	7,617
New Mexico	NA	20,160	22,402	835	876	814	809	NA
New York	330,217	298,628	290,031	10,494	9,705	10,830	12,261	18,783
North Carolina	48,278	35,324	43,603	992	959	937	1,152	1,185
North Dakota	NA	7,020	6,423	211	186	170	255	650
Ohio	193,479	162,408	175,980	4,990	4,620	4,674	4,586	5,877
Oklahoma	43,814	32,636	33,312	1,173	1,101	1,046	1,145	1,511
Oregon	27,443	31,153	23,833	1,238	900	948	1,303	1,523
Pennsylvania	171,690	145,695	147,950	4,405	4,135	4,179	4,554	6,551
Rhode Island	13,219	12,257	11,476	364	379	372	413	459
South Carolina	20,617	14,902	18,827	488	497	476	503	727
South Dakota	NA	8,003	7,728	210	192	205	247	617
Tennessee	50,676	33,848	40,721	1,156	943	1,086	1,130	2,499
Texas	NA	117,499	130,647	5,343	4,833	4,693	5,206	7,939
Utah	42,376	42,177	41,447	1,668	1,574	1,616	2,057	2,342
Vermont	2,768	2,510	2,489	84	72	80	109	179
Virginia	NA	49,876	54,453	1,636	1,519	1,674	1,562	2,274
Washington	53,873	59,021	46,898	2,605	1,567	2,002	2,424	2,812
West Virginia	NA	14,286	15,978	350	299	332	388	NA
Wisconsin	95,517	84,193	85,126	2,914	2,309	2,297	2,626	3,977
Wyoming	NA	8,519	7,714	NA	235	242	308	589
Total	3,360,619	2,917,961	2,985,293	112,870	R99,001	R105,432	R118,728	R167,981

See footnotes at end of table.

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

(million cubic feet) – continued

State	2018					2017			
	April	March	February	January	Total	December	November	October	
Alabama	2,525	3,762	3,781	9,635	26,430	6,211	2,650	1,193	
Alaska	1,481	2,217	2,618	2,705	20,247	2,525	2,613	1,579	
Arizona	2,402	4,675	5,213	5,801	32,821	4,272	2,133	1,502	
Arkansas	2,509	4,139	4,958	7,731	25,704	5,713	2,542	931	
California	32,336	53,606	55,061	58,044	431,005	62,531	33,949	23,669	
Colorado	10,162	14,279	20,245	22,009	118,582	21,054	12,514	8,690	
Connecticut	5,285	7,422	6,900	10,580	48,431	8,288	4,790	1,430	
Delaware	1,091	1,944	1,533	NA	9,896	2,007	953	249	
District of Columbia	943	1,830	1,720	2,532	11,904	2,383	934	410	
Florida	1,564	1,732	2,038	3,084	14,934	1,816	1,226	924	
Georgia	8,852	15,677	12,223	30,637	111,248	22,315	12,094	6,722	
Hawaii	52	52	51	58	572	50	47	43	
Idaho	1,876	3,174	4,018	4,191	28,799	5,273	3,069	2,147	
Illinois	43,614	54,873	64,644	84,051	377,511	69,482	44,367	17,811	
Indiana	13,606	19,900	19,981	29,508	123,847	26,461	14,435	5,553	
Iowa	6,942	8,491	11,176	13,877	60,362	11,284	6,654	2,952	
Kansas	5,924	7,190	11,246	13,720	54,445	10,772	6,674	2,239	
Kentucky	4,207	6,877	6,626	12,026	43,253	9,945	5,305	2,019	
Louisiana	2,436	3,112	4,179	10,485	29,060	6,251	2,659	1,536	
Maine	271	386	403	581	2,748	520	264	85	
Maryland	7,407	13,780	11,424	17,860	75,789	15,141	8,718	2,426	
Massachusetts	12,311	18,621	21,038	25,513	121,181	22,904	12,151	4,115	
Michigan	34,058	46,850	45,396	62,334	299,158	58,028	37,037	14,512	
Minnesota	13,499	17,200	23,096	26,700	123,898	22,061	15,032	6,526	
Mississippi	1,573	2,284	2,613	7,110	18,446	4,142	1,988	882	
Missouri	10,125	13,547	16,785	24,661	86,865	19,244	10,363	2,311	
Montana	1,861	NA	3,510	3,568	21,481	3,627	2,535	1,587	
Nebraska	3,889	4,986	7,053	8,138	34,069	5,967	3,973	1,404	
Nevada	2,839	5,622	6,015	6,537	40,911	6,316	2,973	2,035	
New Hampshire	731	1,089	998	1,557	7,331	1,428	787	257	
New Jersey	22,887	36,896	30,408	49,292	221,608	43,095	21,617	8,807	
New Mexico	2,540	4,537	4,758	6,414	29,993	5,444	2,871	1,517	
New York	47,627	67,187	63,551	89,778	432,451	75,715	42,655	15,453	
North Carolina	4,846	11,140	7,984	19,084	59,933	14,460	8,039	2,110	
North Dakota	1,340	NA	2,132	2,285	11,015	1,938	1,388	669	
Ohio	29,426	42,110	38,429	58,768	258,699	53,080	30,997	12,214	
Oklahoma	5,430	6,380	11,560	14,467	51,069	11,996	4,925	1,511	
Oregon	3,495	5,426	6,356	6,253	47,841	8,213	5,325	3,149	
Pennsylvania	23,138	38,942	33,318	52,469	218,719	42,298	22,852	7,875	
Rhode Island	1,888	2,925	2,433	3,986	18,421	3,485	2,051	628	
South Carolina	1,928	3,931	3,278	8,789	24,558	5,845	2,976	835	
South Dakota	1,415	NA	2,254	2,552	12,146	2,176	1,283	684	
Tennessee	6,231	8,263	9,910	19,458	56,661	14,083	6,831	1,899	
Texas	12,998	23,771	33,600	NA	164,140	25,645	13,224	7,772	
Utah	4,522	9,459	8,505	10,634	66,700	13,023	6,973	4,527	
Vermont	423	516	561	744	3,509	587	301	111	
Virginia	6,645	13,630	11,173	NA	76,904	16,077	8,094	2,857	
Washington	7,275	11,037	11,997	12,154	91,028	14,960	10,582	6,464	
West Virginia	2,457	4,273	3,671	5,563	22,385	4,473	2,611	1,014	
Wisconsin	14,904	18,237	22,356	25,896	131,018	25,210	15,334	6,281	
Wyoming	1,213	1,647	1,968	1,913	12,553	1,801	1,281	951	
Total	438,999	655,699	686,746	975,162	4,412,282	821,617	467,638	205,068	

See footnotes at end of table.

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

(million cubic feet) – continued

State	2017							
	September	August	July	June	May	April	March	February
Alabama	741	656	679	716	928	1,366	3,187	3,240
Alaska	892	601	551	656	983	1,472	2,666	2,521
Arizona	1,145	1,011	1,101	1,324	1,781	2,358	3,702	5,836
Arkansas	586	553	570	621	952	1,168	2,951	3,376
California	17,774	18,026	19,092	20,885	27,252	29,707	40,608	53,982
Colorado	3,557	2,841	2,657	2,955	6,264	8,839	11,822	14,666
Connecticut	1,091	1,025	1,075	1,380	2,231	3,529	7,844	7,199
Delaware	172	158	151	207	350	612	1,689	1,397
District of Columbia	299	287	293	340	518	616	1,796	1,679
Florida	823	751	778	880	1,060	1,392	1,600	1,725
Georgia	4,105	4,049	3,940	4,108	4,938	5,707	12,818	12,389
Hawaii	44	42	43	49	44	49	52	52
Idaho	836	530	518	599	1,114	2,016	2,669	3,829
Illinois	8,054	8,084	8,664	9,174	16,968	23,288	52,091	47,489
Indiana	2,498	2,016	2,096	2,415	5,288	7,075	17,157	15,348
Iowa	1,127	1,105	1,028	1,276	2,437	4,047	8,061	8,381
Kansas	1,166	1,063	1,009	1,228	1,776	3,063	6,451	6,663
Kentucky	975	784	719	777	1,188	2,032	5,648	5,597
Louisiana	1,221	1,207	1,231	1,287	1,429	1,705	2,699	2,906
Maine	58	54	52	76	135	235	426	395
Maryland	1,732	1,326	1,651	1,789	2,993	3,402	11,443	11,029
Massachusetts	2,694	2,497	2,608	3,299	5,950	8,696	20,221	16,531
Michigan	7,041	5,408	5,123	6,056	13,698	18,830	42,976	38,428
Minnesota	2,556	2,510	2,276	2,997	5,044	8,308	16,657	16,507
Mississippi	622	553	518	526	728	807	2,153	2,110
Missouri	1,794	1,678	1,597	1,904	3,319	4,432	10,298	10,986
Montana	637	349	343	474	902	1,608	2,231	2,978
Nebraska	619	434	673	857	1,512	2,231	4,156	4,681
Nevada	1,476	1,153	1,310	1,600	2,022	2,794	4,396	6,256
New Hampshire	155	158	137	176	338	478	1,184	999
New Jersey	4,338	4,288	4,857	6,185	9,355	14,797	34,080	30,427
New Mexico	866	818	839	951	1,409	2,085	2,973	4,196
New York	10,954	10,216	10,730	13,856	20,615	30,903	68,055	60,346
North Carolina	1,096	993	1,135	1,039	1,514	2,309	8,165	7,129
North Dakota	235	177	155	190	347	737	1,475	1,577
Ohio	5,675	5,045	4,714	5,339	9,994	13,998	37,454	33,242
Oklahoma	1,260	1,298	1,172	1,300	1,878	2,737	4,756	6,446
Oregon	1,191	778	866	1,330	2,147	3,766	5,136	6,406
Pennsylvania	4,601	3,878	4,196	5,099	9,495	13,739	33,755	30,971
Rhode Island	386	407	414	462	798	1,192	3,126	2,513
South Carolina	541	482	559	526	657	1,177	3,265	2,916
South Dakota	244	221	195	265	482	905	1,538	1,668
Tennessee	1,253	983	1,008	1,168	1,721	2,363	6,888	7,217
Texas	5,888	5,438	6,003	5,823	7,749	9,413	16,020	22,128
Utah	1,821	1,471	1,680	2,227	2,890	4,976	5,704	7,427
Vermont	87	78	82	131	187	311	570	507
Virginia	1,690	1,587	1,657	1,797	2,501	3,795	11,067	10,403
Washington	2,441	1,749	1,802	2,226	4,046	7,034	10,426	12,453
West Virginia	485	304	356	325	758	1,371	3,489	3,117
Wisconsin	2,739	2,503	2,306	2,795	5,967	8,439	18,653	17,252
Wyoming	266	212	211	372	796	1,001	1,520	1,797
Total	114,548	103,832	107,423	124,038	199,451	278,910	579,768	579,313

See footnotes at end of table.

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

(million cubic feet) – continued

State	2017							2016
	January	Total	December	November	October	September	August	July
Alabama	4,864	28,407	4,880	1,790	875	620	646	675
Alaska	3,189	17,787	2,969	2,313	1,713	831	534	479
Arizona	6,656	35,120	4,980	2,313	1,433	1,144	1,031	1,081
Arkansas	5,740	27,130	5,947	1,830	734	609	545	584
California	83,530	411,828	66,473	37,485	22,234	19,918	18,613	19,533
Colorado	22,721	121,963	22,110	11,559	6,060	3,217	2,736	2,560
Connecticut	8,549	46,045	7,814	4,432	1,971	962	897	1,034
Delaware	1,951	9,660	1,711	794	281	165	155	164
District of Columbia	2,348	11,379	2,132	941	337	202	211	240
Florida	1,958	15,352	1,587	1,082	820	727	683	701
Georgia	18,065	115,922	19,426	10,125	4,812	3,795	3,830	3,641
Hawaii	58	571	52	47	45	49	45	45
Idaho	6,199	24,889	5,896	2,661	1,457	690	498	524
Illinois	72,039	386,590	77,071	32,863	14,683	7,804	7,463	7,828
Indiana	23,505	125,038	26,006	11,343	4,292	2,346	2,201	2,033
Iowa	12,010	61,247	12,695	4,607	2,016	1,330	1,052	1,178
Kansas	12,341	54,060	12,004	4,753	1,543	1,139	990	1,080
Kentucky	8,265	45,502	9,305	3,863	1,288	772	774	723
Louisiana	4,928	31,383	4,824	1,988	1,388	1,222	1,247	1,182
Maine	447	2,566	449	229	133	56	44	50
Maryland	14,139	76,047	13,905	6,792	2,645	1,425	1,345	1,483
Massachusetts	19,515	112,082	19,200	10,623	5,427	2,440	2,281	2,440
Michigan	52,022	294,152	53,783	27,488	14,925	6,654	4,898	5,405
Minnesota	23,423	117,598	21,656	9,848	5,555	2,599	2,497	2,306
Mississippi	3,417	20,185	3,778	1,350	625	572	553	595
Missouri	18,940	87,264	19,405	6,723	2,507	1,526	1,611	1,637
Montana	4,211	19,100	3,972	2,115	1,383	631	405	400
Nebraska	7,563	33,050	6,924	2,374	1,031	706	665	713
Nevada	8,578	39,075	6,777	2,891	1,810	1,387	1,208	1,269
New Hampshire	1,235	6,861	1,249	701	231	153	129	130
New Jersey	39,764	215,510	36,467	18,709	8,782	4,706	4,313	5,739
New Mexico	6,024	32,577	5,893	3,068	1,214	933	775	839
New York	72,953	412,467	66,144	37,991	18,301	9,380	9,267	10,775
North Carolina	11,944	64,547	12,920	6,306	1,719	1,088	1,045	1,047
North Dakota	2,126	10,059	2,140	867	629	218	175	162
Ohio	46,946	255,826	45,991	23,458	10,397	4,721	4,818	4,237
Oklahoma	11,789	50,573	11,803	3,798	1,660	1,305	1,175	1,115
Oregon	9,534	39,391	8,788	3,994	2,776	1,114	622	920
Pennsylvania	39,961	215,512	38,711	20,030	8,820	4,167	3,943	4,156
Rhode Island	2,961	17,200	3,064	1,753	906	360	236	268
South Carolina	4,779	27,562	5,384	2,620	730	502	484	447
South Dakota	2,485	11,663	2,513	901	520	239	209	196
Tennessee	11,248	58,924	12,402	4,391	1,410	1,020	926	1,004
Texas	39,036	175,332	29,065	9,112	6,508	5,353	5,380	5,756
Utah	13,980	63,929	13,140	6,363	2,979	1,781	1,366	1,714
Vermont	556	3,518	555	326	149	87	77	93
Virginia	15,380	77,170	13,307	6,527	2,883	1,450	1,376	1,429
Washington	16,844	76,321	16,027	7,845	5,551	2,551	1,776	1,855
West Virginia	4,081	23,210	4,083	2,265	884	360	323	363
Wisconsin	23,539	125,449	24,366	10,367	5,590	2,403	2,124	2,361
Wyoming	2,344	11,999	2,424	1,135	727	353	259	231
Total	830,679	4,346,588	794,164	379,746	187,385	109,782	100,455	106,420

See footnotes at end of table.

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

State	2016					
	June	May	April	March	February	January
Alabama	833	978	1,645	2,755	5,516	7,195
Alaska	534	864	1,242	1,885	2,067	2,358
Arizona	1,327	1,766	2,422	3,089	5,816	8,719
Arkansas	687	937	1,510	2,762	4,944	6,040
California	21,252	24,772	28,203	39,795	43,748	69,803
Colorado	2,932	6,529	10,419	14,373	17,247	22,222
Connecticut	1,312	2,294	4,070	5,351	7,649	8,259
Delaware	224	458	794	1,094	1,812	2,009
District of Columbia	280	489	772	1,080	2,230	2,464
Florida	798	968	1,221	1,694	2,333	2,738
Georgia	3,772	4,642	6,476	9,579	19,769	26,056
Hawaii	45	44	51	49	47	52
Idaho	587	893	1,308	2,566	3,284	4,525
Illinois	9,531	15,848	30,372	41,365	62,741	79,022
Indiana	2,229	4,741	9,343	11,654	21,376	27,474
Iowa	1,181	2,249	4,664	6,787	10,221	13,266
Kansas	1,377	2,084	2,599	5,100	8,619	12,771
Kentucky	813	1,491	2,633	4,655	8,533	10,651
Louisiana	1,239	1,481	1,902	2,610	4,881	7,419
Maine	60	136	255	330	388	436
Maryland	1,783	3,341	5,420	7,549	13,589	16,770
Massachusetts	2,802	5,617	10,051	13,735	18,068	19,399
Michigan	5,586	12,191	27,259	33,133	47,638	55,192
Minnesota	2,944	4,253	9,873	12,540	19,714	23,813
Mississippi	740	817	943	1,733	3,312	5,167
Missouri	1,919	2,869	4,942	8,665	14,459	21,002
Montana	515	934	1,288	2,008	2,291	3,158
Nebraska	905	1,371	2,324	3,500	5,465	7,072
Nevada	1,518	1,993	2,500	3,524	5,658	8,540
New Hampshire	168	294	606	806	1,101	1,293
New Jersey	6,416	10,809	17,908	23,954	34,983	42,724
New Mexico	1,085	1,546	2,178	3,341	4,966	6,740
New York	12,799	22,097	36,910	47,537	66,686	74,579
North Carolina	1,222	1,657	3,302	5,133	12,917	16,193
North Dakota	181	375	770	1,076	1,509	1,956
Ohio	4,867	10,510	21,448	26,914	44,165	54,299
Oklahoma	1,370	1,759	2,370	4,616	7,605	11,999
Oregon	1,127	1,550	2,244	4,524	4,904	6,827
Pennsylvania	5,191	9,401	16,928	22,482	37,256	44,428
Rhode Island	325	746	1,498	1,935	2,791	3,320
South Carolina	499	719	1,342	2,282	5,686	6,866
South Dakota	230	523	973	1,303	1,766	2,289
Tennessee	1,157	1,627	3,107	5,466	11,341	15,073
Texas	7,078	7,373	11,584	16,632	30,067	41,423
Utah	1,463	2,994	4,452	6,228	9,030	12,419
Vermont	113	204	362	395	562	598
Virginia	2,052	2,968	5,420	8,174	14,427	17,158
Washington	2,300	3,170	4,151	8,903	9,272	12,921
West Virginia	371	726	1,784	2,617	4,160	5,275
Wisconsin	2,605	5,056	11,242	14,393	19,942	25,000
Wyoming	294	772	979	1,333	1,530	1,963
Total	122,640	193,922	328,059	455,001	690,077	878,936

^R Revised data.

^{NA} 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: U.S. 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	2016	2018				
	9-Month YTD	9-Month YTD	9-Month YTD	September	August	July	June	May
Alabama	18,108	14,309	16,466	1,096	1,189	1,134	1,126	1,168
Alaska	9,926	10,548	10,290	633	556	436	590	816
Arizona	NA	22,810	24,870	2,006	2,073	2,128	NA	NA
Arkansas	38,126	33,052	32,515	2,906	2,994	2,754	2,740	3,002
California	176,129	168,044	168,483	16,883	16,418	15,526	16,161	17,545
Colorado	NA	34,948	37,262	1,699	1,662	1,543	NA	NA
Connecticut	40,651	37,070	35,125	2,698	2,792	2,594	2,452	2,635
Delaware	NA	8,838	8,354	786	776	697	693	700
District of Columbia	NA	10,985	11,162	654	857	727	824	642
Florida	47,276	45,161	46,656	4,630	4,487	4,537	4,840	5,031
Georgia	37,844	32,106	36,510	2,105	2,162	2,153	2,142	2,438
Hawaii	1,953	1,839	1,769	205	226	223	212	209
Idaho	12,318	13,433	11,400	925	765	705	753	799
Illinois	168,765	144,052	147,387	8,860	8,663	8,614	8,506	10,265
Indiana	58,032	48,201	50,140	2,823	2,313	2,295	2,217	3,089
Iowa	37,862	32,424	33,897	1,764	1,720	1,620	1,846	2,244
Kansas	27,294	23,576	24,300	1,851	1,829	1,626	1,623	1,659
Kentucky	25,693	20,732	22,911	1,214	1,083	1,020	1,012	1,347
Louisiana	22,342	19,541	20,983	2,195	2,029	1,890	1,885	2,006
Maine	NA	6,085	5,946	327	NA	NA	328	418
Maryland	NA	49,603	49,641	3,356	3,654	3,416	3,937	NA
Massachusetts	80,472	74,371	71,826	4,353	R4,020	R3,633	R3,964	R4,262
Michigan	128,506	111,019	112,540	5,413	5,538	5,325	5,435	8,645
Minnesota	77,668	66,369	64,377	3,309	2,869	2,892	3,219	4,689
Mississippi	13,567	11,728	13,060	936	942	859	864	925
Missouri	47,715	38,953	38,481	2,284	2,136	2,083	2,137	2,605
Montana	17,658	15,524	13,573	1,144	907	731	824	1,215
Nebraska	23,330	19,912	18,481	1,204	1,040	1,221	1,229	1,725
Nevada	22,911	23,198	22,330	1,856	1,717	1,723	1,899	2,198
New Hampshire	6,514	5,971	5,766	278	238	213	256	291
New Jersey	114,587	102,644	109,946	5,437	5,952	6,036	6,060	6,819
New Mexico	NA	15,517	16,108	1,069	NA	847	1,057	NA
New York	225,899	216,219	214,420	15,264	14,844	14,812	14,359	14,732
North Carolina	41,504	35,491	39,746	2,379	2,190	2,149	2,909	2,537
North Dakota	NA	8,475	7,636	369	343	311	394	NA
Ohio	117,702	101,337	105,133	5,183	5,065	4,709	5,007	4,823
Oklahoma	31,876	25,344	25,536	1,612	1,581	1,465	1,582	1,730
Oregon	NA	21,515	17,143	1,187	1,000	976	1,264	1,370
Pennsylvania	114,619	98,550	97,247	5,447	5,213	4,920	5,133	5,367
Rhode Island	8,221	7,576	7,311	298	276	281	280	303
South Carolina	17,554	15,689	16,881	1,219	1,290	1,259	1,330	1,472
South Dakota	NA	7,173	6,916	334	295	299	345	NA
Tennessee	NA	31,249	34,517	2,348	2,111	2,243	2,309	2,853
Texas	133,316	119,456	121,077	10,369	10,022	8,963	9,446	11,724
Utah	NA	26,577	25,842	1,356	1,222	1,284	1,483	NA
Vermont	4,789	4,120	4,336	388	360	349	349	259
Virginia	NA	46,502	47,353	3,286	3,250	3,407	2,969	3,226
Washington	38,855	41,138	34,290	2,567	2,294	2,162	2,708	2,847
West Virginia	17,380	15,222	16,105	995	1,052	989	1,035	1,121
Wisconsin	67,272	60,456	61,751	3,161	2,842	2,852	2,879	3,930
Wyoming	9,478	9,812	9,065	436	395	413	461	761
Total	2,403,699	2,154,464	2,174,859	145,098	R140,947	R135,321	R140,961	R161,619

See footnotes at end of table.

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

(million cubic feet) – continued

State	2018					2017		
	April	March	February	January	Total	December	November	October
Alabama	1,946	2,874	2,238	5,337	22,790	3,908	2,589	1,985
Alaska	1,192	1,731	1,959	2,012	15,544	1,977	1,831	1,189
Arizona	NA	NA	NA	NA	31,212	3,684	2,552	2,167
Arkansas	4,298	5,509	6,018	7,906	47,501	6,407	4,356	3,686
California	18,752	25,318	24,191	25,335	237,360	28,185	21,739	19,392
Colorado	NA	NA	NA	NA	52,739	8,626	5,385	3,780
Connecticut	5,299	6,834	6,535	8,812	52,513	7,412	5,236	2,796
Delaware	1,224	NA	1,721	NA	13,364	2,226	1,464	836
District of Columbia	1,195	1,894	1,759	NA	16,040	2,671	1,383	1,001
Florida	5,394	5,942	5,452	6,961	61,313	6,030	5,267	4,855
Georgia	3,966	6,379	5,094	11,403	49,193	8,539	5,224	3,324
Hawaii	216	214	203	243	2,446	203	204	200
Idaho	1,304	2,058	2,417	2,592	19,777	2,925	1,924	1,494
Illinois	23,102	28,329	32,997	39,428	215,936	35,932	22,257	13,695
Indiana	7,537	10,808	11,022	15,928	75,312	13,712	8,404	4,996
Iowa	5,094	6,280	7,778	9,516	49,710	7,870	5,820	3,597
Kansas	3,484	3,698	5,265	6,258	34,483	5,286	3,308	2,314
Kentucky	3,000	4,647	4,620	7,751	32,796	6,258	3,761	2,045
Louisiana	2,472	2,762	2,460	4,643	28,316	3,929	2,647	2,199
Maine	843	1,170	1,183	1,603	8,925	1,518	939	382
Maryland	6,514	9,836	8,352	11,420	72,279	11,519	7,306	3,850
Massachusetts	10,187	14,962	16,673	18,417	109,470	17,939	11,692	5,467
Michigan	18,479	24,178	24,556	30,937	162,634	26,445	16,897	8,273
Minnesota	11,401	13,400	17,365	18,524	99,756	16,759	11,138	5,491
Mississippi	1,396	1,805	1,861	3,978	17,643	2,697	1,758	1,460
Missouri	6,133	8,054	9,882	12,402	57,903	10,275	5,864	2,812
Montana	2,301	3,266	3,671	3,600	23,374	3,524	2,643	1,683
Nebraska	2,900	3,699	4,942	5,369	29,018	4,384	3,033	1,689
Nevada	2,569	3,595	3,593	3,762	32,200	4,043	2,658	2,300
New Hampshire	858	1,312	1,216	1,853	9,078	1,685	1,034	388
New Jersey	16,093	21,624	19,869	26,697	148,948	24,082	13,261	8,960
New Mexico	NA	2,934	2,778	4,053	23,624	3,967	2,294	1,845
New York	28,745	38,731	36,591	47,822	310,211	45,947	31,356	16,690
North Carolina	4,450	8,010	5,992	10,887	53,726	8,507	5,821	3,906
North Dakota	1,505	NA	2,273	2,223	12,957	2,013	1,594	875
Ohio	16,057	23,485	21,655	31,718	156,979	28,898	17,574	9,170
Oklahoma	3,724	4,474	7,183	8,523	37,834	6,832	3,547	2,110
Oregon	2,389	3,507	NA	3,982	31,763	4,918	3,172	2,158
Pennsylvania	14,353	24,385	20,019	29,783	145,910	22,264	17,272	7,825
Rhode Island	1,142	1,818	1,522	2,301	11,338	2,161	1,154	447
South Carolina	1,734	3,033	2,262	3,955	22,923	3,089	2,362	1,783
South Dakota	1,232	NA	1,865	2,017	10,813	1,755	1,180	705
Tennessee	4,762	NA	6,467	11,305	49,042	8,865	5,610	3,317
Texas	13,691	19,350	21,089	28,663	164,797	19,301	13,913	12,127
Utah	2,899	5,701	5,142	6,169	41,264	7,489	4,406	2,792
Vermont	617	775	703	988	6,205	932	752	401
Virginia	5,362	10,119	7,796	NA	68,162	10,474	6,914	4,272
Washington	4,556	7,057	7,207	7,457	60,096	8,465	6,198	4,296
West Virginia	2,204	3,234	2,828	3,923	22,421	3,529	2,283	1,387
Wisconsin	9,736	11,510	13,839	16,523	90,470	14,817	10,017	5,179
Wyoming	1,326	1,751	1,990	1,945	13,972	1,818	1,320	1,021
Total	298,712	413,494	420,014	547,533	3,164,078	486,690	322,309	200,614

See footnotes at end of table.

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

(million cubic feet) – continued

State	2017							
	September	August	July	June	May	April	March	February
Alabama	1,232	1,107	1,047	1,074	1,273	1,204	2,288	2,075
Alaska	709	550	500	530	855	1,153	2,052	1,857
Arizona	1,916	1,874	1,864	1,968	2,287	2,538	2,946	3,408
Arkansas	2,919	2,899	2,706	2,749	3,088	3,108	4,498	4,630
California	16,064	16,197	15,166	14,780	16,236	17,263	19,968	22,408
Colorado	1,881	1,714	1,639	1,741	3,068	4,041	5,210	6,209
Connecticut	2,489	2,419	2,437	2,313	2,732	3,818	7,026	6,332
Delaware	652	573	499	561	721	751	1,693	1,504
District of Columbia	815	825	835	847	1,009	1,088	1,826	1,613
Florida	4,393	4,398	4,394	4,646	4,880	5,290	5,716	5,344
Georgia	2,231	2,211	2,164	2,215	2,593	2,817	5,420	5,191
Hawaii	198	202	194	214	192	201	211	200
Idaho	943	732	704	719	959	1,350	1,765	2,492
Illinois	8,818	8,054	7,691	7,562	12,632	13,522	25,919	24,486
Indiana	2,765	2,390	2,231	2,437	3,621	4,419	9,268	8,353
Iowa	1,803	1,580	1,598	1,753	2,283	3,277	5,799	6,003
Kansas	1,683	1,743	1,578	1,565	1,770	2,536	3,442	3,454
Kentucky	1,378	1,136	1,042	1,100	1,337	1,660	3,883	3,815
Louisiana	1,795	1,907	1,790	1,925	2,024	2,057	2,588	2,287
Maine	299	290	289	306	462	695	1,291	1,150
Maryland	3,237	3,264	3,541	3,025	4,215	4,284	9,628	8,036
Massachusetts	4,243	4,076	3,832	3,968	5,859	7,397	16,154	13,289
Michigan	5,952	5,409	5,045	5,966	8,793	11,198	21,859	20,749
Minnesota	3,066	2,867	2,860	3,117	4,853	7,465	12,305	12,893
Mississippi	1,011	979	893	903	1,101	987	1,776	1,704
Missouri	2,361	2,290	2,089	2,248	2,850	3,317	6,534	6,673
Montana	1,010	685	670	753	1,095	1,711	2,475	3,028
Nebraska	1,006	807	1,037	1,192	1,500	2,067	3,233	3,688
Nevada	1,902	1,704	1,758	1,908	2,189	2,596	3,089	3,525
New Hampshire	244	256	192	239	425	564	1,439	1,165
New Jersey	6,624	4,874	5,572	6,462	8,134	9,270	20,983	18,252
New Mexico	1,131	1,120	1,048	997	1,259	1,696	1,932	2,446
New York	14,701	14,852	14,113	14,499	17,995	21,285	40,877	36,302
North Carolina	2,763	2,709	2,628	2,394	3,008	2,997	6,205	5,153
North Dakota	461	352	307	320	489	892	1,644	1,703
Ohio	5,506	5,112	4,685	5,040	7,188	8,459	20,894	18,787
Oklahoma	1,581	1,566	1,449	1,551	1,872	2,355	3,479	4,396
Oregon	1,147	851	890	1,195	1,674	2,466	3,318	4,110
Pennsylvania	4,993	4,725	4,818	5,072	7,328	9,184	20,573	18,873
Rhode Island	252	256	262	297	536	749	1,883	1,501
South Carolina	1,314	1,301	1,393	1,273	1,513	1,488	2,489	2,105
South Dakota	367	308	302	341	488	756	1,294	1,344
Tennessee	2,387	2,120	2,051	2,123	2,559	2,506	5,230	5,140
Texas	10,270	10,389	10,427	10,176	11,204	12,125	14,586	16,435
Utah	1,435	1,197	1,281	1,727	1,958	3,171	3,419	4,609
Vermont	342	317	292	194	332	375	774	678
Virginia	3,449	3,280	3,354	2,985	3,875	4,071	8,574	7,248
Washington	2,513	2,171	2,222	2,464	3,505	4,786	6,434	7,492
West Virginia	1,080	1,021	968	1,018	1,219	1,558	2,754	2,535
Wisconsin	3,025	3,147	2,883	3,068	4,498	6,319	11,248	10,879
Wyoming	443	401	408	519	938	1,098	1,714	1,885
Total	144,797	137,208	133,637	138,042	178,475	211,980	371,604	359,433

See footnotes at end of table.

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

(million cubic feet) – continued

State	2017							2016
	January	Total	December	November	October	September	August	July
Alabama	3,009	23,552	3,314	2,270	1,502	1,029	1,045	1,007
Alaska	2,342	15,953	2,277	1,986	1,400	866	639	566
Arizona	4,008	34,010	4,017	2,925	2,197	1,984	1,947	1,960
Arkansas	6,454	45,810	6,235	4,035	3,024	2,732	2,602	2,468
California	29,963	236,967	28,868	22,313	17,303	16,696	17,665	15,669
Colorado	9,446	54,265	9,068	5,113	2,823	1,812	1,494	1,637
Connecticut	7,504	50,258	7,106	4,847	3,180	2,467	2,463	2,444
Delaware	1,885	12,340	1,865	1,259	862	596	566	519
District of Columbia	2,127	15,648	2,011	1,577	898	675	699	688
Florida	6,099	62,526	5,912	5,252	4,706	4,549	4,283	4,637
Georgia	7,263	51,327	7,639	4,604	2,574	2,086	2,066	2,007
Hawaii	226	2,384	210	205	201	212	202	192
Idaho	3,769	17,598	3,274	1,658	1,266	811	712	668
Illinois	35,368	212,482	35,004	17,391	12,700	8,283	7,988	7,986
Indiana	12,716	74,131	13,295	6,368	4,328	2,719	2,477	2,087
Iowa	8,329	49,414	8,367	4,181	2,969	2,053	1,827	1,758
Kansas	5,805	34,757	5,714	2,687	2,056	1,640	1,674	1,607
Kentucky	5,382	33,520	5,920	2,991	1,698	1,176	1,127	1,066
Louisiana	3,168	28,931	3,405	2,449	2,094	1,902	1,969	1,784
Maine	1,304	8,559	1,319	771	523	291	280	284
Maryland	10,372	70,500	9,758	6,916	4,184	3,228	2,978	2,883
Massachusetts	15,554	104,850	15,614	10,251	7,159	4,249	4,040	3,804
Michigan	26,049	158,613	24,658	13,187	8,229	5,363	5,186	5,030
Minnesota	16,943	92,591	14,792	8,031	5,391	2,948	2,840	2,674
Mississippi	2,374	18,135	2,369	1,610	1,097	988	972	949
Missouri	10,591	56,968	10,063	5,473	2,951	1,981	2,119	2,039
Montana	4,096	21,314	3,947	2,238	1,556	934	742	732
Nebraska	5,382	26,971	4,892	2,339	1,259	954	930	960
Nevada	4,528	31,125	4,003	2,639	2,154	1,836	1,723	1,771
New Hampshire	1,446	8,509	1,486	892	365	234	203	200
New Jersey	22,474	153,096	23,599	11,716	7,835	7,339	8,213	8,165
New Mexico	3,888	24,954	3,981	3,332	1,534	1,170	1,053	1,009
New York	41,596	302,572	40,052	27,357	20,743	14,980	16,361	15,036
North Carolina	7,633	55,876	7,468	5,301	3,360	2,792	2,791	2,585
North Dakota	2,307	11,810	2,344	1,034	795	356	300	303
Ohio	25,666	152,478	24,175	14,607	8,563	4,897	4,901	4,191
Oklahoma	7,097	37,064	6,770	2,879	1,878	1,619	1,576	1,424
Oregon	5,864	26,667	5,055	2,520	1,949	1,071	697	926
Pennsylvania	22,984	142,724	23,333	13,683	8,461	4,845	4,607	4,419
Rhode Island	1,840	10,744	1,843	1,019	572	233	167	174
South Carolina	2,814	23,734	2,840	2,424	1,588	1,284	1,300	1,135
South Dakota	1,973	10,439	1,968	964	590	349	298	299
Tennessee	7,133	49,809	8,028	4,716	2,548	2,049	1,957	1,948
Texas	23,843	164,306	19,848	12,834	10,547	9,892	9,890	9,940
Utah	7,780	39,066	7,032	4,221	1,971	1,358	1,036	1,245
Vermont	814	6,251	845	575	495	353	355	350
Virginia	9,667	67,553	8,363	7,390	4,447	2,938	2,754	2,736
Washington	9,551	51,634	8,699	4,816	3,829	2,518	2,192	2,290
West Virginia	3,069	22,698	3,164	2,079	1,350	999	1,007	1,065
Wisconsin	15,389	88,679	14,625	7,421	4,882	3,140	3,058	2,865
Wyoming	2,406	13,425	2,256	1,253	851	556	467	431
Total	479,288	3,109,584	462,687	280,600	191,437	142,031	140,436	134,609

See footnotes at end of table.

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

(million cubic feet) – continued

State	2016					
	June	May	April	March	February	January
Alabama	1,171	1,235	1,488	1,816	3,092	4,582
Alaska	664	826	1,201	1,664	1,753	2,110
Arizona	2,114	2,397	2,723	3,066	3,762	4,918
Arkansas	2,561	2,879	3,143	4,237	5,576	6,318
California	16,005	16,478	17,218	20,549	21,460	26,743
Colorado	1,833	3,120	4,606	6,191	7,280	9,288
Connecticut	2,107	2,826	3,746	5,111	6,810	7,153
Delaware	516	668	898	1,071	1,595	1,926
District of Columbia	639	877	1,222	1,297	2,469	2,596
Florida	4,546	4,878	5,279	5,668	6,135	6,679
Georgia	2,052	2,437	3,221	4,392	7,910	10,341
Hawaii	190	187	200	195	192	197
Idaho	664	865	1,009	1,734	2,111	2,827
Illinois	7,348	10,636	16,018	21,675	31,008	36,445
Indiana	2,175	3,276	5,162	6,491	11,412	14,341
Iowa	1,604	2,134	3,531	4,933	7,139	8,918
Kansas	1,723	2,045	2,124	2,969	4,496	6,023
Kentucky	1,012	1,523	1,798	3,178	5,408	6,623
Louisiana	1,815	2,109	2,136	2,247	2,777	4,243
Maine	311	471	789	1,018	1,168	1,333
Maryland	3,249	4,159	5,514	6,514	9,691	11,424
Massachusetts	3,735	5,675	8,886	10,864	14,235	16,338
Michigan	5,237	8,584	14,403	18,468	24,382	25,886
Minnesota	3,075	4,573	7,290	10,263	14,112	16,600
Mississippi	1,158	1,192	1,019	1,435	2,208	3,137
Missouri	2,033	2,666	3,235	5,205	8,517	10,686
Montana	764	1,136	1,461	2,230	2,390	3,184
Nebraska	1,048	1,267	1,817	2,565	3,846	5,094
Nevada	1,783	2,183	2,421	2,801	3,408	4,404
New Hampshire	248	381	716	962	1,283	1,539
New Jersey	7,963	8,929	11,456	15,021	19,959	22,901
New Mexico	1,117	1,249	1,558	2,196	2,815	3,942
New York	14,898	16,834	23,284	28,203	39,285	45,539
North Carolina	2,583	2,879	3,743	4,281	7,910	10,183
North Dakota	296	422	1,026	1,189	1,629	2,115
Ohio	4,163	6,641	12,085	14,931	23,507	29,819
Oklahoma	1,499	2,004	2,122	3,299	4,864	7,129
Oregon	1,046	1,318	1,797	2,922	3,165	4,202
Pennsylvania	4,886	6,755	10,708	13,281	21,414	26,331
Rhode Island	234	549	977	1,247	1,747	1,983
South Carolina	1,255	1,395	1,849	1,845	2,982	3,836
South Dakota	302	482	820	1,053	1,395	1,918
Tennessee	1,945	2,522	2,854	4,180	7,279	9,783
Texas	11,194	10,404	12,955	14,500	18,764	23,538
Utah	1,083	2,026	2,794	4,002	5,361	6,937
Vermont	310	290	520	523	724	911
Virginia	3,134	3,411	5,150	6,296	9,338	11,597
Washington	2,466	2,855	3,115	5,552	5,867	7,434
West Virginia	989	1,216	1,656	2,330	3,075	3,768
Wisconsin	3,160	4,577	7,205	9,265	13,209	15,271
Wyoming	435	856	1,107	1,521	1,634	2,059
Total	138,340	171,297	233,059	298,447	413,548	503,093

^R Revised data.^{NA} 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:** U.S. 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	2016	2018				
	9-Month YTD	9-Month YTD	9-Month YTD	September	August	July	June	May
Alabama	149,717	145,591	144,835	15,830	16,032	16,027	16,033	16,618
Alaska	3,941	3,217	2,770	508	412	415	363	392
Arizona	14,537	14,180	14,542	1,417	1,503	1,427	1,454	1,581
Arkansas	NA	73,449	64,798	8,243	8,613	7,861	7,618	8,164
California	573,739	567,904	581,301	67,764	69,997	66,120	61,794	63,220
Colorado	62,721	60,910	57,649	5,697	5,466	5,394	5,332	6,156
Connecticut	18,227	17,941	17,642	1,767	1,824	1,785	1,696	1,614
Delaware	NA	22,167	23,366	2,149	2,218	NA	NA	NA
District of Columbia	0	0	0	0	0	0	0	0
Florida	NA	75,900	77,346	7,062	7,317	7,004	NA	8,780
Georgia	116,935	111,393	113,590	12,205	13,172	12,767	12,877	12,780
Hawaii	NA	66	64	7	8	8	8	8
Idaho ^a	24,410	25,789	24,685	2,652	2,332	2,285	2,244	2,458
Illinois	187,925	184,045	185,148	18,707	18,341	17,863	16,728	17,685
Indiana	NA	277,560	280,607	29,188	31,836	33,565	31,796	34,496
Iowa	183,868	177,837	134,698	19,143	20,360	19,906	18,735	18,991
Kansas	97,030	94,276	92,248	9,054	10,328	11,250	9,934	10,272
Kentucky	85,389	82,970	85,073	7,896	8,300	8,112	7,834	8,648
Louisiana	NA	807,181	781,278	93,857	^R 94,130	^R 94,629	95,929	96,531
Maine	13,549	12,659	14,356	1,596	1,457	1,448	1,189	1,152
Maryland	NA	11,395	11,318	1,427	1,275	1,352	1,118	1,482
Massachusetts	35,281	34,252	33,004	2,537	^R 2,548	^R 2,551	^R 2,881	^R 3,157
Michigan	NA	121,813	125,771	NA	12,221	11,267	11,666	12,204
Minnesota	116,572	122,836	121,017	10,824	11,144	11,401	10,875	11,979
Mississippi	101,780	94,834	87,110	10,884	11,087	10,490	11,155	11,533
Missouri	47,581	45,595	47,181	4,427	4,628	4,372	4,346	4,303
Montana	18,555	15,301	15,368	2,047	2,011	2,121	2,044	1,888
Nebraska	62,544	65,531	66,262	6,774	6,244	7,289	6,517	6,432
Nevada	15,253	14,055	13,355	1,640	1,738	1,828	1,534	1,518
New Hampshire	NA	7,015	6,311	694	679	686	689	779
New Jersey	NA	40,425	45,631	NA	3,431	3,584	3,459	NA
New Mexico	NA	11,295	11,872	1,421	1,414	1,424	1,449	1,603
New York	NA	58,656	58,602	6,247	6,342	6,275	NA	5,842
North Carolina	NA	77,012	78,312	8,026	9,102	8,717	8,773	8,942
North Dakota	26,025	23,623	22,406	3,024	2,887	2,861	2,761	2,507
Ohio	210,900	202,251	202,832	19,856	19,587	19,531	20,453	21,812
Oklahoma	154,868	148,615	145,334	17,297	16,622	15,301	16,083	17,685
Oregon	40,125	42,899	42,367	4,150	4,059	3,986	4,174	4,314
Pennsylvania	169,233	159,211	154,724	16,554	17,134	17,002	16,727	17,706
Rhode Island	6,584	6,428	6,370	692	656	623	652	741
South Carolina	NA	66,779	65,179	6,986	7,707	7,487	7,579	7,779
South Dakota	NA	33,708	32,947	3,630	3,637	3,530	3,576	3,591
Tennessee	NA	100,396	90,275	11,077	11,481	11,173	11,610	11,132
Texas	1,333,508	1,237,343	1,217,938	146,321	150,647	153,149	145,163	150,337
Utah	29,846	29,806	28,777	3,045	2,941	2,941	3,152	3,223
Vermont	1,647	1,595	1,570	162	161	154	156	173
Virginia	NA	69,977	66,760	NA	6,586	7,762	NA	7,771
Washington	NA	58,651	57,550	6,470	5,876	5,806	5,806	5,935
West Virginia	25,454	28,125	22,555	2,585	2,894	2,840	2,508	2,502
Wisconsin	120,641	110,308	104,909	11,038	11,176	10,546	10,590	11,949
Wyoming	NA	40,006	38,052	4,743	4,742	4,555	4,081	NA
Total	6,119,382	5,834,767	5,717,655	643,724	^R656,301	^R652,877	^R637,036	^R659,406

See footnotes at end of table.

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

(million cubic feet) – continued

State	2018					2017			
	April	March	February	January	Total	December	November	October	
Alabama	16,632	17,536	16,146	18,864	196,686	18,546	16,591	15,959	
Alaska	352	439	525	535	4,156	395	305	239	
Arizona	1,633	1,788	1,766	1,966	19,250	1,999	1,498	1,573	
Arkansas	8,862	9,051	8,829	NA	100,251	9,549	8,536	8,717	
California	60,237	63,615	57,100	63,893	760,661	66,073	62,097	64,587	
Colorado	7,498	8,209	9,232	9,736	84,914	9,236	7,830	6,938	
Connecticut	1,905	2,520	2,340	2,776	24,557	2,604	2,348	1,664	
Delaware	NA	NA	NA	3,963	29,860	2,511	2,534	2,647	
District of Columbia	0	0	0	0	0	0	0	0	
Florida	9,002	9,867	7,889	10,123	103,417	9,700	8,977	8,841	
Georgia	12,864	14,189	11,966	14,116	150,172	13,801	13,207	11,771	
Hawaii	8	7	7	NA	85	5	7	7	
Idaho ^a	2,541	3,270	3,099	3,529	35,856	3,492	3,326	3,248	
Illinois	21,568	24,356	23,803	28,874	258,841	28,905	24,949	20,943	
Indiana	34,679	39,247	37,558	NA	379,118	39,292	32,914	29,353	
Iowa	20,552	22,276	20,873	23,032	241,187	23,040	21,394	18,916	
Kansas	10,951	11,204	11,183	12,855	127,653	12,437	11,451	9,490	
Kentucky	9,996	11,328	10,924	12,352	113,582	11,385	10,094	9,133	
Louisiana	91,519	93,184	90,394	NA	1,096,400	100,026	95,589	93,604	
Maine	1,468	1,703	1,637	1,900	17,698	1,892	1,752	1,396	
Maryland	NA	NA	NA	2,093	15,744	1,549	1,545	1,255	
Massachusetts	^R 4,917	^R 5,288	^R 5,315	^R 6,089	47,004	5,754	4,138	2,860	
Michigan	15,346	18,246	NA	19,443	170,189	19,301	15,375	13,700	
Minnesota	13,598	14,896	15,299	16,557	165,901	15,419	14,756	12,890	
Mississippi	11,955	11,777	10,772	12,126	128,356	11,839	11,234	10,449	
Missouri	5,545	6,225	6,762	6,973	63,158	6,841	5,617	5,105	
Montana	1,744	2,099	2,259	2,343	23,393	2,756	2,668	2,668	
Nebraska	6,953	7,321	7,383	7,631	89,521	8,325	7,795	7,870	
Nevada	1,646	1,851	1,675	1,823	19,269	1,832	1,646	1,737	
New Hampshire	871	916	NA	947	9,499	941	818	725	
New Jersey	NA	NA	NA	NA	54,298	4,845	4,086	4,941	
New Mexico	NA	1,506	1,314	1,498	15,412	1,486	1,304	1,327	
New York	8,231	8,806	8,834	9,652	82,779	9,123	8,387	6,613	
North Carolina	9,817	11,028	9,460	NA	107,373	10,727	10,190	9,444	
North Dakota	3,158	2,898	2,909	3,020	32,127	3,244	2,603	2,658	
Ohio	24,820	27,130	27,015	30,698	277,767	29,055	25,226	21,235	
Oklahoma	17,743	18,194	17,483	18,458	199,576	17,611	16,344	17,006	
Oregon	4,572	5,035	4,610	5,225	57,849	5,265	4,791	4,894	
Pennsylvania	20,183	21,739	19,444	22,745	219,028	21,967	20,038	17,812	
Rhode Island	809	727	843	842	8,551	773	709	641	
South Carolina	8,205	NA	7,598	7,463	91,644	8,265	8,536	8,064	
South Dakota	NA	3,942	4,244	4,267	45,481	4,246	3,996	3,530	
Tennessee	12,717	12,060	11,933	NA	134,555	12,987	10,700	10,473	
Texas	147,085	149,515	134,557	156,733	1,681,634	155,675	146,275	142,341	
Utah	3,449	3,361	3,797	3,937	40,007	3,874	3,380	2,947	
Vermont	193	219	204	224	2,191	226	204	166	
Virginia	7,558	8,194	8,179	8,173	94,098	8,239	8,300	7,583	
Washington	6,241	NA	7,560	7,651	80,656	7,720	6,995	7,290	
West Virginia	2,590	2,917	3,082	3,535	38,358	3,596	3,444	3,193	
Wisconsin	14,827	15,964	16,229	18,322	154,920	17,463	14,978	12,171	
Wyoming	4,763	4,989	4,928	4,979	54,512	5,483	4,635	4,389	
Total	^R685,369	^R726,061	^R688,538	^R770,070	7,949,199	761,315	696,113	657,005	

See footnotes at end of table.

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

(million cubic feet) – continued

State	2017							
	September	August	July	June	May	April	March	February
Alabama	15,361	15,837	15,690	15,792	16,284	15,914	17,380	15,521
Alaska	215	241	200	341	374	403	473	468
Arizona	1,387	1,374	1,331	1,348	1,560	1,582	1,753	1,780
Arkansas	7,766	7,936	7,577	7,754	8,214	7,911	8,428	8,369
California	67,363	69,045	64,345	60,312	62,370	60,361	62,969	56,866
Colorado	5,080	5,415	5,273	5,382	6,685	7,107	7,806	7,890
Connecticut	1,665	1,737	1,750	1,691	1,756	1,848	2,633	2,217
Delaware	2,927	2,492	2,272	2,424	2,316	1,837	2,353	2,657
District of Columbia	0	0	0	0	0	0	0	0
Florida	7,277	8,360	8,082	7,874	8,590	8,494	9,403	8,369
Georgia	10,375	12,475	12,212	12,582	12,594	11,774	13,764	12,166
Hawaii	8	8	7	7	7	7	8	7
Idaho ^a	2,701	2,259	2,470	2,453	2,739	2,817	3,180	3,273
Illinois	18,252	18,199	17,082	17,387	19,237	20,040	23,713	22,906
Indiana	29,286	28,791	28,373	27,048	28,706	30,510	34,796	32,500
Iowa	18,558	19,383	19,224	19,011	19,588	19,374	21,556	19,552
Kansas	10,383	11,177	11,787	10,250	9,317	10,133	10,059	10,103
Kentucky	8,186	8,383	7,998	8,470	9,191	9,028	10,431	9,855
Louisiana	89,667	93,269	90,756	88,608	89,293	88,029	90,433	82,593
Maine	1,291	1,229	1,300	1,200	1,257	1,435	1,634	1,567
Maryland	1,205	1,133	1,183	1,294	1,234	1,040	1,535	1,281
Massachusetts	2,524	2,521	2,494	2,712	3,205	4,319	5,615	5,144
Michigan	11,313	11,794	10,642	10,688	12,253	12,863	17,286	16,158
Minnesota	12,342	12,902	12,244	12,617	12,857	13,737	14,916	14,740
Mississippi	10,432	10,624	10,028	10,107	10,741	10,451	11,032	10,303
Missouri	4,311	4,557	4,367	4,327	4,679	4,834	5,869	5,637
Montana	2,088	1,930	1,817	1,470	1,158	1,341	1,731	1,724
Nebraska	6,724	7,276	7,653	6,272	6,928	7,076	7,413	7,670
Nevada	1,530	1,581	1,454	1,482	1,470	1,526	1,672	1,518
New Hampshire	677	658	680	676	759	853	911	910
New Jersey	3,545	3,830	4,099	4,479	4,363	4,045	5,556	5,033
New Mexico	1,215	1,260	1,265	1,221	1,277	1,214	1,122	1,212
New York	5,711	5,760	5,605	5,445	5,516	6,385	8,235	7,536
North Carolina	8,158	8,420	7,805	8,109	8,311	8,284	9,631	8,662
North Dakota	1,797	2,491	2,506	2,749	2,849	2,900	3,045	2,358
Ohio	20,375	19,389	19,040	18,629	21,099	22,328	26,700	25,763
Oklahoma	16,351	16,119	15,682	15,878	16,580	17,059	17,746	15,395
Oregon	4,363	4,270	4,137	4,399	4,747	4,780	5,208	5,093
Pennsylvania	16,507	15,614	15,801	15,971	16,819	17,066	21,082	19,076
Rhode Island	673	672	644	660	666	799	716	791
South Carolina	7,059	7,447	6,996	7,138	7,435	7,212	8,092	7,251
South Dakota	3,555	3,642	3,589	3,569	3,663	3,632	3,932	3,812
Tennessee	10,403	10,891	10,480	10,639	11,033	10,673	11,984	11,690
Texas	130,756	140,307	142,969	139,976	133,114	131,927	140,426	132,346
Utah	3,048	2,907	3,035	3,112	3,247	3,480	3,390	3,810
Vermont	158	164	158	158	158	167	215	196
Virginia	7,553	7,439	6,704	7,845	7,899	8,037	8,477	8,079
Washington	6,287	6,088	5,935	5,952	6,065	6,277	7,011	6,861
West Virginia	3,046	3,101	2,953	3,005	2,931	2,734	3,468	3,228
Wisconsin	10,461	10,954	10,268	9,988	11,080	11,765	15,105	13,844
Wyoming	4,192	4,199	3,973	4,015	4,380	4,591	4,948	4,618
Total	616,109	637,549	623,935	614,517	628,595	632,002	696,841	650,397

See footnotes at end of table.

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

(million cubic feet) – continued

State	2017							2016
	January	Total	December	November	October	September	August	July
Alabama	17,810	192,424	17,008	15,519	15,062	14,459	14,876	14,949
Alaska	502	4,268	466	493	538	436	261	307
Arizona	2,064	19,765	1,914	1,646	1,664	1,576	1,386	1,334
Arkansas	9,493	87,876	8,486	7,552	7,040	6,647	7,042	6,584
California	64,275	774,503	66,492	62,917	63,793	68,838	72,768	66,480
Colorado	10,271	80,432	9,453	7,221	6,109	5,165	5,245	5,117
Connecticut	2,644	24,271	2,671	2,213	1,745	1,663	1,733	1,685
Delaware	2,888	31,457	2,776	2,573	2,742	2,659	2,573	2,690
District of Columbia	0	0	0	0	0	0	0	0
Florida	9,450	103,658	9,226	8,626	8,459	8,153	8,430	8,339
Georgia	13,451	152,311	13,477	12,606	12,638	11,521	11,715	11,878
Hawaii	8	83	6	6	7	7	9	8
Idaho ^a	3,897	34,761	3,788	3,171	3,117	2,659	2,252	2,524
Illinois	27,228	254,682	27,068	22,155	20,311	18,509	17,490	17,546
Indiana	37,551	370,944	37,404	28,293	24,640	27,079	27,964	29,019
Iowa	21,591	189,618	20,144	18,423	16,354	14,196	15,025	14,362
Kansas	11,066	124,071	12,773	9,908	9,143	8,334	12,061	10,987
Kentucky	11,429	115,201	11,095	10,031	9,002	8,199	8,561	8,169
Louisiana	94,532	1,048,751	93,894	88,053	85,526	84,510	87,364	88,601
Maine	1,745	18,983	1,528	1,407	1,692	1,586	1,584	1,565
Maryland	1,490	15,400	1,634	1,147	1,302	1,021	1,230	1,246
Massachusetts	5,717	45,721	5,214	4,191	3,312	2,481	2,402	2,466
Michigan	18,815	172,006	18,444	14,564	13,227	12,156	11,474	10,754
Minnesota	16,480	162,818	16,003	13,777	12,022	10,872	12,081	12,192
Mississippi	11,114	116,105	10,738	9,931	8,326	8,675	9,571	9,590
Missouri	7,014	63,630	6,736	5,256	4,457	4,627	4,299	4,450
Montana	2,042	21,233	1,857	2,132	1,875	1,840	1,639	1,661
Nebraska	8,520	91,021	8,388	8,304	8,066	7,636	9,161	8,443
Nevada	1,821	18,327	1,826	1,517	1,629	1,509	1,438	1,391
New Hampshire	892	8,454	768	722	653	623	587	593
New Jersey	5,475	60,910	5,368	4,500	5,411	5,188	5,381	5,638
New Mexico	1,509	16,109	1,524	1,393	1,321	1,232	1,209	1,252
New York	8,464	80,850	8,722	7,103	6,423	5,591	5,835	5,452
North Carolina	9,633	105,504	9,626	8,939	8,628	7,701	8,374	7,745
North Dakota	2,928	31,232	2,615	3,016	3,194	2,862	2,013	2,176
Ohio	28,927	275,358	27,736	23,434	21,355	19,318	18,882	19,109
Oklahoma	17,804	193,703	17,713	15,596	15,060	13,868	15,755	15,913
Oregon	5,901	57,760	5,707	4,759	4,927	4,473	4,334	4,258
Pennsylvania	21,275	212,253	20,665	19,496	17,368	14,881	16,265	14,825
Rhode Island	806	8,474	734	677	694	742	662	605
South Carolina	8,149	88,148	7,957	7,852	7,159	6,862	6,901	6,770
South Dakota	4,314	44,570	4,106	3,952	3,565	3,537	3,662	3,402
Tennessee	12,602	122,953	12,160	10,532	9,986	9,338	9,638	9,289
Texas	145,522	1,649,759	154,444	140,148	137,229	136,898	143,182	142,462
Utah	3,779	38,568	3,460	3,201	3,130	2,995	2,735	2,822
Vermont	222	2,172	217	199	185	153	140	140
Virginia	7,943	88,422	7,661	7,546	6,455	7,531	7,432	7,352
Washington	8,175	79,275	7,901	6,687	7,137	6,414	5,964	6,013
West Virginia	3,658	32,281	3,406	3,319	3,002	2,710	2,586	2,715
Wisconsin	16,843	144,801	16,022	12,478	11,393	9,927	10,067	9,335
Wyoming	5,089	52,810	5,173	4,937	4,648	4,013	4,304	4,274
Total	734,820	7,728,688	734,194	654,119	622,720	603,868	627,541	616,480

See footnotes at end of table.

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

(million cubic feet) – continued

State	2016					
	June	May	April	March	February	January
Alabama	15,396	16,896	16,023	16,861	16,687	18,689
Alaska	363	261	183	237	243	479
Arizona	1,542	1,591	1,582	1,708	1,793	2,030
Arkansas	6,588	7,024	7,097	7,563	7,673	8,580
California	62,672	63,228	61,518	62,641	58,878	64,278
Colorado	4,982	6,141	6,624	7,543	7,705	9,126
Connecticut	1,602	1,714	1,921	2,044	2,517	2,763
Delaware	2,333	2,643	2,464	2,666	2,517	2,821
District of Columbia	0	0	0	0	0	0
Florida	7,619	8,566	8,977	9,069	8,655	9,538
Georgia	11,834	12,662	12,372	13,421	13,817	14,370
Hawaii	6	7	7	6	7	7
Idaho ^a	2,136	2,462	2,492	3,184	3,333	3,644
Illinois	16,347	18,791	20,144	23,105	25,499	27,716
Indiana	29,036	31,205	31,458	33,805	34,111	36,930
Iowa	14,127	14,314	13,992	15,810	15,850	17,022
Kansas	9,304	9,241	9,362	10,366	10,736	11,858
Kentucky	8,237	9,171	9,448	10,354	10,914	12,020
Louisiana	85,217	87,931	85,724	88,194	83,366	90,371
Maine	1,415	1,569	1,603	1,800	1,550	1,685
Maryland	1,084	1,217	1,264	1,528	1,416	1,311
Massachusetts	2,832	3,161	4,160	4,604	5,317	5,581
Michigan	11,265	11,856	14,586	16,471	18,123	19,086
Minnesota	11,710	12,504	13,333	15,566	15,388	17,372
Mississippi	9,838	9,772	9,646	9,098	10,106	10,814
Missouri	4,383	4,950	4,937	5,553	7,122	6,860
Montana	1,508	1,660	1,459	1,690	1,851	2,061
Nebraska	7,125	6,787	6,588	6,730	6,541	7,251
Nevada	1,427	1,477	1,512	1,556	1,442	1,603
New Hampshire	568	680	726	803	862	869
New Jersey	5,274	4,369	4,820	4,181	4,731	6,048
New Mexico	1,220	1,297	1,234	1,437	1,449	1,541
New York	5,384	5,161	6,993	7,821	8,250	8,114
North Carolina	7,671	8,442	8,635	9,197	10,050	10,497
North Dakota	2,782	2,811	2,083	2,665	2,263	2,753
Ohio	19,658	21,364	22,601	24,852	27,286	29,762
Oklahoma	15,793	17,437	16,462	16,558	15,612	17,935
Oregon	4,280	4,580	4,618	5,105	4,998	5,723
Pennsylvania	14,580	15,741	17,592	19,230	20,507	21,103
Rhode Island	652	691	728	760	799	730
South Carolina	7,011	7,448	7,465	7,539	7,284	7,900
South Dakota	3,386	3,480	3,645	3,785	3,932	4,117
Tennessee	9,493	9,394	9,550	10,158	11,181	12,233
Texas	128,351	128,630	126,871	137,784	131,520	142,240
Utah	3,036	3,073	3,569	3,376	3,600	3,571
Vermont	151	167	192	204	204	220
Virginia	7,195	6,894	7,179	7,455	7,101	8,622
Washington	5,731	5,759	6,304	6,606	6,795	7,964
West Virginia	2,417	2,093	2,287	2,513	2,566	2,669
Wisconsin	9,793	10,206	11,961	13,086	14,381	16,152
Wyoming	4,040	4,159	4,054	4,405	4,263	4,539
Total	590,392	612,675	620,045	662,694	662,790	721,171

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

^R Revised data.

^{NA} 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: U.S. 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^a consumers, by state, 2016-2018

(million cubic feet)

State	2018	2017	2016	2018				
	9-Month YTD	9-Month YTD	9-Month YTD	September	August	July	June	May
Alabama	333,111	294,802	319,701	43,565	43,260	45,338	39,099	39,671
Alaska	26,254	19,235	21,177	3,245	4,008	3,987	2,592	1,991
Arizona	213,552	172,905	212,992	35,761	38,560	37,336	27,153	20,667
Arkansas	115,356	103,148	108,333	11,685	14,952	15,923	14,353	13,251
California	458,722	440,131	499,450	56,085	76,620	84,973	42,828	29,657
Colorado	97,998	76,472	77,711	11,296	12,743	14,696	12,168	10,487
Connecticut	99,211	77,564	93,955	12,215	14,689	14,093	11,464	8,700
Delaware	28,393	37,119	43,196	3,766	4,715	3,337	2,257	3,249
District of Columbia	--	--	*	--	--	--	--	--
Florida	978,671	919,917	930,316	130,883	131,364	130,709	119,196	104,924
Georgia	295,511	287,789	303,343	36,862	39,409	42,689	35,964	33,618
Hawaii	--	--	--	--	--	--	--	--
Idaho	W	14,492	19,441	2,946	2,845	3,238	1,845	1,018
Illinois	W	91,342	117,400	16,964	21,600	22,152	14,534	15,008
Indiana	141,702	110,518	131,795	14,778	18,378	19,444	17,035	17,451
Iowa	41,386	19,736	17,976	5,980	5,879	6,249	4,779	5,130
Kansas	27,404	17,593	16,610	3,022	3,743	4,716	4,329	5,043
Kentucky	89,708	63,821	52,035	11,021	10,999	10,957	8,280	9,701
Louisiana	238,922	208,591	269,076	29,223	31,767	34,691	30,134	28,711
Maine	W	W	18,668	1,208	2,102	2,005	1,506	1,313
Maryland	78,627	37,779	45,096	11,178	11,915	11,349	8,018	10,889
Massachusetts	115,813	127,764	129,322	12,528	19,330	17,621	10,459	8,735
Michigan	198,096	159,125	192,760	21,956	24,205	23,860	19,318	24,187
Minnesota	55,566	42,965	55,703	7,768	7,988	8,731	5,314	5,789
Mississippi	296,656	265,423	290,912	33,807	39,116	39,230	33,058	33,549
Missouri	53,768	34,100	43,381	5,759	7,577	7,849	6,421	6,754
Montana	W	3,894	4,311	W	617	524	280	368
Nebraska	W	4,645	4,481	W	1,357	1,626	785	1,313
Nevada	157,930	151,020	162,989	20,429	23,976	25,304	19,356	14,347
New Hampshire	16,478	21,028	26,201	2,249	4,153	4,186	3,043	850
New Jersey	227,891	214,847	259,411	29,369	34,315	34,230	24,002	21,642
New Mexico	73,348	58,552	63,035	8,902	10,317	10,712	9,673	8,520
New York	326,950	311,199	379,149	40,467	55,505	51,802	35,827	31,182
North Carolina	253,503	213,782	229,317	31,035	34,652	38,129	29,893	24,827
North Dakota	W	7,387	7,938	W	864	902	552	W
Ohio	224,739	148,311	166,604	25,322	29,975	29,020	24,168	23,005
Oklahoma	251,516	183,892	220,143	32,133	36,561	41,493	34,899	33,932
Oregon	86,768	58,038	79,046	13,492	14,753	14,196	5,663	3,179
Pennsylvania	412,338	329,324	383,644	53,838	61,612	57,670	46,610	37,167
Rhode Island	W	31,361	38,220	5,378	5,878	5,566	4,450	3,927
South Carolina	135,084	103,020	101,664	22,220	23,075	21,494	17,400	12,351
South Dakota	W	W	6,053	W	1,065	1,207	588	W
Tennessee	76,034	59,049	69,647	10,988	11,266	11,132	8,768	5,411
Texas	1,275,585	1,074,785	1,238,841	153,251	185,720	201,837	156,862	145,064
Utah	45,230	33,163	47,692	6,066	8,147	8,799	4,549	3,814
Vermont	8	10	9	1	*	2	2	*
Virginia	276,122	251,475	234,540	35,404	38,381	38,111	35,358	27,582
Washington	64,592	53,782	65,091	10,127	11,875	12,207	5,656	3,431
West Virginia	W	W	8,043	1,875	1,416	1,347	868	1,053
Wisconsin	106,167	76,027	101,009	13,920	16,285	16,375	10,964	9,113
Wyoming	W	W	1,214	W	W	329	147	W
Total	8,231,934	7,039,225	7,908,642	1,044,317	1,199,802	1,233,375	952,469	853,111

See footnotes at end of table.

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

State	2018					2017		
	April	March	February	January	Total	December	November	October
Alabama	33,462	30,330	24,696	33,691	387,460	30,027	30,663	31,968
Alaska	2,139	3,017	2,393	2,883	27,141	2,879	2,287	2,739
Arizona	17,312	12,787	12,036	11,939	222,843	15,583	12,775	21,580
Arkansas	13,016	10,612	10,513	11,051	133,042	12,806	6,552	10,535
California	32,301	48,607	41,231	46,420	597,171	50,535	48,013	58,492
Colorado	7,543	8,770	9,878	10,417	98,427	8,882	6,641	6,431
Connecticut	8,947	10,374	9,458	9,272	107,213	10,080	10,253	9,317
Delaware	3,279	3,444	2,373	1,973	45,793	2,622	2,381	3,671
District of Columbia	--	--	--	--	*	*	--	--
Florida	96,882	92,078	82,214	90,421	1,196,155	86,507	83,018	106,714
Georgia	22,837	26,741	26,274	31,117	377,452	32,831	26,920	29,911
Hawaii	--	--	--	--	--	--	--	--
Idaho	W	1,132	1,164	1,457	20,214	2,067	1,608	2,046
Illinois	9,179	11,108	W	12,821	116,882	9,016	7,543	8,982
Indiana	13,232	12,631	12,852	15,902	151,820	16,492	12,651	12,159
Iowa	4,460	3,275	2,547	3,088	27,706	3,249	2,098	2,623
Kansas	2,276	1,824	1,149	1,302	23,257	1,582	1,563	2,518
Kentucky	7,394	9,356	7,509	14,489	84,878	8,188	7,550	5,319
Louisiana	20,433	19,558	19,446	24,960	272,156	21,902	15,618	26,045
Maine	918	1,406	W	805	19,088	1,601	W	W
Maryland	7,213	6,630	7,656	3,779	51,303	5,044	5,218	3,262
Massachusetts	8,497	12,610	13,614	12,417	163,128	13,410	9,884	12,070
Michigan	22,768	23,536	16,719	21,548	216,285	21,153	16,756	19,250
Minnesota	5,800	5,489	3,980	4,707	58,713	5,661	4,496	5,591
Mississippi	29,257	26,672	25,981	35,986	346,990	31,169	24,528	25,870
Missouri	2,756	4,530	7,184	4,937	44,834	3,383	3,547	W
Montana	W	273	287	337	5,118	450	340	434
Nebraska	W	415	274	486	5,531	284	282	319
Nevada	13,231	13,525	13,023	14,737	196,646	14,765	14,037	16,823
New Hampshire	616	242	223	916	25,975	1,429	1,850	1,668
New Jersey	21,604	23,835	22,040	16,853	278,263	23,081	18,584	21,751
New Mexico	7,315	6,829	5,685	5,395	75,644	6,207	4,903	5,982
New York	26,279	27,338	30,599	27,950	400,403	31,253	27,835	30,115
North Carolina	20,668	27,791	22,478	24,031	285,843	26,844	22,687	22,530
North Dakota	W	575	W	520	10,100	993	821	899
Ohio	21,898	23,049	22,169	26,130	205,619	21,547	20,491	15,269
Oklahoma	20,986	16,136	17,416	17,962	235,574	19,103	14,548	18,031
Oregon	6,488	11,260	7,384	10,352	88,673	11,711	8,347	10,577
Pennsylvania	37,291	41,541	39,650	36,958	440,807	33,147	32,340	45,997
Rhode Island	3,670	3,598	W	3,178	41,128	3,072	3,304	W
South Carolina	9,546	10,433	7,081	11,485	135,107	9,625	10,191	12,271
South Dakota	W	443	W	549	6,467	540	427	543
Tennessee	5,604	7,150	6,543	9,174	77,410	6,653	5,416	6,291
Texas	100,633	106,891	103,791	121,536	1,383,503	110,222	88,443	110,054
Utah	3,235	3,591	3,245	3,783	40,900	3,738	1,982	2,017
Vermont	2	1	1	--	12	1	1	*
Virginia	19,844	26,511	27,624	27,308	327,126	27,707	26,263	21,680
Washington	4,339	6,190	4,501	6,266	77,234	8,453	6,714	8,284
West Virginia	1,145	275	W	517	11,295	434	915	2,067
Wisconsin	7,434	11,291	10,081	10,705	104,470	10,144	8,004	10,295
Wyoming	W	W	145	W	1,268	154	90	55
Total	707,363	755,745	701,179	784,573	9,250,066	768,229	662,814	779,799

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017							
	September	August	July	June	May	April	March	February
Alabama	35,935	41,891	43,183	33,599	30,994	29,790	30,529	23,174
Alaska	2,590	3,148	3,075	1,798	1,398	1,510	1,916	1,470
Arizona	24,782	31,174	34,001	27,480	19,077	14,165	7,307	5,396
Arkansas	10,781	14,121	16,802	13,498	13,100	11,525	11,030	7,424
California	62,609	78,072	67,121	49,346	35,394	27,417	31,506	37,508
Colorado	9,209	11,276	12,634	8,919	7,299	7,343	5,826	5,680
Connecticut	8,206	10,854	10,807	7,911	6,513	7,058	7,920	8,140
Delaware	3,758	5,123	5,481	5,034	4,977	3,096	4,208	2,807
District of Columbia	--	--	--	--	--	--	--	--
Florida	112,489	128,071	125,089	109,736	110,008	93,552	90,505	72,938
Georgia	33,691	41,187	39,860	34,495	30,628	24,262	27,563	27,669
Hawaii	--	--	--	--	--	--	--	--
Idaho	2,004	2,466	2,481	1,336	1,018	1,049	1,324	1,077
Illinois	11,325	12,376	15,559	12,488	8,386	6,401	10,068	7,394
Indiana	13,843	13,840	15,322	11,947	7,722	9,715	14,366	11,093
Iowa	3,197	3,935	3,785	1,969	1,450	1,609	1,256	952
Kansas	2,034	2,852	4,037	2,604	1,598	1,520	1,451	621
Kentucky	6,666	8,501	10,869	7,897	6,451	6,616	7,421	4,293
Louisiana	25,718	29,240	30,216	26,532	23,915	20,939	21,216	15,835
Maine	W	W	W	W	W	W	W	W
Maryland	5,952	4,900	5,951	4,624	3,267	3,780	4,637	2,708
Massachusetts	13,431	17,504	17,273	15,120	13,217	13,630	13,567	11,524
Michigan	18,700	21,353	23,797	17,749	15,867	13,869	19,052	12,299
Minnesota	5,964	7,274	8,038	3,957	3,115	2,990	3,813	2,922
Mississippi	29,682	36,360	39,236	30,537	30,306	25,274	29,604	18,842
Missouri	4,698	4,582	5,821	4,260	2,943	2,696	3,538	2,583
Montana	532	727	634	315	319	333	343	288
Nebraska	588	769	1,513	450	342	210	358	143
Nevada	17,643	22,428	22,970	19,267	14,582	11,945	12,837	13,168
New Hampshire	3,324	3,468	2,923	2,505	1,776	3,572	1,464	893
New Jersey	23,629	26,502	31,311	26,603	22,211	20,150	26,548	17,255
New Mexico	6,601	7,717	9,181	8,075	6,116	4,531	5,096	5,004
New York	36,648	44,450	47,146	37,934	28,322	25,663	33,506	26,606
North Carolina	24,699	27,503	28,212	24,265	21,983	18,297	24,879	21,931
North Dakota	973	1,111	1,126	761	628	628	675	624
Ohio	17,640	20,914	21,142	17,010	14,752	11,832	15,964	13,968
Oklahoma	21,568	29,133	34,774	24,995	18,664	16,848	12,971	10,845
Oregon	9,407	11,698	9,828	3,116	2,020	2,330	3,256	5,735
Pennsylvania	44,848	46,837	49,613	38,393	27,745	25,534	32,555	30,334
Rhode Island	3,926	4,249	4,480	3,817	3,286	3,093	2,987	2,638
South Carolina	12,622	13,429	14,172	11,987	12,820	11,209	9,993	8,927
South Dakota	707	865	1,071	W	352	W	452	270
Tennessee	6,626	7,456	8,614	7,142	3,618	6,468	8,876	5,105
Texas	125,868	166,502	176,441	142,427	111,299	97,943	93,567	75,007
Utah	3,581	6,207	5,218	3,670	2,516	2,195	2,210	2,677
Vermont	1	1	*	1	2	*	2	1
Virginia	31,012	35,320	37,392	33,514	23,226	19,393	26,434	22,401
Washington	7,571	10,262	8,374	3,605	3,452	4,295	4,373	4,100
West Virginia	2,064	1,470	1,544	1,047	496	W	W	W
Wisconsin	10,809	12,373	13,683	8,059	5,542	5,611	7,853	5,223
Wyoming	116	219	292	85	W	55	W	27
Total	862,068	1,033,682	1,074,275	854,087	706,151	623,889	678,970	558,740

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017							2016
	January	Total	December	November	October	September	August	July
Alabama	25,708	412,913	31,015	30,551	31,645	40,185	43,070	44,142
Alaska	2,331	28,224	2,523	2,469	2,055	2,150	2,189	2,351
Arizona	9,522	255,498	9,591	12,132	20,783	28,584	36,031	36,488
Arkansas	4,866	135,317	7,146	10,822	9,016	9,071	16,253	16,153
California	51,157	666,017	54,108	48,998	63,461	64,331	78,970	71,837
Colorado	8,285	96,923	7,425	5,795	5,992	6,920	10,192	11,729
Connecticut	10,154	123,024	9,504	9,848	9,718	10,069	12,376	11,628
Delaware	2,635	54,156	2,113	3,488	5,359	5,359	7,211	7,632
District of Columbia	--	*	*	*	*	*	*	*
Florida	77,530	1,181,451	76,746	76,993	97,396	108,909	120,692	122,367
Georgia	28,434	379,284	25,902	23,983	26,055	31,766	41,343	43,072
Hawaii	--	--	--	--	--	--	--	--
Idaho	1,738	23,311	1,748	778	1,344	2,641	3,547	2,420
Illinois	7,345	145,716	8,248	8,346	11,723	12,773	19,713	23,160
Indiana	12,669	174,685	15,180	15,085	12,625	13,083	17,277	16,937
Iowa	1,583	20,886	951	843	1,116	1,408	3,477	3,103
Kansas	874	20,399	1,153	1,383	1,253	2,743	2,759	2,848
Kentucky	5,106	66,359	5,391	4,224	4,709	5,408	7,452	7,891
Louisiana	14,982	330,541	18,805	19,759	22,901	28,667	31,944	38,612
Maine	1,402	22,366	813	1,119	1,766	1,829	3,554	3,241
Maryland	1,960	49,486	585	459	3,346	5,521	10,580	9,969
Massachusetts	12,498	156,433	10,256	7,743	9,112	14,109	21,402	21,487
Michigan	16,439	242,787	15,595	17,274	17,156	17,814	30,330	25,486
Minnesota	4,893	65,227	2,892	3,322	3,309	3,281	10,175	8,456
Mississippi	25,581	367,040	27,542	21,348	27,237	36,271	37,750	39,499
Missouri	2,978	52,480	3,732	2,225	3,143	4,917	6,692	7,261
Montana	404	5,363	335	313	404	501	636	649
Nebraska	273	5,791	180	679	452	257	931	961
Nevada	16,181	209,901	15,924	15,676	15,312	17,165	21,862	22,524
New Hampshire	1,104	33,841	2,200	3,078	2,362	3,909	4,582	4,147
New Jersey	20,637	326,982	20,898	19,267	27,406	29,728	40,967	40,703
New Mexico	6,231	81,274	6,201	5,138	6,901	7,003	8,281	8,917
New York	30,926	472,427	33,317	27,930	32,031	44,875	64,632	59,387
North Carolina	22,013	293,272	21,671	23,750	18,534	24,168	30,193	29,125
North Dakota	862	11,320	336	1,237	1,809	909	1,397	1,506
Ohio	15,089	212,528	15,804	15,769	14,351	18,196	22,905	22,526
Oklahoma	14,093	276,964	16,688	21,300	18,832	26,003	29,834	33,906
Oregon	10,649	107,003	12,372	7,806	7,778	13,161	14,200	10,409
Pennsylvania	33,465	501,116	38,578	39,356	39,539	47,232	57,182	56,797
Rhode Island	2,887	46,907	2,828	2,904	2,955	4,459	5,705	5,947
South Carolina	7,863	133,646	7,162	13,842	10,979	13,967	14,823	15,823
South Dakota	490	7,410	252	607	499	546	871	849
Tennessee	5,144	87,692	7,932	3,689	6,424	8,880	10,416	10,110
Texas	85,730	1,534,063	89,011	94,746	111,464	144,410	174,678	170,485
Utah	4,889	59,684	4,438	3,529	4,025	4,590	6,195	6,592
Vermont	2	14	2	2	2	3	3	1
Virginia	22,783	294,524	20,971	20,924	18,088	28,121	38,312	36,894
Washington	7,748	81,728	7,547	4,450	4,641	10,306	12,263	9,406
West Virginia	W	10,167	131	361	1,632	1,134	680	672
Wisconsin	6,873	119,613	6,898	6,597	5,109	7,893	14,518	13,658
Wyoming	97	1,514	148	106	45	62	190	205
Total	647,362	9,985,270	670,787	662,046	743,796	915,286	1,151,236	1,139,968

See footnotes at end of table.

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

State	2016					
	June	May	April	March	February	January
Alabama	39,006	33,044	26,247	30,787	29,302	33,919
Alaska	2,216	2,405	2,436	2,387	2,331	2,712
Arizona	31,042	20,255	18,638	14,142	12,559	15,254
Arkansas	17,126	12,107	10,434	12,695	5,866	8,629
California	61,452	39,062	36,115	38,154	48,599	60,932
Colorado	10,390	8,004	8,790	7,415	6,405	7,868
Connecticut	9,199	10,245	11,368	8,897	9,694	10,479
Delaware	6,015	3,847	4,522	3,849	2,510	2,250
District of Columbia	*	*	*	*	*	*
Florida	114,348	107,010	99,955	90,865	79,445	86,725
Georgia	39,622	33,281	30,539	29,414	25,673	28,632
Hawaii	--	--	--	--	--	--
Idaho	1,942	1,346	530	1,736	2,392	2,887
Illinois	13,199	9,544	9,543	12,168	8,962	8,337
Indiana	15,362	15,092	10,314	15,464	13,185	15,082
Iowa	2,230	2,492	698	1,464	1,471	1,634
Kansas	3,165	1,825	1,051	933	566	720
Kentucky	6,703	4,952	4,470	6,024	3,725	5,411
Louisiana	33,563	30,749	25,535	27,234	24,798	27,974
Maine	1,765	1,917	1,408	606	1,897	2,451
Maryland	3,737	3,951	3,600	4,267	2,274	1,197
Massachusetts	17,082	15,038	11,333	10,265	9,526	9,082
Michigan	21,471	22,513	22,958	18,925	16,849	16,416
Minnesota	6,090	6,106	5,804	5,186	5,206	5,400
Mississippi	36,028	31,812	22,463	26,478	29,753	30,858
Missouri	7,435	4,069	5,178	2,591	2,759	2,479
Montana	570	434	402	361	341	416
Nebraska	1,344	257	389	150	103	88
Nevada	21,280	17,080	14,884	15,431	14,835	17,928
New Hampshire	2,854	3,009	3,609	749	1,145	2,196
New Jersey	31,226	24,677	24,493	24,328	20,351	22,939
New Mexico	7,423	6,235	6,183	6,245	5,938	6,811
New York	43,633	39,014	33,122	31,526	29,327	33,634
North Carolina	23,830	21,849	24,029	28,073	24,788	23,262
North Dakota	1,347	662	178	664	840	435
Ohio	17,446	11,314	16,532	18,262	19,433	19,989
Oklahoma	31,636	22,917	20,280	17,695	16,177	21,696
Oregon	7,931	3,311	3,049	7,267	9,347	10,372
Pennsylvania	46,717	35,525	32,992	36,829	33,779	36,590
Rhode Island	4,743	4,988	2,924	4,488	2,528	2,438
South Carolina	12,181	10,114	6,711	10,113	8,074	9,858
South Dakota	739	558	642	629	674	545
Tennessee	9,258	6,236	5,148	6,916	6,326	6,356
Texas	151,466	132,444	117,564	119,813	105,227	122,753
Utah	6,303	5,222	5,155	4,493	4,249	4,892
Vermont	--	2	*	1	--	*
Virginia	29,260	21,823	13,517	20,405	22,925	23,283
Washington	5,834	4,514	2,305	3,785	7,033	9,645
West Virginia	1,298	1,658	1,098	1,077	222	204
Wisconsin	11,634	9,701	9,626	13,359	10,355	10,265
Wyoming	169	223	135	161	37	32
Total	970,308	804,431	718,893	744,765	689,800	773,954

^a 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.

^w 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: U.S. 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	2016	2018				
	9-Month YTD	9-Month YTD	9-Month YTD	September	August	July	June	May
Alabama	524,725	471,204	501,973	61,167	61,202	63,193	57,003	58,597
Alaska	52,697	46,542	45,038	5,142	5,567	5,339	4,217	4,231
Arizona	NA	236,948	280,649	40,524	43,399	42,228	NA	NA
Arkansas	NA	226,204	224,297	23,394	27,117	27,042	25,340	25,353
California	NA	1,503,463	1,549,159	161,682	NA	188,258	144,409	139,102
Colorado	NA	249,046	255,196	21,990	22,683	24,266	NA	NA
Connecticut	194,650	166,514	178,565	17,734	20,259	19,539	16,938	14,915
Delaware	NA	74,811	81,789	6,868	7,875	NA	NA	NA
District of Columbia	NA	19,993	19,850	985	1,213	1,077	1,158	1,084
Florida	NA	1,052,476	1,066,639	143,461	143,973	143,114	NA	119,934
Georgia	539,245	502,214	535,701	55,136	58,913	61,608	55,047	53,627
Hawaii	NA	2,338	2,260	257	281	277	270	266
Idaho	70,039	72,147	70,508	7,269	6,521	6,788	5,510	5,089
Illinois	781,133	665,700	712,263	52,589	55,980	56,141	48,732	55,347
Indiana	NA	513,781	546,029	49,269	54,640	57,518	53,064	58,722
Iowa	309,829	269,495	228,522	28,159	29,017	28,712	26,520	28,156
Kansas	196,656	170,365	169,056	15,454	17,067	18,661	17,245	18,663
Kentucky	234,886	193,616	191,159	20,994	21,141	20,796	17,893	20,921
Louisiana	NA	1,054,090	1,094,662	126,611	129,063	132,437	129,209	128,844
Maine	NA	35,120	40,727	3,190	NA	NA	3,097	2,998
Maryland	NA	148,406	158,869	17,526	18,332	17,698	14,955	NA
Massachusetts	324,292	318,711	311,256	22,089	28,290	26,319	20,165	20,666
Michigan	NA	581,886	629,326	NA	47,725	45,757	42,205	54,124
Minnesota	NA	312,571	321,741	24,769	24,498	25,255	22,349	NA
Mississippi	428,443	383,484	405,570	46,185	51,712	51,099	45,582	46,694
Missouri	223,473	173,821	187,866	14,236	16,026	15,993	14,713	15,980
Montana	NA	48,453	44,884	4,095	3,916	3,733	3,698	4,326
Nebraska	123,126	112,885	112,007	10,249	9,228	10,897	9,319	11,054
Nevada	225,630	219,499	227,690	25,469	28,731	30,255	24,533	20,196
New Hampshire	NA	38,959	43,033	3,400	5,227	5,231	4,167	2,155
New Jersey	NA	506,296	566,791	NA	48,037	48,643	39,460	NA
New Mexico	NA	105,617	113,497	12,236	NA	13,807	12,997	NA
New York	NA	888,014	945,065	72,796	86,731	84,055	NA	70,873
North Carolina	NA	361,791	391,135	42,450	46,922	49,951	42,744	37,509
North Dakota	NA	46,506	44,405	4,470	4,281	4,244	3,961	NA
Ohio	747,379	615,051	651,191	55,424	59,322	58,009	54,286	55,593
Oklahoma	482,466	390,941	424,718	52,259	55,912	59,351	53,754	54,904
Oregon	NA	153,808	162,564	20,087	20,733	20,127	12,424	10,408
Pennsylvania	868,289	733,209	783,936	80,286	88,137	83,815	73,067	66,835
Rhode Island	67,481	57,715	63,458	6,741	7,199	6,851	5,803	5,440
South Carolina	NA	200,463	202,614	30,920	32,577	30,722	26,818	22,337
South Dakota	NA	53,842	53,644	5,404	5,190	5,241	4,756	NA
Tennessee	NA	224,799	235,382	25,594	25,827	25,661	23,842	21,920
Texas	NA	2,552,438	2,711,404	315,614	351,562	368,982	317,005	315,404
Utah	NA	131,988	143,985	12,161	13,911	14,667	11,266	NA
Vermont	9,216	8,239	8,408	636	593	586	617	612
Virginia	NA	418,404	403,602	NA	49,793	51,012	NA	40,911
Washington	NA	213,021	204,200	21,811	21,654	22,220	16,636	15,068
West Virginia	NA	65,540	62,706	5,808	5,664	5,512	4,803	NA
Wisconsin	389,676	331,058	352,859	31,039	32,620	32,076	27,067	28,977
Wyoming	NA	59,329	56,065	NA	5,647	5,540	5,000	NA
Total	20,148,075	17,982,810	18,817,913	1,949,575	2,099,734	2,130,689	1,852,759	1,845,801

See footnotes at end of table.

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

(million cubic feet) – continued

State	2018					2017		
	April	March	February	January	Total	December	November	October
Alabama	54,592	54,530	46,885	67,556	633,536	58,705	52,507	51,120
Alaska	5,165	7,405	7,496	8,135	67,102	7,777	7,037	5,747
Arizona	NA	NA	NA	NA	308,987	25,781	19,193	27,065
Arkansas	28,688	29,315	30,321	NA	306,547	34,479	21,990	23,874
California	145,276	192,850	179,123	195,397	2,048,294	209,200	167,614	168,017
Colorado	NA	NA	NA	NA	355,187	47,843	32,413	25,884
Connecticut	21,438	27,151	25,234	31,441	232,737	28,386	22,629	15,209
Delaware	NA	NA	NA	NA	98,913	9,367	7,332	7,403
District of Columbia	2,212	3,801	3,548	NA	29,055	5,148	2,408	1,506
Florida	112,873	109,650	97,622	110,621	1,376,529	104,113	98,545	121,395
Georgia	48,663	63,136	55,693	87,423	689,147	77,578	57,534	51,820
Hawaii	276	273	261	NA	3,104	259	257	249
Idaho	6,724	9,648	10,709	11,781	104,810	13,771	9,941	8,950
Illinois	97,499	118,702	130,933	165,211	969,718	143,381	99,160	61,477
Indiana	69,062	82,595	81,420	NA	730,238	95,968	68,416	52,073
Iowa	37,050	40,324	42,377	49,515	378,999	45,445	35,968	28,090
Kansas	22,644	23,925	28,852	34,145	240,053	30,096	23,014	16,578
Kentucky	24,607	32,219	29,689	46,628	274,656	35,789	26,722	18,529
Louisiana	116,874	118,632	116,493	NA	1,426,152	132,127	116,532	123,403
Maine	3,501	4,665	5,428	4,888	48,461	5,531	4,388	3,422
Maryland	NA	NA	NA	35,173	215,283	33,267	22,801	10,808
Massachusetts	35,985	51,557	56,709	62,513	441,202	60,043	37,900	24,547
Michigan	90,677	112,839	NA	134,291	848,731	124,966	86,103	55,775
Minnesota	44,304	50,991	59,746	66,494	448,431	59,913	45,436	30,511
Mississippi	44,187	42,545	41,233	59,207	511,522	49,854	39,515	38,668
Missouri	24,566	32,362	40,619	48,979	253,061	39,768	25,416	14,056
Montana	6,221	NA	9,727	9,847	73,367	10,357	8,186	6,371
Nebraska	14,668	16,427	19,656	21,629	158,234	18,969	15,090	11,290
Nevada	20,387	24,697	24,399	26,963	291,219	27,143	21,494	23,082
New Hampshire	3,082	3,565	NA	5,279	51,997	5,492	4,498	3,048
New Jersey	NA	NA	NA	NA	703,505	95,136	57,581	44,492
New Mexico	NA	15,822	14,549	17,377	144,797	17,116	11,383	10,681
New York	111,189	142,379	139,861	175,519	1,230,272	162,415	110,597	69,247
North Carolina	39,795	57,981	45,925	NA	507,118	60,558	46,758	38,011
North Dakota	6,553	NA	7,642	8,048	66,201	8,187	6,406	5,102
Ohio	92,247	115,822	109,312	147,363	900,058	132,665	94,369	57,973
Oklahoma	47,925	45,227	53,681	59,453	524,660	55,594	39,415	38,710
Oregon	16,963	25,247	NA	25,832	226,396	30,130	21,657	20,801
Pennsylvania	95,014	126,656	112,475	142,005	1,025,040	119,724	92,549	79,557
Rhode Island	7,517	9,077	8,538	10,315	79,562	9,502	7,228	5,117
South Carolina	21,417	NA	20,223	31,695	274,328	26,832	24,073	22,960
South Dakota	NA	NA	8,641	9,384	74,907	8,717	6,885	5,462
Tennessee	29,338	NA	34,873	NA	318,011	42,617	28,586	22,009
Texas	274,804	299,937	293,407	NA	3,398,560	311,224	262,223	272,675
Utah	14,135	22,143	20,716	24,554	189,225	28,155	16,769	12,314
Vermont	1,235	1,511	1,469	1,958	11,922	1,747	1,257	679
Virginia	39,433	58,480	54,795	NA	567,057	62,562	49,634	36,457
Washington	22,452	NA	31,303	33,569	309,587	39,647	30,537	26,383
West Virginia	8,400	10,702	9,659	13,542	94,497	12,036	9,256	7,666
Wisconsin	46,911	57,013	62,515	71,457	480,976	67,642	48,341	33,934
Wyoming	7,471	8,437	9,032	8,901	82,336	9,258	7,329	6,419
Total	2,134,009	2,554,682	2,499,805	3,081,022	24,824,284	2,841,983	2,152,873	1,846,618

See footnotes at end of table.

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

(million cubic feet) – continued

State	2017							
	September	August	July	June	May	April	March	February
Alabama	53,284	59,505	60,613	51,195	49,493	48,288	53,399	44,023
Alaska	4,408	4,540	4,327	3,327	3,611	4,538	7,108	6,317
Arizona	29,466	35,675	38,540	32,356	24,948	20,879	15,951	16,640
Arkansas	22,056	25,514	27,659	24,627	25,359	23,715	26,912	23,804
California	165,626	183,216	167,601	147,140	143,129	136,563	156,928	172,459
Colorado	19,771	21,291	22,248	19,040	23,360	27,374	30,709	34,486
Connecticut	13,453	16,036	16,071	13,297	13,235	16,255	25,424	23,889
Delaware	7,509	8,346	8,403	8,226	8,364	6,295	9,944	8,364
District of Columbia	1,205	1,206	1,222	1,278	1,622	1,795	3,717	3,377
Florida	125,040	141,640	138,404	123,194	124,599	108,787	107,284	88,431
Georgia	50,492	60,014	58,267	53,488	50,845	44,648	59,656	57,498
Hawaii	250	253	244	270	244	256	271	259
Idaho	6,498	6,001	6,188	5,120	5,844	7,245	8,952	10,682
Illinois	46,494	46,759	49,042	46,656	57,270	63,296	111,839	102,317
Indiana	48,404	47,049	48,033	43,858	45,350	51,729	75,599	67,304
Iowa	24,688	26,006	25,638	24,013	25,761	28,310	36,675	34,889
Kansas	15,283	16,853	18,430	15,666	14,480	17,271	21,421	20,858
Kentucky	17,218	18,816	20,641	18,255	18,179	19,348	27,395	23,571
Louisiana	118,419	125,642	124,012	118,370	116,680	112,748	116,954	103,637
Maine	3,450	3,547	3,824	3,341	3,238	3,684	4,957	4,181
Maryland	12,139	10,636	12,342	10,747	11,723	12,520	27,258	23,067
Massachusetts	22,926	26,633	26,242	25,133	28,267	34,077	55,593	46,521
Michigan	43,045	44,004	44,647	40,497	50,650	56,797	101,213	87,669
Minnesota	23,942	25,566	25,432	22,701	25,883	32,514	47,705	47,075
Mississippi	41,755	48,523	50,682	42,080	42,884	37,527	44,572	32,966
Missouri	13,189	13,132	13,900	12,764	13,817	15,304	26,265	25,902
Montana	4,266	3,691	3,465	3,012	3,474	4,993	6,781	8,018
Nebraska	8,945	9,294	10,884	8,778	10,291	11,592	15,168	16,189
Nevada	22,731	27,051	27,680	24,437	20,450	19,042	22,180	24,634
New Hampshire	4,408	4,550	3,942	3,606	3,307	5,476	5,007	3,976
New Jersey	38,167	39,526	45,873	43,761	44,096	48,294	87,199	70,997
New Mexico	9,823	10,924	12,343	11,255	10,071	9,536	11,134	12,867
New York	68,377	75,654	77,970	72,097	72,823	84,599	151,049	131,130
North Carolina	36,736	39,646	39,801	35,827	34,837	31,908	48,901	42,892
North Dakota	3,466	4,132	4,094	4,021	4,312	5,157	6,839	6,262
Ohio	49,278	50,545	49,665	46,100	53,118	56,698	101,096	91,837
Oklahoma	40,809	48,168	53,129	43,774	39,046	39,049	39,004	37,127
Oregon	16,130	17,619	15,743	10,063	10,610	13,365	16,941	21,366
Pennsylvania	70,996	71,103	74,476	64,582	61,436	65,571	108,014	99,298
Rhode Island	5,247	5,595	5,810	5,246	5,296	5,843	8,722	7,452
South Carolina	21,544	22,667	23,128	20,932	22,433	21,094	23,847	21,206
South Dakota	4,873	5,036	5,157	4,622	4,985	5,596	7,217	7,095
Tennessee	20,697	21,479	22,182	21,100	18,960	22,038	33,006	29,179
Texas	273,151	323,018	336,221	298,771	263,747	251,777	264,981	246,261
Utah	9,914	11,811	11,244	10,765	10,643	13,851	14,753	18,550
Vermont	589	561	533	485	679	854	1,562	1,382
Virginia	43,767	47,691	49,173	46,203	37,565	35,360	54,617	48,190
Washington	18,860	20,319	18,381	14,295	17,118	22,439	28,292	30,950
West Virginia	6,678	5,900	5,824	5,398	5,408	5,995	10,234	9,036
Wisconsin	27,042	28,987	29,148	23,918	27,096	32,142	52,868	47,205
Wyoming	5,019	5,033	4,887	4,995	6,172	6,748	8,207	8,329
Total	1,741,521	1,916,404	1,943,403	1,734,683	1,716,805	1,750,781	2,331,317	2,151,615

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
	January	Total	December	November	October	September	August	July
Alabama	51,405	657,442	56,229	50,142	49,098	56,306	59,650	60,786
Alaska	8,365	66,244	8,236	7,263	5,708	4,284	3,624	3,704
Arizona	22,493	346,864	20,711	19,219	26,285	33,491	40,604	41,072
Arkansas	26,558	296,175	27,817	24,243	19,818	19,062	26,445	25,793
California	230,802	2,108,402	217,558	173,278	168,407	171,347	189,633	175,135
Colorado	50,767	354,036	48,093	29,725	21,022	17,151	19,706	21,082
Connecticut	28,853	243,618	27,095	21,341	16,616	15,162	17,471	16,793
Delaware	9,359	107,613	8,466	8,114	9,243	8,778	10,504	11,006
District of Columbia	4,569	27,987	4,224	2,596	1,316	956	992	1,009
Florida	95,097	1,363,599	93,522	92,004	111,434	122,388	134,141	136,095
Georgia	67,305	699,777	66,524	51,394	46,157	49,244	59,034	60,677
Hawaii	292	3,038	268	258	252	267	256	246
Idaho	15,617	100,701	14,718	8,280	7,195	6,813	7,021	6,148
Illinois	142,027	999,944	147,431	80,793	59,457	47,408	52,694	56,561
Indiana	86,454	744,918	91,896	61,099	45,894	45,236	49,930	50,085
Iowa	43,515	321,194	42,159	28,057	22,457	18,988	21,383	20,404
Kansas	30,105	233,473	31,660	18,746	14,011	13,872	17,500	16,536
Kentucky	30,194	260,708	31,721	21,120	16,707	15,565	17,924	17,860
Louisiana	117,629	1,439,796	120,944	112,264	111,926	116,316	122,541	130,195
Maine	4,898	52,476	4,109	3,526	4,114	3,763	5,462	5,140
Maryland	27,975	211,579	25,895	15,327	11,489	11,207	16,145	15,594
Massachusetts	53,319	419,448	50,315	32,838	25,040	23,309	30,155	30,228
Michigan	113,364	867,959	112,515	72,547	53,571	42,019	51,921	46,709
Minnesota	61,753	438,374	55,355	34,989	26,289	19,712	27,604	25,641
Mississippi	42,494	521,540	44,433	34,246	37,292	46,512	48,853	50,639
Missouri	39,548	260,601	39,957	19,699	13,079	13,071	14,742	15,409
Montana	10,754	67,011	10,110	6,799	5,218	3,906	3,423	3,441
Nebraska	21,745	156,916	20,390	13,702	10,815	9,561	11,694	11,084
Nevada	31,294	300,323	28,689	22,879	21,065	22,053	26,392	27,115
New Hampshire	4,686	57,765	5,711	5,400	3,620	4,928	5,509	5,079
New Jersey	88,382	756,833	86,360	54,218	49,463	46,989	58,902	60,273
New Mexico	17,664	155,021	17,608	12,939	10,978	10,345	11,326	12,026
New York	154,315	1,272,140	148,559	100,694	77,822	75,139	96,419	90,974
North Carolina	51,243	519,409	51,703	44,312	32,259	35,766	42,421	40,519
North Dakota	8,224	64,421	7,434	6,154	6,428	4,345	3,885	4,147
Ohio	116,713	897,048	113,779	77,338	54,740	47,202	51,579	50,136
Oklahoma	50,835	558,828	53,019	43,616	37,475	42,837	48,385	52,402
Oregon	31,971	231,055	31,942	19,098	17,451	19,838	19,872	16,533
Pennsylvania	117,733	1,072,102	121,330	92,607	74,230	71,165	82,039	80,239
Rhode Island	8,504	83,432	8,477	6,361	5,136	5,803	6,779	7,004
South Carolina	23,613	273,172	23,350	26,745	20,463	22,621	23,515	24,182
South Dakota	9,262	74,082	8,839	6,425	5,174	4,671	5,041	4,746
Tennessee	36,157	319,675	40,547	23,353	20,393	21,312	22,962	22,376
Texas	294,512	3,527,335	292,696	257,158	266,076	296,870	333,459	328,972
Utah	30,457	201,551	28,096	17,339	12,131	10,750	11,357	12,399
Vermont	1,594	11,959	1,619	1,102	831	596	575	584
Virginia	55,838	528,331	50,358	42,442	31,929	40,093	49,929	48,466
Washington	42,367	289,453	40,216	23,838	21,200	21,829	22,237	19,605
West Virginia	11,068	88,389	10,786	8,027	6,870	5,206	4,599	4,818
Wisconsin	62,651	478,626	61,918	36,869	26,981	23,371	29,775	28,226
Wyoming	9,939	79,775	10,003	7,434	6,274	4,986	5,223	5,143
Total	2,696,281	25,212,159	2,665,391	1,979,957	1,748,897	1,774,412	2,023,229	2,001,036

See footnotes at end of table.

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

(million cubic feet) – continued

State	2016					
	June	May	April	March	February	January
Alabama	56,417	52,165	45,414	52,232	54,608	64,396
Alaska	3,778	4,356	5,063	6,175	6,395	7,660
Arizona	36,228	26,217	25,567	22,214	24,125	31,130
Arkansas	26,965	22,950	22,188	27,261	24,062	29,571
California	162,945	145,157	144,618	162,754	174,197	223,373
Colorado	20,175	23,832	30,476	35,560	38,671	48,543
Connecticut	14,221	17,080	21,107	21,405	26,671	28,655
Delaware	9,088	7,617	8,678	8,680	8,433	9,006
District of Columbia	998	1,447	2,073	2,459	4,775	5,141
Florida	127,361	121,474	115,483	107,347	96,617	105,732
Georgia	57,356	53,101	52,685	56,885	67,243	79,477
Hawaii	242	239	258	250	246	257
Idaho	5,340	5,578	5,351	9,231	11,131	13,896
Illinois	46,464	54,860	76,116	98,353	128,247	151,561
Indiana	48,813	54,324	56,286	67,425	80,093	93,837
Iowa	19,145	21,192	22,888	28,997	34,683	40,842
Kansas	15,584	15,211	15,151	19,384	24,431	31,387
Kentucky	16,774	17,148	18,359	24,222	28,590	34,717
Louisiana	121,850	122,287	115,313	120,300	115,837	130,023
Maine	3,551	4,094	4,055	3,754	5,004	5,905
Maryland	9,865	12,680	15,811	19,870	26,982	30,715
Massachusetts	26,479	29,521	34,459	39,498	47,175	50,432
Michigan	43,592	55,178	79,238	87,032	107,023	116,614
Minnesota	23,830	27,447	36,311	43,567	54,432	63,197
Mississippi	47,771	43,599	34,078	38,750	45,385	49,982
Missouri	15,792	14,576	18,313	22,035	32,878	41,049
Montana	3,357	4,164	4,611	6,290	6,873	8,819
Nebraska	10,429	9,689	11,125	12,952	15,961	19,513
Nevada	26,162	22,893	21,472	23,474	25,494	32,635
New Hampshire	3,846	4,373	5,666	3,329	4,399	5,905
New Jersey	50,907	48,812	58,705	67,513	80,050	94,640
New Mexico	10,853	10,336	11,162	13,229	15,175	19,043
New York	77,027	83,430	100,622	115,411	143,852	162,191
North Carolina	35,323	34,844	39,726	46,701	55,682	60,153
North Dakota	4,606	4,269	4,057	5,593	6,242	7,260
Ohio	46,205	49,902	72,736	85,031	114,458	133,943
Oklahoma	50,340	44,161	41,277	42,213	44,300	58,803
Oregon	14,403	10,777	11,726	19,837	22,433	27,145
Pennsylvania	71,414	67,464	78,262	91,864	112,995	128,493
Rhode Island	5,963	6,982	6,136	8,439	7,873	8,480
South Carolina	20,952	19,683	17,373	21,786	24,033	28,467
South Dakota	4,658	5,043	6,080	6,770	7,766	8,869
Tennessee	21,878	19,804	20,683	26,746	36,150	43,470
Texas	298,407	279,180	269,291	289,057	285,885	330,283
Utah	11,910	13,340	15,995	18,125	22,264	27,844
Vermont	574	663	1,073	1,122	1,490	1,730
Virginia	41,696	35,152	31,321	42,386	53,844	60,715
Washington	16,373	16,340	15,916	24,887	29,006	38,006
West Virginia	5,078	5,695	6,828	8,539	10,025	11,918
Wisconsin	27,199	29,547	40,041	50,110	57,895	66,696
Wyoming	4,940	6,012	6,277	7,422	7,467	8,596
Total	1,825,125	1,785,885	1,903,501	2,164,467	2,459,545	2,880,714

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

^R Revised data.

^{NA} 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: U.S. 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	2016	2018				
	9-Month YTD	9-Month YTD	9-Month YTD	September	August	July	June	May
Alabama	NA	3.92	3.28	3.97	3.70	3.81	3.93	3.81
Alaska	7.56	7.10	6.60	6.58	6.34	6.39	6.43	7.02
Arizona	NA	4.32	3.84	2.67	NA	3.04	3.23	2.88
Arkansas	4.37	4.97	4.31	5.67	5.81	6.20	5.85	5.66
California	NA	3.48	2.72	3.24	NA	NA	2.67	2.34
Colorado	3.48	4.02	3.42	4.38	4.40	4.09	4.04	3.51
Connecticut	NA	4.74	3.56	7.99	NA	NA	7.94	7.10
Delaware	5.80	5.83	5.06	10.97	10.35	10.70	9.50	8.13
District of Columbia	--	--	--	--	--	--	--	--
Florida	NA	5.67	3.78	7.11	7.00	7.21	6.48	6.76
Georgia	3.80	4.25	3.51	3.91	3.74	3.99	3.87	3.79
Hawaii	19.98	16.38	13.65	20.04	18.48	20.03	20.87	22.70
Idaho	NA	3.03	3.21	2.49	2.15	2.07	NA	2.39
Illinois	3.57	3.88	3.25	3.58	4.27	3.43	3.46	4.16
Indiana	3.83	4.00	3.46	4.21	4.83	4.67	4.57	4.35
Iowa	3.93	4.25	3.64	4.34	4.47	3.77	4.00	3.93
Kansas	4.13	4.71	3.95	7.03	5.44	5.05	5.60	5.82
Kentucky	3.80	4.01	3.20	3.57	3.51	3.48	3.47	3.86
Louisiana	3.90	4.04	3.47	3.69	3.50	3.70	3.64	3.70
Maine	7.86	6.40	6.67	6.37	7.06	6.92	6.51	6.09
Maryland	4.79	4.97	4.17	6.49	6.41	7.16	6.26	6.61
Massachusetts	NA	5.35	4.43	10.28	NA	10.96	9.51	6.47
Michigan	3.35	3.61	3.57	3.17	3.12	3.15	3.14	3.27
Minnesota	NA	4.03	3.55	4.32	NA	3.65	4.31	3.16
Mississippi	3.98	4.47	3.50	3.69	3.45	3.76	3.84	3.86
Missouri	4.30	4.96	4.17	6.60	7.20	7.02	6.61	6.36
Montana	NA	3.41	3.06	NA	3.13	2.70	2.86	NA
Nebraska	3.88	4.32	3.70	4.07	4.53	4.26	4.24	3.92
Nevada	3.47	4.32	3.57	3.70	3.01	3.40	3.48	3.08
New Hampshire	NA	5.76	5.52	8.57	9.77	9.35	NA	6.11
New Jersey	4.61	4.42	3.89	4.69	4.96	4.12	4.65	4.15
New Mexico	NA	3.65	2.79	NA	NA	2.93	3.00	2.45
New York	4.72	4.37	3.53	8.30	8.49	8.04	7.08	6.08
North Carolina	3.91	4.24	3.33	5.65	5.75	6.07	5.78	5.20
North Dakota	NA	4.29	3.63	NA	NA	3.20	NA	NA
Ohio	NA	3.92	3.16	3.34	2.86	NA	NA	NA
Oklahoma	3.73	4.70	3.90	4.27	4.41	5.02	4.52	3.90
Oregon	3.96	4.04	4.26	5.01	5.53	5.85	4.74	4.88
Pennsylvania	NA	4.48	3.65	7.17	NA	6.28	5.98	6.13
Rhode Island	2.31	2.22	2.19	2.43	2.41	2.39	2.35	2.35
South Carolina	4.14	4.24	3.50	4.15	4.09	4.13	4.16	4.20
South Dakota	NA	4.18	3.43	NA	4.68	4.09	NA	NA
Tennessee	3.97	4.18	3.24	4.12	3.86	4.13	3.97	3.83
Texas	NA	4.69	3.71	4.96	4.75	4.74	4.71	4.54
Utah	NA	5.16	5.15	3.62	3.29	NA	3.86	4.64
Vermont	4.65	5.10	5.28	4.08	4.07	3.97	3.77	3.86
Virginia	NA	4.76	4.01	6.22	6.37	6.09	5.95	5.68
Washington	3.23	3.69	3.56	3.63	3.36	3.64	3.66	3.29
West Virginia	NA	4.00	3.49	5.36	5.72	NA	5.01	4.12
Wisconsin	4.09	4.33	3.71	4.79	4.55	4.41	4.62	4.04
Wyoming	3.67	3.94	3.40	3.24	3.39	3.20	2.93	3.05
Total	4.10	4.24	3.59	4.73	4.85	4.69	4.46	4.13

See footnotes at end of table.

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

State	2018					2017			
	April	March	February	January	Total	December	November	October	
Alabama	3.57	3.48	NA	3.37	3.80	3.42	3.62	3.77	
Alaska	6.76	8.00	8.25	8.24	7.03	6.94	7.02	6.59	
Arizona	3.01	4.18	4.25	4.49	4.36	4.36	5.06	3.87	
Arkansas	4.47	4.03	3.98	3.85	4.70	3.79	4.56	5.40	
California	2.42	2.76	3.12	2.91	3.45	3.66	3.24	2.95	
Colorado	3.04	3.31	3.40	3.38	3.90	3.44	3.88	3.96	
Connecticut	4.72	4.10	5.04	4.85	4.44	3.70	3.71	4.22	
Delaware	5.40	4.34	4.52	5.18	5.60	4.46	5.19	8.31	
District of Columbia	--	--	--	--	--	--	--	--	
Florida	NA	6.47	7.85	5.65	5.77	5.60	6.41	6.32	
Georgia	3.59	3.62	4.56	3.48	4.15	3.91	3.80	4.08	
Hawaii	21.03	19.73	18.34	18.74	16.62	17.11	18.23	16.69	
Idaho	NA	2.87	2.85	2.67	2.90	2.72	2.90	2.24	
Illinois	3.33	3.30	3.35	3.91	3.76	3.59	3.55	3.46	
Indiana	3.25	3.61	3.79	3.97	3.85	3.55	3.71	3.68	
Iowa	3.44	3.61	4.13	4.06	4.30	4.96	3.90	3.71	
Kansas	3.64	3.84	3.72	3.71	4.51	3.83	4.24	5.08	
Kentucky	3.64	3.89	4.08	3.77	3.92	3.74	3.84	3.66	
Louisiana	3.72	3.94	4.30	4.17	4.02	4.06	3.92	3.91	
Maine	5.39	6.40	8.95	10.35	6.50	7.90	4.99	6.17	
Maryland	4.59	3.90	4.55	4.64	4.73	4.10	4.27	5.36	
Massachusetts	5.35	4.69	3.59	9.36	5.28	5.24	4.60	6.28	
Michigan	3.05	3.32	3.69	3.38	3.57	3.56	3.47	3.35	
Minnesota	3.12	3.62	3.92	3.74	4.24	5.61	3.72	3.46	
Mississippi	3.72	3.92	4.48	4.02	4.39	4.03	4.55	4.45	
Missouri	3.93	3.71	3.90	3.72	4.63	3.73	4.11	5.02	
Montana	2.94	NA	3.29	3.39	3.28	3.20	3.22	2.47	
Nebraska	3.10	3.74	3.96	4.04	4.31	4.74	3.95	3.71	
Nevada	3.34	3.20	3.63	3.76	4.13	3.47	4.18	3.73	
New Hampshire	4.38	5.01	7.91	9.96	5.86	6.87	4.82	5.29	
New Jersey	4.29	4.34	4.55	5.05	4.27	4.08	3.93	3.60	
New Mexico	2.41	3.08	3.32	3.17	3.51	3.15	3.41	3.22	
New York	3.56	3.19	3.41	5.75	4.29	3.90	4.17	5.11	
North Carolina	3.87	3.26	3.88	3.46	3.92	3.02	3.54	4.42	
North Dakota	2.88	NA	4.15	4.24	4.28	4.36	4.17	4.23	
Ohio	3.45	3.56	NA	3.66	3.96	4.22	3.89	3.57	
Oklahoma	3.44	3.60	3.69	3.61	4.52	3.96	4.51	4.84	
Oregon	3.54	3.43	3.47	3.61	3.90	3.44	3.76	3.75	
Pennsylvania	3.74	4.09	4.19	3.85	4.26	3.64	4.00	4.47	
Rhode Island	2.33	2.32	2.32	2.25	2.22	2.22	2.20	2.21	
South Carolina	4.21	3.90	4.22	4.21	4.13	3.81	3.88	3.93	
South Dakota	2.91	NA	4.17	3.91	4.39	5.60	4.11	3.80	
Tennessee	3.58	3.81	4.18	4.08	4.09	3.88	3.98	4.00	
Texas	NA	5.29	5.42	5.39	4.80	4.94	5.32	4.96	
Utah	5.52	5.54	6.35	5.77	5.30	5.76	5.78	4.95	
Vermont	4.61	4.75	5.15	5.29	5.03	5.07	4.70	4.56	
Virginia	4.60	3.62	NA	4.45	4.53	3.92	4.00	4.99	
Washington	3.00	3.01	3.28	3.19	3.51	3.21	3.32	2.79	
West Virginia	3.47	3.40	3.89	3.36	3.86	3.52	3.61	3.88	
Wisconsin	3.44	3.75	4.36	4.04	4.24	3.90	4.25	4.21	
Wyoming	3.64	3.84	4.01	3.86	3.92	3.83	4.01	3.82	
Total	3.64	3.71	3.99	4.29	4.16	4.00	3.97	4.03	

See footnotes at end of table.

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

State	2017							
	September	August	July	June	May	April	March	February
Alabama	3.67	3.90	4.02	3.96	4.02	3.73	3.66	4.18
Alaska	6.29	5.83	5.76	5.69	6.02	6.96	7.42	7.54
Arizona	3.93	4.01	4.14	4.14	3.75	3.98	4.95	4.71
Arkansas	6.30	6.67	6.72	6.85	5.73	5.83	4.35	4.37
California	3.09	3.22	3.47	3.55	3.38	3.31	3.15	3.59
Colorado	5.10	4.65	5.09	4.68	3.98	3.66	3.65	3.91
Connecticut	5.66	5.79	6.08	6.58	5.85	4.97	3.53	4.45
Delaware	10.40	10.64	10.42	9.94	7.65	6.85	4.26	4.62
District of Columbia	--	--	--	--	--	--	--	--
Florida	5.62	5.09	5.77	5.16	5.24	6.21	5.70	5.96
Georgia	4.23	4.04	4.20	4.28	4.18	4.29	3.72	4.43
Hawaii	17.18	17.63	16.17	15.06	16.46	16.05	17.38	16.20
Idaho	2.27	2.41	2.47	3.29	3.04	2.71	3.31	3.14
Illinois	4.20	4.13	3.76	3.63	3.48	4.15	4.06	3.56
Indiana	4.34	4.74	4.97	4.87	4.28	4.25	3.72	3.89
Iowa	3.83	3.87	4.08	4.52	4.10	4.36	4.08	4.42
Kansas	6.26	5.72	5.39	6.61	5.86	4.81	3.99	4.18
Kentucky	3.70	3.41	3.59	3.73	4.05	4.46	3.83	4.19
Louisiana	3.84	3.85	3.99	4.37	4.08	3.94	3.96	4.37
Maine	5.66	6.09	7.67	5.46	5.00	5.30	5.54	7.58
Maryland	6.79	6.83	6.96	7.19	6.25	6.06	4.05	4.69
Massachusetts	8.86	9.24	9.61	9.04	6.38	5.46	4.06	4.53
Michigan	3.10	3.09	3.10	3.35	3.43	3.78	3.48	3.71
Minnesota	3.17	4.33	4.46	4.49	3.80	3.51	3.77	4.23
Mississippi	4.49	4.62	4.66	4.78	4.59	3.95	3.88	4.20
Missouri	7.09	7.68	7.26	7.15	5.86	5.15	4.07	4.45
Montana	2.35	3.41	2.90	3.30	3.61	3.47	3.54	3.56
Nebraska	4.63	4.45	4.17	5.07	4.20	4.02	3.87	4.71
Nevada	4.01	4.39	4.50	4.52	4.13	4.40	4.05	4.34
New Hampshire	8.23	7.41	8.42	5.39	5.50	4.64	4.37	6.07
New Jersey	3.71	4.37	4.61	4.73	4.56	4.26	4.32	4.48
New Mexico	3.41	3.60	3.59	3.61	3.43	3.31	3.35	3.82
New York	7.08	7.11	7.37	7.02	6.00	4.24	3.27	3.64
North Carolina	5.09	5.41	5.83	5.87	5.28	4.91	3.36	3.72
North Dakota	4.38	4.03	3.92	4.35	3.99	4.11	3.88	4.53
Ohio	4.13	3.93	3.89	3.82	3.80	3.87	3.64	4.08
Oklahoma	6.16	5.95	5.87	5.90	5.44	4.64	4.22	4.26
Oregon	4.69	5.97	5.71	5.08	4.56	3.90	3.59	3.59
Pennsylvania	6.06	6.36	6.69	6.67	5.36	4.85	3.86	4.20
Rhode Island	2.29	2.34	2.37	2.41	2.36	2.30	2.20	2.18
South Carolina	4.13	3.99	4.14	4.25	4.27	4.47	3.98	4.43
South Dakota	4.42	4.36	4.40	4.60	3.77	3.90	3.79	4.38
Tennessee	4.20	4.17	4.49	4.28	4.07	4.40	3.91	4.16
Texas	4.47	4.09	4.19	4.28	4.59	4.43	4.85	5.14
Utah	3.85	3.70	3.69	4.90	4.79	4.78	5.94	5.97
Vermont	4.48	4.44	4.31	4.74	4.69	5.26	4.98	5.69
Virginia	6.26	7.41	7.24	6.71	5.68	5.47	4.03	4.15
Washington	3.93	4.78	4.21	4.18	4.26	3.64	3.04	3.47
West Virginia	4.89	5.87	5.58	6.37	4.87	4.26	3.32	3.68
Wisconsin	4.59	4.55	4.76	5.24	4.24	4.08	3.82	4.39
Wyoming	3.45	3.82	3.98	3.79	3.24	3.71	3.89	4.23
Total	4.52	4.61	4.73	4.82	4.42	4.20	3.84	4.13

See footnotes at end of table.

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

State	2017							2016
	January	Total	December	November	October	September	August	July
Alabama	4.03	3.44	3.78	3.85	4.20	3.89	3.89	3.89
Alaska	7.99	6.79	7.29	6.82	7.10	6.58	6.19	6.12
Arizona	4.37	4.07	4.74	4.91	4.09	3.92	3.86	4.05
Arkansas	4.17	4.29	3.83	4.37	6.02	5.69	6.22	6.68
California	3.87	2.96	3.64	3.30	3.51	3.56	3.29	3.34
Colorado	3.92	3.56	3.61	3.88	4.73	5.27	4.81	5.16
Connecticut	4.45	3.57	3.90	3.31	3.13	4.29	4.20	4.69
Delaware	4.34	4.91	4.28	4.17	6.15	8.20	8.50	8.77
District of Columbia	--	--	--	--	--	--	--	--
Florida	6.09	4.04	5.47	4.92	4.45	4.13	3.92	3.93
Georgia	4.69	3.67	4.08	4.04	4.26	4.30	4.01	4.32
Hawaii	15.34	13.81	14.75	12.93	15.07	14.06	13.33	13.54
Idaho	3.17	3.21	3.16	3.29	3.18	3.29	2.69	2.62
Illinois	3.95	3.38	3.63	3.38	4.25	5.19	4.66	4.25
Indiana	3.81	3.58	3.84	3.63	4.26	4.80	4.92	5.25
Iowa	4.51	3.77	4.04	4.14	4.18	4.47	3.91	3.94
Kansas	4.24	4.02	3.75	4.43	6.27	6.65	5.63	5.33
Kentucky	4.16	3.35	3.77	3.53	3.63	3.45	3.26	3.47
Louisiana	3.91	3.65	4.18	4.23	3.98	4.07	3.85	4.00
Maine	7.36	6.41	6.33	6.25	4.23	5.17	4.64	5.30
Maryland	4.43	4.18	3.96	4.20	5.42	7.54	7.65	8.57
Massachusetts	4.66	4.49	4.61	4.16	5.36	8.26	6.95	7.49
Michigan	3.84	3.57	3.54	3.65	3.53	3.35	3.08	3.19
Minnesota	4.30	3.71	4.05	4.17	3.71	4.38	4.28	3.88
Mississippi	5.02	3.78	4.77	4.14	4.17	3.90	3.79	4.04
Missouri	4.21	4.22	3.96	4.31	6.21	6.64	6.96	7.08
Montana	3.46	3.05	2.87	3.17	3.33	3.45	3.34	3.65
Nebraska	4.30	3.75	3.67	3.99	4.19	3.65	3.90	4.44
Nevada	4.46	3.73	4.18	3.70	4.10	4.45	4.76	4.50
New Hampshire	6.59	5.30	5.32	4.60	3.80	5.34	4.73	6.79
New Jersey	4.52	3.93	4.14	3.94	3.75	4.02	3.75	3.92
New Mexico	3.93	3.05	3.77	3.22	3.62	3.46	3.39	3.50
New York	3.85	3.57	3.85	3.42	3.61	6.30	6.85	6.58
North Carolina	3.87	3.44	3.72	3.33	4.43	4.76	4.83	5.28
North Dakota	4.58	3.88	4.10	4.64	4.51	4.52	4.18	4.36
Ohio	4.09	3.27	3.62	3.43	3.09	2.43	2.56	2.69
Oklahoma	4.46	3.98	4.04	4.00	5.03	5.29	5.39	5.51
Oregon	3.69	4.15	3.77	4.03	4.40	5.96	5.33	5.85
Pennsylvania	4.07	3.72	3.72	4.08	3.98	5.92	5.57	6.55
Rhode Island	2.12	2.12	1.99	1.96	1.96	2.01	2.03	2.06
South Carolina	4.47	3.64	4.44	3.66	4.01	3.94	3.75	3.87
South Dakota	4.35	3.65	3.92	4.25	4.20	4.73	4.82	4.47
Tennessee	4.24	3.42	3.73	3.90	4.26	3.99	3.64	3.88
Texas	5.28	4.09	5.36	5.10	4.93	4.16	4.00	3.94
Utah	5.37	5.15	5.35	5.00	4.82	3.86	3.24	3.37
Vermont	5.67	5.13	5.11	4.74	4.08	4.21	4.22	4.01
Virginia	3.90	3.99	3.68	3.87	5.37	6.50	7.04	6.25
Washington	3.77	3.66	3.58	4.14	4.20	4.85	4.35	4.56
West Virginia	3.63	3.46	3.30	3.45	3.73	5.14	5.08	5.59
Wisconsin	4.46	3.81	3.88	4.23	4.37	4.93	4.18	4.36
Wyoming	4.27	3.53	4.00	3.48	3.76	3.46	3.38	3.19
Total	4.21	3.71	3.96	3.90	4.19	4.60	4.33	4.42

See footnotes at end of table.

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

State	2016					
	June	May	April	March	February	January
Alabama	3.34	2.99	2.90	3.00	3.18	3.22
Alaska	6.03	6.21	6.37	6.72	6.85	6.93
Arizona	3.31	2.77	3.03	4.85	4.60	3.64
Arkansas	6.16	4.79	4.60	4.53	3.76	3.43
California	2.52	2.49	2.25	2.30	2.65	2.72
Colorado	4.22	3.25	2.78	3.43	3.23	3.09
Connecticut	4.58	3.85	3.20	3.09	3.45	3.27
Delaware	8.53	6.24	5.03	4.70	3.84	3.81
District of Columbia	--	--	--	--	--	--
Florida	3.46	3.50	3.37	3.83	3.95	3.86
Georgia	3.44	3.37	3.19	3.21	3.25	3.35
Hawaii	17.26	16.20	14.19	13.19	10.52	10.93
Idaho	2.52	3.22	2.79	3.67	3.47	3.20
Illinois	3.72	3.10	3.39	3.33	2.79	3.12
Indiana	4.38	3.27	2.93	3.48	3.27	3.28
Iowa	3.67	3.01	3.46	3.70	3.57	3.61
Kansas	5.57	4.41	4.27	3.52	3.25	3.25
Kentucky	2.85	2.85	2.97	3.26	3.26	3.24
Louisiana	3.16	2.99	3.03	3.32	3.49	3.51
Maine	5.40	3.83	3.57	7.53	8.85	7.76
Maryland	7.14	4.57	3.89	4.34	3.52	3.30
Massachusetts	5.90	4.72	3.94	3.40	4.30	3.93
Michigan	2.76	2.87	2.91	3.90	3.84	3.80
Minnesota	3.49	2.98	2.94	3.77	3.65	3.43
Mississippi	3.46	3.19	3.36	3.18	3.85	3.28
Missouri	5.58	5.16	4.50	3.85	3.43	3.32
Montana	2.50	2.28	2.42	3.03	3.43	3.23
Nebraska	3.17	3.00	3.14	4.16	3.80	3.65
Nevada	3.74	3.19	3.16	3.18	3.56	3.38
New Hampshire	5.79	3.87	2.72	3.57	7.03	7.02
New Jersey	3.91	3.80	3.81	3.98	3.94	3.84
New Mexico	2.89	2.43	2.23	2.75	2.80	2.72
New York	5.65	4.26	3.03	2.84	2.92	2.62
North Carolina	4.38	3.71	3.21	3.10	2.87	2.98
North Dakota	2.83	2.71	2.97	3.65	3.84	3.76
Ohio	2.46	2.61	2.41	3.09	3.55	3.60
Oklahoma	4.77	3.83	3.73	3.58	3.69	3.62
Oregon	5.18	4.65	4.15	3.63	3.96	3.71
Pennsylvania	6.36	4.35	3.28	3.98	3.18	3.04
Rhode Island	2.05	2.09	2.14	2.22	2.24	2.23
South Carolina	3.43	3.08	3.37	3.41	3.27	3.42
South Dakota	3.06	2.28	2.47	3.40	3.49	3.65
Tennessee	3.19	3.01	2.97	3.11	3.14	3.21
Texas	3.41	3.20	3.20	3.60	3.87	3.79
Utah	3.58	4.60	4.63	6.06	6.05	5.61
Vermont	4.24	4.96	4.85	6.93	5.98	5.52
Virginia	6.42	4.38	3.92	3.72	3.31	3.40
Washington	3.57	3.85	3.43	3.12	3.63	3.21
West Virginia	4.62	3.41	3.18	3.26	3.38	3.13
Wisconsin	3.75	3.38	3.11	3.57	3.85	3.62
Wyoming	2.56	3.07	3.10	3.47	3.75	3.62
Total	3.84	3.44	3.22	3.49	3.48	3.39

^R Revised data.

-- Not applicable.

^{NA} 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: U.S. 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	2016	2018				
	9-Month YTD	9-Month YTD	9-Month YTD	September	August	July	June	May
Alabama	15.23	16.08	13.52	22.08	21.90	21.93	21.00	17.27
Alaska	11.27	10.39	9.86	12.23	13.06	13.77	12.73	11.85
Arizona	NA	15.59	15.51	20.97	NA	22.69	21.27	19.20
Arkansas	11.99	12.97	10.77	20.97	21.64	21.08	19.74	14.02
California	NA	12.74	11.43	12.30	NA	12.36	12.14	12.42
Colorado	8.19	8.45	7.41	13.17	14.61	17.24	14.43	10.47
Connecticut	NA	14.20	12.91	22.39	23.72	22.33	19.93	NA
Delaware	NA	12.54	11.60	NA	24.29	23.32	20.31	14.91
District of Columbia	11.75	12.67	10.75	20.98	19.11	18.51	14.51	12.42
Florida	21.31	20.94	19.70	26.09	27.70	26.56	24.53	23.12
Georgia	15.50	18.59	14.40	29.61	29.63	27.63	27.65	21.53
Hawaii	43.09	38.60	36.49	47.36	43.50	45.44	41.62	44.49
Idaho	NA	8.01	8.63	9.31	10.33	10.35	9.55	9.17
Illinois	8.45	9.56	7.86	17.47	19.09	18.98	15.17	12.61
Indiana	NA	9.88	8.09	NA	19.42	20.19	18.83	15.37
Iowa	8.84	9.16	7.96	18.67	18.83	19.70	15.09	10.94
Kansas	10.83	11.61	9.97	18.84	22.61	21.99	18.46	15.30
Kentucky	NA	12.45	10.05	NA	24.87	25.01	24.49	18.47
Louisiana	NA	13.28	10.93	16.62	17.41	16.97	15.97	13.37
Maine	NA	14.70	13.97	23.71	24.72	25.84	20.22	17.01
Maryland	11.71	13.23	11.27	20.80	21.01	19.57	18.38	14.33
Massachusetts	NA	13.32	12.19	16.02	R16.56	R15.82	R14.57	16.69
Michigan	8.42	8.77	8.38	12.34	13.39	13.52	13.49	11.94
Minnesota	NA	8.72	8.10	12.31	14.97	15.40	12.97	NA
Mississippi	10.12	12.14	9.87	16.67	17.72	17.53	16.68	12.91
Missouri	10.33	11.73	10.74	23.40	24.89	24.11	22.21	13.57
Montana	NA	7.64	7.34	10.50	11.60	10.20	9.11	7.71
Nebraska	NA	9.04	7.89	17.44	17.81	NA	15.72	10.00
Nevada	9.61	8.66	10.80	13.47	14.46	13.86	12.72	11.55
New Hampshire	15.27	14.18	13.99	22.78	22.73	21.07	17.88	16.60
New Jersey	9.01	8.86	7.99	12.05	12.66	12.11	11.30	9.26
New Mexico	NA	9.28	7.80	13.45	13.09	12.79	11.23	NA
New York	12.33	12.02	10.87	20.16	20.83	20.11	19.32	14.20
North Carolina	NA	14.26	11.15	NA	NA	NA	NA	23.31
North Dakota	7.34	8.17	7.62	17.48	21.42	20.79	15.45	8.71
Ohio	9.32	10.36	8.87	25.54	27.80	26.49	25.45	14.97
Oklahoma	9.49	11.48	10.17	25.14	26.63	25.69	22.84	12.34
Oregon	11.22	10.77	12.56	14.07	16.88	15.10	14.21	13.66
Pennsylvania	11.51	11.43	10.18	19.34	20.44	19.76	17.96	14.14
Rhode Island	NA	13.77	13.72	NA	NA	27.60	20.69	17.80
South Carolina	NA	15.73	12.43	27.98	26.56	29.36	NA	NA
South Dakota	NA	8.19	7.44	15.04	15.86	14.73	11.80	8.05
Tennessee	NA	10.54	8.84	18.96	NA	19.68	18.42	11.80
Texas	NA	13.43	11.14	22.08	NA	21.64	20.20	16.22
Utah	NA	8.98	9.09	10.23	10.44	10.24	10.26	9.44
Vermont	13.49	13.96	14.11	21.78	23.26	21.61	18.72	14.02
Virginia	11.53	12.55	10.69	19.64	20.61	20.51	18.27	14.22
Washington	10.82	10.89	10.88	13.27	15.81	14.98	13.36	12.99
West Virginia	NA	9.44	9.43	17.79	18.80	18.19	17.75	NA
Wisconsin	8.12	8.70	8.16	12.55	14.53	14.06	12.39	10.22
Wyoming	8.89	9.23	8.64	16.81	17.53	16.18	13.11	9.63
Total	10.76	11.26	10.00	17.32	18.63	R17.92	16.51	R13.66

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	2018				2017			
	April	March	February	January	Total	December	November	October
Alabama	15.07	15.29	14.15	13.38	16.11	14.72	16.97	22.17
Alaska	11.29	10.77	10.62	10.59	10.52	10.66	10.65	11.17
Arizona	16.78	14.22	13.97	13.76	15.78	14.43	17.54	20.10
Arkansas	11.47	12.06	10.82	10.08	12.97	11.81	12.80	19.52
California	11.60	12.26	12.09	12.11	12.49	11.76	11.41	12.10
Colorado	7.40	7.31	6.60	6.59	8.08	6.84	7.39	8.44
Connecticut	13.17	12.75	12.69	12.02	13.95	11.94	13.42	19.83
Delaware	12.22	11.64	11.84	NA	12.84	12.44	14.34	22.06
District of Columbia	10.79	11.32	11.32	10.31	12.53	10.47	13.14	18.88
Florida	20.48	20.07	18.77	18.08	21.15	19.69	22.42	24.92
Georgia	14.10	13.01	12.42	10.55	16.93	11.23	14.39	22.07
Hawaii	42.51	42.16	42.05	39.90	38.88	39.57	39.91	39.77
Idaho	7.70	7.08	NA	7.33	7.65	6.82	7.15	7.43
Illinois	7.57	7.25	6.91	6.66	8.83	6.81	7.47	10.49
Indiana	8.06	7.55	7.99	6.90	8.94	6.56	7.77	10.47
Iowa	7.89	8.11	7.84	7.35	9.30	8.52	9.68	13.37
Kansas	11.89	10.04	8.89	8.69	10.95	9.02	8.98	14.20
Kentucky	9.65	9.21	9.68	8.53	11.62	9.03	10.65	14.80
Louisiana	12.33	NA	9.92	8.72	13.04	10.76	13.25	16.52
Maine	15.58	NA	16.46	14.65	14.61	13.59	14.14	18.92
Maryland	10.31	9.79	11.85	10.40	12.97	11.46	12.12	18.42
Massachusetts	17.69	NA	16.21	14.22	13.32	13.78	12.74	12.26
Michigan	7.93	7.60	7.74	7.41	8.38	7.30	7.66	9.50
Minnesota	7.75	NA	8.72	7.84	8.47	7.91	7.73	8.93
Mississippi	9.99	10.78	9.08	7.68	11.83	9.72	11.40	16.62
Missouri	9.69	9.42	8.56	8.11	11.78	9.87	12.26	22.34
Montana	7.11	NA	6.95	7.00	7.62	7.42	7.47	8.21
Nebraska	7.70	7.71	7.41	6.94	9.01	7.91	8.69	14.15
Nevada	9.92	8.24	8.15	8.12	8.82	8.26	9.97	11.06
New Hampshire	15.68	15.51	13.93	13.28	14.55	14.36	16.92	22.75
New Jersey	7.74	8.76	8.63	8.87	9.14	9.53	10.00	11.24
New Mexico	7.94	7.28	7.06	7.08	9.22	8.05	9.02	12.87
New York	11.29	12.10	11.23	9.51	12.04	10.52	13.07	17.16
North Carolina	12.50	10.40	13.44	9.72	13.29	10.70	11.93	19.66
North Dakota	6.49	6.09	5.95	5.85	7.64	6.05	6.47	9.09
Ohio	8.10	7.30	7.61	6.45	9.72	7.02	8.78	15.19
Oklahoma	9.00	7.97	7.37	6.72	11.40	8.65	11.14	24.54
Oregon	11.10	9.85	9.81	10.85	10.59	9.77	10.43	11.18
Pennsylvania	10.80	10.45	10.86	10.02	11.40	10.38	11.33	16.27
Rhode Island	16.34	14.83	13.45	13.13	14.02	14.01	15.34	19.30
South Carolina	13.49	10.57	15.91	NA	14.57	11.48	12.83	19.35
South Dakota	6.98	NA	6.89	6.86	8.18	7.55	7.66	11.01
Tennessee	9.10	9.03	8.74	7.89	10.31	8.66	10.32	16.00
Texas	12.92	11.17	9.61	8.84	13.61	11.91	14.66	20.64
Utah	NA	NA	10.08	9.40	9.05	9.76	9.14	8.22
Vermont	12.31	12.93	11.80	12.37	14.12	13.22	15.43	19.84
Virginia	10.95	9.38	11.63	10.04	12.34	10.54	11.89	20.00
Washington	10.34	9.93	9.62	10.18	10.62	9.66	10.22	10.92
West Virginia	9.63	9.27	9.27	8.94	9.43	9.00	9.41	11.26
Wisconsin	6.93	7.33	7.65	7.38	8.40	7.51	7.87	9.12
Wyoming	8.51	7.88	7.49	7.67	9.01	7.97	8.45	9.55
Total	10.04	9.78	9.63	8.91	10.91	9.29	10.15	13.36

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							
	September	August	July	June	May	April	March	February
Alabama	22.63	22.97	22.15	21.14	20.57	16.19	14.51	14.69
Alaska	12.13	13.39	13.72	12.79	11.00	10.23	9.58	9.61
Arizona	22.25	23.41	22.74	20.48	18.19	16.82	15.32	12.66
Arkansas	20.36	21.39	20.16	18.25	15.66	14.02	12.52	11.81
California	12.28	12.53	12.55	13.14	12.96	12.51	12.41	12.65
Colorado	12.16	13.78	14.70	12.67	9.17	8.04	7.92	7.44
Connecticut	21.74	22.65	22.04	18.83	16.62	13.81	12.30	13.18
Delaware	22.02	24.65	22.84	18.85	16.02	12.07	11.34	11.04
District of Columbia	19.33	21.24	18.15	16.92	16.24	12.27	11.67	10.92
Florida	24.47	26.57	25.36	24.01	22.19	19.77	19.42	18.38
Georgia	31.00	32.32	32.42	29.52	27.26	18.21	13.69	13.57
Hawaii	39.98	40.28	39.99	37.63	39.21	38.06	38.69	37.91
Idaho	9.46	10.87	11.26	10.46	8.32	8.02	8.08	7.53
Illinois	16.81	17.86	16.90	15.32	11.11	10.22	7.95	8.39
Indiana	17.64	20.65	20.06	19.15	11.89	11.67	7.74	8.64
Iowa	18.63	17.36	17.65	14.96	10.83	8.95	7.71	7.98
Kansas	21.05	22.57	21.69	19.45	18.15	12.84	10.01	9.83
Kentucky	22.54	24.81	24.49	23.98	18.07	13.70	10.39	10.88
Louisiana	16.49	17.30	16.44	15.43	14.89	13.56	12.71	12.30
Maine	23.14	24.48	23.45	17.86	14.97	14.11	13.03	13.70
Maryland	20.14	21.61	20.23	18.91	16.53	14.62	10.86	12.26
Massachusetts	15.45	15.95	15.46	13.48	13.63	13.22	12.90	13.11
Michigan	12.19	13.79	14.46	13.24	9.89	9.22	7.77	7.98
Minnesota	11.95	13.40	13.36	12.48	9.69	8.44	7.63	8.06
Mississippi	18.00	18.07	17.37	16.11	15.02	12.82	10.64	10.67
Missouri	25.33	27.73	26.50	21.51	15.45	12.35	10.48	9.32
Montana	10.53	11.64	10.99	9.59	8.08	7.51	7.38	7.29
Nebraska	17.19	17.53	16.79	14.15	10.36	8.70	7.87	7.93
Nevada	12.81	14.10	13.23	11.62	10.63	8.99	7.76	7.10
New Hampshire	24.80	25.25	22.46	16.35	14.31	12.22	12.75	13.60
New Jersey	11.55	12.08	11.86	10.28	9.66	8.31	8.65	8.16
New Mexico	14.89	15.78	15.10	12.74	10.44	9.03	8.07	8.16
New York	18.12	19.05	19.13	16.28	14.45	11.10	10.81	11.04
North Carolina	22.88	23.14	22.49	23.15	19.75	17.86	11.65	13.82
North Dakota	15.60	20.47	21.82	19.59	13.01	7.59	6.46	6.79
Ohio	23.38	27.28	26.34	23.63	14.49	10.25	7.73	8.15
Oklahoma	26.70	29.06	25.92	21.84	15.91	13.17	10.28	8.78
Oregon	14.68	16.69	15.42	14.30	12.23	10.98	10.67	9.89
Pennsylvania	17.48	20.04	19.34	16.79	13.12	11.68	10.33	10.32
Rhode Island	19.93	20.19	19.15	16.38	15.11	13.18	12.79	12.72
South Carolina	25.03	26.44	24.68	24.33	21.98	17.13	11.79	15.05
South Dakota	14.40	14.62	14.52	12.01	9.06	7.73	7.46	7.80
Tennessee	17.18	19.34	18.74	16.89	14.15	10.96	9.62	9.29
Texas	21.76	23.39	20.93	18.54	17.09	15.59	12.25	10.61
Utah	10.38	11.21	10.88	9.56	8.35	9.15	9.18	8.78
Vermont	21.13	22.39	21.62	18.03	15.03	12.94	12.53	12.47
Virginia	20.71	22.04	20.79	18.59	17.62	13.56	10.54	11.78
Washington	13.81	16.05	15.38	14.64	12.02	10.66	10.24	10.04
West Virginia	14.16	17.51	18.81	14.75	11.56	9.55	8.47	8.39
Wisconsin	13.59	14.31	15.03	12.99	8.98	9.03	7.49	7.56
Wyoming	15.05	17.86	17.26	12.41	10.07	9.32	8.51	8.09
Total	16.92	18.22	17.86	16.06	13.26	11.34	9.86	10.01

See footnotes at end of table.

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

State	2017							2016
	January	Total	December	November	October	September	August	July
Alabama	13.50	14.06	14.29	19.11	21.24	21.16	21.29	20.59
Alaska	9.44	9.81	9.51	9.73	10.07	11.34	12.66	12.98
Arizona	12.70	15.28	12.70	15.69	18.72	20.81	22.42	21.61
Arkansas	10.40	11.17	10.66	17.46	18.13	18.76	18.56	16.74
California	13.10	11.84	13.08	12.33	13.31	13.26	12.82	11.90
Colorado	6.86	7.35	6.46	7.38	9.71	12.07	14.22	13.96
Connecticut	12.39	12.91	11.73	13.29	16.63	22.19	24.07	21.76
Delaware	10.65	11.88	11.38	13.77	19.82	22.52	24.25	21.38
District of Columbia	10.93	10.90	10.62	13.28	12.53	18.63	19.25	17.60
Florida	17.71	20.27	19.10	23.55	26.53	25.75	26.80	26.17
Georgia	11.84	14.56	11.95	16.05	24.53	26.14	25.14	25.12
Hawaii	36.66	36.48	37.57	34.17	37.56	35.43	34.94	34.84
Idaho	7.23	8.14	7.22	7.37	8.24	9.49	10.16	9.88
Illinois	7.58	7.88	6.74	8.71	12.16	16.72	17.33	16.49
Indiana	7.68	7.92	6.41	8.48	11.89	17.65	18.56	18.89
Iowa	7.62	8.13	6.93	10.22	14.77	16.31	17.64	16.05
Kansas	8.50	9.85	8.62	9.29	18.34	19.96	21.74	20.13
Kentucky	9.23	10.14	8.65	11.45	19.46	22.92	24.45	23.07
Louisiana	10.89	11.35	11.02	14.96	16.25	15.87	16.66	15.97
Maine	13.71	13.82	12.87	13.30	15.75	21.33	22.79	21.88
Maryland	11.35	11.53	10.84	13.22	17.39	20.27	20.97	19.83
Massachusetts	12.91	12.46	13.15	13.27	13.70	14.97	15.22	14.42
Michigan	7.59	8.21	7.35	7.98	9.38	12.85	14.65	13.50
Minnesota	8.05	8.01	7.31	7.98	9.51	13.20	13.37	13.50
Mississippi	10.02	10.06	8.86	13.44	15.87	15.19	15.99	15.67
Missouri	8.27	10.94	9.09	15.25	21.71	24.01	26.41	24.86
Montana	6.73	7.27	6.74	7.37	7.93	10.06	11.11	10.33
Nebraska	7.38	8.01	7.05	10.07	13.31	15.73	16.13	15.03
Nevada	6.96	10.23	7.57	9.70	11.49	13.81	14.42	14.63
New Hampshire	13.26	14.25	14.19	14.97	19.46	24.66	24.61	23.02
New Jersey	8.36	8.30	8.75	9.37	10.25	11.74	12.12	11.33
New Mexico	7.86	8.05	7.64	10.06	12.56	14.49	15.18	13.85
New York	9.86	10.84	9.60	10.95	14.87	17.34	17.86	16.64
North Carolina	11.72	11.31	10.61	11.89	18.54	21.70	21.26	22.51
North Dakota	5.93	7.21	5.68	6.96	8.49	16.28	20.06	20.50
Ohio	7.13	9.03	7.80	10.00	18.54	25.81	26.97	25.18
Oklahoma	7.13	10.57	8.37	18.86	24.82	26.09	28.99	24.71
Oregon	9.16	11.67	9.34	11.37	11.81	14.32	16.61	16.56
Pennsylvania	9.70	10.18	9.21	10.62	13.58	18.88	19.48	18.34
Rhode Island	12.58	13.80	13.03	14.27	17.92	20.26	20.37	19.20
South Carolina	13.40	12.62	11.62	13.55	22.15	25.25	25.55	26.86
South Dakota	6.89	7.60	6.73	9.58	10.46	13.36	14.15	13.48
Tennessee	8.55	9.21	8.77	12.18	17.97	17.59	18.88	17.11
Texas	9.56	11.73	10.83	18.72	20.34	21.23	22.98	19.53
Utah	8.40	9.12	8.99	9.91	9.23	10.12	10.76	10.67
Vermont	12.79	14.15	13.13	14.31	18.75	22.57	23.02	21.11
Virginia	9.99	10.88	10.16	12.69	16.02	20.91	20.99	19.60
Washington	9.75	10.78	10.06	11.05	11.53	13.92	16.14	15.24
West Virginia	8.19	9.26	8.22	8.92	11.65	16.69	18.41	17.03
Wisconsin	8.05	8.07	7.41	8.26	9.20	14.29	15.04	14.31
Wyoming	7.51	8.51	7.32	8.77	10.25	15.68	16.54	16.97
Total	9.32	10.05	9.06	10.77	13.74	16.78	17.60	16.56

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					
	June	May	April	March	February	January
Alabama	19.33	17.18	14.46	12.17	11.27	12.16
Alaska	12.14	10.41	9.63	9.09	8.99	8.87
Arizona	19.59	17.54	16.63	18.16	13.91	12.06
Arkansas	15.32	13.66	10.84	10.27	9.01	9.49
California	11.31	11.45	10.44	10.54	11.46	11.39
Colorado	12.46	7.06	6.84	6.68	6.45	6.07
Connecticut	19.19	15.04	12.88	11.74	10.67	10.34
Delaware	17.57	13.46	11.49	10.26	9.73	10.11
District of Columbia	14.70	12.03	10.10	10.27	9.12	9.53
Florida	23.35	21.72	20.29	17.88	15.31	16.52
Georgia	23.85	19.43	15.77	12.53	10.57	10.40
Hawaii	42.65	39.99	36.94	37.08	33.73	33.45
Idaho	9.80	9.21	8.94	8.79	8.23	8.00
Illinois	12.62	10.48	7.53	7.08	6.30	5.83
Indiana	16.48	10.09	7.76	8.07	6.41	6.02
Iowa	13.28	8.74	7.53	7.33	6.52	6.53
Kansas	18.92	13.42	11.08	9.43	7.89	7.27
Kentucky	20.15	14.84	10.32	8.75	7.61	7.85
Louisiana	13.89	13.16	11.12	10.32	8.54	9.25
Maine	17.99	13.46	12.56	12.97	13.07	13.19
Maryland	15.79	12.44	11.30	10.85	9.30	9.78
Massachusetts	12.73	12.35	11.91	11.60	11.97	11.88
Michigan	13.02	9.65	7.84	7.82	7.61	7.29
Minnesota	11.71	9.87	7.62	7.66	7.12	7.05
Mississippi	13.92	12.95	10.76	9.01	7.96	8.43
Missouri	19.73	15.60	11.32	9.32	8.13	7.99
Montana	8.36	7.19	6.77	7.02	6.90	6.81
Nebraska	12.37	9.25	7.63	7.02	6.52	6.45
Nevada	12.99	11.92	11.25	10.84	9.75	9.12
New Hampshire	18.19	13.97	12.22	11.76	12.70	14.05
New Jersey	10.64	9.37	8.86	8.12	6.79	6.48
New Mexico	11.38	8.73	7.48	7.06	6.44	6.35
New York	14.69	10.99	9.88	9.64	9.45	10.30
North Carolina	19.62	16.42	13.11	12.62	9.06	8.76
North Dakota	19.20	9.52	6.90	6.30	5.60	5.49
Ohio	19.02	11.57	7.94	7.07	6.37	6.41
Oklahoma	19.80	16.73	10.96	8.92	6.81	6.53
Oregon	15.90	15.29	13.81	12.08	11.97	10.36
Pennsylvania	15.62	11.38	9.91	9.51	8.64	8.75
Rhode Island	16.89	14.49	13.42	12.64	12.35	12.73
South Carolina	24.09	18.62	15.18	13.47	9.75	9.04
South Dakota	11.34	7.74	6.87	7.14	6.59	6.29
Tennessee	14.81	12.58	9.52	7.88	7.27	7.40
Texas	16.70	16.50	11.75	10.12	7.87	7.85
Utah	9.81	8.89	8.96	9.51	8.79	8.59
Vermont	18.40	14.26	13.30	12.66	12.53	13.24
Virginia	15.27	12.49	10.47	10.04	8.63	9.30
Washington	13.58	11.62	10.55	10.34	9.90	9.53
West Virginia	15.58	11.72	9.36	8.82	8.31	8.31
Wisconsin	10.57	8.63	7.57	7.39	7.25	7.46
Wyoming	11.27	8.49	8.24	7.61	7.62	7.33
Total	14.43	11.62	9.65	9.19	8.36	8.28

^R Revised data.

^{NA} 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: U.S. 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	2016	2018				
	9-Month YTD	9-Month YTD	9-Month YTD	September	August	July	June	May
Alabama	11.99	12.00	10.41	12.42	12.50	12.52	12.43	12.18
Alaska	10.17	9.68	8.11	10.60	10.84	11.43	10.84	10.51
Arizona	NA	8.85	9.04	NA	NA	9.14	9.38	9.44
Arkansas	8.20	8.30	6.99	8.65	9.08	8.98	9.07	8.45
California	NA	8.94	8.04	8.40	NA	8.35	7.76	7.76
Colorado	NA	7.33	6.35	9.22	NA	10.74	8.98	8.34
Connecticut	9.17	9.52	8.87	11.04	10.73	11.07	11.37	11.38
Delaware	NA	10.22	9.38	NA	13.66	NA	NA	11.25
District of Columbia	NA	10.97	9.79	10.09	10.62	10.65	9.20	10.16
Florida	NA	10.94	10.33	12.02	NA	11.54	11.69	11.52
Georgia	8.20	8.96	7.80	9.03	8.76	9.31	9.00	8.54
Hawaii	31.20	27.21	24.85	32.51	29.91	31.69	30.90	33.05
Idaho	NA	6.80	7.43	6.39	6.64	6.86	NA	6.89
Illinois	7.44	8.44	7.08	12.72	13.52	14.15	12.29	10.72
Indiana	NA	8.20	6.60	NA	10.68	11.68	10.71	11.07
Iowa	NA	6.95	5.88	NA	8.76	8.98	7.92	7.06
Kansas	9.19	9.77	8.45	12.51	12.98	13.31	12.30	11.80
Kentucky	8.56	9.40	7.72	10.67	12.36	12.70	12.85	10.86
Louisiana	NA	9.03	7.74	8.05	8.15	8.39	8.50	8.37
Maine	NA	11.37	10.68	12.61	13.57	13.50	12.13	12.12
Maryland	NA	10.40	8.74	NA	10.63	9.90	11.28	10.32
Massachusetts	NA	10.11	9.33	10.53	10.65	10.31	9.99	13.29
Michigan	NA	7.21	6.93	8.87	9.10	NA	9.12	8.18
Minnesota	NA	6.99	6.47	7.54	8.46	8.51	7.94	NA
Mississippi	NA	8.89	7.67	7.77	8.19	8.45	8.23	8.55
Missouri	7.82	8.30	7.76	10.00	10.33	10.30	9.96	7.87
Montana	NA	7.42	7.17	9.11	9.31	9.03	8.49	7.43
Nebraska	6.26	6.43	5.34	6.87	6.82	6.50	6.40	5.66
Nevada	6.57	5.51	7.28	7.02	7.20	7.22	7.19	6.91
New Hampshire	12.76	11.51	11.12	16.90	16.76	16.42	13.77	13.76
New Jersey	NA	9.09	7.62	9.33	9.37	NA	9.12	8.34
New Mexico	NA	6.54	5.48	NA	NA	6.71	NA	NA
New York	7.40	6.91	6.20	6.74	6.86	7.05	7.21	7.41
North Carolina	NA	9.20	7.52	NA	NA	10.02	NA	9.44
North Dakota	NA	6.10	5.40	7.05	7.37	7.40	6.64	NA
Ohio	5.96	6.39	5.65	7.54	7.77	7.97	7.24	6.72
Oklahoma	7.24	8.43	7.40	14.15	13.82	14.52	11.82	8.52
Oregon	8.86	8.86	9.73	9.39	10.11	9.72	9.46	9.38
Pennsylvania	9.56	9.24	8.11	10.94	11.96	12.33	11.80	10.91
Rhode Island	12.81	11.09	11.14	19.23	18.98	18.44	16.76	14.43
South Carolina	NA	9.35	8.12	9.12	8.87	9.35	9.06	8.67
South Dakota	NA	6.22	5.52	7.51	7.84	7.60	6.55	NA
Tennessee	8.46	8.78	7.49	9.73	10.18	9.98	9.48	8.49
Texas	7.41	7.66	6.56	8.05	8.27	8.21	7.93	7.79
Utah	7.76	7.33	7.42	6.61	6.70	6.62	6.95	7.16
Vermont	6.63	7.20	6.48	5.52	5.34	5.56	5.27	6.01
Virginia	8.08	8.08	7.10	8.98	8.58	8.90	8.68	8.62
Washington	NA	8.40	8.53	8.53	NA	9.31	NA	8.50
West Virginia	8.20	7.56	7.87	10.20	9.97	10.36	10.44	9.60
Wisconsin	6.33	6.70	6.25	6.43	6.87	6.54	5.82	6.00
Wyoming	6.82	6.99	6.50	7.34	7.21	7.02	7.09	6.98
Total	7.91	8.01	7.19	8.64	8.73	8.93	8.57	8.47

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	2018				Total	2017		
	April	March	February	January		December	November	October
Alabama	12.33	11.93	11.87	11.47	12.03	11.83	12.18	12.61
Alaska	10.16	9.89	9.88	9.82	9.79	9.89	10.00	10.33
Arizona	9.23	9.16	9.13	9.20	8.97	9.17	9.44	9.40
Arkansas	7.91	8.44	8.03	7.80	8.34	8.33	8.55	8.61
California	7.99	8.91	9.16	8.93	8.76	8.64	8.00	7.78
Colorado	6.38	6.75	6.23	6.29	7.17	6.62	6.87	7.25
Connecticut	8.58	8.44	8.37	7.91	9.30	7.96	8.71	10.64
Delaware	10.22	NA	10.03	NA	10.37	10.35	10.88	12.52
District of Columbia	10.24	NA	11.10	9.87	10.87	10.10	11.03	11.17
Florida	11.44	11.34	11.88	11.74	10.97	10.90	11.17	11.15
Georgia	8.46	7.90	8.00	7.64	8.78	8.13	8.53	9.02
Hawaii	31.93	30.74	32.37	28.30	27.41	28.25	28.45	27.38
Idaho	6.47	6.18	NA	6.52	6.62	6.22	6.30	6.28
Illinois	6.78	6.54	6.34	6.18	7.78	6.16	6.59	7.90
Indiana	7.01	6.77	7.34	6.36	7.52	5.93	6.78	7.28
Iowa	6.16	6.48	NA	6.21	6.87	6.96	6.51	6.52
Kansas	9.80	9.13	8.17	7.94	9.36	8.24	7.99	9.97
Kentucky	8.03	8.06	7.99	7.38	9.06	7.75	8.71	10.16
Louisiana	8.56	NA	8.89	8.47	8.99	9.00	8.84	8.71
Maine	12.74	12.94	NA	12.68	11.33	11.35	10.75	11.58
Maryland	8.97	8.32	10.11	8.82	10.27	9.39	9.84	12.05
Massachusetts	14.99	NA	12.94	11.60	10.16	10.86	9.79	8.71
Michigan	6.70	6.61	6.77	6.48	7.02	6.40	6.61	7.57
Minnesota	5.67	NA	7.56	6.82	6.80	6.53	6.23	6.48
Mississippi	8.07	NA	8.42	7.61	8.82	8.58	8.73	8.59
Missouri	7.72	7.66	7.21	7.31	8.44	8.16	9.18	10.55
Montana	6.94	NA	6.81	6.95	7.42	7.39	7.24	7.72
Nebraska	5.87	6.44	6.52	6.08	6.37	6.19	6.10	6.48
Nevada	6.59	6.23	6.23	6.21	5.71	6.06	6.40	6.48
New Hampshire	13.50	13.25	11.84	11.15	11.71	11.83	12.78	15.10
New Jersey	7.33	9.22	9.42	8.92	9.14	9.27	9.47	9.12
New Mexico	5.46	5.64	5.59	5.71	6.59	6.19	7.25	7.60
New York	7.23	7.90	7.89	7.25	6.87	6.93	6.64	6.50
North Carolina	8.49	7.32	8.10	7.40	8.92	8.11	8.54	8.83
North Dakota	5.41	5.59	5.76	5.98	6.00	5.89	5.67	5.93
Ohio	5.64	5.53	5.66	5.46	6.11	5.31	5.48	6.54
Oklahoma	7.23	6.40	6.17	5.79	8.44	6.89	8.63	14.71
Oregon	8.90	8.29	8.14	9.03	8.74	8.28	8.57	8.84
Pennsylvania	9.68	8.96	9.47	8.80	9.16	8.74	8.79	10.34
Rhode Island	13.64	12.55	11.15	10.88	11.30	11.35	12.45	15.04
South Carolina	8.79	8.50	10.25	NA	9.30	9.45	9.30	8.56
South Dakota	5.46	NA	5.60	5.85	6.26	6.74	5.97	5.96
Tennessee	7.89	8.19	8.31	8.01	8.74	8.24	8.80	9.47
Texas	7.38	7.35	7.12	6.77	7.71	7.78	7.72	8.22
Utah	7.68	7.78	8.47	8.02	7.40	8.26	7.34	6.44
Vermont	6.54	6.88	7.48	7.80	7.04	7.19	6.17	6.07
Virginia	8.06	7.36	8.79	7.53	7.99	7.57	7.89	8.42
Washington	NA	7.94	8.07	8.30	8.30	7.93	8.15	8.35
West Virginia	8.00	7.79	7.89	7.63	7.65	7.66	7.86	8.56
Wisconsin	5.65	6.22	6.73	6.48	6.60	6.54	6.49	5.84
Wyoming	7.00	6.74	6.53	6.70	6.92	6.61	6.74	6.96
Total	7.63	7.74	7.82	7.43	7.88	7.42	7.51	7.97

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							
	September	August	July	June	May	April	March	February
Alabama	12.97	13.08	13.11	12.80	12.73	12.18	11.49	11.36
Alaska	11.00	11.50	11.62	11.02	9.75	9.40	9.12	9.18
Arizona	9.35	9.50	9.22	9.03	8.96	9.10	8.94	8.33
Arkansas	8.68	9.24	9.27	9.16	8.79	8.56	8.25	8.13
California	7.95	8.31	8.40	8.74	8.68	8.81	9.47	9.34
Colorado	9.22	9.16	9.53	9.01	7.28	6.98	7.10	6.92
Connecticut	10.73	11.16	10.98	10.69	10.74	9.24	8.33	9.51
Delaware	11.82	13.39	12.79	11.67	10.95	9.94	9.76	9.61
District of Columbia	11.37	12.14	12.26	12.26	11.58	11.06	11.06	10.66
Florida	11.06	11.09	10.97	11.06	11.00	10.86	10.93	11.04
Georgia	9.33	9.71	9.37	9.80	9.39	9.11	8.55	8.86
Hawaii	28.06	28.56	27.37	26.30	26.98	26.98	27.41	27.16
Idaho	7.16	7.18	7.63	7.47	7.14	7.18	6.96	6.62
Illinois	12.09	13.60	12.43	12.52	11.00	9.14	7.25	7.59
Indiana	9.96	11.61	11.35	11.47	9.05	9.61	6.87	7.72
Iowa	9.05	9.29	9.56	8.98	7.77	6.84	6.12	6.40
Kansas	13.94	13.17	13.40	12.88	12.74	9.98	9.14	8.99
Kentucky	11.83	12.81	11.99	12.54	11.28	10.29	8.61	8.81
Louisiana	8.77	8.75	8.80	8.85	8.83	8.69	9.08	9.41
Maine	12.33	12.77	13.06	11.42	10.94	11.23	10.83	11.34
Maryland	12.59	12.49	11.30	12.16	11.76	11.48	9.18	9.98
Massachusetts	10.12	10.35	10.37	9.36	10.21	10.27	10.04	10.20
Michigan	8.47	9.65	9.15	9.00	7.92	7.31	6.80	6.86
Minnesota	7.44	8.08	7.72	8.10	7.04	6.80	6.36	6.94
Mississippi	9.24	8.69	8.69	8.47	8.84	8.93	8.68	9.09
Missouri	10.65	11.19	11.00	9.78	8.99	8.36	8.12	7.60
Montana	8.82	9.67	9.64	8.84	7.82	7.26	7.20	7.24
Nebraska	6.78	6.93	7.08	6.54	6.59	5.94	6.30	6.61
Nevada	6.50	6.75	6.40	5.90	5.85	5.38	5.14	5.02
New Hampshire	16.06	16.06	15.28	12.45	11.49	10.15	10.63	11.68
New Jersey	8.66	9.47	9.84	8.98	8.83	7.91	9.04	9.06
New Mexico	7.41	7.43	7.56	7.08	6.56	6.17	6.07	6.51
New York	6.02	5.95	6.64	6.87	6.90	6.99	7.14	7.51
North Carolina	9.05	8.88	8.63	9.94	10.69	10.16	8.35	9.88
North Dakota	6.48	7.15	7.65	7.57	6.52	5.68	5.67	6.32
Ohio	7.44	7.81	7.75	7.75	6.78	6.18	5.86	6.10
Oklahoma	15.16	16.05	14.86	13.30	11.40	9.56	7.91	6.88
Oregon	9.84	10.44	10.05	10.19	9.37	9.04	8.90	8.45
Pennsylvania	11.10	11.53	11.94	11.60	10.56	9.47	8.89	8.58
Rhode Island	15.45	15.73	15.38	13.10	12.02	10.63	10.42	10.45
South Carolina	9.05	8.86	9.04	8.95	8.64	9.66	8.59	10.15
South Dakota	7.51	7.68	7.63	7.41	6.26	5.83	5.77	6.43
Tennessee	9.38	9.65	9.56	9.41	9.13	8.76	8.50	8.56
Texas	8.35	8.37	8.19	7.70	7.57	7.62	7.19	7.51
Utah	7.07	7.40	7.28	6.83	6.51	7.47	7.71	7.48
Vermont	6.04	6.06	6.29	6.12	6.94	7.57	7.35	7.61
Virginia	8.59	9.00	8.76	9.18	9.07	8.05	7.19	8.45
Washington	9.15	9.86	9.48	9.40	7.68	8.27	8.22	8.22
West Virginia	8.93	9.37	9.54	9.48	8.28	7.71	7.09	7.02
Wisconsin	6.92	6.85	7.02	6.68	6.06	6.93	6.37	6.47
Wyoming	7.41	7.45	7.65	7.41	7.13	7.10	6.96	6.97
Total	8.52	8.76	8.81	8.75	8.31	8.04	7.68	7.89

See footnotes at end of table.

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

State	2017							2016
	January	Total	December	November	October	September	August	July
Alabama	11.15	10.66	11.13	12.09	11.83	11.70	11.76	11.62
Alaska	9.16	8.34	8.75	8.68	8.85	8.71	8.78	9.07
Arizona	8.29	8.83	8.03	8.22	8.52	8.64	8.65	8.74
Arkansas	7.59	7.14	7.59	8.63	7.01	6.89	7.16	6.90
California	9.60	8.42	9.96	9.28	9.08	9.16	8.74	8.07
Colorado	6.57	6.42	6.18	6.61	8.00	8.42	9.27	8.36
Connecticut	8.61	8.79	7.92	8.60	9.99	10.64	11.73	11.14
Delaware	9.44	9.58	9.88	10.36	11.42	11.86	12.11	11.50
District of Columbia	9.47	9.88	9.85	11.59	9.37	11.21	11.82	11.64
Florida	10.58	10.42	10.88	10.61	10.64	10.56	10.33	10.31
Georgia	8.40	7.92	7.55	8.77	9.29	9.55	9.59	9.35
Hawaii	26.22	24.78	25.31	22.95	25.40	25.04	23.45	23.14
Idaho	6.36	7.12	6.50	6.49	6.99	7.69	7.64	7.72
Illinois	6.90	7.14	6.44	8.08	9.03	12.30	12.93	12.26
Indiana	7.07	6.55	5.74	7.39	7.35	9.62	10.19	11.13
Iowa	6.41	5.99	5.96	6.48	6.86	7.53	8.14	7.82
Kansas	8.21	8.41	7.64	8.53	11.32	13.59	13.80	12.93
Kentucky	7.71	7.89	7.49	8.94	10.81	11.32	12.03	11.05
Louisiana	9.55	7.92	8.81	8.21	8.47	8.28	8.27	8.22
Maine	11.55	10.63	10.63	10.23	10.47	11.16	10.72	10.37
Maryland	9.54	8.94	8.83	10.06	10.89	11.78	11.49	11.34
Massachusetts	10.05	9.48	10.07	9.98	9.54	9.73	9.80	9.35
Michigan	6.65	6.90	6.56	6.94	7.58	9.02	9.31	8.65
Minnesota	7.08	6.44	6.30	6.28	6.73	7.88	7.79	7.90
Mississippi	9.03	7.80	8.10	8.57	8.11	7.56	7.49	7.61
Missouri	7.24	7.89	7.70	9.20	9.59	9.87	10.46	10.38
Montana	6.70	7.13	6.73	7.29	7.66	9.00	9.13	8.64
Nebraska	6.29	5.45	5.79	5.87	5.77	5.93	6.00	5.31
Nevada	5.09	6.84	5.37	5.78	6.24	6.87	6.89	7.22
New Hampshire	11.26	11.36	11.91	11.98	13.58	16.21	16.40	16.48
New Jersey	9.68	7.93	8.60	9.24	8.78	8.74	8.71	8.68
New Mexico	6.28	5.68	6.05	6.59	6.85	7.35	7.15	6.84
New York	6.82	6.19	6.50	5.97	5.59	5.33	5.30	5.58
North Carolina	8.67	7.71	8.36	8.05	7.95	8.19	8.30	8.77
North Dakota	5.74	5.45	5.43	5.60	5.82	6.74	7.29	7.01
Ohio	6.03	5.74	5.68	6.02	7.16	7.24	8.06	7.50
Oklahoma	5.94	7.72	6.86	12.30	14.46	14.76	15.03	13.80
Oregon	8.10	9.30	7.88	9.24	9.24	9.93	10.74	11.13
Pennsylvania	8.32	8.15	7.94	8.31	9.16	11.02	10.84	11.07
Rhode Island	10.02	11.16	10.27	11.48	14.53	16.35	15.78	15.43
South Carolina	10.31	8.42	9.48	9.01	9.02	8.56	8.48	8.71
South Dakota	5.77	5.64	5.72	5.97	6.30	7.16	7.90	6.98
Tennessee	8.33	7.80	8.23	9.06	9.78	9.10	9.49	8.70
Texas	7.40	6.89	7.60	8.25	8.52	8.15	8.26	7.52
Utah	7.29	7.43	7.65	7.50	6.71	6.84	7.10	7.01
Vermont	8.08	6.63	7.48	7.07	6.19	6.33	5.59	5.87
Virginia	7.44	7.23	7.55	7.54	7.68	8.67	8.40	8.20
Washington	8.03	8.49	8.14	8.60	8.78	9.45	9.87	9.37
West Virginia	6.97	7.75	7.10	7.50	8.72	9.99	10.27	10.14
Wisconsin	7.05	6.29	6.50	6.47	5.86	6.55	6.55	6.98
Wyoming	6.56	6.54	6.52	6.76	6.85	7.13	6.82	6.91
Total	7.58	7.28	7.27	7.67	7.96	8.28	8.30	8.14

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					
	June	May	April	March	February	January
Alabama	11.20	10.51	10.52	10.10	9.75	9.86
Alaska	8.41	8.00	7.90	7.87	7.87	7.88
Arizona	8.73	8.81	9.10	9.77	9.36	8.97
Arkansas	7.22	7.11	6.85	7.11	6.74	7.16
California	7.43	7.33	7.18	8.16	8.48	8.03
Colorado	7.63	6.15	5.96	5.92	5.96	5.80
Connecticut	11.81	9.86	9.36	7.92	7.29	7.31
Delaware	10.86	10.03	9.33	8.79	8.58	8.75
District of Columbia	10.85	9.83	9.83	9.81	8.92	9.12
Florida	10.25	10.04	10.12	10.33	10.46	10.54
Georgia	8.73	8.39	8.17	7.60	7.22	6.78
Hawaii	30.09	27.54	25.75	25.00	21.69	22.17
Idaho	7.81	7.71	7.82	7.61	7.22	7.10
Illinois	10.93	9.47	6.99	6.51	5.88	5.54
Indiana	9.55	7.21	6.42	7.04	5.67	5.33
Iowa	7.12	5.81	5.55	5.80	5.40	5.36
Kansas	12.48	10.16	8.38	8.96	7.26	6.75
Kentucky	10.77	9.19	8.00	7.11	6.39	6.73
Louisiana	7.19	7.26	7.12	7.69	7.69	8.02
Maine	9.95	9.45	10.15	10.69	11.08	11.27
Maryland	9.65	8.11	8.20	8.70	8.02	8.25
Massachusetts	8.49	9.22	9.45	9.14	9.50	9.34
Michigan	8.50	7.28	6.62	6.63	6.64	6.53
Minnesota	7.08	6.40	6.17	6.43	6.24	6.15
Mississippi	7.04	7.51	8.04	7.83	7.55	7.93
Missouri	9.39	8.55	7.92	7.22	6.94	7.08
Montana	7.79	6.97	6.68	6.96	6.91	6.80
Nebraska	5.06	4.71	4.98	5.38	5.46	5.40
Nevada	7.08	7.04	7.25	7.59	7.48	7.34
New Hampshire	13.28	11.22	9.96	9.55	10.47	11.46
New Jersey	7.72	7.14	6.79	7.49	7.65	7.75
New Mexico	6.05	5.47	5.25	5.20	5.02	5.07
New York	5.77	6.03	6.21	6.48	6.70	6.70
North Carolina	8.52	8.02	7.78	8.27	6.97	6.64
North Dakota	6.68	5.36	4.62	5.20	5.16	5.20
Ohio	6.90	6.05	5.26	5.22	5.21	5.23
Oklahoma	12.31	10.88	8.09	6.78	5.42	5.39
Oregon	11.30	10.79	10.02	9.51	9.38	8.74
Pennsylvania	10.67	8.92	8.12	8.22	7.37	7.19
Rhode Island	13.58	11.51	10.79	10.32	10.10	10.37
South Carolina	7.79	7.43	8.36	8.36	8.12	7.80
South Dakota	6.46	5.07	4.94	5.60	5.36	5.04
Tennessee	8.30	7.63	7.61	7.03	7.02	6.95
Texas	6.73	6.84	6.14	6.17	5.85	5.98
Utah	6.84	6.77	7.37	7.91	7.55	7.46
Vermont	5.51	6.71	6.60	6.22	7.00	7.14
Virginia	7.66	7.17	6.59	7.12	6.62	6.82
Washington	9.64	8.09	7.99	8.03	8.63	8.08
West Virginia	9.78	9.00	7.89	7.56	7.30	7.24
Wisconsin	5.26	5.29	5.98	6.07	6.35	6.59
Wyoming	7.02	6.47	6.47	6.48	6.37	6.28
Total	7.72	7.32	6.98	7.08	6.86	6.75

^R Revised data.

^{NA} 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: U.S. 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	2016	2018				
	9-Month YTD	9-Month YTD	9-Month YTD	September	August	July	June	May
Alabama	4.13	4.28	3.55	3.98	3.88	3.90	3.89	3.90
Alaska	5.61	4.67	5.19	6.00	5.87	6.01	5.34	5.54
Arizona	NA	6.38	5.79	5.64	NA	6.45	6.50	6.50
Arkansas	6.82	6.72	5.61	6.68	7.05	7.08	6.70	6.55
California	NA	7.22	6.45	7.04	NA	6.43	6.09	6.08
Colorado	NA	5.60	4.81	NA	6.24	6.64	6.55	5.45
Connecticut	6.55	6.62	6.13	6.15	6.37	6.61	6.91	6.95
Delaware	NA	9.69	8.71	NA	10.79	NA	NA	11.06
District of Columbia	--	--	--	--	--	--	--	--
Florida	NA	6.20	5.75	NA	6.66	5.93	5.51	6.38
Georgia	NA	4.74	3.96	4.41	4.29	4.38	NA	4.38
Hawaii	NA	19.14	17.50	23.38	22.37	23.04	23.32	23.05
Idaho	4.37	4.51	5.45	4.30	4.24	4.39	4.33	4.43
Illinois	NA	6.21	4.84	6.34	7.23	6.99	5.97	5.37
Indiana	NA	6.40	4.89	NA	7.31	7.39	6.56	6.42
Iowa	NA	5.16	4.59	5.36	4.78	4.45	4.32	4.36
Kansas	4.48	4.08	3.61	4.57	4.30	4.30	4.32	4.35
Kentucky	NA	4.50	3.64	3.99	3.84	3.88	3.84	3.97
Louisiana	3.36	3.72	2.88	3.16	3.43	3.14	3.29	3.44
Maine	9.13	8.00	7.41	5.78	5.79	6.41	6.30	6.81
Maryland	NA	9.87	8.60	NA	9.02	8.97	NA	8.47
Massachusetts	10.13	8.05	7.20	6.63	7.48	7.15	7.37	10.19
Michigan	6.01	6.04	5.78	6.59	7.02	6.20	6.75	6.27
Minnesota	NA	4.54	4.08	4.47	4.50	4.48	4.49	NA
Mississippi	4.90	5.11	4.22	4.53	4.71	4.80	4.63	4.59
Missouri	6.47	6.58	6.15	5.76	5.65	5.80	5.63	5.97
Montana	6.47	6.52	6.08	6.05	5.81	5.65	6.19	6.21
Nebraska	4.48	4.61	3.96	4.35	4.33	4.20	3.82	3.84
Nevada	5.73	4.90	6.35	5.80	5.91	6.14	6.33	5.95
New Hampshire	NA	9.01	8.40	6.93	7.77	7.86	NA	10.84
New Jersey	NA	7.87	6.41	6.88	NA	6.82	NA	6.51
New Mexico	NA	4.98	3.94	3.48	3.07	NA	NA	NA
New York	7.86	7.31	5.94	7.29	7.40	7.94	8.06	7.96
North Carolina	NA	6.30	5.35	5.67	5.90	5.81	5.88	6.03
North Dakota	2.99	3.05	2.44	2.78	2.78	2.72	2.65	2.65
Ohio	NA	6.83	4.65	NA	NA	NA	7.44	6.65
Oklahoma	NA	3.38	3.00	2.08	2.29	2.35	NA	1.99
Oregon	5.20	5.34	5.71	5.12	5.14	5.19	4.93	5.05
Pennsylvania	NA	8.21	7.18	9.60	9.38	9.82	9.36	8.60
Rhode Island	NA	8.47	8.75	11.12	10.97	11.63	11.46	11.41
South Carolina	4.74	4.89	3.98	4.57	4.32	4.65	4.39	4.33
South Dakota	4.74	5.22	4.72	5.72	5.46	5.55	4.76	4.36
Tennessee	4.99	5.06	4.28	4.41	4.38	4.61	4.45	4.68
Texas	3.17	3.35	2.48	3.19	2.99	3.19	3.22	3.10
Utah	5.57	5.49	5.55	4.73	4.71	4.64	5.19	5.32
Vermont	4.45	5.07	5.13	4.30	4.26	4.22	4.14	4.18
Virginia	5.05	5.10	4.36	4.99	5.36	5.00	4.91	5.05
Washington	NA	7.41	7.55	NA	NA	NA	NA	7.67
West Virginia	3.32	3.00	2.41	3.18	3.15	3.25	3.17	3.14
Wisconsin	4.86	5.35	4.93	3.78	3.98	3.92	4.26	3.98
Wyoming	3.88	4.29	3.77	3.66	3.50	3.22	3.24	3.92
Total	4.03	4.15	3.33	3.75	3.67	3.76	3.78	3.81

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	2018					2017			
	April	March	February	January	Total	December	November	October	
Alabama	3.90	3.93	4.90	4.75	4.24	4.31	4.11	3.92	
Alaska	4.92	5.29	5.57	5.68	4.63	4.73	4.59	4.02	
Arizona	NA	6.99	7.04	6.64	6.47	6.57	6.92	6.72	
Arkansas	6.61	7.09	6.83	6.77	6.67	6.48	6.62	6.63	
California	6.35	7.43	7.46	7.53	7.05	7.14	6.38	6.09	
Colorado	4.88	5.22	5.15	5.06	5.58	5.04	5.18	7.00	
Connecticut	6.52	6.57	6.57	6.43	6.48	6.12	6.08	5.97	
Delaware	9.59	9.88	10.07	10.58	9.91	10.51	12.01	10.38	
District of Columbia	--	--	--	--	--	--	--	--	
Florida	6.49	6.84	5.87	7.36	6.17	5.82	6.20	6.26	
Georgia	4.61	4.45	5.19	4.42	4.68	4.61	4.38	4.53	
Hawaii	22.04	21.57	21.71	NA	19.62	22.24	20.83	21.09	
Idaho	4.43	4.33	4.38	4.52	4.44	4.38	4.02	4.35	
Illinois	4.88	5.02	NA	5.17	5.76	4.86	4.99	5.10	
Indiana	6.09	5.84	5.87	6.38	5.99	4.85	5.34	5.43	
Iowa	5.17	5.27	NA	5.53	5.21	5.55	5.12	5.06	
Kansas	4.58	4.71	6.91	7.19	4.16	5.71	4.94	4.51	
Kentucky	4.07	4.35	NA	4.46	4.46	4.54	4.26	4.26	
Louisiana	2.99	3.64	3.47	3.74	3.64	3.35	3.41	3.53	
Maine	11.17	11.71	11.69	9.71	8.15	9.59	9.29	5.26	
Maryland	7.95	7.50	7.75	8.13	9.84	9.71	9.25	10.79	
Massachusetts	12.84	11.89	11.05	9.64	8.02	8.96	7.77	5.63	
Michigan	5.89	5.96	5.96	5.76	5.97	5.64	5.96	6.02	
Minnesota	4.08	4.34	5.30	4.82	4.48	4.66	4.05	4.40	
Mississippi	4.72	5.25	5.29	5.24	5.07	5.08	4.86	4.89	
Missouri	6.96	6.79	6.73	6.83	6.64	6.84	6.96	6.43	
Montana	6.80	6.55	6.38	7.02	6.60	7.41	6.55	6.49	
Nebraska	4.23	5.15	4.95	4.90	4.54	4.45	4.28	4.21	
Nevada	5.64	5.57	5.48	5.48	5.06	5.21	5.48	5.65	
New Hampshire	NA	NA	9.39	NA	9.09	10.03	8.92	7.66	
New Jersey	6.65	8.90	8.79	8.39	7.92	8.06	8.05	8.62	
New Mexico	3.68	4.54	4.82	4.89	5.06	5.37	5.30	5.15	
New York	7.92	8.51	7.90	7.38	7.21	7.20	6.71	6.44	
North Carolina	6.16	5.95	6.53	NA	6.24	6.29	6.02	5.89	
North Dakota	2.57	2.71	4.06	3.78	3.15	3.97	3.12	2.89	
Ohio	6.11	6.23	NA	NA	6.71	6.24	6.42	7.24	
Oklahoma	1.66	2.49	3.29	3.10	3.30	3.13	2.94	3.02	
Oregon	5.09	5.36	5.39	5.35	5.31	5.18	5.28	5.17	
Pennsylvania	8.44	8.49	NA	8.09	8.38	8.91	8.95	9.16	
Rhode Island	NA	10.14	8.75	8.62	8.48	8.62	8.45	8.41	
South Carolina	4.38	4.67	5.40	6.08	4.86	5.17	4.54	4.58	
South Dakota	4.21	4.83	4.74	4.67	5.09	4.87	4.61	5.35	
Tennessee	4.92	5.28	5.96	5.57	5.04	5.22	4.95	4.69	
Texas	2.98	2.87	3.78	3.32	3.28	3.22	2.98	3.12	
Utah	5.86	6.14	6.33	6.25	5.51	6.02	5.45	5.15	
Vermont	4.22	4.33	5.00	5.08	4.92	4.71	4.40	4.42	
Virginia	4.66	5.04	5.33	5.07	5.04	5.15	4.64	4.69	
Washington	7.51	7.60	7.62	7.49	7.39	7.45	7.34	7.11	
West Virginia	3.07	3.10	4.36	3.40	3.21	4.12	4.07	3.03	
Wisconsin	4.20	5.25	6.13	5.66	5.34	5.60	5.54	4.46	
Wyoming	4.31	4.21	4.02	4.03	4.28	4.21	4.25	4.36	
Total	3.90	4.02	4.86	4.49	4.10	4.21	3.85	3.79	

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							
	September	August	July	June	May	April	March	February
Alabama	3.89	3.93	4.07	4.21	4.18	4.25	4.08	4.70
Alaska	3.63	3.16	3.04	4.96	4.96	5.02	5.13	4.99
Arizona	6.77	7.26	6.49	6.86	6.31	6.18	5.95	6.04
Arkansas	6.66	7.03	6.74	6.69	6.53	6.80	6.63	6.69
California	6.24	6.43	6.59	7.01	7.05	7.19	7.71	7.96
Colorado	5.77	5.91	6.35	6.08	5.66	5.19	5.60	5.48
Connecticut	6.38	6.03	5.90	5.80	6.41	6.28	6.69	8.06
Delaware	10.08	13.21	13.50	10.22	9.81	9.07	9.57	9.11
District of Columbia	--	--	--	--	--	--	--	--
Florida	6.11	6.36	5.99	6.07	6.09	5.98	6.51	6.46
Georgia	4.68	4.60	4.45	4.67	4.64	4.74	4.29	5.12
Hawaii	19.75	18.87	18.57	19.10	19.60	18.83	19.22	19.69
Idaho	4.42	4.47	4.48	4.59	4.44	4.57	4.52	4.59
Illinois	5.75	6.44	7.17	6.70	6.78	6.31	5.87	6.15
Indiana	7.01	7.98	7.11	7.93	6.32	7.03	5.69	6.08
Iowa	5.33	5.18	5.43	5.51	5.31	5.06	4.69	5.14
Kansas	3.88	3.76	3.83	4.01	4.74	4.67	5.08	6.88
Kentucky	4.15	4.18	4.27	4.48	4.37	4.42	4.34	4.90
Louisiana	3.46	3.55	3.62	3.74	3.32	3.14	3.59	4.56
Maine	5.30	5.42	6.34	6.48	6.61	9.28	9.27	9.35
Maryland	11.22	10.67	11.28	11.91	10.56	11.53	8.52	9.82
Massachusetts	7.20	7.26	7.46	7.10	8.76	8.28	8.17	8.44
Michigan	6.94	6.73	6.47	6.40	6.36	6.10	5.89	5.99
Minnesota	4.24	4.19	4.14	4.44	4.23	4.40	4.42	4.86
Mississippi	4.91	4.80	5.02	4.84	4.92	4.62	5.28	5.92
Missouri	6.03	6.24	6.21	6.02	6.04	6.45	6.95	7.12
Montana	6.38	5.70	6.66	6.50	6.53	6.00	6.81	6.90
Nebraska	4.38	4.32	4.40	4.44	4.33	4.33	4.81	5.23
Nevada	5.69	6.03	5.74	5.48	5.15	4.61	4.47	4.38
New Hampshire	7.99	7.58	7.81	7.14	7.98	8.88	9.13	10.27
New Jersey	8.32	8.19	7.82	8.37	7.03	6.81	7.07	8.67
New Mexico	4.87	4.95	4.87	4.88	4.81	4.61	5.02	5.91
New York	6.17	6.82	8.04	7.78	7.20	7.85	7.49	7.45
North Carolina	6.09	6.07	6.04	5.97	6.07	6.35	6.34	6.65
North Dakota	3.78	2.82	2.85	2.95	2.81	2.89	2.66	3.45
Ohio	8.04	7.85	8.69	9.21	8.06	6.54	5.85	6.56
Oklahoma	2.87	3.13	3.46	3.39	3.22	3.21	2.93	3.82
Oregon	5.19	5.50	5.41	5.39	5.28	5.29	5.43	5.39
Pennsylvania	9.13	9.36	10.50	8.99	8.22	8.68	8.01	7.92
Rhode Island	8.59	8.74	8.74	8.43	8.55	8.67	8.39	8.34
South Carolina	4.71	4.56	4.98	4.83	4.69	4.83	4.46	5.14
South Dakota	6.04	5.64	5.62	5.20	5.22	4.57	5.01	5.36
Tennessee	4.70	4.66	4.77	4.94	4.86	4.93	5.03	5.61
Texas	3.21	3.19	3.40	3.51	3.37	3.34	2.81	3.43
Utah	5.13	5.12	5.20	5.04	5.14	5.70	5.87	5.98
Vermont	4.48	4.47	4.51	4.68	4.78	5.04	5.34	5.67
Virginia	4.92	5.22	4.94	5.41	5.04	4.87	4.67	5.61
Washington	7.22	7.42	7.73	7.38	7.52	7.52	7.35	7.59
West Virginia	2.80	2.85	2.90	2.85	2.92	2.90	3.16	3.46
Wisconsin	4.66	4.54	4.24	4.74	4.69	5.82	5.34	5.55
Wyoming	4.38	4.35	4.39	4.24	3.96	4.24	4.37	4.52
Total	3.84	3.79	3.93	4.06	4.03	4.13	3.94	4.56

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							2016
	January	Total	December	November	October	September	August	July
Alabama	5.07	3.79	4.91	4.33	4.24	4.11	3.82	3.98
Alaska	5.06	5.06	5.21	4.83	4.53	4.45	5.64	5.17
Arizona	6.18	5.79	5.94	5.82	5.61	5.56	5.98	5.81
Arkansas	6.73	5.78	6.59	6.30	5.80	5.76	5.81	5.33
California	8.38	6.79	8.44	7.48	7.27	7.35	6.91	6.30
Colorado	5.37	4.89	4.75	5.02	6.08	6.12	6.31	6.17
Connecticut	7.21	6.07	6.07	5.62	5.97	6.06	6.15	6.17
Delaware	8.93	9.02	9.04	10.07	10.31	11.86	10.24	8.94
District of Columbia	--	--	--	--	--	--	--	--
Florida	6.13	5.77	5.60	5.77	6.14	5.28	5.77	5.45
Georgia	5.48	4.13	4.93	4.42	4.47	4.49	4.38	4.27
Hawaii	18.66	17.74	18.72	18.98	17.90	17.68	18.11	18.65
Idaho	4.52	5.19	4.51	4.61	4.63	5.41	5.46	5.43
Illinois	6.12	5.03	5.22	5.83	5.72	6.07	7.16	6.99
Indiana	5.82	4.99	5.28	5.36	5.06	5.90	6.11	5.89
Iowa	5.22	4.70	5.15	4.68	4.94	4.96	4.33	4.66
Kansas	6.75	3.69	5.27	4.54	3.63	3.69	3.55	3.48
Kentucky	5.14	3.84	4.57	4.36	4.24	4.06	3.73	4.07
Louisiana	4.52	3.11	3.89	4.05	3.53	3.36	3.17	3.40
Maine	9.33	7.68	9.38	8.83	5.99	6.09	5.99	5.58
Maryland	9.49	8.80	8.97	9.47	10.69	10.34	12.50	13.80
Massachusetts	8.23	7.40	8.41	8.15	7.11	6.06	6.33	6.30
Michigan	5.77	5.75	5.63	5.55	6.11	6.05	6.00	6.38
Minnesota	5.15	4.19	4.65	4.35	4.28	4.21	4.19	4.41
Mississippi	5.47	4.34	4.70	4.81	4.59	4.50	4.48	3.86
Missouri	6.88	6.29	6.97	6.70	6.04	6.12	6.36	7.00
Montana	6.54	6.06	6.17	5.94	5.84	6.08	6.78	5.18
Nebraska	4.73	4.04	4.51	4.25	4.00	4.08	3.97	3.67
Nevada	4.36	5.90	4.60	5.07	5.21	5.88	5.80	6.52
New Hampshire	10.13	8.59	10.11	9.06	7.58	8.06	8.21	8.24
New Jersey	8.11	6.59	7.29	7.24	6.42	6.95	7.78	7.74
New Mexico	5.57	4.18	4.86	4.30	4.72	4.54	4.29	3.93
New York	6.91	5.92	6.11	5.69	5.56	5.29	5.70	5.56
North Carolina	6.66	5.43	6.12	5.46	5.26	5.26	5.20	5.15
North Dakota	3.96	2.62	3.45	2.86	2.91	2.87	3.76	3.03
Ohio	6.87	4.81	4.95	5.45	6.07	6.43	6.46	6.76
Oklahoma	4.22	2.94	2.36	3.70	3.13	4.85	4.57	3.82
Oregon	5.25	5.73	5.72	5.82	5.75	5.66	5.73	5.59
Pennsylvania	7.79	7.40	7.75	8.35	8.56	8.65	5.79	9.17
Rhode Island	8.06	8.70	8.00	8.83	9.01	9.16	9.22	8.91
South Carolina	5.78	4.20	5.30	4.77	4.48	4.37	4.24	4.46
South Dakota	5.20	4.78	4.78	4.94	5.09	6.12	6.01	5.20
Tennessee	5.76	4.44	5.31	4.80	4.70	4.49	4.36	4.42
Texas	3.84	2.65	3.35	2.93	3.22	3.15	3.02	2.98
Utah	6.03	5.52	5.89	5.17	4.96	4.93	5.00	5.02
Vermont	6.02	5.20	5.68	5.20	5.13	5.14	5.31	5.61
Virginia	5.38	4.42	4.79	4.46	4.41	4.46	4.55	4.16
Washington	7.19	7.47	7.38	7.24	7.20	7.33	7.77	7.76
West Virginia	3.11	2.43	2.52	2.40	2.52	2.33	2.26	2.30
Wisconsin	6.32	5.05	5.66	5.35	4.64	4.61	4.30	4.64
Wyoming	4.18	3.96	4.58	4.64	4.27	3.93	3.94	3.60
Total	4.87	3.51	4.27	3.86	3.87	3.74	3.59	3.57

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					
	June	May	April	March	February	January
Alabama	3.34	2.97	3.22	3.21	3.66	3.65
Alaska	4.58	3.69	6.36	6.75	6.74	4.88
Arizona	4.97	5.64	5.70	5.91	6.22	6.51
Arkansas	5.21	5.27	5.31	5.83	5.67	5.94
California	5.80	5.84	5.70	6.67	6.90	6.56
Colorado	5.46	4.25	4.36	4.95	4.50	4.21
Connecticut	6.03	6.56	6.82	5.82	5.69	6.08
Delaware	8.72	8.56	7.91	8.24	7.93	8.09
District of Columbia	--	--	--	--	--	--
Florida	5.30	5.20	5.73	6.29	6.12	6.37
Georgia	3.65	3.60	3.55	3.56	4.07	4.14
Hawaii	19.11	17.00	16.33	15.51	16.32	18.26
Idaho	5.46	5.44	5.51	5.46	5.46	5.41
Illinois	5.49	4.45	4.94	4.74	4.54	4.29
Indiana	5.13	4.22	4.52	4.81	4.98	4.47
Iowa	4.44	4.07	4.44	4.86	4.36	5.01
Kansas	3.31	3.39	3.44	4.29	6.25	6.75
Kentucky	3.05	3.42	3.00	3.53	3.87	4.03
Louisiana	2.50	2.57	2.50	2.41	2.95	3.08
Maine	5.55	5.78	8.46	8.51	8.52	8.46
Maryland	9.80	7.35	7.56	8.54	8.45	8.30
Massachusetts	6.13	7.25	7.49	7.43	7.78	7.64
Michigan	5.98	5.75	5.54	5.57	5.88	5.72
Minnesota	3.70	3.60	3.50	3.89	4.35	4.40
Mississippi	3.85	3.72	4.00	4.28	4.52	4.58
Missouri	6.03	5.53	6.02	6.10	6.28	6.06
Montana	6.63	5.17	5.79	5.92	6.72	6.30
Nebraska	3.35	3.27	3.77	4.32	4.32	4.41
Nevada	6.11	6.00	6.22	6.75	6.66	6.50
New Hampshire	7.14	7.48	7.90	7.97	8.96	9.60
New Jersey	6.53	5.61	5.14	6.90	6.25	6.44
New Mexico	3.50	3.39	3.46	3.76	4.06	4.25
New York	5.55	5.72	5.88	6.20	6.24	6.22
North Carolina	5.09	5.11	5.33	5.70	5.61	5.34
North Dakota	2.13	1.95	2.13	2.14	2.89	2.48
Ohio	5.58	5.33	4.25	4.10	4.17	4.36
Oklahoma	4.05	3.53	3.12	2.17	2.09	3.84
Oregon	5.77	5.73	5.80	5.76	5.78	5.61
Pennsylvania	7.99	8.25	6.75	7.23	6.84	7.09
Rhode Island	8.76	8.91	8.77	8.40	8.44	8.61
South Carolina	3.58	3.56	3.22	3.58	4.21	4.83
South Dakota	4.78	4.33	4.10	4.50	4.51	4.83
Tennessee	3.68	3.80	3.83	4.28	4.77	4.69
Texas	2.16	2.14	2.08	1.88	2.39	2.45
Utah	5.10	5.14	5.68	5.97	6.44	6.08
Vermont	4.97	5.13	4.93	4.96	5.17	5.14
Virginia	4.31	4.08	3.78	4.39	4.48	4.79
Washington	8.16	7.33	7.38	7.47	7.72	7.38
West Virginia	2.40	2.28	2.17	2.59	2.69	2.47
Wisconsin	3.45	3.98	5.07	4.96	5.47	5.76
Wyoming	3.66	3.71	3.65	3.68	3.82	3.95
Total	2.89	2.90	3.00	3.02	3.58	3.62

^R Revised data.

-- 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: U.S. 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^a consumers, by state, 2016-2018
(dollars per thousand cubic feet)

State	2018	2017	2016	2018				
	9-Month YTD	9-Month YTD	9-Month YTD	September	August	July	June	May
Alabama	W	W	W	W	W	W	W	W
Alaska	7.96	8.09	6.56	7.72	7.72	7.76	7.76	7.76
Arizona	W	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W	W
California	W	W	W	3.58	5.88	7.92	3.36	2.88
Colorado	W	W	W	W	W	W	W	W
Connecticut	4.43	W	3.63	3.21	3.22	3.04	2.79	2.74
Delaware	--	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--
Florida	W	W	W	W	W	W	W	W
Georgia	W	W	W	3.55	W	W	W	W
Hawaii	--	--	--	--	--	--	--	--
Idaho	2.71	--	2.95	2.86	2.69	2.63	2.27	--
Illinois	W	W	W	3.11	3.15	3.10	2.90	3.17
Indiana	W	W	W	3.27	3.24	3.07	3.14	3.10
Iowa	2.90	3.24	2.67	2.90	3.02	2.78	2.79	2.63
Kansas	3.10	3.64	3.35	3.01	3.23	3.27	2.95	2.67
Kentucky	W	W	W	W	W	W	W	W
Louisiana	W	W	W	W	W	W	W	W
Maine	W	W	W	W	W	W	--	W
Maryland	W	3.66	2.94	3.38	3.47	3.34	3.47	3.56
Massachusetts	W	W	3.02	3.05	3.21	2.90	2.84	2.47
Michigan	3.23	3.30	2.69	3.37	3.40	3.20	3.18	2.98
Minnesota	W	W	W	W	W	W	W	W
Mississippi	W	W	W	W	W	W	W	W
Missouri	W	3.11	W	W	W	W	W	W
Montana	1.36	1.89	W	1.41	1.04	1.26	1.01	1.14
Nebraska	3.79	4.02	3.25	3.93	3.66	3.24	3.37	3.05
Nevada	2.98	3.56	2.88	2.82	3.37	3.08	2.60	2.40
New Hampshire	W	W	W	W	W	W	W	W
New Jersey	3.18	2.91	2.08	2.63	2.94	2.71	2.70	2.52
New Mexico	2.58	3.60	2.94	2.19	2.45	2.59	2.64	2.18
New York	3.76	3.38	2.61	3.01	3.21	3.09	2.95	2.82
North Carolina	W	W	W	W	W	W	W	W
North Dakota	6.09	5.39	2.58	5.16	3.17	5.63	5.39	2.24
Ohio	3.00	3.08	2.27	3.04	3.03	2.98	2.95	2.76
Oklahoma	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W
Pennsylvania	2.99	2.62	1.82	2.55	2.80	2.62	2.53	2.44
Rhode Island	W	W	W	W	W	W	W	W
South Carolina	W	W	W	W	W	W	W	W
South Dakota	--	--	2.51	--	--	--	--	--
Tennessee	2.93	3.06	2.46	2.92	2.87	2.73	2.91	2.61
Texas	3.04	3.16	2.56	2.97	3.05	2.95	3.01	2.87
Utah	2.81	W	W	2.73	2.87	2.73	2.61	2.49
Vermont	--	--	--	--	--	--	--	--
Virginia	W	W	W	3.23	3.37	3.23	3.29	3.24
Washington	W	4.20	W	W	W	W	W	W
West Virginia	W	W	W	W	W	W	W	W
Wisconsin	3.16	W	W	3.05	3.04	2.96	3.10	2.96
Wyoming	W	W	W	2.96	W	W	W	W
Total	3.52	3.51	2.86	3.21	3.39	3.42	3.21	3.15

See footnotes at end of table.

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

State	2018					2017		
	April	March	February	January	Total	December	November	October
Alabama	W	W	W	W	W	W	W	W
Alaska	7.76	8.44	8.44	8.44	8.10	8.13	8.13	8.09
Arizona	W	W	3.33	W	3.68	W	W	W
Arkansas	W	W	W	W	W	W	W	W
California	3.06	W	3.72	3.79	W	W	W	W
Colorado	W	W	W	W	W	W	W	W
Connecticut	3.92	4.25	7.69	11.06	W	W	4.17	2.86
Delaware	--	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--
Florida	W	W	W	W	W	4.58	4.38	W
Georgia	W	W	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--	--	--
Idaho	--	--	3.32	--	--	--	--	--
Illinois	W	W	W	4.90	3.11	W	W	W
Indiana	W	W	W	4.32	W	W	W	W
Iowa	2.84	2.54	2.65	4.17	3.24	5.61	3.18	2.76
Kansas	3.10	3.03	3.46	4.32	3.68	4.27	3.52	3.24
Kentucky	W	W	W	W	W	W	W	W
Louisiana	W	W	W	W	W	W	W	W
Maine	W	W	W	W	W	W	--	W
Maryland	3.27	3.24	W	W	W	4.89	3.28	3.21
Massachusetts	5.54	4.27	W	14.30	3.82	8.72	W	W
Michigan	3.11	2.86	2.99	3.97	3.27	3.09	3.30	3.11
Minnesota	W	W	W	W	W	3.16	W	W
Mississippi	W	W	W	W	W	W	W	W
Missouri	W	W	W	W	3.03	2.97	2.73	2.68
Montana	1.26	1.68	1.82	2.06	1.85	1.98	1.91	0.72
Nebraska	3.94	4.53	4.74	6.76	4.19	5.97	4.89	4.02
Nevada	2.76	2.91	3.39	3.37	3.50	3.47	3.40	3.14
New Hampshire	W	W	W	W	W	W	W	W
New Jersey	2.90	2.95	3.07	7.90	3.01	5.39	2.95	1.63
New Mexico	2.04	2.59	3.06	4.18	3.58	3.67	3.69	3.36
New York	3.19	3.50	5.50	8.21	3.44	5.12	3.40	2.33
North Carolina	W	W	W	W	W	W	W	W
North Dakota	5.50	2.74	16.91	15.38	5.31	7.74	5.43	8.67
Ohio	2.87	2.72	2.96	3.63	3.05	3.00	2.94	2.89
Oklahoma	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W
Pennsylvania	2.65	2.66	3.36	5.92	2.58	3.93	2.37	1.47
Rhode Island	W	W	W	W	W	W	W	W
South Carolina	W	W	3.68	W	W	W	W	W
South Dakota	--	--	--	--	--	--	--	--
Tennessee	2.59	2.77	3.17	3.61	3.04	3.02	2.92	2.88
Texas	2.84	2.75	2.90	4.07	3.13	2.95	3.10	3.11
Utah	2.54	2.89	3.39	3.19	W	W	W	W
Vermont	--	--	--	--	--	--	--	--
Virginia	3.50	W	W	W	3.48	W	W	W
Washington	W	W	W	W	4.11	4.13	4.39	3.70
West Virginia	W	W	W	W	W	W	W	W
Wisconsin	3.24	2.92	3.38	3.99	W	3.04	3.39	3.16
Wyoming	W	W	W	W	W	3.10	3.69	W
Total	3.25	3.32	3.74	5.35	3.52	3.81	3.50	3.27

See footnotes at end of table.

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

State	2017							
	September	August	July	June	May	April	March	February
Alabama	W	W	W	W	W	W	W	W
Alaska	8.09	8.09	8.09	8.09	8.09	8.09	8.09	8.09
Arizona	W	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W	W
California	W	W	W	W	W	W	W	W
Colorado	W	W	W	W	W	W	W	W
Connecticut	2.67	W	W	W	W	W	W	5.84
Delaware	--	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--
Florida	W	W	W	4.33	W	3.59	4.02	4.38
Georgia	W	W	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--	--
Illinois	W	W	3.23	3.06	W	W	W	W
Indiana	W	W	W	W	W	W	W	W
Iowa	2.87	2.80	2.92	2.74	2.84	2.85	4.71	4.85
Kansas	3.65	3.44	3.22	3.43	4.10	3.88	3.52	4.82
Kentucky	W	W	W	W	W	W	W	5.96
Louisiana	W	W	W	W	W	W	W	W
Maine	W	W	W	W	--	W	W	W
Maryland	3.00	3.27	3.44	3.25	3.37	3.40	4.90	4.25
Massachusetts	2.29	2.42	2.58	2.65	3.36	3.47	4.35	W
Michigan	3.29	3.23	3.21	3.22	3.44	3.45	3.16	3.18
Minnesota	W	W	W	W	W	3.40	W	3.49
Mississippi	W	W	W	W	W	W	W	W
Missouri	3.10	3.19	3.07	3.22	3.40	3.03	2.59	3.05
Montana	1.49	1.52	1.52	2.10	2.49	2.22	2.09	2.25
Nebraska	4.12	3.64	3.48	3.51	4.03	4.37	5.17	6.48
Nevada	3.35	3.27	3.29	3.48	3.49	3.74	3.60	3.80
New Hampshire	W	W	W	W	W	W	W	W
New Jersey	2.04	2.19	2.44	2.42	3.24	3.34	3.45	3.64
New Mexico	3.45	3.50	3.53	3.51	3.69	3.85	3.27	3.65
New York	2.36	2.56	2.75	2.96	3.29	3.39	4.26	4.54
North Carolina	W	W	W	W	W	W	W	W
North Dakota	4.98	6.35	6.14	4.36	4.37	4.42	5.52	4.80
Ohio	2.81	2.76	2.91	3.06	3.22	3.28	2.93	3.26
Oklahoma	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W
Pennsylvania	1.71	2.03	2.27	2.39	3.00	3.00	2.86	3.21
Rhode Island	W	W	W	W	W	W	W	W
South Carolina	W	W	W	W	W	W	W	W
South Dakota	--	--	--	--	--	--	--	--
Tennessee	2.99	2.86	2.93	3.07	2.96	3.04	3.00	3.09
Texas	3.11	3.03	3.11	3.17	3.29	3.22	3.02	3.13
Utah	W	W	W	W	W	W	W	W
Vermont	--	--	--	--	--	--	--	--
Virginia	2.67	2.94	3.09	3.10	3.59	3.67	W	W
Washington	3.94	3.62	4.03	5.16	3.85	3.67	3.74	5.57
West Virginia	W	W	W	W	W	3.36	W	W
Wisconsin	3.23	3.16	W	W	W	W	W	W
Wyoming	W	W	W	W	W	W	10.87	W
Total	3.31	3.27	3.32	3.41	3.61	3.50	3.52	3.74

See footnotes at end of table.

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

State	2017							2016
	January	Total	December	November	October	September	August	July
Alabama	W	W	W	W	W	W	W	W
Alaska	8.09	6.65	7.21	6.91	6.86	6.52	6.49	6.81
Arizona	W	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W	W
California	W	3.16	4.05	3.22	3.33	3.51	3.39	3.42
Colorado	W	W	W	W	W	W	W	W
Connecticut	8.10	3.67	5.49	3.34	2.45	2.92	3.09	3.13
Delaware	--	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--
Florida	4.92	3.86	W	W	W	W	3.95	3.72
Georgia	W	3.08	W	3.15	3.59	3.59	3.33	3.30
Hawaii	--	--	--	--	--	--	--	--
Idaho	--	2.92	4.05	4.66	4.78	3.38	2.89	2.83
Illinois	W	2.88	W	W	3.18	3.29	3.07	3.06
Indiana	W	W	W	W	W	W	W	W
Iowa	5.12	2.81	3.83	3.02	3.00	3.00	2.94	2.83
Kansas	4.92	3.48	5.05	3.28	3.96	3.52	3.53	3.26
Kentucky	W	W	W	W	W	W	W	W
Louisiana	W	2.76	W	W	W	W	W	3.08
Maine	W	W	W	--	W	W	W	W
Maryland	5.50	2.97	4.98	3.67	2.75	2.47	2.97	2.94
Massachusetts	W	3.29	6.00	4.05	3.28	3.00	3.24	2.92
Michigan	3.63	2.81	3.93	2.77	3.19	3.32	3.12	3.04
Minnesota	4.49	W	W	W	W	W	W	W
Mississippi	W	W	W	W	W	W	W	W
Missouri	3.43	W	W	W	W	W	W	W
Montana	2.36	W	2.40	2.02	W	2.05	1.93	W
Nebraska	5.61	3.31	4.75	3.17	3.54	3.70	3.48	3.41
Nevada	4.37	3.02	3.77	3.35	3.46	3.39	3.23	3.38
New Hampshire	W	W	W	W	W	W	W	W
New Jersey	4.06	2.20	4.01	2.45	1.86	1.70	1.92	2.09
New Mexico	4.02	3.07	4.21	3.06	3.30	3.43	3.30	3.31
New York	5.41	2.76	5.48	2.95	1.98	2.18	2.56	2.73
North Carolina	W	W	W	W	W	W	W	W
North Dakota	6.31	2.69	3.52	2.69	3.05	3.03	2.94	2.84
Ohio	3.84	2.36	3.41	2.33	2.30	2.59	2.55	2.80
Oklahoma	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W
Pennsylvania	4.12	1.94	3.52	2.10	1.29	1.51	1.68	1.86
Rhode Island	W	W	W	W	W	W	W	2.92
South Carolina	W	W	W	W	W	W	W	W
South Dakota	--	2.62	3.92	2.50	3.38	3.39	2.94	2.87
Tennessee	3.82	2.61	3.44	2.84	3.15	2.91	2.69	2.74
Texas	3.47	2.67	3.44	2.71	3.24	3.13	2.94	2.95
Utah	W	W	W	W	W	W	W	W
Vermont	--	--	--	--	--	--	--	--
Virginia	W	W	W	W	W	W	W	W
Washington	4.95	W	W	W	W	W	W	W
West Virginia	W	W	5.88	2.84	1.69	1.97	W	3.22
Wisconsin	W	W	W	W	W	W	W	W
Wyoming	4.04	W	11.85	W	11.39	W	W	W
Total	4.33	2.99	4.15	3.14	3.23	3.18	3.07	3.07

See footnotes at end of table.

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

State	2016					
	June	May	April	March	February	January
Alabama	W	W	W	W	W	W
Alaska	7.10	6.43	6.47	6.34	6.43	6.47
Arizona	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W
California	2.95	W	2.43	2.52	2.80	3.02
Colorado	W	W	W	W	W	W
Connecticut	2.33	2.39	2.74	4.63	5.63	6.12
Delaware	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--
Florida	3.43	W	W	W	W	W
Georgia	3.03	2.44	2.40	2.23	W	W
Hawaii	--	--	--	--	--	--
Idaho	2.47	2.41	11.72	2.26	2.25	2.67
Illinois	W	2.25	2.24	2.31	W	W
Indiana	W	W	W	W	W	W
Iowa	2.63	2.10	2.61	2.23	2.57	2.96
Kansas	3.07	3.15	3.16	2.84	4.22	4.26
Kentucky	W	W	W	W	3.35	W
Louisiana	2.63	W	W	W	W	W
Maine	W	W	W	W	W	W
Maryland	3.01	2.50	2.40	2.69	5.64	3.59
Massachusetts	2.41	2.18	3.05	2.00	3.64	5.75
Michigan	2.75	2.28	2.31	2.14	2.37	2.67
Minnesota	W	W	W	W	W	W
Mississippi	W	W	W	W	W	W
Missouri	W	W	W	W	W	W
Montana	1.64	1.55	1.47	1.38	1.61	W
Nebraska	3.32	2.77	2.44	2.34	2.81	3.52
Nevada	2.57	2.54	2.40	2.30	2.78	2.98
New Hampshire	W	W	W	W	W	W
New Jersey	2.13	1.95	1.76	1.62	2.83	3.02
New Mexico	2.87	2.47	2.69	2.56	2.57	2.91
New York	2.35	2.12	2.37	2.23	3.45	3.82
North Carolina	W	W	W	W	W	W
North Dakota	2.59	2.01	2.05	1.88	2.19	2.41
Ohio	2.32	2.03	2.01	1.63	2.00	2.20
Oklahoma	W	W	W	W	W	W
Oregon	W	W	W	W	W	W
Pennsylvania	1.90	1.65	1.61	1.43	2.33	2.60
Rhode Island	W	W	W	W	W	W
South Carolina	W	W	W	W	W	W
South Dakota	2.53	2.10	2.07	1.82	2.08	2.57
Tennessee	2.37	1.96	1.96	2.05	2.33	2.58
Texas	2.62	2.17	2.14	1.91	2.19	2.53
Utah	W	W	W	W	W	W
Vermont	--	--	--	--	--	--
Virginia	W	W	W	W	W	W
Washington	W	W	W	W	W	W
West Virginia	2.00	2.03	2.13	1.93	2.07	2.22
Wisconsin	W	W	W	W	W	W
Wyoming	W	W	7.07	W	W	W
Total	2.77	2.49	2.52	2.33	2.83	3.18

^a 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: U.S. 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 9-Month YTD			2017 9-Month YTD			2016 9-Month YTD		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	79.4	25.9	100.0	76.8	25.9	100.0	78.4	24.3
Alaska	100.0	98.4	100.0	100.0	98.4	100.0	100.0	98.3	100.0
Arizona	NA	NA	NA	100.0	81.7	14.0	100.0	76.0	15.9
Arkansas	100.0	41.2	NA	100.0	37.1	1.4	100.0	39.4	1.4
California	NA	NA	NA	95.1	52.7	4.1	95.0	50.7	3.8
Colorado	100.0	NA	NA	100.0	93.5	6.9	100.0	94.0	7.4
Connecticut	NA	77.1	50.8	96.2	76.5	50.3	96.3	76.4	48.6
Delaware	NA	NA	NA	100.0	37.6	0.4	100.0	39.5	0.2
District of Columbia	75.8	NA	0.0	73.6	20.2	--	72.5	19.0	--
Florida	91.7	NA	NA	91.4	30.4	3.4	92.0	30.3	3.4
Georgia	100.0	100.0	NA	100.0	100.0	25.0	100.0	100.0	21.8
Hawaii	100.0	100.0	NA	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	NA	2.9	100.0	75.5	2.7	100.0	72.8	2.4
Illinois	85.7	33.5	NA	85.0	32.8	5.4	86.0	33.7	5.8
Indiana	NA	NA	NA	95.6	63.9	1.5	95.7	65.3	1.7
Iowa	100.0	NA	NA	100.0	67.4	2.4	100.0	68.8	3.2
Kansas	100.0	52.5	7.7	100.0	48.1	8.5	100.0	45.4	9.0
Kentucky	NA	79.1	NA	96.6	76.9	17.3	96.6	78.0	16.6
Louisiana	NA	NA	NA	100.0	79.0	3.5	100.0	78.6	3.2
Maine	100.0	NA	8.5	100.0	60.0	8.9	100.0	58.2	7.9
Maryland	NA	NA	NA	74.3	25.2	3.9	73.1	25.3	3.9
Massachusetts	NA	NA	28.9	98.3	45.6	26.1	99.0	47.1	26.5
Michigan	93.5	NA	NA	93.2	54.4	6.6	92.7	54.2	6.2
Minnesota	NA	NA	NA	100.0	87.3	15.5	100.0	83.7	14.8
Mississippi	99.7	NA	8.5	100.0	83.5	8.8	100.0	84.4	9.6
Missouri	100.0	74.5	13.9	100.0	72.2	12.1	100.0	72.7	11.8
Montana	NA	NA	1.5	99.4	50.8	1.6	99.6	48.7	1.4
Nebraska	NA	55.7	6.1	87.8	55.4	6.2	87.9	59.8	6.4
Nevada	100.0	58.1	13.5	100.0	59.1	13.7	100.0	58.4	12.0
New Hampshire	100.0	56.6	NA	100.0	54.4	4.7	100.0	54.1	6.2
New Jersey	95.3	NA	NA	94.5	42.6	6.6	94.3	37.2	5.1
New Mexico	NA	NA	NA	100.0	56.0	6.7	100.0	57.0	7.8
New York	100.0	100.0	NA	100.0	100.0	5.9	100.0	100.0	6.0
North Carolina	100.0	NA	NA	100.0	81.5	10.8	100.0	83.1	10.7
North Dakota	100.0	NA	36.9	100.0	92.5	35.2	100.0	92.6	30.2
Ohio	100.0	100.0	NA	100.0	100.0	0.9	100.0	100.0	2.0
Oklahoma	100.0	48.0	NA	100.0	45.2	7.1	100.0	44.8	8.3
Oregon	100.0	NA	15.5	100.0	94.4	15.2	100.0	94.2	14.2
Pennsylvania	86.6	36.8	NA	87.6	37.0	1.0	87.3	37.0	1.0
Rhode Island	100.0	53.5	NA	100.0	52.6	3.7	100.0	52.6	3.3
South Carolina	100.0	NA	NA	100.0	91.0	40.5	100.0	91.6	41.5
South Dakota	NA	NA	NA	100.0	80.7	3.6	100.0	80.1	4.1
Tennessee	100.0	NA	NA	100.0	87.1	23.6	100.0	87.4	28.0
Texas	NA	72.2	36.0	99.8	70.2	38.7	99.8	71.1	40.8
Utah	100.0	NA	2.8	100.0	72.9	4.4	100.0	76.4	5.9
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	NA	NA	NA	89.2	49.2	9.6	89.5	50.9	9.5
Washington	100.0	NA	NA	100.0	85.6	6.4	100.0	84.2	6.0
West Virginia	NA	54.2	4.1	100.0	49.8	3.7	100.0	50.8	10.1
Wisconsin	100.0	72.1	17.1	100.0	70.6	15.1	100.0	70.2	15.3
Wyoming	NA	48.7	NA	71.6	50.0	1.7	72.0	50.4	1.8
Total	95.9	65.3	14.3	95.7	64.9	14.5	95.8	64.7	15.0

See footnotes at end of table.

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

State	2018								
	September			August			July		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	73.2	24.1	100.0	71.9	25.6	100.0	71.1	24.5
Alaska	100.0	95.8	100.0	100.0	95.5	100.0	100.0	95.8	100.0
Arizona	100.0	NA	14.3	NA	NA	NA	100.0	69.6	12.7
Arkansas	100.0	23.9	1.3	100.0	23.5	1.4	100.0	24.3	1.2
California	94.4	48.2	3.5	NA	NA	NA	94.5	49.1	3.3
Colorado	100.0	90.5	NA	100.0	NA	5.8	100.0	90.3	5.8
Connecticut	95.3	72.0	52.3	95.1	71.6	51.6	95.1	72.6	50.1
Delaware	100.0	NA	NA	100.0	20.0	0.3	100.0	NA	NA
District of Columbia	73.2	18.8	0.0	68.5	17.9	0.0	68.9	14.1	0.0
Florida	91.9	27.0	NA	92.0	NA	3.7	92.6	27.6	3.6
Georgia	100.0	100.0	24.5	100.0	100.0	24.7	100.0	100.0	23.4
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	61.5	3.0	100.0	59.0	3.1	100.0	58.7	3.0
Illinois	87.9	21.1	3.1	85.7	20.1	2.3	85.0	19.0	2.2
Indiana	NA	NA	NA	95.6	54.2	0.7	95.5	52.6	0.7
Iowa	100.0	NA	1.9	100.0	50.5	2.0	100.0	46.3	2.1
Kansas	100.0	28.1	6.0	100.0	25.3	13.7	100.0	26.8	16.7
Kentucky	NA	70.1	16.1	97.9	68.0	16.7	97.8	66.6	16.8
Louisiana	100.0	76.1	3.5	100.0	76.1	4.5	100.0	75.9	4.2
Maine	100.0	46.7	5.6	100.0	NA	6.4	100.0	NA	6.1
Maryland	72.7	NA	NA	72.0	18.7	1.3	73.2	21.6	1.2
Massachusetts	97.4	28.7	23.5	97.3	27.9	24.8	97.2	29.7	23.7
Michigan	94.4	42.6	NA	94.0	37.1	1.9	94.1	NA	2.8
Minnesota	100.0	80.6	15.6	100.0	75.4	13.5	100.0	74.1	12.7
Mississippi	100.0	77.2	8.1	100.0	77.9	7.3	100.0	77.3	7.7
Missouri	100.0	57.4	9.7	100.0	58.4	9.9	100.0	58.7	8.3
Montana	99.4	26.0	0.7	99.4	31.0	0.8	99.4	37.8	0.7
Nebraska	89.3	41.1	5.4	89.5	39.5	5.2	NA	42.3	5.1
Nevada	100.0	48.8	10.2	100.0	46.9	8.7	100.0	48.6	8.2
New Hampshire	100.0	47.0	3.7	100.0	48.1	2.5	100.0	48.6	3.0
New Jersey	95.6	29.7	NA	95.6	25.9	NA	95.5	NA	5.4
New Mexico	100.0	NA	8.2	100.0	NA	9.3	99.9	37.6	NA
New York	100.0	100.0	3.3	100.0	100.0	3.6	100.0	100.0	3.6
North Carolina	100.0	NA	11.1	100.0	NA	8.8	100.0	78.4	8.3
North Dakota	100.0	86.4	39.8	100.0	85.3	34.6	100.0	84.5	38.0
Ohio	100.0	100.0	NA	100.0	100.0	NA	100.0	100.0	NA
Oklahoma	100.0	28.9	8.1	100.0	30.0	8.7	100.0	29.0	9.2
Oregon	100.0	92.4	16.0	100.0	91.8	13.6	100.0	92.5	13.5
Pennsylvania	87.5	26.7	0.3	87.2	26.7	0.4	87.0	26.2	0.3
Rhode Island	100.0	53.2	4.7	100.0	50.7	4.2	100.0	52.8	3.2
South Carolina	100.0	90.3	39.8	100.0	89.8	38.7	100.0	89.1	38.8
South Dakota	100.0	70.0	1.6	100.0	68.9	1.8	100.0	71.7	1.5
Tennessee	100.0	79.6	21.9	100.0	77.1	22.2	100.0	79.0	20.3
Texas	99.2	59.6	36.0	NA	61.5	35.9	98.5	63.5	34.7
Utah	100.0	53.5	2.1	100.0	55.7	2.3	100.0	55.4	2.9
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	90.1	41.6	NA	88.5	41.8	10.1	86.5	41.8	9.3
Washington	100.0	82.0	NA	100.0	NA	NA	100.0	76.6	NA
West Virginia	100.0	31.9	4.0	100.0	29.8	4.0	100.0	31.2	3.9
Wisconsin	100.0	53.4	15.6	100.0	48.0	12.1	100.0	51.5	12.5
Wyoming	NA	46.8	1.1	72.9	49.0	1.2	73.0	46.7	1.2
Total	96.2	56.6	13.8	95.6	54.9	13.9	95.8	56.1	13.7

See footnotes at end of table.

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

State	2018								
	June			May			April		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	73.7	25.3	100.0	76.7	25.8	100.0	78.3	26.5
Alaska	100.0	96.6	100.0	100.0	98.0	100.0	100.0	98.9	100.0
Arizona	100.0	NA	13.3	100.0	NA	12.2	100.0	NA	NA
Arkansas	100.0	24.8	1.1	100.0	33.9	1.2	100.0	39.9	1.4
California	94.6	50.6	4.0	94.6	53.8	4.1	94.6	52.1	4.3
Colorado	100.0	NA	5.1	100.0	NA	6.5	100.0	NA	7.2
Connecticut	95.3	72.9	48.6	NA	72.7	49.4	96.2	76.6	52.3
Delaware	100.0	NA	NA	100.0	33.2	NA	100.0	41.6	NA
District of Columbia	69.0	21.7	0.0	75.2	18.9	0.0	76.9	20.2	0.0
Florida	90.9	27.5	NA	90.8	29.0	4.5	90.5	29.6	4.1
Georgia	100.0	100.0	NA	100.0	100.0	23.2	100.0	100.0	24.2
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	NA	3.2	100.0	61.2	2.8	100.0	74.8	3.0
Illinois	84.0	21.7	3.5	77.4	21.5	6.1	85.4	34.5	8.5
Indiana	95.5	52.6	0.7	95.1	51.9	1.0	95.9	66.5	1.9
Iowa	100.0	47.9	1.9	100.0	52.3	2.3	100.0	67.5	2.3
Kansas	100.0	30.2	11.7	100.0	34.8	9.5	100.0	54.6	5.6
Kentucky	97.6	66.2	17.6	95.3	69.6	16.3	96.4	78.8	15.7
Louisiana	100.0	76.7	4.0	100.0	78.9	3.6	100.0	78.7	4.4
Maine	100.0	52.1	7.1	100.0	57.7	8.2	100.0	61.8	10.3
Maryland	73.0	17.9	NA	NA	NA	1.8	76.1	24.8	NA
Massachusetts	97.3	34.5	22.9	97.3	42.8	30.5	97.7	48.8	28.4
Michigan	94.0	39.4	2.5	90.2	41.7	4.5	93.4	62.0	7.9
Minnesota	100.0	76.8	14.1	NA	NA	NA	100.0	88.9	18.0
Mississippi	100.0	78.1	7.5	100.0	80.4	7.5	100.0	83.0	8.4
Missouri	100.0	60.9	9.6	100.0	67.7	12.2	100.0	75.4	16.4
Montana	99.4	41.9	0.7	99.5	49.0	1.2	99.5	51.4	2.0
Nebraska	89.0	40.0	5.4	87.5	50.2	6.5	88.3	58.7	6.3
Nevada	100.0	50.6	10.9	100.0	53.1	13.8	100.0	57.5	15.3
New Hampshire	100.0	49.7	NA	100.0	53.6	6.0	100.0	56.8	NA
New Jersey	95.5	30.9	NA	95.4	32.8	NA	95.3	38.8	NA
New Mexico	100.0	NA	NA	NA	NA	NA	100.0	NA	NA
New York	100.0	100.0	NA	100.0	100.0	5.6	100.0	100.0	7.2
North Carolina	100.0	NA	8.2	100.0	80.3	9.2	100.0	82.7	11.5
North Dakota	100.0	87.2	35.5	100.0	NA	29.5	100.0	92.9	40.9
Ohio	100.0	100.0	0.5	100.0	100.0	0.6	100.0	100.0	1.2
Oklahoma	100.0	34.0	NA	100.0	46.3	7.8	100.0	45.6	7.5
Oregon	100.0	92.6	14.1	100.0	92.2	14.2	100.0	93.8	16.1
Pennsylvania	86.5	25.9	0.4	84.7	31.3	0.8	85.8	35.7	1.4
Rhode Island	100.0	50.3	3.7	100.0	47.6	3.6	100.0	52.1	NA
South Carolina	100.0	90.7	40.3	100.0	89.7	41.7	100.0	89.9	41.5
South Dakota	100.0	75.8	1.7	100.0	NA	3.6	100.0	83.2	NA
Tennessee	100.0	81.0	21.6	100.0	84.3	24.2	100.0	88.9	23.4
Texas	99.2	64.0	35.5	99.4	66.9	35.1	99.7	70.5	36.7
Utah	100.0	66.2	2.9	100.0	NA	3.0	100.0	70.0	3.2
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	88.6	40.8	NA	86.0	38.7	8.5	89.0	49.4	11.5
Washington	100.0	NA	NA	100.0	79.5	4.6	100.0	NA	6.6
West Virginia	100.0	30.7	4.5	NA	36.0	4.7	100.0	57.3	4.5
Wisconsin	100.0	53.2	11.2	100.0	61.5	15.4	100.0	74.1	20.0
Wyoming	73.2	47.1	1.4	72.0	48.0	NA	71.2	49.5	1.7
Total	95.7	57.7	13.8	94.8	59.7	13.9	95.6	65.3	14.8

See footnotes at end of table.

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

State	2018								
	March			February			January		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	77.3	26.9	100.0	86.6	26.6	100.0	83.4	27.2
Alaska	100.0	99.1	100.0	100.0	99.3	100.0	100.0	99.2	100.0
Arizona	100.0	NA	11.4	100.0	NA	12.9	100.0	NA	12.6
Arkansas	100.0	45.6	1.4	100.0	54.5	2.1	100.0	54.9	NA
California	94.8	54.8	4.5	95.4	55.2	5.2	95.2	54.0	4.2
Colorado	100.0	NA	7.8	100.0	NA	8.4	100.0	NA	8.3
Connecticut	96.4	79.0	48.0	96.4	80.5	52.0	96.9	80.8	52.2
Delaware	100.0	NA	NA	100.0	49.0	NA	NA	NA	0.4
District of Columbia	75.1	NA	0.0	77.4	22.3	0.0	76.9	NA	0.0
Florida	90.5	29.5	3.8	92.4	31.7	5.1	92.6	32.7	3.8
Georgia	100.0	100.0	23.0	100.0	100.0	24.2	100.0	100.0	25.6
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	NA
Idaho	100.0	80.0	2.6	100.0	NA	2.7	100.0	82.6	2.7
Illinois	86.6	37.6	8.9	86.0	38.5	NA	87.0	40.9	10.5
Indiana	96.0	69.5	1.9	95.9	68.9	2.6	96.3	70.1	NA
Iowa	100.0	69.3	2.9	100.0	NA	NA	100.0	70.8	2.8
Kansas	100.0	57.0	4.3	100.0	65.6	1.3	100.0	68.2	1.0
Kentucky	97.4	81.5	16.4	96.6	83.1	NA	96.9	84.0	16.1
Louisiana	NA	NA	3.6	100.0	84.1	4.3	100.0	83.3	NA
Maine	100.0	63.6	10.4	100.0	NA	10.1	100.0	67.7	10.7
Maryland	76.0	32.4	NA	74.6	29.8	NA	76.4	34.5	6.3
Massachusetts	NA	NA	30.5	97.7	52.1	31.8	97.8	56.1	33.4
Michigan	93.8	60.5	8.5	93.6	61.4	NA	93.6	63.3	11.1
Minnesota	NA	NA	22.1	100.0	90.6	22.1	100.0	91.1	20.9
Mississippi	100.0	NA	8.4	100.0	88.1	11.2	99.1	90.6	10.1
Missouri	100.0	75.9	14.7	100.0	79.2	18.8	100.0	82.1	18.9
Montana	NA	NA	2.4	99.5	50.9	2.5	99.5	55.5	2.1
Nebraska	88.4	60.6	6.7	88.1	60.0	7.2	88.6	61.5	7.1
Nevada	100.0	64.9	17.6	100.0	64.3	18.3	100.0	66.8	17.9
New Hampshire	100.0	58.2	NA	100.0	58.6	NA	100.0	59.1	NA
New Jersey	95.5	47.2	NA	95.1	41.9	NA	95.0	49.8	NA
New Mexico	100.0	61.3	4.4	100.0	65.3	3.8	100.0	60.1	3.2
New York	100.0	100.0	7.5	100.0	100.0	8.4	100.0	100.0	8.4
North Carolina	100.0	89.0	12.4	100.0	84.2	15.1	100.0	92.4	NA
North Dakota	100.0	NA	35.1	100.0	94.2	39.0	100.0	94.7	38.3
Ohio	100.0	100.0	1.1	100.0	100.0	NA	100.0	100.0	NA
Oklahoma	100.0	54.3	7.6	100.0	52.5	7.5	100.0	54.5	8.0
Oregon	100.0	94.8	16.7	100.0	NA	17.8	100.0	95.1	16.9
Pennsylvania	87.5	40.6	1.7	86.2	38.9	NA	86.8	41.8	2.6
Rhode Island	100.0	54.0	3.8	100.0	53.7	4.1	100.0	57.2	4.2
South Carolina	100.0	92.4	NA	100.0	92.4	43.4	100.0	NA	38.1
South Dakota	NA	NA	6.0	100.0	83.6	5.7	100.0	84.1	5.8
Tennessee	100.0	NA	25.6	100.0	93.1	25.8	100.0	93.4	NA
Texas	99.9	75.9	38.6	100.0	78.4	35.4	NA	82.1	36.3
Utah	100.0	74.7	3.1	100.0	73.0	2.8	100.0	77.2	3.0
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	91.8	58.6	12.5	90.4	52.8	11.3	NA	NA	14.9
Washington	100.0	87.3	NA	100.0	83.9	7.3	100.0	87.8	7.7
West Virginia	100.0	65.3	4.0	100.0	63.0	4.0	100.0	66.5	3.6
Wisconsin	100.0	75.8	19.0	100.0	78.6	20.2	100.0	80.1	21.8
Wyoming	70.2	49.8	1.9	69.2	48.9	2.6	69.2	48.4	2.1
Total	95.9	68.4	15.0	96.0	69.1	14.6	96.1	71.2	14.9

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								
	Total			December			November		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	75.8	26.2	100.0	76.3	26.5	100.0	72.1	26.9
Alaska	100.0	98.4	100.0	100.0	99.3	100.0	100.0	98.7	100.0
Arizona	100.0	81.1	13.8	100.0	80.7	13.5	100.0	78.8	14.2
Arkansas	100.0	36.0	1.4	100.0	39.2	1.8	100.0	30.7	1.6
California	95.1	52.4	4.2	95.4	54.6	4.6	95.3	51.0	4.0
Colorado	100.0	94.0	7.2	100.0	95.7	8.7	100.0	94.9	8.0
Connecticut	96.2	76.6	50.4	96.6	78.9	52.8	95.5	76.5	49.6
Delaware	100.0	36.1	0.3	100.0	36.7	0.3	100.0	30.2	0.2
District of Columbia	73.9	20.1	--	75.4	21.3	--	74.7	19.1	--
Florida	91.3	30.4	3.4	91.3	32.8	3.6	90.2	30.6	3.8
Georgia	100.0	100.0	24.9	100.0	100.0	23.8	100.0	100.0	23.1
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	76.9	2.8	100.0	84.7	3.4	100.0	77.5	2.6
Illinois	86.8	34.1	6.0	91.9	37.8	9.5	87.6	36.2	6.9
Indiana	95.8	66.1	1.6	96.1	72.0	2.4	95.9	67.7	2.2
Iowa	100.0	68.5	3.0	100.0	72.2	4.9	100.0	70.3	5.4
Kansas	100.0	49.0	7.0	100.0	55.4	1.8	100.0	54.0	2.6
Kentucky	97.1	78.0	17.0	97.6	83.5	15.7	98.0	78.7	15.6
Louisiana	100.0	78.5	3.5	100.0	78.3	3.5	100.0	75.3	4.0
Maine	100.0	59.3	9.0	100.0	63.2	10.6	100.0	53.2	9.2
Maryland	74.9	25.7	4.0	76.2	28.7	6.0	78.1	28.8	3.8
Massachusetts	98.3	46.1	26.4	98.0	53.2	30.3	98.2	45.3	25.0
Michigan	93.4	56.2	6.7	93.9	63.0	10.4	93.9	58.6	5.2
Minnesota	100.0	88.1	17.1	100.0	90.7	23.5	100.0	89.6	23.2
Mississippi	100.0	83.8	8.9	100.0	87.1	8.4	100.0	82.6	9.4
Missouri	100.0	71.7	12.1	100.0	73.5	13.4	100.0	70.3	12.4
Montana	99.4	49.7	1.4	99.5	48.4	1.2	99.5	47.3	1.3
Nebraska	87.5	55.1	6.1	87.5	57.8	6.0	86.5	53.6	5.7
Nevada	100.0	59.1	14.5	100.0	64.8	19.1	100.0	57.9	16.0
New Hampshire	100.0	54.0	4.9	100.0	55.6	7.7	100.0	49.9	4.9
New Jersey	94.7	42.7	6.6	95.1	46.5	10.7	95.1	42.0	6.2
New Mexico	100.0	54.0	6.6	100.0	51.3	4.1	100.0	47.3	7.6
New York	100.0	100.0	5.7	100.0	100.0	6.6	100.0	100.0	4.3
North Carolina	100.0	83.6	10.8	100.0	89.8	12.4	100.0	87.0	10.7
North Dakota	100.0	92.7	35.0	100.0	94.1	42.3	100.0	93.7	28.3
Ohio	100.0	100.0	0.9	100.0	100.0	1.4	100.0	100.0	0.9
Oklahoma	100.0	42.2	7.0	100.0	38.0	8.1	100.0	34.6	5.8
Oregon	100.0	94.5	15.5	100.0	95.6	17.1	100.0	94.7	16.3
Pennsylvania	87.7	37.4	0.9	87.9	42.7	1.2	88.4	35.4	0.7
Rhode Island	100.0	52.8	3.7	100.0	54.1	3.8	100.0	53.9	3.8
South Carolina	100.0	91.3	40.4	100.0	93.4	38.1	100.0	91.6	42.0
South Dakota	100.0	80.9	4.1	100.0	83.2	8.0	100.0	81.3	5.5
Tennessee	100.0	87.3	24.0	100.0	90.4	23.6	100.0	86.8	26.7
Texas	99.8	70.2	38.4	99.7	73.5	37.6	99.7	70.4	37.5
Utah	100.0	72.6	4.1	100.0	75.5	3.0	100.0	68.0	3.4
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	90.0	51.3	9.8	92.1	61.8	11.9	92.2	54.9	10.3
Washington	100.0	86.4	6.4	100.0	89.7	7.4	100.0	88.3	6.6
West Virginia	100.0	51.8	3.8	100.0	64.3	3.6	100.0	54.6	4.1
Wisconsin	100.0	71.9	16.2	100.0	78.3	22.2	100.0	75.0	18.1
Wyoming	71.9	50.7	1.7	72.9	52.6	1.9	72.3	52.7	2.0
Total	95.9	65.4	14.5	96.5	69.1	15.0	96.0	65.8	14.5

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								
	October			September			August		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	68.7	27.6	100.0	71.3	26.6	100.0	70.8	25.2
Alaska	100.0	96.7	100.0	100.0	96.4	100.0	100.0	96.4	100.0
Arizona	100.0	77.6	13.0	100.0	77.9	14.3	100.0	72.5	11.9
Arkansas	100.0	25.3	1.2	100.0	25.5	1.4	100.0	24.3	1.3
California	95.0	48.3	4.5	95.1	47.4	3.9	94.5	46.8	3.9
Colorado	100.0	94.2	6.2	100.0	91.1	6.2	100.0	91.5	5.5
Connecticut	95.1	72.9	49.1	95.5	73.5	49.6	95.4	72.2	47.2
Delaware	100.0	23.4	0.2	100.0	24.6	0.1	100.0	23.0	0.1
District of Columbia	71.7	16.2	--	71.0	16.6	--	73.0	16.9	--
Florida	91.9	27.7	3.1	93.0	30.5	3.7	92.4	27.3	3.2
Georgia	100.0	100.0	26.5	100.0	100.0	26.0	100.0	100.0	24.3
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	72.7	2.5	100.0	64.2	2.5	100.0	63.0	2.9
Illinois	90.3	34.3	4.7	86.4	21.3	2.7	82.7	20.6	2.8
Indiana	95.7	67.6	1.2	95.7	56.5	0.9	95.1	53.1	0.9
Iowa	100.0	67.6	2.9	100.0	54.0	2.3	100.0	54.8	1.7
Kansas	100.0	37.2	2.7	100.0	26.8	11.9	100.0	27.7	17.2
Kentucky	98.8	72.8	17.5	97.6	69.1	16.9	97.7	64.8	16.7
Louisiana	100.0	76.2	3.5	100.0	78.7	3.5	100.0	76.9	3.3
Maine	100.0	45.6	7.6	100.0	45.0	6.8	100.0	43.6	7.2
Maryland	73.4	21.0	2.6	73.6	17.0	1.6	72.4	16.4	2.0
Massachusetts	97.9	35.1	24.8	97.9	28.0	22.2	97.9	29.0	21.9
Michigan	93.9	52.8	4.0	93.9	38.9	2.9	93.4	36.2	2.3
Minnesota	100.0	87.6	16.7	100.0	75.5	12.8	100.0	71.0	12.2
Mississippi	100.0	82.6	9.3	100.0	80.3	8.6	100.0	81.3	7.9
Missouri	100.0	60.4	10.2	100.0	61.3	10.9	100.0	58.6	8.9
Montana	99.5	44.1	0.9	99.5	37.9	0.8	99.4	37.2	0.9
Nebraska	84.4	46.6	4.7	88.9	43.9	4.9	89.3	42.4	4.6
Nevada	100.0	50.9	14.2	100.0	48.8	10.6	100.0	47.1	8.5
New Hampshire	100.0	46.4	3.2	100.0	45.5	2.7	100.0	46.6	3.0
New Jersey	94.8	33.8	2.2	94.7	20.4	2.5	94.9	29.0	2.2
New Mexico	99.9	43.2	8.5	99.9	46.6	7.4	99.9	46.7	10.0
New York	100.0	100.0	4.2	100.0	100.0	4.1	100.0	100.0	4.6
North Carolina	100.0	84.5	9.8	100.0	76.6	9.7	100.0	75.9	8.7
North Dakota	100.0	89.9	30.9	100.0	88.2	8.9	100.0	86.7	33.7
Ohio	100.0	100.0	0.5	100.0	100.0	0.4	100.0	100.0	0.5
Oklahoma	100.0	24.8	5.9	100.0	30.1	7.4	100.0	29.2	5.0
Oregon	100.0	93.6	15.5	100.0	92.2	14.8	100.0	92.5	13.3
Pennsylvania	88.0	31.7	0.4	87.9	28.9	0.3	87.8	29.0	0.3
Rhode Island	100.0	51.5	3.6	100.0	53.5	3.2	100.0	54.4	3.1
South Carolina	100.0	90.7	40.0	100.0	89.3	40.3	100.0	89.6	40.4
South Dakota	100.0	77.2	2.3	100.0	71.2	1.6	100.0	68.0	1.8
Tennessee	100.0	82.5	25.6	100.0	80.4	22.7	100.0	79.2	23.0
Texas	99.7	65.9	37.8	99.8	64.1	38.5	99.8	62.8	39.6
Utah	100.0	67.8	3.4	100.0	58.4	3.7	100.0	55.2	4.0
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	90.5	47.1	8.3	86.7	38.6	7.6	87.7	40.8	7.3
Washington	100.0	86.3	5.7	100.0	81.5	5.3	100.0	78.0	3.9
West Virginia	100.0	36.6	3.8	100.0	36.2	3.4	100.0	30.0	4.1
Wisconsin	100.0	63.6	15.0	100.0	52.2	10.6	100.0	52.4	11.1
Wyoming	72.7	52.8	1.5	74.9	53.5	1.8	72.7	49.6	1.3
Total	96.4	61.5	14.2	96.1	56.2	13.7	95.6	55.9	14.2

^R Revised data.

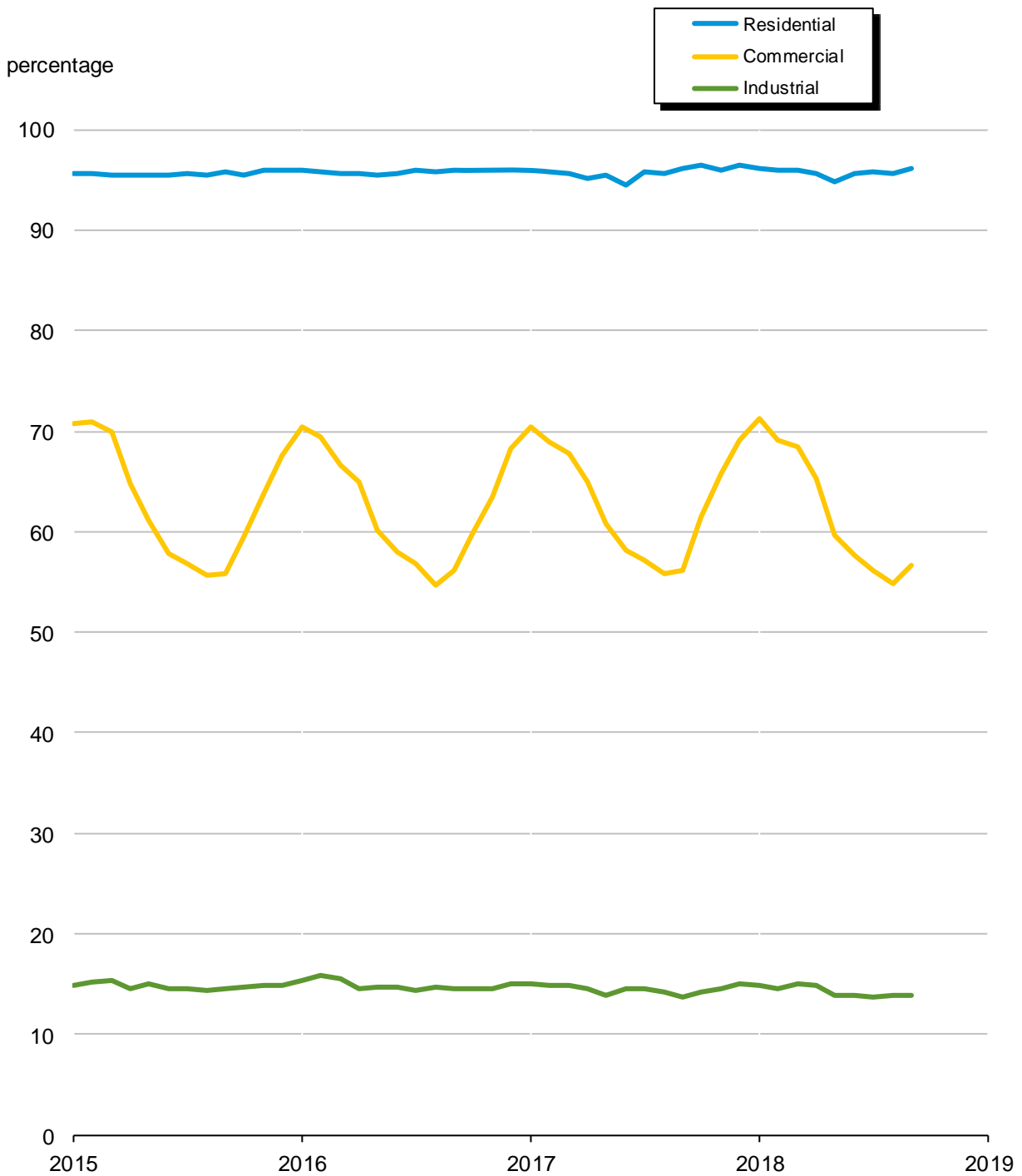
-- Not applicable.

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

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



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

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

State	2018	2017	2016	2018				
	9-Month YTD	9-Month YTD	9-Month YTD	September	August	July	June	May
Alabama	1,027	1,030	1,029	1,028	1,026	1,024	1,027	1,028
Alaska	975	990	1,001	970	937	956	953	980
Arizona	1,041	1,040	1,038	1,044	1,042	1,041	1,041	1,037
Arkansas	1,017	1,025	1,024	1,013	1,015	1,018	1,017	1,018
California	1,034	1,035	1,035	1,033	1,035	1,035	1,034	1,033
Colorado	1,077	1,065	1,062	1,096	1,091	1,089	1,089	1,081
Connecticut	1,028	1,026	1,026	1,027	1,027	1,027	1,027	1,027
Delaware	1,040	1,039	1,042	1,040	1,037	1,038	1,043	1,035
District of Columbia	1,039	1,042	1,043	1,030	1,027	1,031	1,029	1,027
Florida	1,023	1,023	1,022	1,022	1,021	1,026	1,021	1,023
Georgia	1,028	1,032	1,030	1,031	1,029	1,026	1,028	1,028
Hawaii	962	973	991	953	932	961	956	974
Idaho	1,038	1,037	1,033	1,024	1,020	1,037	1,029	1,058
Illinois	1,030	1,030	1,031	1,025	1,024	1,027	1,026	1,029
Indiana	1,046	1,044	1,037	1,049	1,052	1,051	1,054	1,048
Iowa	1,061	1,053	1,054	1,076	1,069	1,075	1,066	1,061
Kansas	1,039	1,038	1,035	1,036	1,040	1,041	1,048	1,041
Kentucky	1,051	1,037	1,031	1,046	1,046	1,047	1,044	1,046
Louisiana	1,022	1,030	1,032	1,024	1,023	1,022	1,022	1,023
Maine	1,042	1,026	1,026	1,039	1,045	1,047	1,047	1,041
Maryland	1,043	1,050	1,052	1,035	1,034	1,040	1,038	1,041
Massachusetts	1,031	1,031	1,030	1,029	1,030	1,030	1,029	1,029
Michigan	1,047	1,042	1,040	1,049	1,049	1,053	1,053	1,044
Minnesota	1,045	1,030	1,041	1,062	1,060	1,065	1,052	1,040
Mississippi	1,026	1,034	1,031	1,029	1,026	1,026	1,025	1,030
Missouri	1,025	1,021	1,024	1,025	1,028	1,030	1,031	1,027
Montana	1,047	1,032	1,029	1,048	1,055	1,056	1,051	1,048
Nebraska	1,057	1,058	1,055	1,073	1,073	1,072	1,062	1,059
Nevada	1,038	1,040	1,042	1,036	1,037	1,041	1,041	1,041
New Hampshire	1,031	1,030	1,029	1,028	1,029	1,030	1,030	1,028
New Jersey	1,038	1,040	1,040	1,035	1,035	1,035	1,034	1,034
New Mexico	1,037	1,043	1,049	1,039	1,040	1,040	1,042	1,034
New York	1,031	1,032	1,031	1,029	1,030	1,030	1,029	1,029
North Carolina	1,028	1,037	1,036	1,030	1,024	1,026	1,029	1,030
North Dakota	1,079	1,052	1,060	1,071	1,076	1,072	1,076	1,087
Ohio	1,064	1,069	1,070	1,063	1,063	1,061	1,060	1,061
Oklahoma	1,033	1,044	1,049	1,028	1,028	1,029	1,031	1,033
Oregon	1,068	1,052	1,040	1,062	1,059	1,066	1,080	1,080
Pennsylvania	1,038	1,039	1,042	1,036	1,035	1,036	1,036	1,037
Rhode Island	1,029	1,030	1,029	1,029	1,028	1,028	1,028	1,028
South Carolina	1,027	1,030	1,030	1,025	1,024	1,024	1,027	1,028
South Dakota	1,064	1,053	1,057	1,079	1,083	1,065	1,063	1,055
Tennessee	1,024	1,027	1,028	1,021	1,019	1,019	1,022	1,023
Texas	1,026	1,030	1,031	1,027	1,027	1,026	1,027	1,026
Utah	1,040	1,042	1,042	1,042	1,039	1,035	1,040	1,042
Vermont	1,033	1,029	1,026	1,024	1,025	1,030	1,033	1,026
Virginia	1,050	1,051	1,054	1,049	1,050	1,046	1,051	1,048
Washington	1,089	1,079	1,078	1,094	1,091	1,092	1,088	1,088
West Virginia	1,094	1,083	1,092	1,104	1,097	1,101	1,100	1,106
Wisconsin	1,036	1,032	1,035	1,034	1,028	1,034	1,039	1,032
Wyoming	1,059	1,064	1,071	1,065	1,066	1,053	1,057	1,058
Total	1,036	1,036	1,037	1,035	1,034	1,035	1,035	1,034

See footnotes at end of table.

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

State	2018					2017		
	April	March	February	January	Total	December	November	October
Alabama	1,027	1,028	1,026	1,026	1,030	1,027	1,029	1,030
Alaska	987	982	991	995	989	992	996	983
Arizona	1,035	1,043	1,041	1,045	1,041	1,042	1,040	1,039
Arkansas	1,016	1,017	1,019	1,016	1,019	1,014	1,014	1,021
California	1,031	1,032	1,034	1,036	1,035	1,034	1,033	1,032
Colorado	1,071	1,072	1,064	1,066	1,065	1,065	1,061	1,069
Connecticut	1,029	1,029	1,029	1,030	1,028	1,029	1,029	1,026
Delaware	1,037	1,043	1,043	1,044	1,042	1,047	1,044	1,042
District of Columbia	1,038	1,044	1,042	1,047	1,039	1,045	1,041	1,033
Florida	1,023	1,024	1,023	1,024	1,024	1,022	1,020	1,021
Georgia	1,027	1,029	1,028	1,028	1,030	1,026	1,026	1,028
Hawaii	974	973	971	965	975	989	969	984
Idaho	1,053	1,040	1,039	1,045	1,041	1,038	1,031	1,030
Illinois	1,032	1,031	1,033	1,032	1,029	1,031	1,032	1,030
Indiana	1,042	1,043	1,039	1,041	1,043	1,043	1,050	1,049
Iowa	1,055	1,051	1,054	1,054	1,056	1,059	1,058	1,060
Kansas	1,036	1,037	1,036	1,037	1,034	1,032	1,038	1,034
Kentucky	1,061	1,055	1,051	1,054	1,046	1,055	1,056	1,060
Louisiana	1,019	1,021	1,021	1,022	1,022	1,021	1,020	1,023
Maine	1,042	1,044	1,035	1,035	1,030	1,031	1,030	1,022
Maryland	1,045	1,052	1,043	1,051	1,047	1,048	1,038	1,042
Massachusetts	1,029	1,032	1,032	1,033	1,030	1,031	1,030	1,030
Michigan	1,046	1,047	1,046	1,044	1,043	1,044	1,043	1,042
Minnesota	1,039	1,037	1,038	1,037	1,033	1,039	1,038	1,032
Mississippi	1,025	1,024	1,024	1,024	1,032	1,026	1,027	1,027
Missouri	1,021	1,023	1,023	1,023	1,010	1,021	1,021	1,022
Montana	1,045	1,047	1,043	1,044	1,041	1,052	1,045	1,052
Nebraska	1,053	1,053	1,043	1,052	1,061	1,059	1,054	1,065
Nevada	1,037	1,036	1,036	1,038	1,039	1,039	1,030	1,035
New Hampshire	1,032	1,033	1,033	1,036	1,030	1,033	1,031	1,029
New Jersey	1,039	1,040	1,039	1,042	1,039	1,042	1,042	1,036
New Mexico	1,032	1,031	1,035	1,040	1,042	1,042	1,042	1,041
New York	1,031	1,033	1,032	1,033	1,032	1,034	1,033	1,031
North Carolina	1,025	1,027	1,028	1,029	1,036	1,026	1,032	1,040
North Dakota	1,078	1,080	1,074	1,098	1,080	1,104	1,086	1,094
Ohio	1,065	1,065	1,064	1,068	1,070	1,074	1,071	1,076
Oklahoma	1,032	1,035	1,039	1,041	1,042	1,037	1,036	1,036
Oregon	1,080	1,070	1,070	1,063	1,062	1,059	1,062	1,059
Pennsylvania	1,037	1,039	1,039	1,041	1,040	1,042	1,041	1,039
Rhode Island	1,029	1,029	1,029	1,029	1,029	1,029	1,029	1,030
South Carolina	1,029	1,029	1,029	1,029	1,031	1,028	1,029	1,031
South Dakota	1,058	1,057	1,061	1,063	1,055	1,067	1,058	1,056
Tennessee	1,028	1,028	1,027	1,025	1,031	1,031	1,030	1,027
Texas	1,024	1,025	1,024	1,026	1,029	1,029	1,027	1,028
Utah	1,043	1,034	1,042	1,044	1,042	1,043	1,042	1,041
Vermont	1,034	1,036	1,035	1,036	1,030	1,033	1,033	1,026
Virginia	1,050	1,056	1,049	1,053	1,053	1,057	1,052	1,051
Washington	1,090	1,090	1,086	1,085	1,080	1,084	1,084	1,082
West Virginia	1,091	1,085	1,086	1,091	1,083	1,073	1,086	1,081
Wisconsin	1,040	1,039	1,035	1,040	1,035	1,035	1,039	1,034
Wyoming	1,057	1,057	1,060	1,054	1,060	1,052	1,047	1,049
Total	1,035	1,037	1,037	1,038	1,036	1,039	1,037	1,035

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

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
	January	Total	December	November	October	September	August	July
Alabama	1,028	1,029	1,030	1,030	1,031	1,032	1,031	1,029
Alaska	1,000	1,001	1,000	1,000	1,001	1,002	1,003	1,003
Arizona	1,042	1,037	1,039	1,034	1,031	1,034	1,035	1,031
Arkansas	1,018	1,019	1,019	1,021	1,018	1,020	1,022	1,021
California	1,036	1,035	1,034	1,032	1,033	1,037	1,038	1,035
Colorado	1,060	1,063	1,059	1,063	1,069	1,075	1,074	1,072
Connecticut	1,026	1,027	1,026	1,026	1,026	1,026	1,025	1,025
Delaware	1,047	1,046	1,047	1,045	1,046	1,046	1,043	1,044
District of Columbia	1,051	1,044	1,045	1,040	1,035	1,038	1,038	1,038
Florida	1,024	1,023	1,025	1,024	1,023	1,026	1,026	1,023
Georgia	1,030	1,030	1,031	1,030	1,032	1,032	1,029	1,028
Hawaii	955	981	954	947	952	945	947	967
Idaho	1,036	1,038	1,033	1,036	1,035	1,035	1,035	1,028
Illinois	1,033	1,031	1,033	1,031	1,029	1,028	1,030	1,029
Indiana	1,038	1,038	1,035	1,046	1,048	1,042	1,047	1,035
Iowa	1,052	1,056	1,056	1,059	1,059	1,059	1,061	1,057
Kansas	1,042	1,034	1,038	1,039	1,037	1,038	1,039	1,033
Kentucky	1,037	1,030	1,026	1,039	1,027	1,030	1,038	1,033
Louisiana	1,023	1,024	1,023	1,022	1,022	1,026	1,028	1,022
Maine	1,037	1,026	1,030	1,018	1,016	1,019	1,026	1,023
Maryland	1,054	1,051	1,050	1,045	1,042	1,046	1,051	1,052
Massachusetts	1,031	1,030	1,030	1,029	1,029	1,029	1,028	1,028
Michigan	1,045	1,041	1,044	1,048	1,047	1,047	1,052	1,044
Minnesota	1,028	1,037	1,033	1,033	1,037	1,038	1,036	1,034
Mississippi	1,034	1,031	1,033	1,037	1,032	1,034	1,031	1,022
Missouri	1,022	1,024	1,024	1,024	1,024	1,023	1,024	1,022
Montana	1,036	1,034	1,035	1,039	1,029	1,034	1,033	1,028
Nebraska	1,057	1,059	1,059	1,063	1,068	1,069	1,073	1,070
Nevada	1,041	1,041	1,041	1,038	1,039	1,044	1,045	1,044
New Hampshire	1,032	1,029	1,031	1,027	1,028	1,026	1,026	1,026
New Jersey	1,043	1,041	1,042	1,040	1,038	1,038	1,039	1,038
New Mexico	1,045	1,046	1,041	1,040	1,039	1,048	1,055	1,046
New York	1,033	1,031	1,033	1,031	1,030	1,030	1,029	1,029
North Carolina	1,033	1,035	1,032	1,034	1,039	1,037	1,035	1,033
North Dakota	1,076	1,083	1,092	1,075	1,072	1,061	1,090	1,089
Ohio	1,071	1,071	1,073	1,071	1,072	1,068	1,067	1,068
Oklahoma	1,046	1,049	1,053	1,050	1,050	1,053	1,051	1,049
Oregon	1,036	1,059	1,038	1,035	1,038	1,038	1,046	1,045
Pennsylvania	1,041	1,041	1,040	1,039	1,040	1,041	1,039	1,040
Rhode Island	1,029	1,029	1,028	1,028	1,030	1,029	1,028	1,028
South Carolina	1,030	1,030	1,031	1,029	1,031	1,030	1,030	1,029
South Dakota	1,055	1,056	1,052	1,052	1,053	1,056	1,057	1,060
Tennessee	1,032	1,030	1,033	1,035	1,028	1,026	1,025	1,025
Texas	1,027	1,030	1,029	1,028	1,030	1,034	1,035	1,031
Utah	1,043	1,042	1,043	1,042	1,041	1,041	1,042	1,042
Vermont	1,034	1,024	1,029	1,022	1,019	1,016	1,017	1,016
Virginia	1,057	1,053	1,054	1,055	1,052	1,053	1,054	1,054
Washington	1,076	1,078	1,080	1,083	1,081	1,076	1,085	1,085
West Virginia	1,084	1,097	1,085	1,083	1,083	1,103	1,109	1,108
Wisconsin	1,041	1,039	1,041	1,033	1,036	1,029	1,026	1,026
Wyoming	1,060	1,074	1,057	1,056	1,050	1,054	1,058	1,053
Total	1,039	1,037	1,039	1,037	1,036	1,037	1,037	1,034

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					
	June	May	April	March	February	January
Alabama	1,026	1,028	1,028	1,030	1,025	1,029
Alaska	1,003	1,002	1,001	1,001	1,000	1,000
Arizona	1,031	1,037	1,042	1,050	1,047	1,046
Arkansas	1,020	1,018	1,019	1,017	1,015	1,019
California	1,042	1,021	1,035	1,034	1,036	1,038
Colorado	1,071	1,066	1,065	1,055	1,052	1,050
Connecticut	1,026	1,025	1,026	1,026	1,026	1,026
Delaware	1,042	1,042	1,044	1,043	1,050	1,055
District of Columbia	1,034	1,035	1,040	1,043	1,049	1,051
Florida	1,020	1,021	1,023	1,024	1,025	1,015
Georgia	1,027	1,030	1,028	1,030	1,030	1,029
Hawaii	1,050	1,018	992	1,003	1,004	998
Idaho	1,035	1,044	1,056	1,044	1,038	1,034
Illinois	1,027	1,032	1,032	1,030	1,031	1,031
Indiana	1,042	1,038	1,034	1,032	1,033	1,030
Iowa	1,058	1,057	1,053	1,052	1,052	1,053
Kansas	1,034	1,032	1,033	1,037	1,036	1,032
Kentucky	1,025	1,018	1,026	1,023	1,025	1,027
Louisiana	1,023	1,022	1,021	1,022	1,025	1,024
Maine	1,023	1,019	1,024	1,030	1,037	1,035
Maryland	1,046	1,047	1,048	1,050	1,055	1,061
Massachusetts	1,029	1,029	1,029	1,030	1,032	1,031
Michigan	1,041	1,038	1,040	1,036	1,038	1,040
Minnesota	1,044	1,042	1,041	1,039	1,035	1,043
Mississippi	1,030	1,036	1,033	1,039	1,032	1,031
Missouri	1,022	1,021	1,024	1,024	1,023	1,024
Montana	1,029	1,023	1,023	1,027	1,030	1,033
Nebraska	1,064	1,064	1,062	1,048	1,054	1,054
Nevada	1,038	1,039	1,042	1,037	1,042	1,043
New Hampshire	1,028	1,027	1,029	1,031	1,039	1,035
New Jersey	1,037	1,037	1,039	1,042	1,043	1,044
New Mexico	1,049	1,052	1,048	1,048	1,048	1,046
New York	1,030	1,029	1,033	1,033	1,034	1,033
North Carolina	1,034	1,038	1,038	1,037	1,034	1,034
North Dakota	1,070	1,091	1,108	1,099	1,095	1,095
Ohio	1,069	1,070	1,068	1,070	1,072	1,073
Oklahoma	1,046	1,047	1,044	1,048	1,047	1,049
Oregon	1,044	1,043	1,038	1,036	1,034	1,033
Pennsylvania	1,041	1,042	1,042	1,042	1,045	1,048
Rhode Island	1,028	1,029	1,034	1,025	1,027	1,032
South Carolina	1,029	1,030	1,031	1,029	1,031	1,031
South Dakota	1,058	1,054	1,052	1,053	1,058	1,060
Tennessee	1,024	1,031	1,031	1,034	1,035	1,035
Texas	1,027	1,029	1,032	1,030	1,028	1,029
Utah	1,040	1,041	1,042	1,041	1,043	1,046
Vermont	1,025	1,023	1,028	1,030	1,032	1,029
Virginia	1,052	1,054	1,052	1,056	1,055	1,055
Washington	1,080	1,078	1,078	1,077	1,075	1,070
West Virginia	1,118	1,096	1,096	1,096	1,096	1,092
Wisconsin	1,033	1,037	1,038	1,038	1,046	1,045
Wyoming	1,048	1,053	1,055	1,071	1,052	1,056
Total	1,034	1,034	1,037	1,037	1,038	1,038

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: U.S. 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."

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
Supply and Disposition	
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
Consumption by Sector	
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 and 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

Natural gas production data (gross withdrawals, gas vented and flared, repressuring, nonhydrocarbon gases removed, fuel used on leases, and marketed production) were obtained directly from the state agencies where available, or, in some cases, from EIA-914 estimates, state sponsored public record databases, or commercial data vendors such as DrillingInfo (DI) or PointLogic. Production data for the Federal Gulf of Mexico region are provided by the U.S. Bureau of Safety and Environmental Enforcement (BSEE). Federal Offshore Pacific production, currently allocated to California, is also collected from BSEE.

Note 2. Natural Gas Plant Liquid (NGPL) Production

Monthly Data

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

Annual Data

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

Note 3. Supplemental Gaseous Fuels

Monthly Data

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

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

Annual Data

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

Note 4. Imports and Exports

Monthly and Annual Data – Imports

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

Note 5. Natural Gas Storage

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

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

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

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

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

Pacific Region: California, Oregon, and Washington.

Monthly Data

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

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

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

Annual Data

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

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

Note 6. Consumption

Monthly Data

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

Annual Data

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

Residential, Commercial, and Industrial Consumption

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

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

Vehicle Fuel Use

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

Electric Power Consumption

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

Pipeline and Distribution Use

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

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

Lease and Plant Fuel Consumption

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

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

Note 7. Balancing Item

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

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

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

Note 8. Average Price of Deliveries to Consumers

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

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

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

Monthly Data

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

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

The NGPL composite spot price is calculated as:

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

where:

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

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

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

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

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

Annual Data

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

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

Note 10. Heating Degree-Days

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

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

Note 11. Heat Content

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

This page intentionally blank.

Appendix B

Data Sources

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

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

Form EIA-176, “Annual Report of Natural and Supplemental Gas Supply and Disposition”

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

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

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

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

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

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

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

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

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

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

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

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

[Form EIA-914, " Monthly Crude Oil and Lease Condensate, and 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.

This page intentionally blank.

Appendix C

Statistical Considerations

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

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

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

Sample Design

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

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

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

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

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

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

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

Estimation Procedures

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

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

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

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

or (1)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

where:

R_{adj} = sendout adjusted residential volume,

C_{adj} = sendout adjusted commercial volume,

SO = sendout volume,

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

EP = reported electric power volume,

IN = reported industrial volume,

R = reported residential volume,

C = reported commercial volume.

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

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

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

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

where:

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

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

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

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

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

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

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

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

for Georgia, and,

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

for New York and Ohio, where:

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

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

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

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

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

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

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

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

Estimation for Nonrespondents and Edit Failures.

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

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

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

where:

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

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

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

Final Revisions

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

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

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

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

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

The formula for revising the estimated consumption is:

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

where:

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

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

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

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

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

The formula for revising the estimated revenue is:

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

where:

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

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

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

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

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

Reliability of Monthly Data

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

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

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

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

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

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

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

where:

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

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

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

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

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

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

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

N = frame size.

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

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

where:

P_j = natural gas price in sector j,

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

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

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

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

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

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

and,

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

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

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

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

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

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

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

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

State	Volume Relative Standard Error (Percent)				Price (Dollars per Thousand Cubic Feet)		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama	3.0	1.7	1.2	1.1	0.52	0.16	0.14
Alaska	1.2	2.3	0.0	0.9	0.11	0.20	0.00
Arizona	1.8	5.4	4.1	2.8	0.49	NA	0.07
Arkansas	1.6	0.1	4.0	2.8	0.05	0.02	0.23
California	2.2	1.6	1.2	0.9	0.83	0.48	0.35
Colorado	1.5	1.7	6.7	3.6	0.15	0.33	NA
Connecticut	0.2	1.2	1.7	0.8	0.11	0.14	0.01
Delaware	0.0	0.0	0.0	0.0	NA	NA	NA
District of Columbia	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Florida	2.7	1.1	6.2	3.5	0.88	0.36	NA
Georgia	0.0	0.0	1.0	0.0	0.07	0.07	0.10
Hawaii	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Idaho	0.8	0.5	0.0	0.2	0.02	0.02	0.00
Illinois	0.9	4.2	2.4	1.7	0.60	0.41	0.41
Indiana	1.9	0.9	0.8	0.7	NA	NA	NA
Iowa	1.1	0.8	2.0	1.7	0.12	NA	0.14
Kansas	2.2	0.5	2.7	2.0	0.29	0.08	0.21
Kentucky	2.0	2.6	1.9	1.6	NA	0.13	0.21
Louisiana	4.1	2.1	1.4	1.3	0.53	0.33	0.06
Maine	2.7	8.7	5.4	4.6	1.39	0.67	0.00
Maryland	0.2	0.4	0.9	0.3	0.06	NA	NA
Massachusetts	0.9	0.6	1.1	0.5	0.10	0.22	0.12
Michigan	0.6	0.9	NA	NA	0.01	0.12	0.15
Minnesota	0.4	1.7	5.2	3.3	0.10	0.07	0.05
Mississippi	1.3	0.9	4.1	3.7	0.11	0.15	0.10
Missouri	1.7	1.2	1.2	0.8	0.13	0.12	0.09
Montana	0.8	0.4	0.1	0.2	0.05	0.10	0.52
Nebraska	0.9	1.3	2.4	1.9	0.23	0.22	0.17
Nevada	0.0	0.0	0.3	0.1	0.00	0.00	0.10
New Hampshire	0.0	0.0	9.4	5.7	0.00	0.00	0.00
New Jersey	0.0	0.0	NA	NA	0.00	0.00	0.00
New Mexico	2.3	2.3	2.2	1.3	0.13	NA	0.00
New York	0.0	0.0	3.3	0.0	0.10	0.04	0.30
North Carolina	1.1	0.6	0.9	0.6	NA	NA	0.42
North Dakota	0.2	0.2	0.2	0.2	0.03	0.02	0.00
Ohio	0.0	0.0	0.8	0.0	0.27	0.05	NA
Oklahoma	2.8	0.8	1.4	1.2	0.10	0.30	0.12
Oregon	0.0	0.0	1.4	0.9	0.00	0.00	0.00
Pennsylvania	1.3	1.4	1.6	1.1	0.11	0.13	0.36
Rhode Island	0.0	0.0	0.0	0.0	NA	0.00	0.00
South Carolina	0.8	1.4	1.3	1.1	0.90	0.19	0.10
South Dakota	2.9	1.6	1.0	0.9	0.20	0.04	0.18
Tennessee	1.6	1.6	1.5	1.2	0.38	0.19	0.10
Texas	2.2	2.6	1.3	1.2	0.85	0.24	0.01
Utah	0.3	0.3	0.0	0.1	0.00	0.00	0.01
Vermont	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Virginia	0.9	1.1	NA	NA	0.23	0.14	0.14
Washington	0.5	2.7	2.2	1.3	0.01	0.03	NA
West Virginia	5.8	0.9	1.9	1.4	0.13	0.13	0.03
Wisconsin	1.0	1.4	2.0	1.3	0.24	0.12	0.14
Wyoming	NA	5.4	6.7	NA	0.65	0.56	0.05
Total	0.4	0.4	0.4	0.3	0.16	0.06	0.02

^{NA} Not available.

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

This page intentionally blank.

Glossary

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.