



Independent Statistics & Analysis
U.S. Energy Information
Administration

Natural Gas Monthly

September 2019



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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 Energy Production, Conversion, and Delivery, 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.

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Highlights

This issue of the *Natural Gas Monthly* (NGM) contains state and national-level estimates of natural gas volume and price data through July 2019.

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, 2014-2019

(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
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 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	€2,415	R7	*	896	R-13	R3,304
February	€2,724	€2,385	163	€2,222	6	-38	467	R38	R2,695
March	€3,048	€2,673	188	€2,485	6	-21	285	R12	R2,767
April	€2,960	€2,598	185	€2,413	5	-37	-32	R-19	R2,330
May	€3,082	€2,713	193	€2,521	5	-45	-423	R-17	R2,040
June	€2,955	€2,641	188	€2,453	6	-34	-349	R-33	R2,044
July	€3,108	€2,784	199	€2,585	5	-59	-186	R-5	R2,340
August	€3,180	€2,845	205	€2,640	6	-74	-235	R-32	R2,305
September	€3,135	€2,790	200	€2,590	6	-88	-334	R-22	R2,152
October	€3,272	€2,909	206	€2,702	6	-92	-291	R-57	R2,270
November	€3,233	€2,855	198	€2,657	6	-125	205	R-61	R2,681
December	€3,353	€2,957	201	€2,756	5	-106	320	R-24	R2,952
Total	€37,009	€32,735	2,296	€30,439	R69	-719	324	R-232	R29,880
2019									
January	€3,356	€2,955	R205	€2,750	5	-74	709	R-16	R3,374
February	€3,050	€2,697	191	€2,506	6	-97	568	R-10	R2,974
March	€3,386	€3,005	213	RE2,791	6	R-121	245	R-46	R2,876
April	€3,306	€2,923	208	€2,716	5	-131	-382	R-32	R2,176
May	RE3,391	RE3,007	216	RE2,791	4	-160	-472	R-63	R2,099
June	RE3,290	RE2,939	207	RE2,731	R6	-158	-431	R-55	R2,092
July	€3,376	€3,039	209	€2,830	5	-161	-254	-35	2,385
2019 7-Month YTD	€23,156	€20,565	1,449	€19,116	37	-902	-17	-258	17,977
2018 7-Month YTD	€20,836	€18,380	1,286	€17,093	40	-233	658	-37	17,521
2017 7-Month YTD	19,012	16,565	1,081	15,483	37	-2	235	-125	15,629

^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 2014 through 2017 include underground storage and liquefied natural gas storage. Data for January 2018 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; and 27 for 2014. 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.

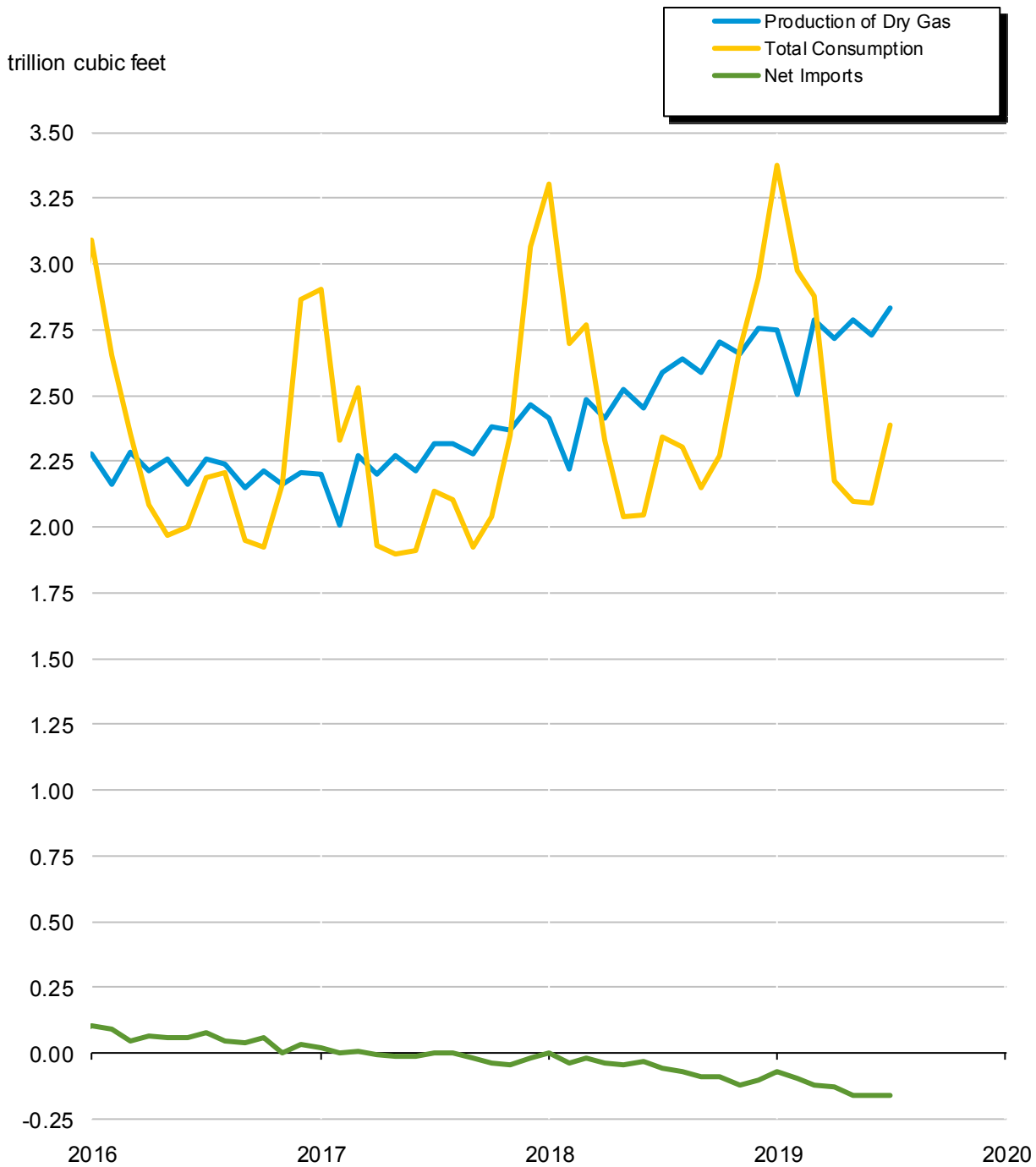
^{RE} Revised estimated data.

Notes: Data for 2014 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: 2014-2017: 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, 2016-2019



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, 2014-2019

(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		
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 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	RE133	E88	976	548	771	785	E4	3,084	R3,304	1,038
February	RE122	E72	687	420	689	701	E3	2,501	R2,695	1,037
March	RE137	E74	656	414	727	755	E4	2,556	R2,767	1,037
April	RE133	E62	439	299	687	707	E4	2,135	R2,330	1,035
May	RE139	E54	168	162	660	853	E4	1,847	R2,040	1,034
June	RE136	RE54	119	140	639	952	E4	1,854	R2,044	1,035
July	RE143	E62	105	135	655	1,236	E4	2,135	R2,340	1,035
August	RE146	RE61	99	141	658	1,195	E4	2,097	R2,305	1,034
September	RE143	E57	112	145	647	1,045	E4	1,952	R2,152	1,035
October	RE149	RE60	255	235	671	895	E4	2,060	R2,270	1,036
November	RE147	RE71	595	382	726	756	E4	2,463	R2,681	1,037
December	RE152	E79	763	455	756	744	E4	2,721	R2,952	1,038
Total	RE1,680	RE795	4,974	3,476	8,286	10,626	E43	27,405	R29,880	1,036
2019										
January	RE152	E90	950	553	791	834	E4	3,132	R3,374	1,038
February	RE138	E79	804	470	710	769	E4	2,757	R2,974	1,037
March	RE154	E77	686	423	740	792	E4	2,646	R2,876	1,037
April	RE150	E58	327	246	667	724	E4	1,968	R2,176	1,037
May	RE154	E56	212	185	667	822	E4	1,889	R2,099	1,035
June	RE151	E56	129	144	626	983	E4	1,886	R2,092	1,035
July	E156	E63	113	142	639	1,267	E4	2,166	2,385	1,037
2019 7-Month YTD	E1,055	E478	3,221	2,163	4,840	6,191	E28	16,443	17,977	1,037
2018 7-Month YTD	E943	E466	3,150	2,118	4,828	5,991	E25	16,111	17,521	1,036
2017 7-Month YTD	888	416	2,700	1,872	4,581	5,143	28	14,325	15,629	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 downs, as well as fuel used in liquefaction and regasification.

^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.

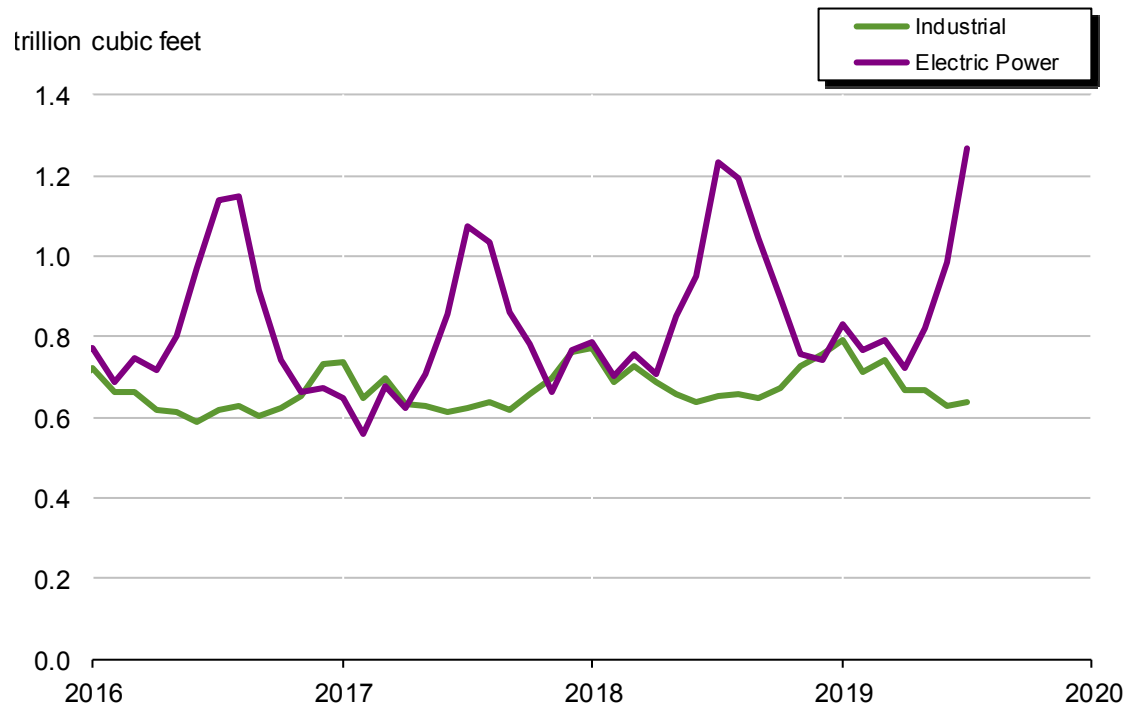
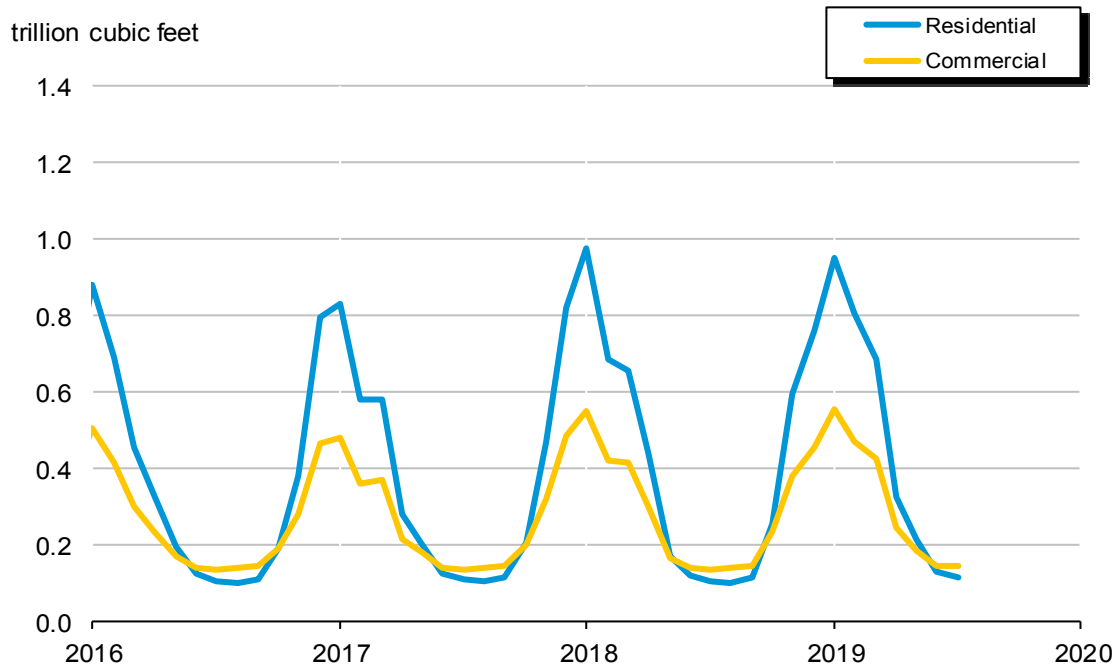
^{RE} Revised estimated data.

Notes: Data for 2014 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: 2014-2017: 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, 2016-2019



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, 2014-2019

(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						
				Residential		Commercial		Industrial		Electric Power Price ^d
				Price	% of Total ^c	Price	% of Total ^c	Price	% of Total ^c	
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 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	8.91	96.1	7.43	71.2	4.48	14.9	5.35
February	7.43	2.67	3.99	9.64	96.0	7.82	69.1	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	10.04	95.6	7.66	65.3	3.90	14.7	3.25
May	8.40	2.80	4.13	13.64	94.8	8.46	59.7	3.81	13.8	3.15
June	8.57	2.97	4.46	16.51	95.7	8.65	57.4	3.78	13.7	3.21
July	8.99	2.83	4.71	17.92	95.8	8.93	56.0	3.76	13.7	3.41
August	9.18	2.96	4.84	18.63	95.6	8.74	54.8	3.67	13.9	3.39
September	10.46	3.00	4.70	17.31	96.2	8.64	56.5	3.75	13.7	3.21
October	9.11	3.28	4.07	12.26	96.5	7.71	61.0	4.04	13.7	3.50
November	6.97	4.09	4.29	9.43	96.4	7.35	66.5	4.51	14.2	4.32
December	6.38	4.04	4.75	9.63	96.2	7.77	68.8	5.46	14.3	4.89
Annual Average	8.20	3.16	4.21	10.52	96.0	7.83	65.6	4.20	14.2	3.68
2019										
January	6.46	3.11	4.02	9.43	96.3	7.75	70.2	5.04	13.6	4.16
February	6.60	2.69	3.84	9.47	96.1	7.61	69.4	4.65	14.0	3.79
March	6.58	2.95	4.01	9.48	96.0	7.47	69.1	4.33	13.6	3.59
April	6.09	2.65	3.69	10.92	95.6	7.77	64.2	4.02	12.9	2.98
May	5.61	2.64	3.66	12.85	95.7	8.12	60.8	3.65	12.4	2.86
June	4.49	2.40	4.06	15.67	95.6	8.28	58.7	3.56	12.2	2.67
July	4.62	2.37	4.15	17.89	95.9	8.49	56.1	3.35	12.8	2.62
2019 7-Month YTD	5.77	2.69	3.93	10.41	96.0	7.76	66.5	4.15	13.1	3.18
2018 7-Month YTD	8.02	2.93	4.04	10.30	95.8	7.84	66.5	4.11	14.4	3.60
2017 7-Month YTD	6.31	3.04	4.20	10.77	95.7	7.94	66.2	4.23	14.6	3.60

^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 Refinitiv. See Appendix A, Explanatory Note 9, for full discussion.

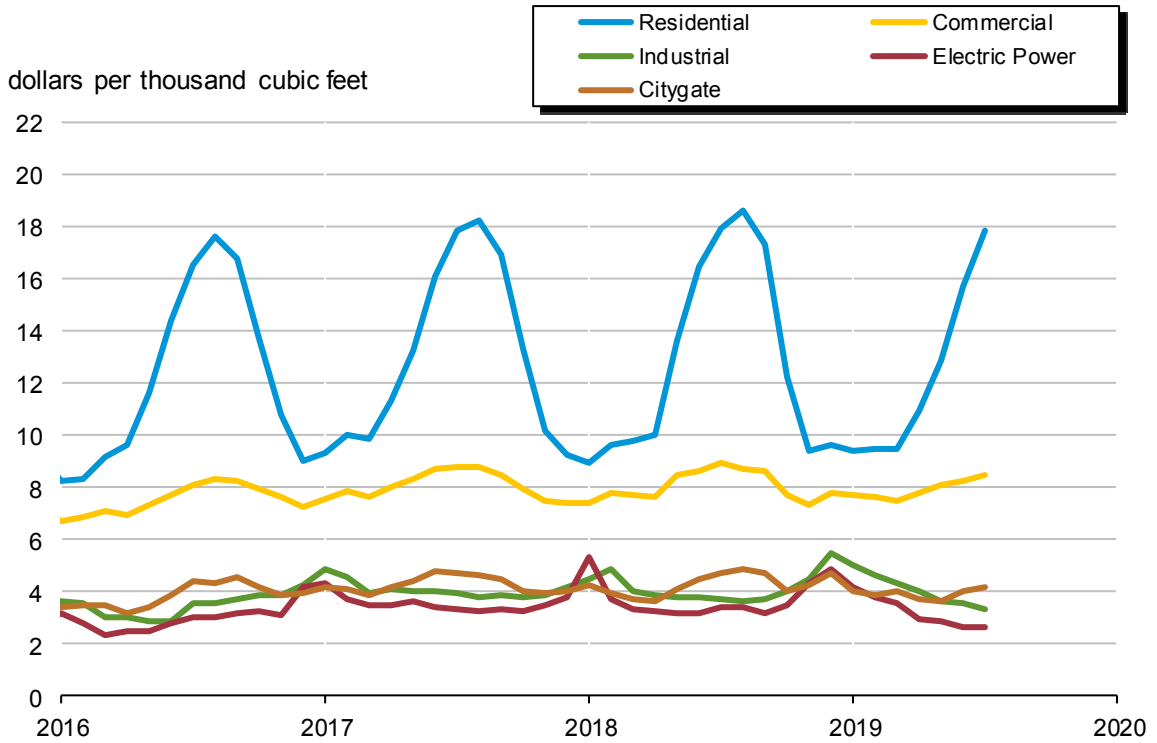
^c Percentage of total deliveries represented by onsystem sales (see Figure 6). See Table 24 for state data.

^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.

Notes: Prices are in nominal dollars. Data for 2014 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: 2014-2017: 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; Refinitiv; and EIA estimates.

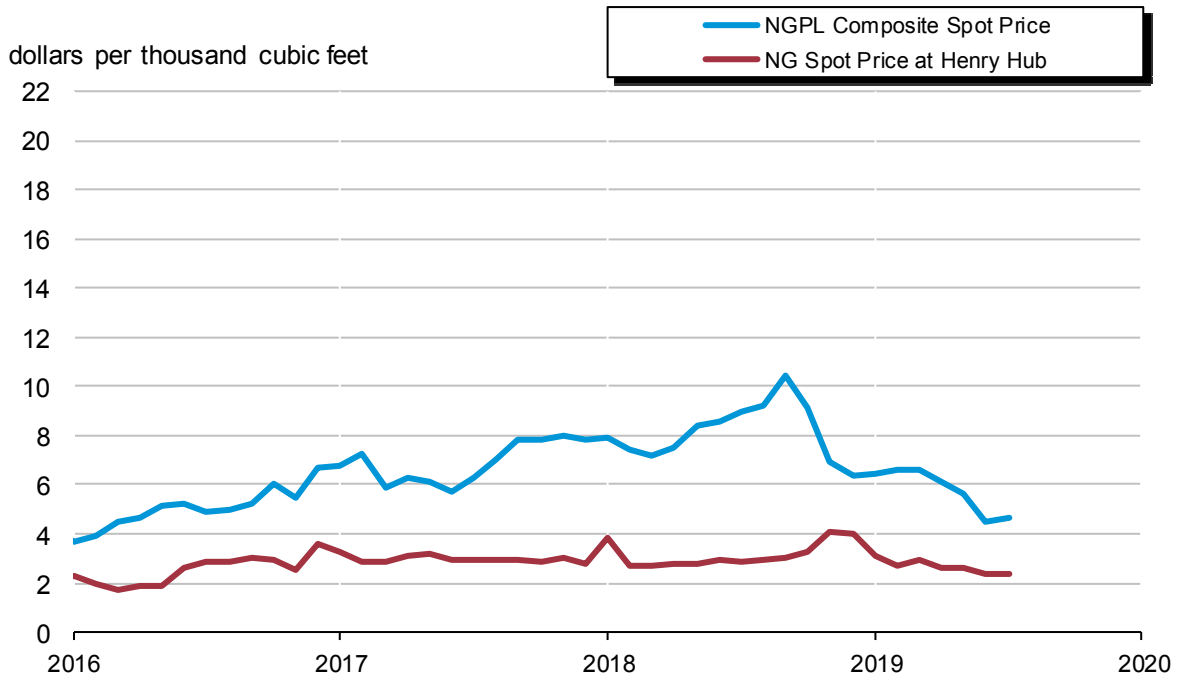
Figure 3. Average citygate and consumer prices of natural gas in the United States, 2016-2019



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; Refinitiv; and EIA estimates.

Figure 4. Spot prices of natural gas and natural gas plant liquids in the United States, 2016-2019



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; Refinitiv; and EIA estimates.

Table 4. U.S. natural gas imports, 2017-2019

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

	2019	2018	2017	2019				
	7-Month YTD	7-Month YTD	7-Month YTD	July	June	May	April	March
Imports								
Volume (million cubic feet)								
Pipeline								
Canada ^a	1,590,967	1,706,077	1,751,202	227,488	201,069	207,535	203,620	R249,309
Mexico	569	2,513	554	62	64	78	65	133
Total Pipeline Imports	1,591,536	1,708,590	1,751,756	227,550	201,133	207,613	203,685	R249,443
LNG								
By Truck								
Canada	222	947	866	*	5	R9	31	44
By Vessel								
France	2,608	2,768	0	0	0	0	0	0
Nigeria	0	0	2,753	0	0	0	0	0
Norway	0	0	0	0	0	0	0	0
Trinidad/Tobago	28,318	37,338	44,181	2,832	0	0	2,811	3,456
United Kingdom	0	3,119	0	0	0	0	0	0
Total LNG Imports	31,148	44,172	47,800	2,832	5	R9	2,842	3,499
CNG								
Canada	240	222	209	26	26	29	32	47
Total CNG Imports	240	222	209	26	26	29	32	47
Total Imports	1,622,924	1,752,984	1,799,765	230,407	201,163	R207,651	206,559	R252,989
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.62	2.36	2.69	1.72	1.54	1.81	1.97	3.63
Mexico	3.31	4.21	2.74	2.29	2.08	1.89	2.40	4.06
Total Pipeline Imports	2.62	2.37	2.69	1.72	1.54	1.81	1.97	3.63
LNG								
By Truck								
Canada	7.14	8.22	8.75	6.33	8.44	R7.66	7.20	7.07
By Vessel								
France	10.39	8.35	--	--	--	--	--	--
Nigeria	--	--	5.82	--	--	--	--	--
Norway	--	--	--	--	--	--	--	--
Trinidad/Tobago	8.50	5.34	4.58	6.73	--	--	7.33	7.71
United Kingdom	--	13.26	--	--	--	--	--	--
Total LNG Imports	8.65	6.15	4.73	6.73	8.44	R7.66	7.32	7.70
CNG								
Canada	3.63	4.29	3.72	0.68	0.85	0.94	1.57	3.48
Total CNG Imports	3.63	4.29	3.72	0.68	0.85	0.94	1.57	3.48
Total Imports	2.91	2.62	2.87	1.86	1.54	1.81	2.14	3.79
Net Imports - Volume	-901,500	-233,418	-1,756	-160,675	-158,364	R-160,300	R-131,077	R-120,554

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2017-2019

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

	2019						2018	
	February	January	Total	December	November	October	September	August
Imports								
Volume (million cubic feet)								
Pipeline								
Canada ^a	225,650	276,296	2,808,720	242,282	209,573	208,954	210,828	231,007
Mexico	100	67	3,316	66	79	69	68	522
Total Pipeline Imports	225,750	276,363	2,812,036	242,347	209,652	209,023	210,896	231,529
LNG								
By Truck								
Canada	56	78	1,885	53	70	379	194	242
By Vessel								
France	0	2,608	2,768	0	0	0	0	0
Nigeria	0	0	2,860	2,860	0	0	0	0
Norway	0	0	0	0	0	0	0	0
Trinidad/Tobago	7,472	11,748	65,819	11,859	2,734	5,696	2,961	5,231
United Kingdom	0	0	3,119	0	0	0	0	0
Total LNG Imports	7,528	14,434	76,451	14,771	2,805	6,075	3,154	5,473
CNG								
Canada	39	42	359	30	30	30	24	23
Total CNG Imports	39	42	359	30	30	30	24	23
Total Imports	233,317	290,839	2,888,847	257,148	212,486	215,128	214,074	237,025
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	3.60	3.55	2.58	4.14	3.87	2.34	1.97	2.09
Mexico	5.29	3.55	4.34	4.87	2.98	2.43	3.13	5.49
Total Pipeline Imports	3.60	3.55	2.58	4.14	3.87	2.34	1.97	2.10
LNG								
By Truck								
Canada	7.06	7.08	8.51	7.20	8.44	9.64	8.36	8.32
By Vessel								
France	--	10.39	8.35	--	--	--	--	--
Nigeria	--	--	8.84	8.84	--	--	--	--
Norway	--	--	--	--	--	--	--	--
Trinidad/Tobago	8.98	9.14	6.01	8.60	10.76	5.66	4.80	3.50
United Kingdom	--	--	13.26	--	--	--	--	--
Total LNG Imports	8.96	9.35	6.56	8.64	10.70	5.90	5.02	3.72
CNG								
Canada	6.48	8.08	3.89	8.23	2.22	2.00	1.48	1.42
Total CNG Imports	6.48	8.08	3.89	8.23	2.22	2.00	1.48	1.42
Total Imports	4.06	4.30	2.68	4.89	4.10	2.61	2.09	2.22
Net Imports - Volume	-96,597	-73,934	-718,571	-106,310	-125,229	-91,518	-87,672	-74,424

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2017-2019

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

							2018	2017
	July	June	May	April	March	February	January	Total
Imports								
Volume (million cubic feet)								
Pipeline								
Canada ^a	240,422	225,297	224,298	239,027	264,129	229,812	283,093	2,962,689
Mexico	960	240	190	68	119	805	130	1,346
Total Pipeline Imports	241,382	225,537	224,488	239,095	264,248	230,617	283,223	2,964,035
LNG								
By Truck								
Canada	226	216	224	196	54	21	10	1,569
By Vessel								
France	0	0	0	0	2,768	0	0	0
Nigeria	0	0	0	0	0	0	0	5,992
Norway	0	0	0	0	0	0	0	0
Trinidad/Tobago	5,376	2,688	2,429	2,934	3,650	6,750	13,511	70,450
United Kingdom	0	0	0	0	0	0	3,119	0
Total LNG Imports	5,602	2,904	2,653	3,131	6,473	6,771	16,640	78,011
CNG								
Canada	28	28	27	39	42	29	28	345
Total CNG Imports	28	28	27	39	42	29	28	345
Total Imports	247,012	228,469	227,168	242,264	270,762	237,417	299,891	3,042,391
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.02	1.77	1.64	2.11	2.16	2.75	3.79	2.55
Mexico	5.32	2.63	2.22	2.10	2.65	4.38	3.38	2.93
Total Pipeline Imports	2.03	1.77	1.64	2.11	2.16	2.76	3.79	2.55
LNG								
By Truck								
Canada	8.32	8.18	8.27	8.30	7.94	7.17	7.94	8.63
By Vessel								
France	--	--	--	--	8.35	--	--	--
Nigeria	--	--	--	--	--	--	--	6.52
Norway	--	--	--	--	--	--	--	--
Trinidad/Tobago	3.53	4.33	4.27	4.33	6.08	5.95	6.18	4.32
United Kingdom	--	--	--	--	--	--	13.26	--
Total LNG Imports	3.72	4.62	4.61	4.57	7.07	5.95	7.51	4.58
CNG								
Canada	1.31	1.01	1.19	2.69	2.14	12.03	10.87	2.95
Total CNG Imports	1.31	1.01	1.19	2.69	2.14	12.03	10.87	2.95
Total Imports	2.16	1.87	1.73	2.20	2.45	3.02	4.41	2.60
Net Imports - Volume	-58,986	-33,526	-44,947	-36,677	-20,705	-38,235	-342	-125,466

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2017-2019

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

	December	November	October	September	August	July	June	2017 May
Imports								
Volume (million cubic feet)								
Pipeline								
Canada ^a	266,192	237,197	241,425	226,738	239,935	245,212	234,061	238,753
Mexico	504	76	81	68	63	80	78	78
Total Pipeline Imports	266,696	237,273	241,506	226,806	239,997	245,292	234,140	238,831
LNG								
By Truck								
Canada	8	165	120	183	226	215	212	220
By Vessel								
France	0	0	0	0	0	0	0	0
Nigeria	3,239	0	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0	0
Trinidad/Tobago	7,617	6,213	2,337	2,467	7,636	4,974	5,425	5,275
United Kingdom	0	0	0	0	0	0	0	0
Total LNG Imports	10,864	6,378	2,457	2,650	7,862	5,189	5,637	5,494
CNG								
Canada	31	30	22	25	28	27	29	28
Total CNG Imports	31	30	22	25	28	27	29	28
Total Imports	277,590	243,681	243,985	229,482	247,888	250,508	239,805	244,353
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.94	2.40	1.98	2.05	2.24	2.31	2.51	2.59
Mexico	3.42	2.44	2.43	2.64	2.31	2.62	2.77	2.62
Total Pipeline Imports	2.94	2.40	1.98	2.05	2.24	2.31	2.51	2.59
LNG								
By Truck								
Canada	8.19	8.12	8.33	8.66	8.69	8.78	8.91	8.88
By Vessel								
France	--	--	--	--	--	--	--	--
Nigeria	7.11	--	--	--	--	--	--	--
Norway	--	--	--	--	--	--	--	--
Trinidad/Tobago	4.88	3.47	4.20	3.74	3.19	3.21	3.37	3.65
United Kingdom	--	--	--	--	--	--	--	--
Total LNG Imports	5.55	3.59	4.41	4.08	3.34	3.44	3.58	3.86
CNG								
Canada	4.31	1.17	1.06	0.82	0.97	1.19	1.64	1.86
Total CNG Imports	4.31	1.17	1.06	0.82	0.97	1.19	1.64	1.86
Total Imports	3.26	2.52	2.05	2.12	2.38	2.40	2.62	2.70
Net Imports - Volume	-21,834	-44,673	-37,374	-20,798	969	2,080	-13,517	-9,511

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2017-2019

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

	2017			
	April	March	February	January
Imports				
Volume (million cubic feet)				
Pipeline				
Canada ^a	232,998	275,573	246,020	278,584
Mexico	79	83	74	83
Total Pipeline Imports	233,077	275,656	246,094	278,666
LNG				
By Truck				
Canada	186	8	8	18
By Vessel				
France	0	0	0	0
Nigeria	0	0	0	2,753
Norway	0	0	0	0
Trinidad/Tobago	4,985	4,870	8,468	10,183
United Kingdom	0	0	0	0
Total LNG Imports	5,171	4,878	8,477	12,955
CNG				
Canada	31	34	26	35
Total CNG Imports	31	34	26	35
Total Imports	238,279	280,567	254,597	291,656
Average Price (dollars per thousand cubic feet)				
Pipeline				
Canada	2.53	2.57	2.81	3.41
Mexico	2.64	2.27	2.94	3.29
Total Pipeline Imports	2.53	2.57	2.81	3.41
LNG				
By Truck				
Canada	8.49	7.05	7.22	9.12
By Vessel				
France	--	--	--	--
Nigeria	--	--	--	5.82
Norway	--	--	--	--
Trinidad/Tobago	3.56	4.34	6.39	5.48
United Kingdom	--	--	--	--
Total LNG Imports	3.74	4.35	6.39	5.56
CNG				
Canada	1.76	1.91	6.07	10.64
Total CNG Imports	1.76	1.91	6.07	10.64
Total Imports	2.64	2.68	3.14	3.75
Net Imports - Volume	-8,973	8,724	-349	19,789

^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.

-- Not applicable.

* Volume is between -500 Mcf and 500 Mcf.

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

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

Table 5. U.S. natural gas exports, 2017-2019

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

	2019	2018	2017	2019				
	7-Month YTD	7-Month YTD	7-Month YTD	July	June	May	April	March
Exports								
Volume (million cubic feet)								
Pipeline								
Canada	543,948	445,300	557,063	68,613	61,809	70,182	71,333	93,182
Mexico	1,048,853	951,011	879,882	165,584	155,741	152,834	139,173	149,518
Total Pipeline Exports	1,592,801	1,396,310	1,436,946	234,197	217,550	223,016	210,506	242,699
LNG								
Exports								
By Vessel								
Argentina	38,323	16,881	16,276	13,066	12,150	8,737	4,369	0
Bahamas	100	76	0	11	25	14	14	11
Barbados	113	93	113	17	13	21	17	14
Belgium	3,390	0	0	0	0	0	0	3,390
Brazil	29,658	20,220	7,317	6,949	10,086	4,905	1,201	3,283
Chile	56,949	30,558	18,708	9,382	19,012	6,188	9,429	10,005
China	10,550	72,568	24,462	0	0	0	3,700	0
Colombia	5,869	4,234	0	0	0	0	0	2,935
Dominican Republic	4,049	2,843	2,934	0	1,108	0	0	0
Egypt	0	6,554	3,464	0	0	0	0	0
France	51,870	0	0	0	0	6,621	17,092	20,853
Greece	6,891	0	0	0	0	3,497	0	0
Haiti	6	0	0	2	3	0	2	0
India	48,849	37,437	10,435	3,485	3,215	13,942	6,742	7,446
Israel	0	3,270	0	0	0	0	0	0
Italy	40,235	0	3,120	9,963	3,072	6,560	0	6,684
Jamaica	6,048	0	0	837	0	2,890	0	2,320
Japan	88,242	57,722	28,986	21,242	14,582	7,149	10,311	7,143
Jordan	25,439	24,060	18,420	3,449	7,342	7,332	3,622	0
Kuwait	6,907	6,496	20,213	3,405	0	3,502	0	0
Lithuania	0	0	0	0	0	0	0	0
Malta	413	2,927	867	0	0	0	413	0
Mexico	99,842	126,499	102,093	24,209	16,955	20,244	10,406	7,038
Netherlands	44,282	3,253	3,042	3,386	3,310	10,734	13,010	10,452
Pakistan	10,304	12,956	3,166	3,656	0	0	0	3,282
Panama	9,743	3,518	0	0	3,282	0	0	3,191
Poland	20,571	0	3,440	3,694	0	0	3,414	3,701
Portugal	31,401	3,247	12,421	6,994	6,908	0	3,489	0
Singapore	24,602	0	0	3,570	3,435	3,397	320	6,631
South Korea	136,878	124,452	38,824	32,663	20,402	18,069	13,000	18,013
Spain	65,323	3,230	11,984	3,297	13,506	14,325	10,139	10,678
Taiwan	9,658	13,307	2,949	0	0	3,309	6,349	0
Thailand	3,401	0	3,113	0	0	3,401	0	0
Turkey	19,281	6,992	10,923	0	0	0	2,969	0
United Arab Emirates	13,734	0	13,408	3,487	3,459	0	6,787	0
United Kingdom	17,753	6,267	3,410	0	0	0	0	3,669
By Truck								
Canada	1	16	3	0	0	0	0	0
Mexico	579	270	349	101	92	75	87	73
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
Japan	221	0	0	0	0	0	221	0
Mexico	0	0	0	0	0	0	0	0
Total LNG Exports	931,473	589,946	364,442	156,865	141,956	144,913	127,102	130,814
CNG								
Canada	150	146	134	20	20	22	28	29
Total CNG Exports	150	146	134	20	20	22	28	29
Total Exports	2,524,424	1,986,402	1,801,521	391,082	359,526	367,950	337,636	373,543

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

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

	2019						2018	
	February	January	Total	December	November	October	September	August
Exports								
Volume (million cubic feet)								
Pipeline								
Canada	91,561	87,269	835,982	100,101	89,784	64,726	70,393	65,677
Mexico	135,473	150,529	1,688,095	140,540	140,323	152,025	149,966	154,231
Total Pipeline Exports	227,034	237,799	2,524,077	240,641	230,107	216,751	220,359	219,909
LNG								
Exports								
By Vessel								
Argentina	0	0	27,560	0	0	0	0	10,679
Bahamas	14	11	137	14	13	12	12	10
Barbados	14	17	174	20	20	14	14	13
Belgium	0	0	0	0	0	0	0	0
Brazil	3,234	0	35,645	0	0	0	0	15,425
Chile	2,933	0	41,186	3,276	3,676	0	3,675	0
China	3,464	3,387	90,473	3,598	3,451	7,269	0	3,588
Colombia	0	2,934	5,101	0	0	0	0	867
Dominican Republic	2,942	0	5,835	0	0	0	0	2,992
Egypt	0	0	6,554	0	0	0	0	0
France	0	7,303	18,291	3,453	9,991	4,846	0	0
Greece	3,394	0	3,722	3,722	0	0	0	0
Haiti	0	0	0	0	0	0	0	0
India	6,989	7,030	57,634	7,156	0	7,131	5,910	0
Israel	0	0	3,270	0	0	0	0	0
Italy	3,454	10,502	17,390	6,137	0	4,785	6,468	0
Jamaica	0	0	1,303	0	1,303	0	0	0
Japan	10,320	17,495	125,534	13,977	23,835	3,017	16,698	10,286
Jordan	3,695	0	38,794	0	7,390	3,666	0	3,677
Kuwait	0	0	9,981	0	0	0	0	3,485
Lithuania	0	0	0	0	0	0	0	0
Malta	0	0	2,927	0	0	0	0	0
Mexico	6,681	14,310	182,246	10,610	6,794	7,076	10,559	20,708
Netherlands	3,390	0	12,188	0	2,949	3,071	2,915	0
Pakistan	3,365	0	12,956	0	0	0	0	0
Panama	3,269	0	6,786	3,268	0	0	0	0
Poland	0	9,762	3,231	0	3,231	0	0	0
Portugal	3,720	10,289	12,512	3,298	0	0	3,670	2,296
Singapore	7,249	0	3,679	3,679	0	0	0	0
South Korea	17,750	16,981	252,223	33,567	17,635	34,923	24,179	17,467
Spain	6,748	6,631	10,310	0	3,529	3,551	0	0
Taiwan	0	0	16,731	3,423	0	0	0	0
Thailand	0	0	0	0	0	0	0	0
Turkey	6,483	9,829	23,205	9,976	2,956	3,281	0	0
United Arab Emirates	0	0	3,638	0	0	0	3,638	0
United Kingdom	3,711	10,373	51,297	13,499	20,695	7,213	3,624	0
By Truck								
Canada	1	0	19	1	0	0	2	0
Mexico	48	104	587	121	115	31	17	33
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
Japan	0	0	0	0	0	0	0	0
Mexico	0	0	0	0	0	0	0	0
Total LNG Exports	102,866	126,957	1,083,118	122,795	107,585	89,886	81,381	91,526
CNG								
Canada	15	16	223	22	24	9	6	15
Total CNG Exports	15	16	223	22	24	9	6	15
Total Exports	329,914	364,772	3,607,418	363,458	337,716	306,646	301,746	311,449

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

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

							2018	2017
	July	June	May	April	March	February	January	Total
Exports								
Volume (million cubic feet)								
Pipeline								
Canada	56,880	50,976	39,689	62,641	67,652	76,340	91,120	917,087
Mexico	150,856	137,454	137,600	130,586	132,249	125,628	136,638	1,543,056
Total Pipeline Exports	207,736	188,431	177,289	193,227	199,901	201,968	227,758	2,460,144
LNG								
Exports								
By Vessel								
Argentina	2,939	0	5,392	5,217	3,333	0	0	16,276
Bahamas	11	14	11	8	16	12	4	2
Barbados	10	10	13	8	13	20	20	200
Belgium	0	0	0	0	0	0	0	0
Brazil	12,540	0	1,153	3,255	3,272	0	0	17,648
Chile	6,525	5,865	0	4,987	6,994	3,249	2,938	25,746
China	10,644	2,926	10,416	17,509	10,739	6,750	13,584	103,410
Colombia	1,521	1,113	0	1,599	0	0	0	0
Dominican Republic	0	0	1,023	0	1,821	0	0	8,691
Egypt	0	0	0	0	0	0	6,554	6,781
France	0	0	0	0	0	0	0	0
Greece	0	0	0	0	0	0	0	0
Haiti	0	0	0	0	0	0	0	0
India	5,918	6,717	7,118	3,254	10,834	0	3,596	20,919
Israel	0	0	3,270	0	0	0	0	0
Italy	0	0	0	0	0	0	0	6,493
Jamaica	0	0	0	0	0	0	0	0
Japan	13,438	9,820	12,782	10,967	0	7,099	3,615	53,218
Jordan	0	3,201	10,572	3,293	3,694	3,300	0	36,321
Kuwait	0	0	6,496	0	0	0	0	20,213
Lithuania	0	0	0	0	0	0	0	6,844
Malta	2,927	0	0	0	0	0	0	867
Mexico	21,237	26,591	13,512	11,074	28,877	14,777	10,431	140,321
Netherlands	0	0	0	3,253	0	0	0	3,042
Pakistan	0	0	3,222	3,258	3,108	0	3,368	3,166
Panama	0	0	2,077	0	1,442	0	0	0
Poland	0	0	0	0	0	0	0	3,440
Portugal	0	0	0	0	0	0	3,247	19,523
Singapore	0	0	0	0	0	0	0	0
South Korea	14,040	13,994	17,735	17,996	11,079	28,322	21,286	130,185
Spain	3,230	0	0	0	0	0	0	29,329
Taiwan	3,234	3,268	0	0	0	6,806	0	9,004
Thailand	0	0	0	0	0	0	0	3,113
Turkey	0	0	0	0	0	3,279	3,714	24,855
United Arab Emirates	0	0	0	0	0	0	0	13,408
United Kingdom	0	0	0	0	6,267	0	0	3,410
By Truck								
Canada	0	0	0	1	0	15	0	5
Mexico	26	17	6	4	56	56	105	691
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
Japan	0	0	0	0	0	0	0	0
Mexico	0	0	0	0	0	0	0	422
Total LNG Exports	98,240	73,535	94,797	85,684	91,542	73,684	72,463	707,542
CNG								
Canada	22	29	30	29	24	0	13	171
Total CNG Exports	22	29	30	29	24	0	13	171
Total Exports	305,997	261,995	272,116	278,941	291,468	275,652	300,234	3,167,857

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

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

								2017
	December	November	October	September	August	July	June	May
Exports								
Volume (million cubic feet)								
Pipeline								
Canada	81,050	74,427	68,382	69,823	66,342	59,760	66,725	63,949
Mexico	135,756	133,807	132,778	125,724	135,108	135,068	134,118	129,110
Total Pipeline Exports	216,807	208,234	201,160	195,548	201,450	194,828	200,844	193,058
LNG								
Exports								
By Vessel								
Argentina	0	0	0	0	0	0	2,949	3,192
Bahamas	2	0	0	0	0	0	0	0
Barbados	19	20	17	14	16	10	16	15
Belgium	0	0	0	0	0	0	0	0
Brazil	0	0	6,967	3,364	0	3,642	0	3,676
Chile	3,362	0	3,675	0	0	3,256	3,657	0
China	23,433	20,871	24,588	10,056	0	7,218	0	3,514
Colombia	0	0	0	0	0	0	0	0
Dominican Republic	0	2,835	0	2,922	0	0	0	0
Egypt	0	0	0	0	3,317	3,464	0	0
France	0	0	0	0	0	0	0	0
Greece	0	0	0	0	0	0	0	0
Haiti	0	0	0	0	0	0	0	0
India	3,427	7,057	0	0	0	0	3,413	0
Israel	0	0	0	0	0	0	0	0
Italy	0	0	0	0	3,372	0	3,120	0
Jamaica	0	0	0	0	0	0	0	0
Japan	13,893	0	6,725	0	3,614	0	3,683	3,667
Jordan	7,135	0	3,373	0	7,393	0	0	3,453
Kuwait	0	0	0	0	0	3,410	0	3,281
Lithuania	0	0	0	3,414	3,431	0	0	0
Malta	0	0	0	0	0	0	0	0
Mexico	3,635	10,760	6,686	10,286	6,860	14,432	24,763	10,023
Netherlands	0	0	0	0	0	0	0	3,042
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	3,440
Portugal	0	3,702	0	0	3,399	3,662	0	3,625
Singapore	0	0	0	0	0	0	0	0
South Korea	20,810	21,141	21,577	17,514	10,320	14,238	7,431	6,818
Spain	3,370	3,617	2,980	3,666	3,712	217	0	0
Taiwan	0	2,934	3,121	0	0	0	0	2,949
Thailand	0	0	0	0	0	0	0	0
Turkey	3,413	7,076	0	3,443	0	0	0	0
United Arab Emirates	0	0	0	0	0	0	0	10,062
United Kingdom	0	0	0	0	0	0	3,410	0
By Truck								
Canada	0	2	0	0	0	0	0	0
Mexico	105	86	65	53	33	44	19	26
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
Japan	0	0	0	0	0	0	0	0
Mexico	0	0	422	0	0	0	0	0
Total LNG Exports	82,604	80,100	80,195	54,733	45,468	53,592	52,462	60,782
CNG								
Canada	13	20	4	0	1	8	16	23
Total CNG Exports	13	20	4	0	1	8	16	23
Total Exports	299,424	288,354	281,359	250,280	246,919	248,428	253,322	253,864

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

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

	2017			
	April	March	February	January
Exports				
Volume (million cubic feet)				
Pipeline				
Canada	80,532	99,489	87,798	98,811
Mexico	116,027	128,774	115,089	121,696
Total Pipeline Exports	196,559	228,263	202,887	220,508
LNG				
Exports				
By Vessel				
Argentina	10,135	0	0	0
Bahamas	0	0	0	0
Barbados	15	20	15	22
Belgium	0	0	0	0
Brazil	0	0	0	0
Chile	5,894	2,951	2,950	0
China	0	0	10,338	3,391
Colombia	0	0	0	0
Dominican Republic	0	2,934	0	0
Egypt	0	0	0	0
France	0	0	0	0
Greece	0	0	0	0
Haiti	0	0	0	0
India	0	0	3,399	3,623
Israel	0	0	0	0
Italy	0	0	0	0
Jamaica	0	0	0	0
Japan	7,398	0	3,705	10,533
Jordan	0	6,655	2,945	5,368
Kuwait	6,784	3,360	3,378	0
Lithuania	0	0	0	0
Malta	0	0	0	867
Mexico	13,730	10,728	14,407	14,010
Netherlands	0	0	0	0
Pakistan	0	3,166	0	0
Panama	0	0	0	0
Poland	0	0	0	0
Portugal	0	0	1,692	3,442
Singapore	0	0	0	0
South Korea	3,295	7,042	0	0
Spain	0	0	1,766	10,002
Taiwan	0	0	0	0
Thailand	0	3,113	0	0
Turkey	0	3,521	7,402	0
United Arab Emirates	3,347	0	0	0
United Kingdom	0	0	0	0
By Truck				
Canada	0	3	0	0
Mexico	70	61	44	85
Re-Exports				
By Vessel				
Argentina	0	0	0	0
Brazil	0	0	0	0
India	0	0	0	0
Japan	0	0	0	0
Mexico	0	0	0	0
Total LNG Exports	50,669	43,553	52,042	51,342
CNG				
Canada	24	27	18	19
Total CNG Exports	24	27	18	19
Total Exports	247,251	271,843	254,946	271,868

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

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

	2019 7-Month YTD	2018 7-Month YTD	2017 7-Month YTD	2019				
				July	June	May	April	March
Exports								
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	3.04	3.11	3.22	2.31	2.39	2.55	2.72	3.49
Mexico	2.73	3.17	3.23	2.23	2.23	3.12	2.37	2.77
Total Pipeline Exports	2.83	3.15	3.23	2.25	2.28	2.94	2.49	3.04
LNG								
Exports								
By Vessel								
Argentina	5.19	5.63	4.64	5.24	5.13	5.02	5.51	--
Bahamas	10.39	10.39	--	10.39	10.39	10.39	10.39	10.39
Barbados	10.39	10.39	10.40	10.39	10.39	10.39	10.39	10.39
Belgium	6.72	--	--	--	--	--	--	6.72
Brazil	4.87	6.25	4.43	4.57	4.32	5.79	6.62	3.41
Chile	4.21	4.38	6.12	4.64	4.77	3.07	4.21	3.41
China	5.35	4.37	4.48	--	--	--	3.76	--
Colombia	3.88	4.52	--	--	--	--	--	3.41
Dominican Republic	4.27	4.46	5.59	--	6.27	--	--	--
Egypt	--	3.27	6.26	--	--	--	--	--
France	4.86	--	--	--	--	6.23	4.26	5.24
Greece	5.38	--	--	--	--	3.97	--	--
Haiti	10.39	--	--	10.39	10.39	--	10.39	--
India	4.73	4.71	4.48	6.09	5.23	4.11	3.48	3.67
Israel	--	6.48	--	--	--	--	--	--
Italy	5.12	--	4.38	5.37	3.15	4.40	--	5.20
Jamaica	4.67	--	--	5.05	--	3.07	--	6.52
Japan	6.90	6.31	6.86	6.82	4.30	7.94	7.39	8.00
Jordan	3.63	4.38	4.82	6.38	3.15	3.07	3.24	--
Kuwait	4.76	6.76	4.38	5.60	--	3.94	--	--
Lithuania	--	--	--	--	--	--	--	--
Malta	3.76	6.70	4.70	--	--	--	3.76	--
Mexico	4.60	4.50	5.13	5.03	5.23	3.74	4.67	3.41
Netherlands	4.53	6.33	6.35	3.20	3.15	4.38	4.91	5.30
Pakistan	5.53	5.60	3.14	6.39	--	--	--	6.64
Panama	7.69	5.30	--	--	8.12	--	--	8.12
Poland	5.80	--	4.26	3.17	--	--	7.78	3.41
Portugal	5.18	3.27	6.70	5.75	4.24	--	3.66	--
Singapore	5.02	--	--	5.60	7.75	3.07	6.36	5.86
South Korea	4.09	4.39	4.18	4.81	3.54	3.12	4.74	3.41
Spain	5.28	6.70	6.41	4.81	4.87	5.19	4.80	4.88
Taiwan	4.28	6.25	4.43	--	--	4.37	4.23	--
Thailand	6.42	--	3.14	--	--	6.42	--	--
Turkey	5.53	3.77	6.16	--	--	--	3.76	--
United Arab Emirates	3.86	--	3.87	5.60	3.32	--	3.24	--
United Kingdom	4.96	5.89	3.87	--	--	--	--	5.15
By Truck								
Canada	8.93	13.40	8.39	--	--	--	--	--
Mexico	9.11	7.87	9.18	8.67	8.77	8.85	8.92	9.92
Re-Exports								
By Vessel								
Argentina	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--	--
Japan	4.44	--	--	--	--	--	4.44	--
Mexico	--	--	--	--	--	--	--	--
Total LNG Exports	4.95	4.86	5.10	5.29	4.57	4.39	4.70	4.84
CNG								
Canada	4.43	4.01	5.20	2.21	2.43	2.49	3.28	5.11
Total CNG Exports	4.43	4.01	5.20	2.21	2.43	2.49	3.28	5.11
Total Exports	3.62	3.66	3.61	3.47	3.18	3.51	3.32	3.68

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

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

	2019		Total	December	November	October	September	2018
	February	January						August
Exports								
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	3.38	3.89	3.41	4.60	4.36	3.24	2.92	2.95
Mexico	3.03	3.42	3.30	4.24	3.64	3.29	3.00	3.21
Total Pipeline Exports	3.17	3.60	3.33	4.39	3.92	3.28	2.98	3.13
LNG								
Exports								
By Vessel								
Argentina	--	--	6.01	--	--	--	--	6.61
Bahamas	10.39	10.39	10.39	10.39	10.39	10.39	10.39	10.39
Barbados	10.39	10.39	10.39	10.39	10.39	10.39	10.39	10.39
Belgium	--	--	--	--	--	--	--	--
Brazil	6.64	--	6.05	--	--	--	--	5.79
Chile	4.35	--	4.33	5.63	3.61	--	3.46	--
China	4.97	7.47	4.41	5.63	6.92	3.61	--	3.38
Colombia	--	4.35	4.86	--	--	--	--	6.49
Dominican Republic	3.52	--	3.91	--	--	--	--	3.38
Egypt	--	--	3.27	--	--	--	--	--
France	--	3.94	7.03	7.47	7.02	6.72	--	--
Greece	6.84	--	7.62	7.62	--	--	--	--
Haiti	--	--	--	--	--	--	--	--
India	5.53	6.60	5.02	6.64	--	5.23	4.76	--
Israel	--	--	6.48	--	--	--	--	--
Italy	4.72	6.00	6.46	7.79	--	6.72	4.99	--
Jamaica	--	--	6.92	--	6.92	--	--	--
Japan	7.98	7.37	6.86	8.42	6.34	7.91	7.13	8.25
Jordan	3.52	--	4.10	--	3.80	3.61	--	3.38
Kuwait	--	--	6.67	--	--	--	--	6.49
Lithuania	--	--	--	--	--	--	--	--
Malta	--	--	6.70	--	--	--	--	--
Mexico	5.06	4.63	4.70	5.04	6.92	5.22	4.40	5.04
Netherlands	3.81	--	6.61	--	6.83	6.72	6.58	--
Pakistan	3.52	--	5.60	--	--	--	--	--
Panama	6.84	--	5.46	5.63	--	--	--	--
Poland	--	7.00	7.12	--	7.12	--	--	--
Portugal	3.97	6.39	5.45	8.79	--	--	3.46	6.94
Singapore	3.52	--	5.63	5.63	--	--	--	--
South Korea	4.12	4.63	4.56	6.75	3.80	4.52	3.86	3.38
Spain	5.05	8.11	4.59	--	3.80	3.46	--	--
Taiwan	--	--	6.51	7.49	--	--	--	--
Thailand	--	--	--	--	--	--	--	--
Turkey	6.64	5.33	5.38	6.64	6.92	3.61	--	--
United Arab Emirates	--	--	3.46	--	--	--	3.46	--
United Kingdom	3.52	5.40	5.77	6.87	5.65	5.13	3.46	--
By Truck								
Canada	8.93	--	12.71	10.29	--	--	8.23	--
Mexico	9.17	9.58	8.52	9.30	9.31	7.30	7.62	9.81
Re-Exports								
By Vessel								
Argentina	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--	--
Japan	--	--	--	--	--	--	--	--
Mexico	--	--	--	--	--	--	--	--
Total LNG Exports	5.06	5.89	5.20	6.84	5.62	4.92	4.78	5.33
CNG								
Canada	7.70	10.05	4.69	11.62	4.40	3.50	2.98	2.89
Total CNG Exports	7.70	10.05	4.69	11.62	4.40	3.50	2.98	2.89
Total Exports	3.76	4.39	3.89	5.22	4.46	3.76	3.47	3.78

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

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

	July	June	May	April	March	February	2018 January	2017 Total
Exports								
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.83	2.75	2.63	2.90	2.63	3.16	4.17	3.12
Mexico	3.03	3.04	3.09	3.01	3.00	3.41	3.64	3.26
Total Pipeline Exports	2.98	2.96	2.99	2.98	2.87	3.31	3.85	3.20
LNG								
Exports								
By Vessel								
Argentina	6.91	--	4.59	5.56	6.28	--	--	4.64
Bahamas	10.39	10.39	10.39	10.39	10.39	10.39	10.39	10.40
Barbados	10.39	10.39	10.39	10.39	10.39	10.39	10.39	10.40
Belgium	--	--	--	--	--	--	--	--
Brazil	5.90	--	6.48	6.33	7.46	--	--	4.15
Chile	6.77	3.44	--	4.76	3.15	4.34	3.27	5.43
China	3.53	6.56	4.31	3.67	4.20	5.93	4.84	4.32
Colombia	6.70	3.44	--	3.21	--	--	--	--
Dominican Republic	--	--	6.80	--	3.15	--	--	4.15
Egypt	--	--	--	--	--	--	3.27	4.93
France	--	--	--	--	--	--	--	--
Greece	--	--	--	--	--	--	--	--
Haiti	--	--	--	--	--	--	--	--
India	6.83	3.44	3.37	6.33	5.22	--	3.27	4.84
Israel	--	--	6.48	--	--	--	--	--
Italy	--	--	--	--	--	--	--	3.95
Jamaica	--	--	--	--	--	--	--	--
Japan	6.86	6.34	7.11	4.95	--	7.46	3.27	6.13
Jordan	--	6.85	3.37	6.63	3.15	4.34	--	4.40
Kuwait	--	--	6.76	--	--	--	--	4.38
Lithuania	--	--	--	--	--	--	--	3.84
Malta	6.70	--	--	--	--	--	--	4.70
Mexico	4.06	4.58	5.47	3.98	4.32	4.85	4.43	4.93
Netherlands	--	--	--	6.33	--	--	--	6.35
Pakistan	--	--	6.63	6.33	6.28	--	3.27	3.14
Panama	--	--	6.80	--	3.15	--	--	--
Poland	--	--	--	--	--	--	--	4.26
Portugal	--	--	--	--	--	--	3.27	5.65
Singapore	--	--	--	--	--	--	--	--
South Korea	3.58	3.44	3.84	3.66	3.15	5.85	5.31	4.18
Spain	6.70	--	--	--	--	--	--	4.94
Taiwan	6.70	6.56	--	--	--	5.89	--	4.77
Thailand	--	--	--	--	--	--	--	3.14
Turkey	--	--	--	--	--	4.34	3.27	4.84
United Arab Emirates	--	--	--	--	--	--	--	3.87
United Kingdom	--	--	--	--	5.89	--	--	3.87
By Truck								
Canada	--	--	--	7.79	--	13.63	19.21	8.05
Mexico	8.80	7.04	7.18	6.40	8.03	8.43	7.49	8.74
Re-Exports								
By Vessel								
Argentina	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--	--
Japan	--	--	--	--	--	--	--	--
Mexico	--	--	--	--	--	--	--	5.00
Total LNG Exports	5.28	4.65	5.03	4.56	4.45	5.62	4.34	4.69
CNG								
Canada	2.88	2.63	2.75	4.29	3.48	--	12.47	4.76
Total CNG Exports	2.88	2.63	2.75	4.29	3.48	--	12.47	4.76
Total Exports	3.72	3.43	3.70	3.46	3.37	3.93	3.97	3.54

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

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

								2017
	December	November	October	September	August	July	June	May
Exports								
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	3.19	2.99	2.78	2.88	2.84	2.90	3.02	3.16
Mexico	3.34	3.29	3.28	3.29	3.27	3.22	3.13	3.20
Total Pipeline Exports	3.28	3.18	3.11	3.14	3.13	3.12	3.10	3.19
LNG								
Exports								
By Vessel								
Argentina	--	--	--	--	--	--	3.87	4.77
Bahamas	10.40	--	--	--	--	--	--	--
Barbados	10.40	10.40	10.40	10.40	10.40	10.40	10.40	10.40
Belgium	--	--	--	--	--	--	--	--
Brazil	--	--	4.14	3.55	--	4.23	--	4.63
Chile	3.68	--	3.56	--	--	3.67	6.46	--
China	4.87	4.60	3.56	3.99	--	3.67	--	4.62
Colombia	--	--	--	--	--	--	--	--
Dominican Republic	--	3.30	--	3.55	--	--	--	--
Egypt	--	--	--	--	3.55	6.26	--	--
France	--	--	--	--	--	--	--	--
Greece	--	--	--	--	--	--	--	--
Haiti	--	--	--	--	--	--	--	--
India	6.80	4.41	--	--	--	--	4.67	--
Israel	--	--	--	--	--	--	--	--
Italy	--	--	--	--	3.55	--	4.38	--
Jamaica	--	--	--	--	--	--	--	--
Japan	5.87	--	3.56	--	6.14	--	6.99	6.88
Jordan	3.68	--	5.45	--	3.55	--	--	3.76
Kuwait	--	--	--	--	--	4.51	--	4.77
Lithuania	--	--	--	3.55	4.13	--	--	--
Malta	--	--	--	--	--	--	--	--
Mexico	3.68	4.85	5.54	3.98	3.55	4.17	4.40	4.67
Netherlands	--	--	--	--	--	--	--	6.35
Pakistan	--	--	--	--	--	--	--	--
Panama	--	--	--	--	--	--	--	--
Poland	--	--	--	--	--	--	--	4.26
Portugal	--	3.29	--	--	4.38	6.26	--	6.35
Singapore	--	--	--	--	--	--	--	--
South Korea	4.20	4.60	4.15	4.05	3.59	3.67	3.87	4.88
Spain	5.73	3.29	3.56	3.55	3.55	6.26	--	--
Taiwan	--	6.41	3.56	--	--	--	--	4.43
Thailand	--	--	--	--	--	--	--	--
Turkey	3.68	3.98	--	3.55	--	--	--	--
United Arab Emirates	--	--	--	--	--	--	--	3.89
United Kingdom	--	--	--	--	--	--	3.87	--
By Truck								
Canada	--	7.35	--	--	--	--	--	--
Mexico	8.11	7.94	8.43	8.67	8.94	8.79	9.04	8.90
Re-Exports								
By Vessel								
Argentina	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--	--
Japan	--	--	--	--	--	--	--	--
Mexico	--	--	5.00	--	--	--	--	--
Total LNG Exports	4.74	4.47	4.02	3.88	3.88	4.26	4.61	4.80
CNG								
Canada	6.53	1.38	1.00	--	2.50	2.72	3.14	3.39
Total CNG Exports	6.53	1.38	1.00	--	2.50	2.72	3.14	3.39
Total Exports	3.68	3.54	3.37	3.30	3.27	3.37	3.41	3.57

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

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

	2017			
	April	March	February	January
Exports				
Average Price (dollars per thousand cubic feet)				
Pipeline				
Canada	3.19	3.01	3.22	3.85
Mexico	3.27	2.93	3.24	3.66
Total Pipeline Exports	3.24	2.97	3.23	3.74
LNG				
Exports				
By Vessel				
Argentina	4.82	--	--	--
Bahamas	--	--	--	--
Barbados	10.40	10.40	10.40	10.40
Belgium	--	--	--	--
Brazil	--	--	--	--
Chile	6.65	6.26	7.18	--
China	--	--	4.92	4.70
Colombia	--	--	--	--
Dominican Republic	--	5.59	--	--
Egypt	--	--	--	--
France	--	--	--	--
Greece	--	--	--	--
Haiti	--	--	--	--
India	--	--	4.06	4.70
Israel	--	--	--	--
Italy	--	--	--	--
Jamaica	--	--	--	--
Japan	6.92	--	7.18	6.65
Jordan	--	4.42	4.06	6.41
Kuwait	4.19	3.14	5.50	--
Lithuania	--	--	--	--
Malta	--	--	--	4.70
Mexico	4.31	5.25	6.40	7.15
Netherlands	--	--	--	--
Pakistan	--	3.14	--	--
Panama	--	--	--	--
Poland	--	--	--	--
Portugal	--	--	7.18	7.29
Singapore	--	--	--	--
South Korea	6.39	3.81	--	--
Spain	--	--	7.18	6.28
Taiwan	--	--	--	--
Thailand	--	3.14	--	--
Turkey	--	4.60	6.91	--
United Arab Emirates	3.80	--	--	--
United Kingdom	--	--	--	--
By Truck				
Canada	--	8.39	--	--
Mexico	8.95	8.64	9.97	9.66
Re-Exports				
By Vessel				
Argentina	--	--	--	--
Brazil	--	--	--	--
India	--	--	--	--
Japan	--	--	--	--
Mexico	--	--	--	--
Total LNG Exports	5.16	4.47	5.99	6.44
CNG				
Canada	3.35	3.32	7.73	12.97
Total CNG Exports	3.35	3.32	7.73	12.97
Total Exports	3.63	3.21	3.79	4.25

^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, 2014-2019
(million cubic feet)

Year and Month	Alaska	Arkansas	California	Colorado	Kansas	Louisiana	Montana	New Mexico	North Dakota	Ohio
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 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	€16,922	€151,809	€17,513	€248,001	€4,015	€132,395	€73,923	€200,544
August	242,885	€49,920	€16,882	€155,356	€17,161	€251,004	€4,015	€135,952	€74,976	€203,149
September	255,600	€48,006	€16,402	€153,057	€16,777	€239,267	€3,890	€131,007	€75,241	€208,660
October	271,064	€49,565	€16,916	€160,033	€17,018	€254,300	€3,918	€138,279	€78,982	€221,811
November	290,820	€47,594	€16,433	€157,889	€16,530	€247,422	€3,879	€134,160	€75,325	€219,442
December	304,668	€48,583	€16,861	€166,454	€16,248	€249,848	€3,963	€141,505	€80,944	€224,196
Total	3,254,747	€594,714	€199,189	€1,830,508	€203,001	€2,829,741	€46,274	€1,524,424	€856,292	€2,385,112
2019										
January	310,279	€47,824	€16,550	€165,670	€16,282	€255,622	€4,068	€143,500	€83,171	€213,010
February	267,512	€42,493	€15,304	€149,053	€14,518	€237,649	€3,451	€135,371	€72,628	€191,241
March	285,417	€46,829	€16,711	€164,528	€16,023	€260,547	€3,887	€151,985	€86,841	€209,214
April	289,530	€44,950	€16,307	€162,357	€15,803	€246,063	€4,059	€147,958	€84,331	€202,886
May	285,820	RE45,316	RE16,498	RE166,372	RE15,398	RE249,475	RE4,229	RE154,032	RE87,280	RE208,535
June	253,800	RE43,126	RE16,070	RE162,790	RE15,853	RE256,206	RE4,280	RE149,545	RE86,280	RE209,345
July	234,763	€44,284	€16,635	€166,139	€16,440	€261,757	€4,314	€155,866	€91,476	€225,537
2019 7-Month YTD	1,927,121	€314,824	€114,075	€1,136,909	€110,317	€1,767,320	€28,287	€1,038,257	€592,007	€1,459,767
2018 7-Month YTD	1,889,710	€351,047	€115,697	€1,037,719	€119,268	€1,587,900	€26,609	€843,521	€470,824	€1,307,854
2017 7-Month YTD	1,912,826	420,330	122,306	963,123	129,051	1,136,478	28,774	755,646	377,852	944,421

See footnotes at end of table.

Table 6. Gross withdrawals of natural gas in selected states and the Federal Gulf of Mexico, 2014-2019

(million cubic feet) – continued

Year and Month	Oklahoma	Pennsylvania	Texas	Utah	West Virginia	Wyoming	Other States	Federal Gulf of Mexico	U.S. Total
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 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	24,992	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	£252,810	£525,512	£759,558	£25,144	£143,239	£142,181	£42,429	£88,346	£3,108,098
August	£259,041	£534,949	£775,144	£25,149	£154,543	£142,891	£43,750	£93,447	£3,180,213
September	£253,105	£531,259	£755,750	£24,362	£152,942	£142,420	£41,651	£85,391	£3,134,786
October	£261,852	£555,294	£782,625	£24,739	£163,908	£145,903	£43,529	£82,288	£3,272,022
November	£254,204	£546,469	£766,133	£23,928	£163,643	£139,623	£41,865	£88,071	£3,233,430
December	£266,174	£563,522	£802,801	£24,160	£169,358	£141,900	£42,804	£88,797	£3,352,785
Total	£2,946,117	£6,206,874	£8,813,974	£297,446	£1,799,097	£1,720,897	£509,326	£991,125	£37,008,858
2019									
January	£262,662	£577,495	£806,273	£23,796	£167,795	£130,338	£41,594	£90,502	£3,356,433
February	£240,995	£522,864	£745,847	£21,460	£153,614	£122,593	£37,916	£75,336	£3,049,845
March	£265,283	£583,492	£835,981	£23,777	£174,141	£130,346	£40,610	£90,612	£3,386,222
April	£262,767	£567,962	£812,680	£23,198	£170,556	£128,707	£39,740	£86,472	£3,306,326
May	RE269,586	RE583,846	RE845,135	RE23,745	£174,842	RE133,657	£40,615	RE86,967	RE3,391,349
June	RE258,727	RE562,029	RE823,800	RE23,029	RE174,222	RE129,627	£39,488	RE81,336	RE3,289,554
July	£269,149	£591,882	£866,724	£22,947	£182,586	£119,540	£39,866	£66,371	£3,376,276
2019 7-Month YTD	£1,829,170	£3,989,570	£5,736,439	£161,952	£1,197,757	£894,809	£279,829	£577,596	£23,156,005
2018 7-Month YTD	£1,651,740	£3,475,381	£4,931,522	£175,108	£994,704	£1,008,160	£295,728	£553,130	£20,835,621
2017 7-Month YTD	1,409,028	3,143,049	4,582,459	187,268	882,869	1,033,884	314,137	668,753	19,012,256

^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 report. The "Other States" category comprises states/areas not individually collected on the EIA-914 report (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 report 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: 2014-2017: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2017*, Bureau of Safety and Environmental Enforcement (BSEE), PointLogic Energy, Enverus Drillinginfo, 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, 2014-2019
(million cubic feet)

Year and Month	Alaska	Arkansas	California	Colorado	Kansas	Louisiana	Montana	New Mexico	North Dakota	Ohio
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 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	€16,922	€151,430	€17,513	€247,009	€3,759	€129,204	€63,773	€200,544
August	26,127	€49,920	€16,882	€154,968	€17,161	€250,000	€3,759	€132,675	€64,682	€203,149
September	27,050	€48,006	€16,402	€152,675	€16,777	€238,310	€3,643	€127,850	€64,910	€208,660
October	28,262	€49,565	€16,916	€159,633	€17,018	€253,283	€3,669	€134,946	€68,138	€221,811
November	29,407	€47,594	€16,433	€157,494	€16,530	€246,432	€3,633	€130,927	€64,983	€219,442
December	30,927	€48,583	€16,861	€166,038	€16,248	€248,849	€3,711	€138,095	€69,830	€224,196
Total	341,381	€594,714	€199,189	€1,825,932	€203,001	€2,818,422	€43,331	€1,487,685	€738,723	€2,385,112
2019										
January	30,503	€47,824	€16,550	€165,255	€16,282	€254,600	€3,809	€140,041	€71,752	€213,010
February	26,728	€42,493	€15,304	€148,681	€14,518	€236,698	€3,231	€132,109	€62,656	€191,241
March	29,346	€46,829	€16,711	€164,117	€16,023	€259,505	€3,639	€148,323	€74,918	€209,214
April	28,816	€44,950	€16,307	€161,951	€15,803	€245,079	€3,801	€144,392	€72,752	€202,886
May	29,031	RE45,316	RE16,498	RE165,956	RE15,398	RE248,477	RE3,960	RE150,320	RE75,296	RE208,535
June	26,889	RE43,126	RE16,070	RE162,383	RE15,853	RE255,182	RE4,008	RE145,941	RE74,433	RE209,345
July	25,458	€44,284	€16,635	€165,724	€16,440	€260,710	€4,040	€152,110	€78,916	€225,537
2019 7-Month YTD	196,771	€314,824	€114,075	€1,134,066	€110,317	€1,760,250	€26,488	€1,013,235	€510,724	€1,459,767
2018 7-Month YTD	199,609	€351,047	€115,697	€1,035,125	€119,268	€1,581,548	€24,916	€823,192	€406,180	€1,307,854
2017 7-Month YTD	202,817	420,330	122,306	961,005	129,051	1,131,503	26,908	736,041	331,413	944,421

See footnotes at end of table.

Table 7. Marketed production of natural gas in selected states and the Federal Gulf of Mexico, 2014-2019

(million cubic feet) – continued

Year and Month	Oklahoma	Pennsylvania	Texas	Utah	West Virginia	Wyoming	Other States	Federal Gulf of Mexico	U.S. Total
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 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	24,992	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	€252,810	€525,512	€677,830	€25,144	€143,239	€124,906	€41,309	€86,889	€2,783,615
August	€259,041	€534,949	€691,738	€25,149	€154,543	€125,530	€42,595	€91,905	€2,844,773
September	€253,105	€531,259	€674,431	€24,362	€152,942	€125,116	€40,551	€83,982	€2,790,030
October	€261,852	€555,294	€698,415	€24,739	€163,908	€128,176	€42,379	€80,930	€2,908,932
November	€254,204	€546,469	€683,697	€23,928	€163,643	€122,659	€40,760	€86,618	€2,854,852
December	€266,174	€563,522	€716,419	€24,160	€169,358	€124,659	€41,674	€87,332	€2,956,635
Total	€2,946,117	€6,206,874	€7,865,591	€297,446	€1,799,097	€1,511,808	€495,880	€974,772	€32,735,074
2019									
January	€262,662	€577,495	€719,518	€23,796	€167,795	€114,502	€40,496	€89,009	€2,954,901
February	€240,995	€522,864	€665,594	€21,460	€153,614	€107,698	€36,915	€74,093	€2,696,892
March	€265,283	€583,492	€746,029	€23,777	€174,141	€114,509	€39,538	€89,117	€3,004,509
April	€262,767	€567,962	€725,235	€23,198	€170,556	€113,069	€38,691	€85,045	€2,923,261
May	RE269,586	RE583,846	RE754,198	RE23,745	€174,842	RE117,417	€39,543	RE85,532	RE3,007,498
June	RE258,727	RE562,029	RE735,159	RE23,029	RE174,222	RE113,877	€38,446	RE79,994	RE2,938,714
July	€269,149	€591,882	€773,465	€22,947	€182,586	€105,016	€38,813	€65,276	€3,038,987
2019 7-Month YTD	€1,829,170	€3,989,570	€5,119,198	€161,952	€1,197,757	€786,089	€272,442	€568,066	€20,564,762
2018 7-Month YTD	€1,651,740	€3,475,381	€4,400,890	€175,108	€994,704	€885,669	€287,920	€544,004	€18,379,851
2017 7-Month YTD	1,409,028	3,143,049	4,072,598	187,268	882,869	900,064	305,912	658,129	16,564,713

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 report. The "Other States" category comprises states/areas not individually collected on the EIA-914 report (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 report 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: 2014-2017: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2017*, Bureau of Safety and Environmental Enforcement (BSEE), PointLogic Energy, Enverus DrillingInfo, 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, 2014-2019

(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
2014 Total^c	--	--	--	--	--	3,839	3,586	-253
2015 Total^c	--	--	--	--	--	3,638	3,100	-539
2016 Total^c	--	--	--	--	--	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	-482	-18.4	141	1,037	896
February	4,357	1,673	6,030	-665	-28.4	133	599	467
March	4,353	1,390	5,743	-672	-32.6	164	449	285
April	4,350	1,427	5,777	-864	-37.7	256	224	-32
May	4,352	1,847	6,199	-779	-29.7	489	66	-423
June	4,354	2,195	6,549	-712	-24.5	436	88	-349
July	4,354	2,381	6,736	-673	-22.0	362	175	-186
August	4,355	2,617	6,972	-633	-19.5	407	172	-235
September	4,356	2,950	7,306	-617	-17.3	464	130	-334
October	4,357	3,236	7,593	-580	-15.2	422	131	-291
November	4,356	3,030	7,386	-679	-18.3	213	418	205
December	4,361	2,708	7,069	-324	-10.7	191	511	320
Total	--	--	--	--	--	3,676	3,999	324
2019								
January	4,366	1,993	6,359	-147	-6.9	95	804	709
February	4,366	1,426	5,791	-247	-14.8	104	672	568
March	4,360	1,185	5,545	-206	-14.8	190	435	245
April	4,367	1,559	5,926	132	9.3	486	104	-382
May	4,371	2,031	6,402	183	9.9	557	85	-472
June	4,374	2,460	6,835	265	12.1	523	92	-431
July	4,374	2,714	7,087	333	14.0	415	162	-254

^a Total underground storage capacity at the end of each calendar year (in billion cubic feet): 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.

^R Revised data.

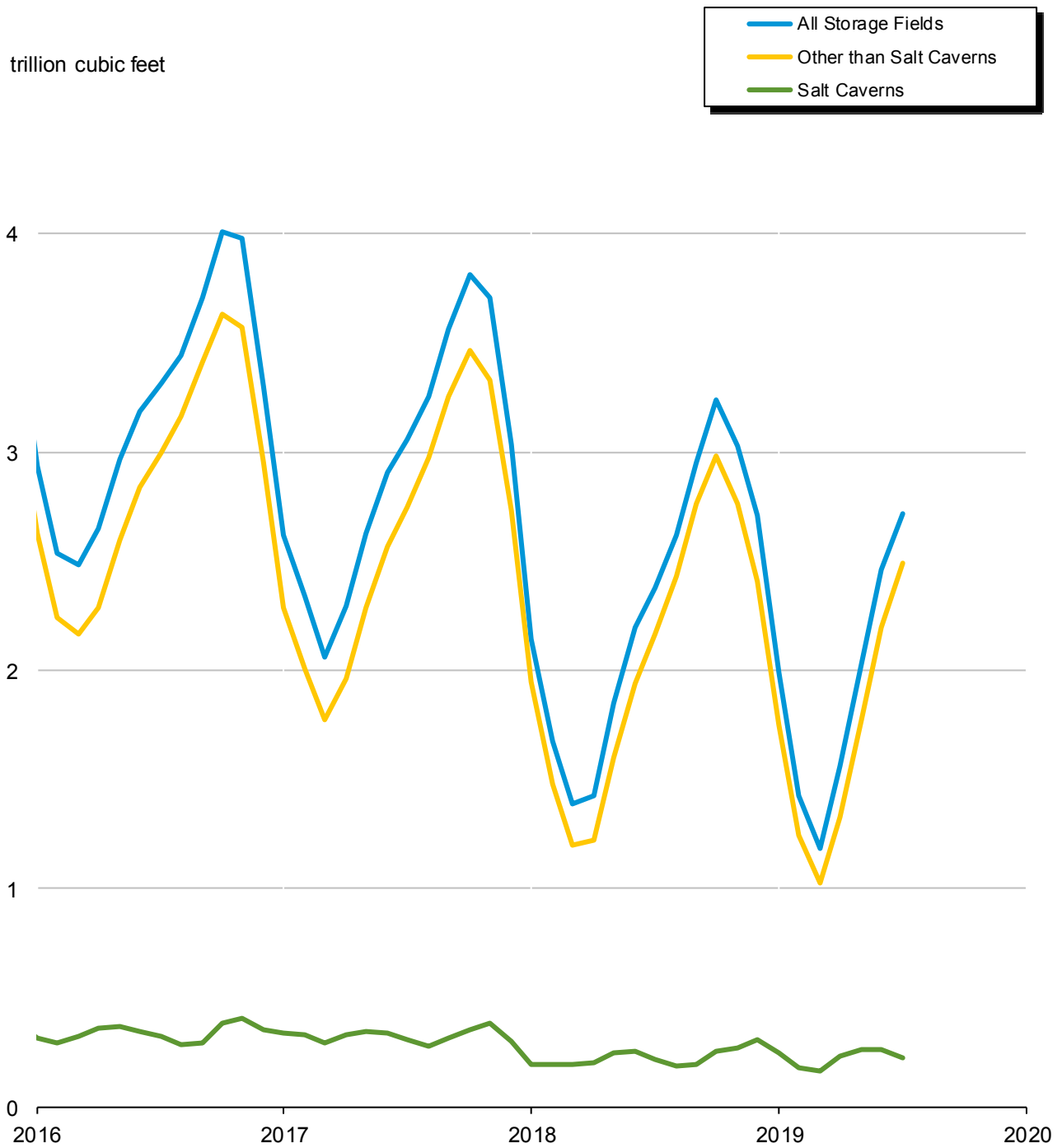
-- Not applicable.

Notes: Data for 2014 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.

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, 2016-2019

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, 2017-2019

(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
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	-482	-18.4	141	1,037	896
February	4,357	1,673	6,030	-665	-28.4	133	599	467
March	4,353	1,390	5,743	-672	-32.6	164	449	285
Total	--	--	--	--	--	727	3,156	2,429
2018 Refill Season								
April	4,350	1,427	5,777	-864	-37.7	256	224	-32
May	4,352	1,847	6,199	-779	-29.7	489	66	-423
June	4,354	2,195	6,549	-712	-24.5	436	88	-349
July	4,354	2,381	6,736	-673	-22.0	362	175	-186
August	4,355	2,617	6,972	-633	-19.5	407	172	-235
September	4,356	2,950	7,306	-617	-17.3	464	130	-334
October	4,357	3,236	7,593	-580	-15.2	422	131	-291
Total	--	--	--	--	--	2,835	985	-1,850
2019 Heating Season								
November	4,356	3,030	7,386	-679	-18.3	213	418	205
December	4,361	2,708	7,069	-324	-10.7	191	511	320
January	4,366	1,993	6,359	-147	-6.9	95	804	709
February	4,366	1,426	5,791	-247	-14.8	104	672	568
March	4,360	1,185	5,545	-206	-14.8	190	435	245
Total	--	--	--	--	--	793	2,840	2,047
2019 Refill Season								
April	4,367	1,559	5,926	132	9.3	486	104	-382
May	4,371	2,031	6,402	183	9.9	557	85	-472
June	4,374	2,460	6,835	265	12.1	523	92	-431
July	4,374	2,714	7,087	333	14.0	415	162	-254

^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.

^R Revised data.

-- 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.

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, 2014-2019
(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
2014 Total^b	--	--	--	--	--	634	552	-82
2015 Total^b	--	--	--	--	--	606	550	-56
2016 Total^b	--	--	--	--	--	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	387	-146	-43.1	84	189	106
February	196	196	392	-132	-40.3	60	55	-5
March	194	192	386	-100	-34.1	57	61	4
April	194	202	397	-124	-37.9	63	54	-8
May	195	249	444	-94	-27.4	79	31	-47
June	195	255	451	-84	-24.8	49	44	-6
July	196	214	409	-90	-29.7	35	77	41
August	196	187	383	-92	-33.0	45	71	27
September	196	190	386	-128	-40.2	65	62	-4
October	195	254	449	-96	-27.5	106	45	-61
November	195	270	465	-109	-28.7	81	65	-16
December	196	305	500	8	2.7	88	54	-34
Total	--	--	--	--	--	811	808	-4
2019								
January	196	243	438	50	26.3	45	108	62
February	195	182	377	-14	-7.0	42	104	62
March	192	164	357	-28	-14.7	68	87	19
April	196	234	430	31	15.5	109	36	-73
May	197	258	455	9	3.6	75	51	-25
June	198	262	460	7	2.6	60	55	-4
July	198	227	425	13	6.3	51	86	35
2019 7-Month YTD	--	--	--	--	--	452	528	76
2018 7-Month YTD	--	--	--	--	--	426	511	85
2017 7-Month YTD	--	--	--	--	--	386	428	42

^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 2014 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.

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, 2014-2019
(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
2014 Total^b	--	--	--	--	--	3,205	3,034	-171
2015 Total^b	--	--	--	--	--	3,032	2,549	-482
2016 Total^b	--	--	--	--	--	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	1,599	5,755	-685	-30.0	410	35	-376
June	4,158	1,940	6,099	-627	-24.4	387	44	-343
July	4,159	2,168	6,326	-583	-21.2	326	99	-228
August	4,159	2,430	6,588	-541	-18.2	363	101	-262
September	4,160	2,760	6,920	-489	-15.1	398	68	-330
October	4,162	2,982	7,144	-484	-14.0	316	86	-229
November	4,161	2,760	6,921	-571	-17.1	132	353	221
December	4,165	2,404	6,568	-332	-12.1	102	457	354
Total	--	--	--	--	--	2,864	3,192	327
2019								
January	4,170	1,751	5,921	-198	-10.1	50	696	646
February	4,171	R1,244	5,415	R-233	-15.8	62	568	506
March	4,167	R1,021	5,188	-178	-14.8	122	348	226
April	4,171	1,325	5,496	101	8.2	376	67	-309
May	4,174	1,773	5,947	174	10.9	481	34	-447
June	4,176	R2,199	6,375	258	13.3	463	37	-427
July	4,176	2,487	6,663	319	14.7	364	75	-289
2019 7-Month YTD	--	--	--	--	--	1,918	1,825	-93
2018 7-Month YTD	--	--	--	--	--	1,554	2,127	574
2017 7-Month YTD	--	--	--	--	--	1,510	1,701	191

^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.

^R Revised data.

-- Not applicable.

Notes: Data for 2014 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.

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

Table 12. Net withdrawals from underground storage, by state, 2017-2019
(million cubic feet)

State	2019						
	July	June	May	April	March	February	January
Alabama	1,992	119	-1,047	-4,541	1,480	3,277	1,154
Alaska ^a	-1,508	-1,526	-1,169	-145	1,222	2,658	3,160
Arkansas	-798	-768	-903	-312	696	1,094	1,185
California	-11,473	-39,458	-45,527	-39,081	-1,442	50,783	30,628
Colorado	-4,963	-9,284	-2,673	-482	1,062	7,360	10,411
Illinois	-21,798	-31,465	-29,250	-2,460	21,726	44,951	71,746
Indiana	-2,746	-2,270	-2,093	-99	2,798	3,994	6,207
Iowa	-2,823	-3,932	-4,426	-332	2,664	8,451	18,111
Kansas	-12,415	-15,807	-17,835	-13,773	7,971	22,056	24,030
Kentucky	-8,250	-9,025	-11,913	-15,484	4,786	11,343	18,947
Louisiana	-18,409	-39,117	R-42,654	-56,512	17,530	R50,759	60,935
Maryland	-1,498	-395	-1,647	-1,044	3,480	2,834	3,137
Michigan	-81,089	-93,949	-86,826	-45,883	65,710	115,237	138,813
Minnesota	-192	-23	6	59	277	250	512
Mississippi	9,277	790	-6,327	-24,390	6,673	14,485	26,551
Missouri	8	8	8	-201	-410	11	1,325
Montana	-3,787	-4,224	-2,731	-1,857	1,364	6,273	4,655
Nebraska	-1,188	-2,241	-1,551	-604	304	2,061	2,218
New Mexico	-2,974	-2,008	-3,961	-2,805	-148	727	1,041
New York	-3,597	-7,902	-5,889	-7,371	7,677	14,552	18,955
Ohio	-23,011	-25,172	-22,804	-9,978	25,100	34,073	38,856
Oklahoma	-15,795	-18,719	-24,181	-16,486	8,971	25,251	27,838
Oregon	-2,991	-3,170	-2,302	-750	15	4,007	5,447
Pennsylvania	-22,994	-53,396	-55,605	-33,670	41,514	65,257	80,114
Tennessee	-49	-45	-82	-37	24	6	78
Texas	11,375	-18,342	-38,598	-64,861	1,134	18,393	42,024
Utah	-7,263	-7,794	-7,668	-4,492	5,387	8,384	10,048
Virginia	275	-585	234	-603	419	-55	979
Washington	975	-1,299	-6,802	-3,896	-2,335	5,868	5,673
West Virginia	-22,905	-31,677	-38,734	-27,036	18,400	39,896	50,155
Wyoming	-3,169	-8,583	-6,945	-2,941	1,199	3,903	3,680
Regions							
East Region	-73,729	-119,128	-124,445	-79,702	96,588	156,555	192,196
South Central Region	-24,774	-91,845	R-131,547	-180,876	R44,454	135,316	183,717
Midwest Region	-116,940	-140,701	-134,577	-64,436	97,575	184,242	255,741
Mountain Region	-23,345	-34,133	-25,528	-13,181	9,168	28,709	32,052
Pacific Region	-13,489	-43,928	-54,630	-43,727	-3,761	60,659	41,748
Total Lower 48 States	-252,276	-429,734	R-470,728	R-381,922	R244,023	R565,481	705,454
U.S. Total	-253,784	-431,259	R-471,898	-382,067	R245,245	568,139	708,614

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2017-2019

(million cubic feet) – continued

State	2018						
	Total	December	November	October	September	August	July
Alabama	2,660	-4,038	-553	-3,424	3,736	3,070	2,879
Alaska ^a	-896	1,678	376	-743	-1,536	-1,795	-1,862
Arkansas	-654	763	779	-345	-522	-931	-793
California	52,175	33,067	11,111	-365	-12,150	290	8,376
Colorado	5,422	9,020	1,471	-2,840	-4,713	-5,997	-2,338
Illinois	-3,407	44,338	5,019	-43,390	-42,720	-34,744	-28,754
Indiana	-279	3,094	497	-2,417	-3,720	-4,155	-2,826
Iowa	2,874	18,169	8,860	-19,964	-19,504	-15,538	-1,673
Kansas	-796	14,219	6,918	-8,986	-13,872	-13,675	-12,141
Kentucky	10,209	6,435	5,196	-4,344	-9,599	-4,460	-2,846
Louisiana	58,314	10,719	22,799	-24,437	-20,246	-4,409	7,158
Maryland	-2,128	-346	288	-1,099	-652	-2,598	-2,904
Michigan	43,376	58,969	44,138	-54,740	-65,317	-74,298	-76,375
Minnesota	-274	22	10	-196	-279	-269	-221
Mississippi	7,009	-13,517	825	-18,359	9,728	11,902	13,724
Missouri	-816	-118	-124	-330	-244	25	24
Montana	7,240	3,051	3,536	2,479	-2,451	-4,466	-4,171
Nebraska	464	1,209	327	64	-1,400	-839	-633
New Mexico	9,745	-302	-1,194	-2,223	-488	1,475	3,751
New York	14,193	10,444	7,608	-4,921	-14,541	-9,405	-6,908
Ohio	4,840	21,319	18,578	-7,023	-22,743	-25,825	-25,872
Oklahoma	11,813	11,329	6,616	-14,498	-10,303	-13,480	-5,348
Oregon	-955	3,090	-454	-725	-2,316	431	-1,178
Pennsylvania	17,829	35,891	25,911	-30,599	-54,224	-28,602	-39,628
Tennessee	-35	138	59	23	2	-58	-82
Texas	59,567	15,521	-3,988	-35,252	-12,209	28,909	26,156
Utah	7,760	7,577	6,999	-2,699	-5,992	-3,631	-4,035
Virginia	-973	-186	457	-1,094	-176	214	74
Washington	-802	1,698	1,393	53	-2,437	-2,448	1,854
West Virginia	17,127	23,533	27,577	-7,429	-22,336	-28,124	-29,175
Wyoming	2,911	3,553	3,845	-702	-841	-1,932	-612
Regions							
East Region	50,888	90,655	80,420	-52,163	-114,671	-94,340	-104,413
South Central Region	137,912	34,995	33,396	-105,301	-43,688	11,385	31,635
Midwest Region	51,647	131,047	63,655	-125,358	-141,382	-133,497	-112,753
Mountain Region	33,542	24,109	14,985	-5,921	-15,884	-15,390	-8,038
Pacific Region	50,417	37,856	12,049	-1,037	-16,903	-1,727	9,052
Total Lower 48 States	324,407	318,661	204,505	-289,780	-332,528	-233,570	-184,516
U.S. Total	323,511	320,339	204,881	-290,522	-334,064	-235,365	-186,378

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2017-2019

(million cubic feet) – continued

State	2018						2017
	June	May	April	March	February	January	Total
Alabama	1,165	-3,590	-2,801	-2,192	885	7,522	3,570
Alaska ^a	-1,749	-856	25	1,020	1,988	2,559	-3,585
Arkansas	-838	-917	-193	776	616	951	-629
California	-18,473	-29,083	-18,639	10,696	25,368	41,978	5,688
Colorado	-6,154	-6,557	127	4,370	9,346	9,686	-309
Illinois	-29,674	-20,286	7,769	31,354	43,006	64,676	8,410
Indiana	-3,023	-1,240	542	3,497	4,115	5,357	-69
Iowa	-1,593	-2,828	1,387	6,081	9,545	19,932	329
Kansas	-12,300	-12,254	-1,471	9,818	19,645	23,304	6,142
Kentucky	-5,514	-10,612	3,827	312	8,578	23,235	15,130
Louisiana	-17,984	-42,625	7,969	7,193	16,429	95,750	26,198
Maryland	-3,246	-1,661	654	1,983	2,961	4,492	-1,045
Michigan	-75,997	-75,307	15,716	77,908	107,038	161,641	47,361
Minnesota	-162	6	112	175	290	238	248
Mississippi	-1,213	-15,259	-3,445	-2,922	-12,144	37,691	21,817
Missouri	25	-345	321	98	-133	-15	248
Montana	-4,023	-4,084	-591	4,348	6,469	7,142	2,360
Nebraska	-887	-2,061	-472	1	1,856	3,298	1,266
New Mexico	93	-818	-258	1,785	3,846	4,077	11,752
New York	-8,007	-12,164	-952	14,822	15,424	22,793	-3,120
Ohio	-25,869	-26,345	4,379	27,353	24,424	42,463	9,594
Oklahoma	-13,098	-17,878	-6,196	5,470	31,221	37,977	23,004
Oregon	-2,824	-2,644	29	-261	2,704	3,193	214
Pennsylvania	-46,334	-50,138	858	60,784	53,807	90,102	9,738
Tennessee	-75	-96	-44	-30	25	104	-45
Texas	-22,377	-37,196	-28,408	-15,080	36,356	107,134	65,344
Utah	-6,954	-8,576	-1,893	3,257	9,335	14,371	2,594
Virginia	-77	-607	-627	1,485	-193	-243	912
Washington	-5,671	-4,561	-2,546	2,206	6,762	2,896	1,133
West Virginia	-33,562	-28,088	-6,014	28,590	33,907	58,248	-5,627
Wyoming	-2,156	-4,390	-936	136	3,444	3,503	5,222
Regions							
East Region	-117,095	-119,003	-1,702	135,016	130,329	217,855	10,452
South Central Region	-66,645	-129,720	-34,545	3,063	93,007	310,329	145,446
Midwest Region	-116,013	-110,707	29,630	119,395	172,464	275,168	71,612
Mountain Region	-20,081	-26,486	-4,022	13,898	34,295	42,077	22,884
Pacific Region	-26,969	-36,288	-21,156	12,640	34,834	48,067	7,035
Total Lower 48 States	-346,803	-422,203	-31,796	284,013	464,929	893,495	257,429
U.S. Total	-348,552	-423,060	-31,771	285,033	466,917	896,054	253,844

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2017-2019

(million cubic feet) – continued

State	2017						
	December	November	October	September	August	July	June
Alabama	2,448	-1,237	-3,630	-561	3,628	3,386	498
Alaska ^a	1,309	1,622	-476	-1,624	-2,476	-2,424	-2,108
Arkansas	1,220	397	-251	-582	-574	-647	-581
California	37,901	6,223	-4,453	-12,170	1,123	-6,826	-13,935
Colorado	13,278	-4,315	-582	-6,013	-2,922	-5,245	-5,660
Illinois	57,696	-333	-40,165	-41,306	-34,888	-25,184	-32,389
Indiana	4,827	-1,525	-2,472	-2,352	-2,191	-2,486	-2,782
Iowa	20,539	6,240	-20,082	-19,446	-11,805	-1,696	-1,917
Kansas	22,474	-872	-5,986	-5,422	656	-2,088	-4,611
Kentucky	15,659	3,170	-10,110	-8,402	-1,317	5,583	1,693
Louisiana	57,784	-10,494	-13,491	-23,167	3,696	1,075	-5,251
Maryland	2,079	816	-533	-1,395	-2,626	-2,873	-2,241
Michigan	121,334	39,265	-34,646	-52,348	-54,494	-38,760	-57,334
Minnesota	298	-9	-232	-242	-244	-220	-190
Mississippi	29,161	-4,909	-11,495	-17,129	4,913	14,979	-476
Missouri	864	-210	-217	-432	*	0	*
Montana	7,373	3,931	-812	-4,091	-2,393	-3,558	-4,182
Nebraska	2,753	-232	-702	-1,206	-564	-935	182
New Mexico	4,715	1,939	235	241	2,883	1,623	68
New York	15,467	5,738	-10,854	-13,746	-15,700	-8,367	-12,765
Ohio	33,605	16,388	-3,490	-22,590	-24,349	-26,059	-26,200
Oklahoma	27,244	3,272	-9,766	-4,340	1,626	1,039	-10,437
Oregon	5,113	190	-705	-899	-702	-545	-1,472
Pennsylvania	61,182	20,680	-31,295	-33,239	-47,206	-37,135	-46,732
Tennessee	68	5	-31	-42	11	8	-41
Texas	84,716	-11,751	-30,361	-16,898	19,068	18,244	-15,267
Utah	12,258	-177	-1,600	-4,342	-1,449	-3,718	-5,162
Virginia	1,051	-144	-40	-761	-317	349	45
Washington	4,053	-191	1,203	-3,610	-2,225	329	-2,739
West Virginia	43,252	13,698	-11,598	-17,030	-24,959	-26,009	-26,523
Wyoming	3,028	-1,194	1,188	-1,390	172	-1,694	-2,290
Regions							
East Region	156,637	57,175	-57,810	-88,761	-115,156	-100,093	-114,416
South Central Region	225,046	-25,593	-74,980	-68,100	33,012	35,989	-36,126
Midwest Region	221,285	46,603	-107,955	-124,569	-104,928	-62,755	-92,960
Mountain Region	43,405	-48	-2,273	-16,801	-4,273	-13,527	-17,044
Pacific Region	47,067	6,222	-3,956	-16,679	-1,804	-7,041	-18,145
Total Lower 48 States	693,440	84,358	-246,975	-314,911	-193,148	-147,426	-278,691
U.S. Total	694,748	85,980	-247,451	-316,535	-195,625	-149,850	-280,799

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2017-2019
(million cubic feet) – continued

State	2017				
	May	April	March	February	January
Alabama	169	-1,292	1,420	-1,005	-254
Alaska ^a	-1,525	-1,076	1,572	1,409	2,213
Arkansas	-595	-272	772	66	418
California	-23,446	-16,167	-17,258	4,300	50,395
Colorado	-4,519	-1,374	1,199	4,859	10,983
Illinois	-17,012	4,438	35,264	42,917	59,371
Indiana	-1,664	-501	2,040	3,067	5,972
Iowa	-1,579	1,288	5,165	8,052	15,571
Kansas	-14,016	-10,252	5,246	2,192	18,823
Kentucky	-8,818	-12,511	5,772	7,787	16,622
Louisiana	-19,393	-22,014	22,982	11,892	22,579
Maryland	-3,128	-280	3,170	2,048	3,915
Michigan	-55,198	-39,909	63,573	47,176	108,702
Minnesota	-63	36	342	450	321
Mississippi	-3,259	-8,395	6,585	1,802	10,041
Missouri	0	*	100	-20	163
Montana	-4,160	-2,002	1,137	4,042	7,075
Nebraska	-1,017	-979	-287	1,408	2,844
New Mexico	-1,257	-1,704	-2,779	1,321	4,466
New York	-7,272	-5,894	17,047	12,369	20,857
Ohio	-18,721	-5,818	27,859	22,619	36,350
Oklahoma	-13,581	-4,742	-5,893	3,193	35,389
Oregon	-3,170	-336	-2,364	606	4,500
Pennsylvania	-51,111	-33,170	70,898	54,306	82,560
Tennessee	-32	-29	-5	14	31
Texas	-37,200	-30,805	1,147	6,329	78,122
Utah	-7,294	-2,628	-518	5,334	11,889
Virginia	-513	-310	689	685	180
Washington	-5,577	-2,596	1,556	4,022	6,908
West Virginia	-33,844	-30,240	27,775	29,958	49,893
Wyoming	-1,936	-632	234	1,737	8,000
Regions					
East Region	-114,589	-75,713	147,438	121,986	193,754
South Central Region	-87,874	-77,772	32,259	24,469	165,118
Midwest Region	-84,366	-47,188	112,250	109,443	206,754
Mountain Region	-20,183	-9,318	-1,014	18,701	45,258
Pacific Region	-32,194	-19,099	-18,066	8,927	61,803
Total Lower 48 States	-339,205	-229,091	272,867	283,526	672,686
U.S. Total	-340,730	-230,167	274,439	284,935	674,900

^a Alaska data are not included in the regions' totals or the lower 48 states total.

^R Revised data.

* Volume is less than 500 Mcf.

Notes: This table contains total net withdrawals for each of the states with natural gas storage facilities. Positive numbers indicate the volume of withdrawals in excess of injections. Negative values indicate the volume of injections in excess of withdrawals. EIA publishes weekly estimates of working gas in underground storage by geographical region. See Explanatory Note 5 in Appendix A for a list of the five 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, July 2019

(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	14,229	24,679	-1,224	-7.9	2,061	4,053
Alaska ^a	5	83,592	67,915	14,197	34,353	48,550	-711	-2.0	1,721	213
Arkansas	2	21,774	8,894	12,880	3,233	16,113	65	2.0	798	0
California	14	604,048	373,966	230,115	237,108	467,223	24,057	11.3	20,508	9,035
Colorado	10	141,407	72,754	61,115	36,574	97,689	894	2.5	8,532	3,569
Illinois	28	1,009,080	303,613	707,450	144,108	851,558	17,701	14.0	26,860	5,062
Indiana	23	113,006	32,279	80,740	17,065	97,806	1,269	8.0	2,753	8
Iowa	4	288,210	90,313	197,881	30,757	228,638	10,281	50.2	3,778	955
Kansas	16	282,986	122,982	163,816	82,521	246,337	16,120	24.3	14,183	1,767
Kentucky	22	221,695	107,596	112,799	72,448	185,247	16,500	29.5	9,278	1,028
Louisiana	19	739,703	446,562	285,283	276,103	561,385	39,678	16.8	57,660	39,251
Maryland	1	64,000	18,300	45,677	10,787	56,464	-460	-4.1	1,499	1
Michigan	44	1,071,608	683,820	386,911	426,852	813,764	79,202	22.8	82,282	1,193
Minnesota	1	7,000	2,000	4,848	1,224	6,072	-177	-12.6	192	0
Mississippi	11	331,890	202,584	122,155	81,273	203,429	-13,958	-14.7	11,784	21,062
Missouri	1	13,845	3,656	10,189	2,396	12,585	200	9.1	0	8
Montana	4	376,225	197,477	179,613	16,480	196,093	-3,257	-16.5	4,285	498
Nebraska	1	34,850	12,653	22,197	8,707	30,904	1,583	22.2	1,188	0
New Mexico	2	89,100	59,738	29,362	33,534	62,896	12,859	62.2	3,059	86
New York	26	245,779	127,487	114,038	61,165	175,203	-5,574	-8.4	6,777	3,180
Ohio	24	575,109	253,750	321,358	117,146	438,505	-1,370	-1.2	23,963	952
Oklahoma	12	372,191	195,582	176,466	133,290	309,755	32,815	32.7	20,219	4,424
Oregon	8	33,384	18,475	14,909	13,220	28,129	-631	-4.6	3,122	131
Pennsylvania	49	763,296	427,601	334,891	257,513	592,404	30,759	13.6	37,017	14,023
Tennessee	2	2,400	1,800	878	1,396	2,273	-64	-4.4	49	0
Texas	35	845,081	543,975	295,431	351,083	646,514	54,796	18.5	33,193	44,569
Utah	3	124,509	54,942	69,508	33,238	102,746	1,131	3.5	7,267	4
Virginia	2	8,960	4,930	4,100	4,187	8,287	121	3.0	690	965
Washington	1	46,900	24,600	22,300	21,322	43,622	4,038	23.4	615	1,590
West Virginia	31	531,706	268,803	262,693	160,564	423,257	18,693	13.2	25,978	3,074
Wyoming	9	139,947	58,492	79,395	29,941	109,335	-2,789	-8.5	3,970	801
Regions										
East Region	133	2,188,849	1,100,871	1,082,757	611,362	1,694,120	42,169	7.4	95,924	22,195
South Central Region	97	2,637,225	1,553,728	1,066,481	941,731	2,008,212	128,292	15.8	139,899	115,125
Midwest Region	125	2,726,843	1,225,076	1,501,697	696,246	2,197,943	124,913	21.9	125,193	8,253
Mountain Region	29	906,038	456,056	441,190	158,473	599,664	10,421	7.0	28,302	4,958
Pacific Region	23	684,332	417,041	267,324	271,651	538,975	27,463	11.2	24,245	10,756
Total Lower 48 States	407	9,143,287	4,752,772	4,359,450	2,679,463	7,038,913	333,258	14.2	413,563	161,287
U.S. Total	412	9,226,879	4,820,687	4,373,647	2,713,816	7,087,463	332,546	14.0	415,284	161,500

^a Alaska data are not included in the regions' totals or the lower 48 states total.

Notes: Existing fields include both active and inactive fields. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Total gas capacity may not equal the sum of base gas and working gas capacity, owing to changes in operational conditions. Totals may not equal sum of components because of independent rounding. EIA publishes weekly estimates of working gas in underground storage by geographical region. See Explanatory Note 5 in Appendix A for a list of the five 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 14. Natural gas deliveries to residential consumers, by state, 2017-2019

(million cubic feet)

State	2019	2018	2017	2019				
	7-Month YTD	7-Month YTD	7-Month YTD	July	June	May	April	March
Alabama	NA	22,244	14,979	NA	845	NA	1,797	3,846
Alaska	10,566	11,223	12,038	413	531	982	1,442	2,126
Arizona	28,681	22,266	22,758	1,205	1,489	2,053	2,706	5,556
Arkansas	NA	21,395	15,379	612	606	1,261	1,936	NA
California	296,803	268,028	275,057	21,378	21,297	30,612	30,595	51,644
Colorado	87,829	78,024	69,925	3,012	3,927	7,639	9,644	19,493
Connecticut	35,046	34,544	31,807	1,068	1,394	2,375	3,952	7,506
Delaware	7,657	NA	6,357	182	189	358	680	1,708
District of Columbia	NA	7,903	7,591	231	295	400	755	1,673
Florida	NA	11,359	9,394	NA	911	1,172	1,533	1,643
Georgia	NA	80,000	61,964	NA	4,227	4,732	7,052	15,017
Hawaii	356	358	346	47	44	51	51	55
Idaho	17,084	15,264	16,944	564	713	1,111	1,846	3,443
Illinois	283,585	275,922	229,712	7,771	9,699	18,771	30,310	60,542
Indiana	92,233	90,880	72,884	2,163	2,553	4,772	8,703	20,848
Iowa	NA	44,365	37,240	NA	1,372	2,705	4,643	10,026
Kansas	43,670	42,881	32,531	1,167	1,177	1,909	3,184	9,344
Kentucky	30,573	32,401	24,225	791	907	1,190	2,258	7,121
Louisiana	23,814	24,247	16,186	1,101	1,268	1,608	2,542	4,415
Maine	2,039	1,877	1,767	49	82	159	258	420
Maryland	52,034	NA	46,445	1,541	1,726	2,844	3,720	11,549
Massachusetts	78,204	87,275	76,820	2,415	2,856	5,642	8,936	17,385
Michigan	219,145	208,711	177,132	5,706	7,268	13,879	25,288	47,932
Minnesota	93,538	NA	75,214	2,269	3,841	6,556	10,239	18,976
Mississippi	14,279	15,271	10,259	556	511	628	1,241	3,172
Missouri	71,685	70,866	51,476	1,779	1,970	3,278	5,321	15,740
Montana	15,333	NA	12,746	510	811	1,058	1,548	3,262
Nebraska	27,673	27,760	21,673	772	907	1,756	2,545	6,234
Nevada	30,823	25,797	26,957	1,424	1,770	2,209	2,961	6,197
New Hampshire	5,167	4,911	4,547	143	173	358	581	1,076
New Jersey	150,645	157,775	139,464	4,769	6,467	9,563	14,442	33,538
New Mexico	22,912	20,550	18,477	897	975	1,572	2,317	4,063
New York	314,346	310,019	277,458	10,339	12,621	22,555	34,783	71,039
North Carolina	NA	46,182	33,235	975	NA	NA	3,069	9,511
North Dakota	9,118	NA	6,607	190	248	609	973	1,872
Ohio	188,700	183,869	151,688	4,874	5,400	10,326	19,144	43,397
Oklahoma	43,800	41,692	30,079	1,203	1,464	2,100	3,489	9,414
Oregon	28,849	25,305	29,185	972	1,310	1,710	3,367	6,004
Pennsylvania	158,977	163,151	137,216	4,043	4,891	8,511	14,539	35,708
Rhode Island	12,717	12,476	11,465	344	446	864	1,382	2,799
South Carolina	17,927	19,632	13,879	508	547	587	1,678	3,702
South Dakota	NA	NA	7,538	NA	273	708	1,103	2,028
Tennessee	43,232	47,748	31,612	1,112	1,198	1,617	3,437	10,028
Texas	150,483	NA	106,174	6,046	6,440	7,934	16,538	32,425
Utah	NA	39,135	38,885	1,872	1,895	NA	3,703	8,592
Vermont	2,770	2,612	2,345	80	126	220	375	562
Virginia	53,846	NA	46,600	1,463	1,798	1,910	4,414	11,590
Washington	53,115	49,701	54,831	1,969	2,409	3,186	6,180	10,465
West Virginia	15,406	NA	13,498	338	320	667	1,375	3,893
Wisconsin	96,190	90,294	78,951	2,338	3,089	6,967	11,378	19,461
Wyoming	9,850	8,747	8,042	285	578	948	1,348	2,149
Total	3,221,241	3,149,745	2,699,581	113,279	129,295	211,509	327,302	685,769

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2017-2019

(million cubic feet) – continued

State	2019							2018
	February	January	Total	December	November	October	September	August
Alabama	3,757	7,817	35,026	6,221	4,165	1,024	664	708
Alaska	2,268	2,804	18,587	2,609	2,094	1,318	754	590
Arizona	7,322	8,349	35,043	5,771	3,161	1,669	1,130	1,047
Arkansas	5,005	6,472	32,778	5,218	3,820	1,197	593	554
California	74,103	67,175	NA	63,860	38,605	22,816	19,331	NA
Colorado	20,706	23,408	133,446	23,775	16,632	8,974	3,264	2,777
Connecticut	8,536	10,215	53,100	7,970	6,068	2,515	1,052	951
Delaware	2,058	2,482	NA	1,740	1,202	373	167	166
District of Columbia	NA	2,128	12,438	1,983	1,529	501	250	271
Florida	2,136	2,414	16,954	1,978	1,183	848	834	752
Georgia	15,580	25,246	132,751	21,345	17,131	6,303	3,884	4,087
Hawaii	51	58	590	49	47	44	45	47
Idaho	4,546	4,861	27,111	5,079	3,739	1,726	734	567
Illinois	71,414	85,078	435,421	63,233	57,572	23,343	8,018	7,334
Indiana	23,416	29,778	143,773	21,660	19,405	7,255	2,470	2,103
Iowa	12,597	14,259	69,576	10,411	8,799	3,675	1,270	1,056
Kansas	12,892	13,997	69,351	11,009	9,516	3,302	1,484	1,158
Kentucky	7,650	10,656	51,210	7,764	6,900	2,545	852	748
Louisiana	5,108	7,772	39,149	6,155	4,531	1,776	1,320	1,121
Maine	508	563	3,020	483	378	168	60	54
Maryland	14,364	16,290	NA	12,788	10,157	3,467	1,553	1,474
Massachusetts	18,227	22,742	130,084	18,840	13,850	5,119	2,640	2,360
Michigan	52,919	66,153	336,215	49,585	43,481	22,202	6,189	6,046
Minnesota	24,779	26,879	NA	20,633	17,589	9,150	2,857	2,485
Mississippi	3,092	5,078	24,453	4,123	3,071	934	493	560
Missouri	20,104	23,493	114,010	18,239	16,228	5,272	1,744	1,662
Montana	4,643	3,501	NA	3,355	2,665	1,680	465	382
Nebraska	7,843	7,617	42,428	6,377	4,878	2,116	687	609
Nevada	7,914	8,349	41,094	6,806	3,980	1,995	1,383	1,134
New Hampshire	1,275	1,561	7,745	1,258	1,000	257	170	149
New Jersey	37,529	44,336	238,504	35,463	25,260	11,001	4,694	4,311
New Mexico	5,824	7,264	NA	6,487	NA	1,811	835	876
New York	73,069	89,940	475,539	67,676	54,825	22,820	10,494	9,705
North Carolina	9,950	15,222	74,354	13,131	10,643	2,447	992	959
North Dakota	2,691	2,537	NA	1,976	1,746	1,027	211	186
Ohio	47,551	58,007	294,385	44,504	39,632	16,770	4,990	4,620
Oklahoma	12,095	14,035	66,143	11,620	8,731	1,827	1,173	1,101
Oregon	8,108	7,377	42,767	7,270	5,406	2,648	1,238	900
Pennsylvania	40,517	50,767	253,132	38,049	30,868	12,525	4,405	4,135
Rhode Island	3,079	3,803	19,804	2,982	2,370	1,233	364	379
South Carolina	4,348	6,556	31,634	6,016	4,076	925	488	497
South Dakota	2,662	2,560	NA	2,106	1,503	923	210	192
Tennessee	10,350	15,490	73,422	13,105	8,527	2,018	1,110	914
Texas	37,125	43,975	NA	35,193	22,391	7,811	4,974	4,833
Utah	10,954	12,884	68,310	12,307	9,025	4,602	1,668	1,574
Vermont	666	742	3,933	570	420	175	84	72
Virginia	14,298	18,373	NA	14,102	8,730	3,401	1,636	1,519
Washington	15,634	13,272	83,000	13,065	9,984	6,078	2,605	1,567
West Virginia	3,733	5,079	NA	4,043	3,158	1,321	350	299
Wisconsin	24,220	28,737	142,766	20,150	18,426	8,674	2,914	2,309
Wyoming	2,316	2,224	14,604	2,685	1,712	953	282	226
Total	803,709	950,378	4,973,983	762,819	595,468	254,554	112,072	99,325

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2017-2019

(million cubic feet) – continued

State	2018							2017
	July	June	May	April	March	February	January	Total
Alabama	682	732	1,127	2,525	3,762	3,781	9,635	26,430
Alaska	500	672	1,031	1,481	2,217	2,618	2,705	20,247
Arizona	1,120	1,326	1,729	2,402	4,675	5,213	5,801	32,821
Arkansas	501	626	931	2,509	4,139	4,958	7,731	25,704
California	19,967	22,008	27,006	32,336	53,606	55,061	58,044	431,005
Colorado	2,611	2,738	5,767	10,144	14,335	20,333	22,095	118,582
Connecticut	1,066	1,325	1,965	5,285	7,422	6,900	10,580	48,431
Delaware	166	185	345	1,091	1,944	1,533	NA	9,896
District of Columbia	266	253	358	943	1,830	1,720	2,532	11,904
Florida	811	984	1,146	1,564	1,732	2,038	3,084	14,934
Georgia	3,917	3,984	4,710	8,852	15,677	12,223	30,637	111,248
Hawaii	46	50	49	52	52	51	58	572
Idaho	548	656	801	1,876	3,174	4,018	4,191	28,799
Illinois	7,470	8,923	12,347	43,614	54,873	64,644	84,051	377,511
Indiana	2,203	2,006	3,676	13,606	19,900	19,981	29,508	123,847
Iowa	934	1,157	1,788	6,942	8,491	11,176	13,877	60,362
Kansas	1,062	1,371	1,739	6,017	7,368	11,405	13,921	54,445
Kentucky	696	755	1,214	4,207	6,877	6,626	12,026	43,253
Louisiana	1,210	1,245	1,579	2,436	3,112	4,179	10,485	29,060
Maine	49	74	114	271	386	403	581	2,748
Maryland	1,568	1,870	NA	7,407	13,780	11,424	17,860	75,789
Massachusetts	2,482	2,830	4,480	12,311	18,621	21,038	25,513	121,181
Michigan	5,269	5,752	9,052	34,058	46,850	45,396	62,334	299,158
Minnesota	2,218	2,930	NA	13,499	17,200	23,096	26,700	123,898
Mississippi	513	498	680	1,573	2,284	2,613	7,110	18,446
Missouri	1,666	1,787	2,294	10,125	13,547	16,785	24,661	86,865
Montana	357	550	854	1,861	NA	3,510	3,568	21,481
Nebraska	768	791	1,546	4,220	5,060	7,121	8,255	34,069
Nevada	1,234	1,583	1,967	2,839	5,622	6,015	6,537	40,911
New Hampshire	136	172	227	731	1,089	998	1,557	7,331
New Jersey	4,764	5,911	7,617	22,887	36,896	30,408	49,292	221,608
New Mexico	814	809	1,130	2,088	4,537	4,758	6,414	29,993
New York	10,830	12,261	18,783	47,627	67,187	63,551	89,778	432,451
North Carolina	937	1,152	1,326	4,561	11,140	7,984	19,084	59,933
North Dakota	170	255	650	1,340	NA	2,132	2,285	11,015
Ohio	4,674	4,586	5,877	29,426	42,110	38,429	58,768	258,699
Oklahoma	1,046	1,145	1,663	5,430	6,380	11,560	14,467	51,069
Oregon	948	1,303	1,523	3,495	5,426	6,356	6,253	47,841
Pennsylvania	4,179	4,554	6,551	23,138	38,942	33,318	52,469	218,719
Rhode Island	372	413	459	1,888	2,925	2,433	3,986	18,421
South Carolina	476	503	727	1,928	3,931	3,278	8,789	24,558
South Dakota	205	247	617	1,415	NA	2,254	2,552	12,146
Tennessee	1,085	1,194	2,176	5,976	8,263	9,597	19,458	56,661
Texas	4,693	5,206	7,939	12,998	23,771	33,600	NA	164,140
Utah	1,616	2,057	2,342	4,522	9,459	8,505	10,634	66,700
Vermont	80	109	179	423	516	561	744	3,509
Virginia	1,674	1,562	2,274	6,645	13,630	11,173	NA	76,904
Washington	2,002	2,424	2,812	7,275	11,037	11,997	12,154	91,028
West Virginia	332	388	NA	2,457	4,273	3,671	5,563	22,385
Wisconsin	2,297	2,626	3,977	14,904	18,237	22,356	25,896	131,018
Wyoming	241	352	672	1,365	1,904	2,064	2,150	12,553
Total	105,470	118,892	167,909	438,565	656,263	686,844	975,802	4,412,282

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2017-2019

(million cubic feet) – continued

State	2017							
	December	November	October	September	August	July	June	May
Alabama	6,211	2,650	1,193	741	656	679	716	928
Alaska	2,525	2,613	1,579	892	601	551	656	983
Arizona	4,272	2,133	1,502	1,145	1,011	1,101	1,324	1,781
Arkansas	5,713	2,542	931	586	553	570	621	952
California	62,531	33,949	23,669	17,774	18,026	19,092	20,885	27,252
Colorado	21,054	12,514	8,690	3,557	2,841	2,657	2,955	6,264
Connecticut	8,288	4,790	1,430	1,091	1,025	1,075	1,380	2,231
Delaware	2,007	953	249	172	158	151	207	350
District of Columbia	2,383	934	410	299	287	293	340	518
Florida	1,816	1,226	924	823	751	778	880	1,060
Georgia	22,315	12,094	6,722	4,105	4,049	3,940	4,108	4,938
Hawaii	50	47	43	44	42	43	49	44
Idaho	5,273	3,069	2,147	836	530	518	599	1,114
Illinois	69,482	44,367	17,811	8,054	8,084	8,664	9,174	16,968
Indiana	26,461	14,435	5,553	2,498	2,016	2,096	2,415	5,288
Iowa	11,284	6,654	2,952	1,127	1,105	1,028	1,276	2,437
Kansas	10,772	6,674	2,239	1,166	1,063	1,009	1,228	1,776
Kentucky	9,945	5,305	2,019	975	784	719	777	1,188
Louisiana	6,251	2,659	1,536	1,221	1,207	1,231	1,287	1,429
Maine	520	264	85	58	54	52	76	135
Maryland	15,141	8,718	2,426	1,732	1,326	1,651	1,789	2,993
Massachusetts	22,904	12,151	4,115	2,694	2,497	2,608	3,299	5,950
Michigan	58,028	37,037	14,512	7,041	5,408	5,123	6,056	13,698
Minnesota	22,061	15,032	6,526	2,556	2,510	2,276	2,997	5,044
Mississippi	4,142	1,988	882	622	553	518	526	728
Missouri	19,244	10,363	2,311	1,794	1,678	1,597	1,904	3,319
Montana	3,627	2,535	1,587	637	349	343	474	902
Nebraska	5,967	3,973	1,404	619	434	673	857	1,512
Nevada	6,316	2,973	2,035	1,476	1,153	1,310	1,600	2,022
New Hampshire	1,428	787	257	155	158	137	176	338
New Jersey	43,095	21,617	8,807	4,338	4,288	4,857	6,185	9,355
New Mexico	5,444	2,871	1,517	866	818	839	951	1,409
New York	75,715	42,655	15,453	10,954	10,216	10,730	13,856	20,615
North Carolina	14,460	8,039	2,110	1,096	993	1,135	1,039	1,514
North Dakota	1,938	1,388	669	235	177	155	190	347
Ohio	53,080	30,997	12,214	5,675	5,045	4,714	5,339	9,994
Oklahoma	11,996	4,925	1,511	1,260	1,298	1,172	1,300	1,878
Oregon	8,213	5,325	3,149	1,191	778	866	1,330	2,147
Pennsylvania	42,298	22,852	7,875	4,601	3,878	4,196	5,099	9,495
Rhode Island	3,485	2,051	628	386	407	414	462	798
South Carolina	5,845	2,976	835	541	482	559	526	657
South Dakota	2,176	1,283	684	244	221	195	265	482
Tennessee	14,083	6,831	1,899	1,253	983	1,008	1,168	1,721
Texas	25,645	13,224	7,772	5,888	5,438	6,003	5,823	7,749
Utah	13,023	6,973	4,527	1,821	1,471	1,680	2,227	2,890
Vermont	587	301	111	87	78	82	131	187
Virginia	16,077	8,094	2,857	1,690	1,587	1,657	1,797	2,501
Washington	14,960	10,582	6,464	2,441	1,749	1,802	2,226	4,046
West Virginia	4,473	2,611	1,014	485	304	356	325	758
Wisconsin	25,210	15,334	6,281	2,739	2,503	2,306	2,795	5,967
Wyoming	1,801	1,281	951	266	212	211	372	796
Total	821,617	467,638	205,068	114,548	103,832	107,423	124,038	199,451

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2017-2019
(million cubic feet) – continued

State	2017			
	April	March	February	January
Alabama	1,366	3,187	3,240	4,864
Alaska	1,472	2,666	2,521	3,189
Arizona	2,358	3,702	5,836	6,656
Arkansas	1,168	2,951	3,376	5,740
California	29,707	40,608	53,982	83,530
Colorado	8,839	11,822	14,666	22,721
Connecticut	3,529	7,844	7,199	8,549
Delaware	612	1,689	1,397	1,951
District of Columbia	616	1,796	1,679	2,348
Florida	1,392	1,600	1,725	1,958
Georgia	5,707	12,818	12,389	18,065
Hawaii	49	52	52	58
Idaho	2,016	2,669	3,829	6,199
Illinois	23,288	52,091	47,489	72,039
Indiana	7,075	17,157	15,348	23,505
Iowa	4,047	8,061	8,381	12,010
Kansas	3,063	6,451	6,663	12,341
Kentucky	2,032	5,648	5,597	8,265
Louisiana	1,705	2,699	2,906	4,928
Maine	235	426	395	447
Maryland	3,402	11,443	11,029	14,139
Massachusetts	8,696	20,221	16,531	19,515
Michigan	18,830	42,976	38,428	52,022
Minnesota	8,308	16,657	16,507	23,423
Mississippi	807	2,153	2,110	3,417
Missouri	4,432	10,298	10,986	18,940
Montana	1,608	2,231	2,978	4,211
Nebraska	2,231	4,156	4,681	7,563
Nevada	2,794	4,396	6,256	8,578
New Hampshire	478	1,184	999	1,235
New Jersey	14,797	34,080	30,427	39,764
New Mexico	2,085	2,973	4,196	6,024
New York	30,903	68,055	60,346	72,953
North Carolina	2,309	8,165	7,129	11,944
North Dakota	737	1,475	1,577	2,126
Ohio	13,998	37,454	33,242	46,946
Oklahoma	2,737	4,756	6,446	11,789
Oregon	3,766	5,136	6,406	9,534
Pennsylvania	13,739	33,755	30,971	39,961
Rhode Island	1,192	3,126	2,513	2,961
South Carolina	1,177	3,265	2,916	4,779
South Dakota	905	1,538	1,668	2,485
Tennessee	2,363	6,888	7,217	11,248
Texas	9,413	16,020	22,128	39,036
Utah	4,976	5,704	7,427	13,980
Vermont	311	570	507	556
Virginia	3,795	11,067	10,403	15,380
Washington	7,034	10,426	12,453	16,844
West Virginia	1,371	3,489	3,117	4,081
Wisconsin	8,439	18,653	17,252	23,539
Wyoming	1,001	1,520	1,797	2,344
Total	278,910	579,768	579,313	830,679

^{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, 2017-2019

(million cubic feet)

State	2019	2018	2017	2019				
	7-Month YTD	7-Month YTD	7-Month YTD	July	June	May	April	March
Alabama	NA	15,823	11,969	NA	1,268	NA	1,486	2,756
Alaska	NA	8,737	9,289	NA	NA	NA	NA	NA
Arizona	23,178	NA	19,020	2,132	2,289	2,661	2,876	3,865
Arkansas	NA	32,226	27,234	2,981	2,850	3,465	4,046	NA
California	150,025	142,828	135,783	15,987	15,546	18,890	17,642	23,741
Colorado	39,022	34,049	31,353	1,798	2,224	3,695	4,517	8,401
Connecticut	35,834	35,161	32,161	2,600	2,416	3,110	4,187	7,090
Delaware	9,567	NA	7,613	787	737	835	915	1,886
District of Columbia	9,687	NA	9,345	661	678	838	992	1,923
Florida	NA	38,158	36,370	NA	4,647	4,930	5,267	5,716
Georgia	NA	33,576	27,664	NA	2,228	2,475	3,342	6,296
Hawaii	1,541	1,522	1,439	235	202	221	221	216
Idaho	11,625	10,627	11,758	761	770	961	1,310	2,162
Illinois	153,858	151,241	127,181	8,208	8,563	12,210	18,502	31,313
Indiana	54,207	52,896	43,046	2,363	2,635	3,271	5,289	11,738
Iowa	NA	34,378	29,041	NA	1,752	2,393	3,742	7,150
Kansas	24,563	24,488	20,150	1,747	1,787	1,928	1,904	4,683
Kentucky	22,685	23,396	18,218	1,218	1,233	1,370	1,932	4,874
Louisiana	19,089	18,118	15,839	1,982	1,989	2,097	2,381	3,209
Maine	6,289	NA	5,496	270	337	551	809	1,250
Maryland	44,996	NA	43,103	3,392	3,156	4,026	4,540	9,289
Massachusetts	72,799	72,099	66,053	4,011	3,781	6,070	8,788	14,234
Michigan	119,458	117,554	99,658	5,036	6,245	9,904	14,792	25,363
Minnesota	71,963	71,002	60,436	3,021	3,538	5,020	9,080	14,738
Mississippi	11,483	11,689	9,738	951	865	883	1,218	2,188
Missouri	42,763	43,295	34,302	2,199	2,214	2,946	4,080	8,696
Montana	NA	15,608	13,829	1,060	1,205	NA	2,037	3,458
Nebraska	22,165	21,627	18,098	1,268	1,284	1,854	2,198	4,409
Nevada	21,119	19,338	19,592	1,817	1,970	2,303	2,557	3,701
New Hampshire	6,398	5,999	5,471	221	248	460	739	1,326
New Jersey	95,646	103,198	91,147	6,882	5,233	7,225	10,678	19,184
New Mexico	15,941	14,370	13,266	942	1,145	1,510	1,711	2,683
New York	200,172	195,791	186,666	14,797	13,779	16,977	23,091	39,447
North Carolina	NA	36,244	30,019	2,097	NA	2,555	3,346	6,623
North Dakota	10,251	NA	7,662	342	361	738	1,146	2,106
Ohio	112,853	107,454	90,719	5,171	5,301	7,439	12,345	24,455
Oklahoma	30,422	28,785	22,197	1,650	1,781	2,187	2,928	6,144
Oregon	19,566	NA	19,518	1,013	1,229	1,510	2,389	3,954
Pennsylvania	104,482	103,959	88,832	4,907	5,117	7,182	10,472	21,458
Rhode Island	7,877	7,647	7,068	228	300	551	920	1,733
South Carolina	14,594	15,046	13,074	1,267	1,324	1,492	1,701	2,630
South Dakota	NA	NA	6,498	NA	347	632	975	1,665
Tennessee	34,288	NA	26,741	2,362	2,400	2,463	3,151	6,758
Texas	120,917	112,925	98,796	10,752	11,015	11,798	16,187	21,796
Utah	NA	NA	23,945	1,545	1,427	NA	2,509	5,162
Vermont	4,332	4,042	3,460	356	328	317	492	811
Virginia	44,474	NA	39,773	3,045	3,112	3,533	4,461	8,603
Washington	35,758	33,994	36,454	2,318	2,622	3,066	4,526	6,741
West Virginia	14,420	15,334	13,121	1,003	971	1,176	1,629	3,040
Wisconsin	63,119	61,269	54,283	2,760	3,315	4,865	7,701	12,959
Wyoming	9,047	9,627	8,969	430	618	931	1,255	1,849
Total	2,162,889	2,118,302	1,872,459	142,461	143,711	184,739	246,227	423,214

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2017-2019

(million cubic feet) – continued

State	2019			2018				
	February	January	Total	December	November	October	September	August
Alabama	2,266	4,795	27,209	3,743	3,610	1,748	1,096	1,189
Alaska	NA	NA	NA	NA	1,503	988	633	556
Arizona	4,465	4,891	NA	4,424	3,363	2,385	2,006	2,073
Arkansas	6,099	7,398	54,112	6,406	5,530	3,999	2,957	2,994
California	30,700	27,518	248,307	28,661	23,120	20,397	16,883	16,418
Colorado	8,678	9,710	57,793	9,582	6,748	4,034	1,704	1,676
Connecticut	7,479	8,951	58,655	7,377	6,390	4,237	2,698	2,792
Delaware	1,932	2,475	NA	2,004	NA	1,239	786	776
District of Columbia	2,155	2,440	NA	1,964	1,733	1,239	654	857
Florida	5,737	6,590	63,260	6,166	5,180	4,639	4,630	4,487
Georgia	6,277	9,969	56,285	8,446	6,882	3,113	2,105	2,162
Hawaii	210	237	2,602	217	212	220	205	226
Idaho	2,736	2,925	18,860	2,880	2,183	1,479	925	765
Illinois	34,519	40,543	242,293	30,946	26,594	15,989	8,860	8,663
Indiana	12,752	16,158	86,031	11,711	10,292	5,996	2,823	2,313
Iowa	8,532	9,677	55,779	7,374	6,661	3,883	1,764	1,720
Kansas	6,193	6,321	41,287	5,869	4,415	2,832	1,802	1,881
Kentucky	5,222	6,836	37,923	5,103	4,708	2,419	1,214	1,083
Louisiana	2,903	4,527	32,448	3,639	3,857	2,610	2,195	2,029
Maine	1,434	1,638	NA	1,379	1,177	678	327	NA
Maryland	9,120	11,473	NA	9,219	8,075	6,085	3,534	3,654
Massachusetts	16,250	19,666	116,485	15,213	14,072	6,729	4,353	4,020
Michigan	27,868	30,249	185,911	25,933	20,117	11,323	5,047	5,936
Minnesota	18,121	18,443	112,006	15,185	12,151	7,490	3,309	2,869
Mississippi	2,128	3,251	19,782	2,591	2,327	1,361	872	942
Missouri	10,638	11,990	68,931	9,406	7,848	3,962	2,284	2,136
Montana	4,280	3,523	25,695	3,459	2,760	1,818	1,144	907
Nebraska	5,690	5,462	34,633	4,634	3,785	2,226	1,238	1,124
Nevada	4,272	4,499	32,467	4,126	3,161	2,268	1,856	1,717
New Hampshire	1,513	1,890	9,702	1,495	1,260	432	278	238
New Jersey	21,797	24,647	160,474	21,505	15,957	8,425	5,437	5,952
New Mexico	3,496	4,455	NA	NA	3,568	2,233	1,069	1,163
New York	40,304	51,777	325,099	39,678	36,464	23,058	15,264	14,844
North Carolina	6,503	9,684	59,412	7,706	6,840	4,052	2,379	2,190
North Dakota	2,830	2,729	NA	2,224	2,006	1,217	369	343
Ohio	25,496	32,647	174,256	23,821	21,310	11,423	5,183	5,065
Oklahoma	7,367	8,366	46,914	7,063	5,386	2,487	1,612	1,581
Oregon	4,974	4,498	NA	4,427	3,255	1,970	1,187	1,000
Pennsylvania	23,395	31,950	166,747	22,183	18,836	11,110	5,447	5,213
Rhode Island	1,844	2,301	12,252	1,832	1,416	783	298	276
South Carolina	2,439	3,741	25,308	2,910	2,925	1,918	1,219	1,290
South Dakota	2,216	2,111	NA	1,812	1,410	860	334	295
Tennessee	6,602	10,551	NA	8,117	6,675	3,514	2,271	2,063
Texas	23,384	25,987	186,550	21,919	19,242	12,074	10,369	10,022
Utah	6,444	7,209	NA	7,086	5,224	3,052	1,356	1,222
Vermont	900	1,129	7,283	984	890	620	388	360
Virginia	9,468	12,251	NA	9,357	7,070	5,385	3,286	3,250
Washington	8,563	7,922	56,728	7,634	6,009	4,230	2,567	2,294
West Virginia	2,890	3,710	24,832	3,096	2,737	1,619	995	1,052
Wisconsin	14,661	16,860	98,482	13,186	11,636	6,388	3,161	2,842
Wyoming	2,023	1,940	15,339	2,352	1,584	951	444	381
Total	469,906	552,630	3,476,281	454,953	381,851	235,183	144,817	141,176

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2017-2019

(million cubic feet) – continued

State	2018							2017
	July	June	May	April	March	February	January	Total
Alabama	1,134	1,126	1,168	1,946	2,874	2,238	5,337	22,790
Alaska	436	590	816	1,192	1,731	1,959	2,012	15,544
Arizona	2,128	NA	NA	NA	NA	NA	NA	31,212
Arkansas	2,754	2,740	3,002	4,298	5,509	6,018	7,906	47,501
California	15,526	16,161	17,545	18,752	25,318	24,191	25,335	237,360
Colorado	1,547	1,712	2,697	4,486	6,143	8,368	9,096	52,739
Connecticut	2,594	2,452	2,635	5,299	6,834	6,535	8,812	52,513
Delaware	697	693	700	1,224	NA	1,721	NA	13,364
District of Columbia	727	824	642	1,195	1,894	1,759	NA	16,040
Florida	4,537	4,840	5,031	5,394	5,942	5,452	6,961	61,313
Georgia	2,153	2,142	2,438	3,966	6,379	5,094	11,403	49,193
Hawaii	223	212	209	216	214	203	243	2,446
Idaho	705	753	799	1,304	2,058	2,417	2,592	19,777
Illinois	8,614	8,506	10,265	23,102	28,329	32,997	39,428	215,936
Indiana	2,295	2,217	3,089	7,537	10,808	11,022	15,928	75,312
Iowa	1,620	1,846	2,244	5,094	6,280	7,778	9,516	49,710
Kansas	1,678	1,714	1,779	3,614	3,885	5,416	6,403	34,483
Kentucky	1,020	1,012	1,347	3,000	4,647	4,620	7,751	32,796
Louisiana	1,890	1,885	2,006	2,472	2,762	2,460	4,643	28,316
Maine	NA	328	418	843	1,170	1,183	1,603	8,925
Maryland	3,416	3,937	NA	6,514	9,836	8,352	11,420	72,279
Massachusetts	3,633	3,964	4,262	10,187	14,962	16,673	18,417	109,470
Michigan	5,325	5,435	8,645	18,479	24,178	24,556	30,937	162,634
Minnesota	2,892	3,219	4,689	10,913	13,400	17,365	18,524	99,756
Mississippi	859	864	925	1,396	1,805	1,861	3,978	17,643
Missouri	2,083	2,137	2,605	6,133	8,054	9,882	12,402	57,903
Montana	731	824	1,215	2,301	3,266	3,671	3,600	23,374
Nebraska	1,255	1,251	1,689	3,199	3,760	4,999	5,474	29,018
Nevada	1,723	1,899	2,198	2,569	3,595	3,593	3,762	32,200
New Hampshire	213	256	291	858	1,312	1,216	1,853	9,078
New Jersey	6,036	6,060	6,819	16,093	21,624	19,869	26,697	148,948
New Mexico	847	1,057	1,215	1,486	2,934	2,778	4,053	23,624
New York	14,812	14,359	14,732	28,745	38,731	36,591	47,822	310,211
North Carolina	2,149	2,069	2,391	4,746	8,010	5,992	10,887	53,726
North Dakota	311	394	NA	1,505	NA	2,273	2,223	12,957
Ohio	4,709	5,007	4,823	16,057	23,485	21,655	31,718	156,979
Oklahoma	1,465	1,582	1,832	3,724	4,474	7,183	8,523	37,834
Oregon	976	1,264	1,370	2,389	3,507	NA	3,982	31,763
Pennsylvania	4,920	5,133	5,367	14,353	24,385	20,019	29,783	145,910
Rhode Island	281	280	303	1,142	1,818	1,522	2,301	11,338
South Carolina	1,259	1,330	1,472	1,734	3,033	2,262	3,955	22,923
South Dakota	299	345	NA	1,232	NA	1,865	2,017	10,813
Tennessee	2,241	2,412	2,604	4,592	NA	6,275	11,305	49,042
Texas	8,963	9,446	11,724	13,691	19,350	21,089	28,663	164,797
Utah	1,284	1,483	NA	2,899	5,701	5,142	6,169	41,264
Vermont	349	349	259	617	775	703	988	6,205
Virginia	3,407	2,969	3,226	5,362	10,119	7,796	NA	68,162
Washington	2,162	2,708	2,847	4,556	7,057	7,207	7,457	60,096
West Virginia	989	1,035	1,121	2,204	3,234	2,828	3,923	22,421
Wisconsin	2,852	2,879	3,930	9,736	11,510	13,839	16,523	90,470
Wyoming	411	534	872	1,497	2,032	2,087	2,195	13,972
Total	135,406	140,413	161,814	298,537	414,033	420,103	547,995	3,164,078

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2017-2019

(million cubic feet) – continued

State	2017							
	December	November	October	September	August	July	June	May
Alabama	3,908	2,589	1,985	1,232	1,107	1,047	1,074	1,273
Alaska	1,977	1,831	1,189	709	550	500	530	855
Arizona	3,684	2,552	2,167	1,916	1,874	1,864	1,968	2,287
Arkansas	6,407	4,356	3,686	2,919	2,899	2,706	2,749	3,088
California	28,185	21,739	19,392	16,064	16,197	15,166	14,780	16,236
Colorado	8,626	5,385	3,780	1,881	1,714	1,639	1,741	3,068
Connecticut	7,412	5,236	2,796	2,489	2,419	2,437	2,313	2,732
Delaware	2,226	1,464	836	652	573	499	561	721
District of Columbia	2,671	1,383	1,001	815	825	835	847	1,009
Florida	6,030	5,267	4,855	4,393	4,398	4,394	4,646	4,880
Georgia	8,539	5,224	3,324	2,231	2,211	2,164	2,215	2,593
Hawaii	203	204	200	198	202	194	214	192
Idaho	2,925	1,924	1,494	943	732	704	719	959
Illinois	35,932	22,257	13,695	8,818	8,054	7,691	7,562	12,632
Indiana	13,712	8,404	4,996	2,765	2,390	2,231	2,437	3,621
Iowa	7,870	5,820	3,597	1,803	1,580	1,598	1,753	2,283
Kansas	5,286	3,308	2,314	1,683	1,743	1,578	1,565	1,770
Kentucky	6,258	3,761	2,045	1,378	1,136	1,042	1,100	1,337
Louisiana	3,929	2,647	2,199	1,795	1,907	1,790	1,925	2,024
Maine	1,518	939	382	299	290	289	306	462
Maryland	11,519	7,306	3,850	3,237	3,264	3,541	3,025	4,215
Massachusetts	17,939	11,692	5,467	4,243	4,076	3,832	3,968	5,859
Michigan	26,445	16,897	8,273	5,952	5,409	5,045	5,966	8,793
Minnesota	16,759	11,138	5,491	3,066	2,867	2,860	3,117	4,853
Mississippi	2,697	1,758	1,460	1,011	979	893	903	1,101
Missouri	10,275	5,864	2,812	2,361	2,290	2,089	2,248	2,850
Montana	3,524	2,643	1,683	1,010	685	670	753	1,095
Nebraska	4,384	3,033	1,689	1,006	807	1,037	1,192	1,500
Nevada	4,043	2,658	2,300	1,902	1,704	1,758	1,908	2,189
New Hampshire	1,685	1,034	388	244	256	192	239	425
New Jersey	24,082	13,261	8,960	6,624	4,874	5,572	6,462	8,134
New Mexico	3,967	2,294	1,845	1,131	1,120	1,048	997	1,259
New York	45,947	31,356	16,690	14,701	14,852	14,113	14,499	17,995
North Carolina	8,507	5,821	3,906	2,763	2,709	2,628	2,394	3,008
North Dakota	2,013	1,594	875	461	352	307	320	489
Ohio	28,898	17,574	9,170	5,506	5,112	4,685	5,040	7,188
Oklahoma	6,832	3,547	2,110	1,581	1,566	1,449	1,551	1,872
Oregon	4,918	3,172	2,158	1,147	851	890	1,195	1,674
Pennsylvania	22,264	17,272	7,825	4,993	4,725	4,818	5,072	7,328
Rhode Island	2,161	1,154	447	252	256	262	297	536
South Carolina	3,089	2,362	1,783	1,314	1,301	1,393	1,273	1,513
South Dakota	1,755	1,180	705	367	308	302	341	488
Tennessee	8,865	5,610	3,317	2,387	2,120	2,051	2,123	2,559
Texas	19,301	13,913	12,127	10,270	10,389	10,427	10,176	11,204
Utah	7,489	4,406	2,792	1,435	1,197	1,281	1,727	1,958
Vermont	932	752	401	342	317	292	194	332
Virginia	10,474	6,914	4,272	3,449	3,280	3,354	2,985	3,875
Washington	8,465	6,198	4,296	2,513	2,171	2,222	2,464	3,505
West Virginia	3,529	2,283	1,387	1,080	1,021	968	1,018	1,219
Wisconsin	14,817	10,017	5,179	3,025	3,147	2,883	3,068	4,498
Wyoming	1,818	1,320	1,021	443	401	408	519	938
Total	486,690	322,309	200,614	144,797	137,208	133,637	138,042	178,475

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2017-2019

(million cubic feet) – continued

State	2017			
	April	March	February	January
Alabama	1,204	2,288	2,075	3,009
Alaska	1,153	2,052	1,857	2,342
Arizona	2,538	2,946	3,408	4,008
Arkansas	3,108	4,498	4,630	6,454
California	17,263	19,968	22,408	29,963
Colorado	4,041	5,210	6,209	9,446
Connecticut	3,818	7,026	6,332	7,504
Delaware	751	1,693	1,504	1,885
District of Columbia	1,088	1,826	1,613	2,127
Florida	5,290	5,716	5,344	6,099
Georgia	2,817	5,420	5,191	7,263
Hawaii	201	211	200	226
Idaho	1,350	1,765	2,492	3,769
Illinois	13,522	25,919	24,486	35,368
Indiana	4,419	9,268	8,353	12,716
Iowa	3,277	5,799	6,003	8,329
Kansas	2,536	3,442	3,454	5,805
Kentucky	1,660	3,883	3,815	5,382
Louisiana	2,057	2,588	2,287	3,168
Maine	695	1,291	1,150	1,304
Maryland	4,284	9,628	8,036	10,372
Massachusetts	7,397	16,154	13,289	15,554
Michigan	11,198	21,859	20,749	26,049
Minnesota	7,465	12,305	12,893	16,943
Mississippi	987	1,776	1,704	2,374
Missouri	3,317	6,534	6,673	10,591
Montana	1,711	2,475	3,028	4,096
Nebraska	2,067	3,233	3,688	5,382
Nevada	2,596	3,089	3,525	4,528
New Hampshire	564	1,439	1,165	1,446
New Jersey	9,270	20,983	18,252	22,474
New Mexico	1,696	1,932	2,446	3,888
New York	21,285	40,877	36,302	41,596
North Carolina	2,997	6,205	5,153	7,633
North Dakota	892	1,644	1,703	2,307
Ohio	8,459	20,894	18,787	25,666
Oklahoma	2,355	3,479	4,396	7,097
Oregon	2,466	3,318	4,110	5,864
Pennsylvania	9,184	20,573	18,873	22,984
Rhode Island	749	1,883	1,501	1,840
South Carolina	1,488	2,489	2,105	2,814
South Dakota	756	1,294	1,344	1,973
Tennessee	2,506	5,230	5,140	7,133
Texas	12,125	14,586	16,435	23,843
Utah	3,171	3,419	4,609	7,780
Vermont	375	774	678	814
Virginia	4,071	8,574	7,248	9,667
Washington	4,786	6,434	7,492	9,551
West Virginia	1,558	2,754	2,535	3,069
Wisconsin	6,319	11,248	10,879	15,389
Wyoming	1,098	1,714	1,885	2,406
Total	211,980	371,604	359,433	479,288

^{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, 2017-2019

(million cubic feet)

State	2019	2018	2017	2019				
	7-Month YTD	7-Month YTD	7-Month YTD	July	June	May	April	March
Alabama	123,143	117,855	114,392	16,572	16,920	17,261	16,691	18,483
Alaska	3,405	3,021	2,761	423	387	404	414	577
Arizona	12,086	11,617	11,419	1,417	1,449	1,664	1,609	1,748
Arkansas	63,591	NA	57,746	8,943	8,365	8,883	8,615	9,620
California	421,339	435,978	431,497	62,933	58,449	61,931	57,521	61,442
Colorado	55,148	51,558	50,414	5,481	5,999	7,398	7,440	9,034
Connecticut	14,236	14,635	14,539	1,717	1,612	1,714	1,801	2,263
Delaware	21,812	NA	16,747	2,633	2,890	2,963	2,788	3,261
District of Columbia	0	0	0	0	0	0	0	0
Florida	NA	62,582	60,263	NA	9,379	10,403	NA	NA
Georgia	NA	91,558	88,543	NA	12,239	12,642	12,565	13,838
Hawaii	52	53	51	8	7	8	8	7
Idaho	21,401	19,427	20,829	2,573	2,624	2,713	2,820	3,378
Illinois	158,436	150,877	147,594	18,015	17,898	20,536	20,339	25,523
Indiana	255,728	NA	219,483	32,496	30,866	34,943	36,327	41,289
Iowa	145,438	144,365	139,896	17,965	19,419	21,113	19,742	22,277
Kansas	NA	77,648	72,716	10,208	9,834	9,117	NA	10,932
Kentucky	69,880	69,193	66,401	8,145	8,154	8,918	9,719	11,840
Louisiana	671,837	NA	624,245	92,702	93,578	99,456	95,452	96,524
Maine	12,058	10,497	10,138	1,367	1,373	1,595	1,744	1,964
Maryland	NA	NA	9,058	NA	1,376	1,041	1,453	1,549
Massachusetts	31,237	30,197	29,206	2,291	3,001	3,893	4,351	5,379
Michigan	108,080	NA	98,706	11,352	11,248	13,447	14,811	19,109
Minnesota	97,220	94,603	97,592	12,026	11,263	12,489	13,849	15,138
Mississippi	76,896	79,809	73,778	11,074	9,947	11,210	11,605	11,561
Missouri	38,125	38,526	36,727	4,263	4,359	4,532	4,942	5,997
Montana	13,186	14,497	11,283	1,803	1,770	1,744	1,732	1,900
Nebraska	48,717	50,518	51,531	7,180	6,554	7,116	6,247	6,577
Nevada	NA	11,874	10,944	1,703	1,514	1,553	1,604	1,736
New Hampshire	6,010	5,959	5,680	708	747	814	877	962
New Jersey	25,918	NA	33,050	3,364	3,535	3,431	3,039	4,298
New Mexico	10,763	10,218	8,820	1,416	1,460	1,557	1,518	1,689
New York	54,348	NA	47,185	6,248	6,079	6,280	7,417	9,072
North Carolina	71,056	NA	60,434	8,777	8,793	9,277	9,812	11,719
North Dakota	22,094	20,113	19,334	3,173	3,316	3,216	3,112	3,228
Ohio	163,040	171,458	162,486	19,229	15,710	20,490	22,527	27,745
Oklahoma	123,459	120,948	116,144	16,295	17,300	18,172	17,606	19,136
Oregon	32,404	31,916	34,266	4,139	4,042	4,430	4,747	5,009
Pennsylvania	NA	135,546	127,090	16,783	16,788	16,919	18,646	NA
Rhode Island	5,298	5,237	5,083	680	666	712	763	794
South Carolina	57,007	NA	52,273	7,927	7,474	7,614	7,893	8,900
South Dakota	NA	NA	26,512	NA	NA	3,571	3,668	4,061
Tennessee	89,133	NA	79,101	11,306	11,843	11,443	12,232	13,900
Texas	1,010,772	1,036,539	966,280	143,258	137,923	140,398	139,263	149,067
Utah	24,736	23,860	23,852	3,016	3,272	3,328	3,624	3,515
Vermont	NA	1,325	1,274	154	169	188	197	233
Virginia	NA	NA	54,984	8,020	7,667	7,971	7,799	NA
Washington	45,318	NA	46,276	5,973	5,746	6,313	6,186	7,076
West Virginia	NA	19,975	21,977	2,780	2,663	3,103	2,890	NA
Wisconsin	97,079	98,427	88,893	10,378	10,231	11,865	13,202	16,629
Wyoming	NA	36,596	31,615	NA	4,527	4,747	NA	5,102
Total	4,839,595	4,827,563	4,581,109	638,900	626,228	666,526	666,613	740,289

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2017-2019

(million cubic feet) – continued

State	2019			2018				
	February	January	Total	December	November	October	September	August
Alabama	17,180	20,035	204,912	19,164	18,564	17,466	15,830	16,032
Alaska	555	646	5,639	594	609	495	508	412
Arizona	1,987	2,212	20,156	2,042	1,900	1,677	1,417	1,503
Arkansas	8,988	10,176	NA	9,948	10,033	9,049	8,243	8,613
California	55,601	63,461	761,086	63,880	61,063	62,404	67,764	69,997
Colorado	9,580	10,216	88,809	9,840	8,869	7,379	5,697	5,466
Connecticut	2,357	2,772	24,853	2,433	2,246	1,947	1,767	1,824
Delaware	3,264	4,014	NA	3,135	NA	2,796	2,149	2,218
District of Columbia	0	0	0	0	0	0	0	0
Florida	9,237	10,811	108,984	10,355	9,559	8,978	8,627	8,884
Georgia	12,445	14,748	158,301	14,347	14,099	12,920	12,205	13,172
Hawaii	7	8	90	7	7	8	7	8
Idaho	3,434	3,859	34,800	3,562	3,477	3,351	2,652	2,332
Illinois	25,626	30,499	263,012	26,043	26,066	22,978	18,707	18,341
Indiana	37,213	42,595	NA	39,877	37,604	NA	29,188	31,836
Iowa	21,850	23,071	249,869	21,781	22,747	21,473	19,143	20,360
Kansas	12,137	12,903	129,468	12,031	11,309	9,098	9,054	10,328
Kentucky	10,429	12,674	117,081	11,380	11,009	9,302	7,896	8,300
Louisiana	93,250	100,875	NA	97,645	93,510	92,332	93,857	94,130
Maine	1,907	2,107	19,189	1,993	1,847	1,801	1,596	1,457
Maryland	1,384	1,669	NA	1,855	1,951	1,431	1,249	1,275
Massachusetts	6,194	6,129	48,248	5,246	4,097	3,623	2,537	2,548
Michigan	17,356	20,758	NA	17,943	17,891	14,884	11,953	11,431
Minnesota	15,714	16,741	160,133	16,384	15,353	11,824	10,824	11,144
Mississippi	10,261	11,239	135,699	11,300	11,492	11,127	10,884	11,087
Missouri	6,627	7,404	65,989	6,492	6,581	5,335	4,427	4,628
Montana	2,084	2,153	25,211	2,234	2,257	2,166	2,047	2,011
Nebraska	7,272	7,771	87,294	7,495	7,981	7,801	6,888	6,611
Nevada	NA	1,679	20,149	1,693	1,579	1,624	1,640	1,738
New Hampshire	960	942	9,886	904	873	778	694	679
New Jersey	4,095	4,156	NA	NA	NA	NA	NA	3,431
New Mexico	1,530	1,593	17,385	1,191	1,583	1,558	1,421	1,414
New York	9,344	9,908	NA	8,754	8,854	7,804	6,247	6,342
North Carolina	10,511	12,166	NA	11,103	10,805	9,903	8,026	9,102
North Dakota	2,810	3,238	35,609	3,473	2,871	3,240	3,024	2,887
Ohio	26,984	30,355	285,034	27,712	24,681	21,740	19,856	19,587
Oklahoma	16,111	18,838	208,738	18,111	17,389	18,371	17,297	16,622
Oregon	4,828	5,210	54,079	4,738	4,595	4,621	4,150	4,059
Pennsylvania	NA	NA	229,992	21,817	20,283	18,660	16,554	17,134
Rhode Island	848	835	8,817	803	771	659	692	656
South Carolina	8,285	8,914	NA	8,810	8,955	8,452	6,986	7,707
South Dakota	4,311	4,253	NA	4,314	4,191	3,671	3,630	3,637
Tennessee	13,467	14,943	NA	13,234	NA	11,940	11,077	11,481
Texas	141,675	159,188	1,787,162	159,707	152,185	141,762	146,321	150,647
Utah	4,008	3,974	39,772	3,688	3,344	2,895	3,045	2,941
Vermont	229	NA	2,284	230	212	195	162	161
Virginia	8,911	8,394	NA	8,519	7,884	7,934	NA	6,586
Washington	6,754	7,271	NA	7,019	5,838	7,018	6,470	5,876
West Virginia	3,105	3,449	34,594	3,153	3,028	2,959	2,585	2,894
Wisconsin	16,850	17,924	166,885	16,606	15,972	13,666	11,038	11,176
Wyoming	5,583	6,814	65,759	6,242	6,344	6,012	5,370	5,195
Total	710,003	791,035	8,285,836	755,975	726,304	671,454	646,642	657,898

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2017-2019

(million cubic feet) – continued

State	2018							2017
	July	June	May	April	March	February	January	Total
Alabama	16,027	16,033	16,618	16,632	17,536	16,146	18,864	196,686
Alaska	415	363	392	352	439	525	535	4,156
Arizona	1,427	1,454	1,581	1,633	1,788	1,766	1,966	19,250
Arkansas	7,861	7,618	8,164	8,862	9,051	8,829	NA	100,251
California	66,120	61,794	63,220	60,237	63,615	57,100	63,893	760,661
Colorado	5,394	5,332	6,156	7,498	8,209	9,232	9,736	84,914
Connecticut	1,785	1,696	1,614	1,905	2,520	2,340	2,776	24,557
Delaware	NA	NA	NA	NA	NA	NA	3,963	29,860
District of Columbia	0	0	0	0	0	0	0	0
Florida	8,589	8,332	8,780	9,002	9,867	7,889	10,123	103,417
Georgia	12,767	12,877	12,780	12,864	14,189	11,966	14,116	150,172
Hawaii	8	8	8	8	7	7	8	85
Idaho ^a	2,285	2,244	2,458	2,541	3,270	3,099	3,529	35,856
Illinois	17,863	16,728	17,685	21,568	24,356	23,803	28,874	258,841
Indiana	33,565	31,796	34,496	34,679	39,247	37,558	NA	379,118
Iowa	19,906	18,735	18,991	20,552	22,276	20,873	23,032	241,187
Kansas	11,250	9,934	10,272	10,951	11,204	11,183	12,855	127,653
Kentucky	8,112	7,834	8,648	9,996	11,328	10,924	12,352	113,582
Louisiana	94,629	95,929	96,531	91,519	93,184	90,394	NA	1,096,400
Maine	1,448	1,189	1,152	1,468	1,703	1,637	1,900	17,698
Maryland	1,352	1,118	1,482	NA	NA	NA	2,093	15,744
Massachusetts	2,551	2,881	3,157	4,917	5,288	5,315	6,089	47,004
Michigan	11,267	11,666	12,204	15,346	18,246	NA	19,443	170,189
Minnesota	11,401	10,875	11,979	13,598	14,896	15,299	16,557	165,901
Mississippi	10,490	11,155	11,533	11,955	11,777	10,772	12,126	128,356
Missouri	4,372	4,346	4,303	5,545	6,225	6,762	6,973	63,158
Montana	2,121	2,044	1,888	1,744	2,099	2,259	2,343	23,393
Nebraska	7,441	6,608	6,627	7,514	7,332	7,357	7,640	89,521
Nevada	1,828	1,534	1,518	1,646	1,851	1,675	1,823	19,269
New Hampshire	686	689	779	871	916	999	1,019	9,499
New Jersey	3,584	3,459	NA	NA	NA	NA	NA	54,298
New Mexico	1,424	1,449	1,603	1,422	1,506	1,314	1,498	15,412
New York	6,275	NA	5,842	8,231	8,806	8,834	9,652	82,779
North Carolina	8,717	8,773	8,942	9,817	11,028	9,460	NA	107,373
North Dakota	2,861	2,761	2,507	3,158	2,898	2,909	3,020	32,127
Ohio	19,531	20,453	21,812	24,820	27,130	27,015	30,698	277,767
Oklahoma	15,301	16,083	17,685	17,743	18,194	17,483	18,458	199,576
Oregon	3,986	4,174	4,314	4,572	5,035	4,610	5,225	57,849
Pennsylvania	17,002	16,727	17,706	20,183	21,739	19,444	22,745	219,028
Rhode Island	623	652	741	809	727	843	842	8,551
South Carolina	7,487	7,579	7,779	8,205	NA	7,598	7,463	91,644
South Dakota	3,530	3,576	3,591	NA	3,942	4,244	4,267	45,481
Tennessee	11,173	11,610	11,132	12,717	12,060	11,933	NA	134,555
Texas	153,149	145,163	150,337	147,085	149,515	134,557	156,733	1,681,634
Utah	2,941	3,152	3,223	3,449	3,361	3,797	3,937	40,007
Vermont	154	156	173	193	219	204	224	2,191
Virginia	7,762	NA	7,771	7,558	8,194	8,179	8,173	94,098
Washington	5,806	5,806	5,935	6,241	NA	7,560	7,651	80,656
West Virginia	2,840	2,508	2,502	2,590	2,917	3,082	3,535	38,358
Wisconsin	10,546	10,590	11,949	14,827	15,964	16,229	18,322	154,920
Wyoming	4,555	4,815	4,599	5,512	5,809	5,504	5,803	54,512
Total	654,616	638,919	660,292	686,787	726,891	689,088	770,972	7,949,199

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2017-2019

(million cubic feet) – continued

State	2017							
	December	November	October	September	August	July	June	May
Alabama	18,546	16,591	15,959	15,361	15,837	15,690	15,792	16,284
Alaska	395	305	239	215	241	200	341	374
Arizona	1,999	1,498	1,573	1,387	1,374	1,331	1,348	1,560
Arkansas	9,549	8,536	8,717	7,766	7,936	7,577	7,754	8,214
California	66,073	62,097	64,587	67,363	69,045	64,345	60,312	62,370
Colorado	9,236	7,830	6,938	5,080	5,415	5,273	5,382	6,685
Connecticut	2,604	2,348	1,664	1,665	1,737	1,750	1,691	1,756
Delaware	2,511	2,534	2,647	2,927	2,492	2,272	2,424	2,316
District of Columbia	0	0	0	0	0	0	0	0
Florida	9,700	8,977	8,841	7,277	8,360	8,082	7,874	8,590
Georgia	13,801	13,207	11,771	10,375	12,475	12,212	12,582	12,594
Hawaii	5	7	7	8	8	7	7	7
Idaho ^a	3,492	3,326	3,248	2,701	2,259	2,470	2,453	2,739
Illinois	28,905	24,949	20,943	18,252	18,199	17,082	17,387	19,237
Indiana	39,292	32,914	29,353	29,286	28,791	28,373	27,048	28,706
Iowa	23,040	21,394	18,916	18,558	19,383	19,224	19,011	19,588
Kansas	12,437	11,451	9,490	10,383	11,177	11,787	10,250	9,317
Kentucky	11,385	10,094	9,133	8,186	8,383	7,998	8,470	9,191
Louisiana	100,026	95,589	93,604	89,667	93,269	90,756	88,608	89,293
Maine	1,892	1,752	1,396	1,291	1,229	1,300	1,200	1,257
Maryland	1,549	1,545	1,255	1,205	1,133	1,183	1,294	1,234
Massachusetts	5,754	4,138	2,860	2,524	2,521	2,494	2,712	3,205
Michigan	19,301	15,375	13,700	11,313	11,794	10,642	10,688	12,253
Minnesota	15,419	14,756	12,890	12,342	12,902	12,244	12,617	12,857
Mississippi	11,839	11,234	10,449	10,432	10,624	10,028	10,107	10,741
Missouri	6,841	5,617	5,105	4,311	4,557	4,367	4,327	4,679
Montana	2,756	2,668	2,668	2,088	1,930	1,817	1,470	1,158
Nebraska	8,325	7,795	7,870	6,724	7,276	7,653	6,272	6,928
Nevada	1,832	1,646	1,737	1,530	1,581	1,454	1,482	1,470
New Hampshire	941	818	725	677	658	680	676	759
New Jersey	4,845	4,086	4,941	3,545	3,830	4,099	4,479	4,363
New Mexico	1,486	1,304	1,327	1,215	1,260	1,265	1,221	1,277
New York	9,123	8,387	6,613	5,711	5,760	5,605	5,445	5,516
North Carolina	10,727	10,190	9,444	8,158	8,420	7,805	8,109	8,311
North Dakota	3,244	2,603	2,658	1,797	2,491	2,506	2,749	2,849
Ohio	29,055	25,226	21,235	20,375	19,389	19,040	18,629	21,099
Oklahoma	17,611	16,344	17,006	16,351	16,119	15,682	15,878	16,580
Oregon	5,265	4,791	4,894	4,363	4,270	4,137	4,399	4,747
Pennsylvania	21,967	20,038	17,812	16,507	15,614	15,801	15,971	16,819
Rhode Island	773	709	641	673	672	644	660	666
South Carolina	8,265	8,536	8,064	7,059	7,447	6,996	7,138	7,435
South Dakota	4,246	3,996	3,530	3,555	3,642	3,589	3,569	3,663
Tennessee	12,987	10,700	10,473	10,403	10,891	10,480	10,639	11,033
Texas	155,675	146,275	142,341	130,756	140,307	142,969	139,976	133,114
Utah	3,874	3,380	2,947	3,048	2,907	3,035	3,112	3,247
Vermont	226	204	166	158	164	158	158	158
Virginia	8,239	8,300	7,583	7,553	7,439	6,704	7,845	7,899
Washington	7,720	6,995	7,290	6,287	6,088	5,935	5,952	6,065
West Virginia	3,596	3,444	3,193	3,046	3,101	2,953	3,005	2,931
Wisconsin	17,463	14,978	12,171	10,461	10,954	10,268	9,988	11,080
Wyoming	5,483	4,635	4,389	4,192	4,199	3,973	4,015	4,380
Total	761,315	696,113	657,005	616,109	637,549	623,935	614,517	628,595

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2017-2019
(million cubic feet) – continued

State	2017			
	April	March	February	January
Alabama	15,914	17,380	15,521	17,810
Alaska	403	473	468	502
Arizona	1,582	1,753	1,780	2,064
Arkansas	7,911	8,428	8,369	9,493
California	60,361	62,969	56,866	64,275
Colorado	7,107	7,806	7,890	10,271
Connecticut	1,848	2,633	2,217	2,644
Delaware	1,837	2,353	2,657	2,888
District of Columbia	0	0	0	0
Florida	8,494	9,403	8,369	9,450
Georgia	11,774	13,764	12,166	13,451
Hawaii	7	8	7	8
Idaho ^a	2,817	3,180	3,273	3,897
Illinois	20,040	23,713	22,906	27,228
Indiana	30,510	34,796	32,500	37,551
Iowa	19,374	21,556	19,552	21,591
Kansas	10,133	10,059	10,103	11,066
Kentucky	9,028	10,431	9,855	11,429
Louisiana	88,029	90,433	82,593	94,532
Maine	1,435	1,634	1,567	1,745
Maryland	1,040	1,535	1,281	1,490
Massachusetts	4,319	5,615	5,144	5,717
Michigan	12,863	17,286	16,158	18,815
Minnesota	13,737	14,916	14,740	16,480
Mississippi	10,451	11,032	10,303	11,114
Missouri	4,834	5,869	5,637	7,014
Montana	1,341	1,731	1,724	2,042
Nebraska	7,076	7,413	7,670	8,520
Nevada	1,526	1,672	1,518	1,821
New Hampshire	853	911	910	892
New Jersey	4,045	5,556	5,033	5,475
New Mexico	1,214	1,122	1,212	1,509
New York	6,385	8,235	7,536	8,464
North Carolina	8,284	9,631	8,662	9,633
North Dakota	2,900	3,045	2,358	2,928
Ohio	22,328	26,700	25,763	28,927
Oklahoma	17,059	17,746	15,395	17,804
Oregon	4,780	5,208	5,093	5,901
Pennsylvania	17,066	21,082	19,076	21,275
Rhode Island	799	716	791	806
South Carolina	7,212	8,092	7,251	8,149
South Dakota	3,632	3,932	3,812	4,314
Tennessee	10,673	11,984	11,690	12,602
Texas	131,927	140,426	132,346	145,522
Utah	3,480	3,390	3,810	3,779
Vermont	167	215	196	222
Virginia	8,037	8,477	8,079	7,943
Washington	6,277	7,011	6,861	8,175
West Virginia	2,734	3,468	3,228	3,658
Wisconsin	11,765	15,105	13,844	16,843
Wyoming	4,591	4,948	4,618	5,089
Total	632,002	696,841	650,397	734,820

^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.

^{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, 2017-2019

(million cubic feet)

State	2019	2018	2017	2019				
	7-Month YTD	7-Month YTD	7-Month YTD	July	June	May	April	March
Alabama	239,018	246,346	216,976	45,202	39,758	37,062	27,418	34,456
Alaska	20,787	19,001	13,497	4,316	2,784	1,796	2,541	3,053
Arizona	188,170	139,157	116,949	40,914	33,239	23,776	25,354	22,739
Arkansas	78,856	88,831	78,246	16,378	13,997	10,517	8,996	9,218
California	287,878	326,023	299,450	58,633	35,336	25,583	28,430	40,034
Colorado	76,287	73,960	55,987	15,266	10,361	9,942	8,995	10,073
Connecticut	80,064	72,307	58,503	16,238	11,400	10,333	10,852	10,050
Delaware	16,444	19,912	28,238	5,528	2,443	1,858	1,821	2,288
District of Columbia	--	--	--	--	--	--	--	--
Florida	753,299	718,510	679,357	133,642	127,793	125,069	96,290	94,135
Georgia	223,956	219,579	212,911	42,532	36,790	33,240	29,292	24,715
Hawaii	--	--	--	--	--	--	--	--
Idaho	13,854	W	10,022	3,600	2,086	727	1,027	1,329
Illinois	90,884	W	67,641	27,251	13,821	8,791	11,625	9,957
Indiana	118,486	108,544	82,834	22,094	17,275	14,494	13,588	16,735
Iowa	28,093	29,527	12,604	7,568	4,287	2,901	2,671	3,604
Kansas	15,621	20,759	12,707	4,219	3,259	3,141	1,609	1,081
Kentucky	58,474	67,688	48,653	11,818	8,090	7,755	6,369	9,004
Louisiana	205,554	178,016	153,634	40,699	37,582	30,166	29,035	22,427
Maine	W	W	W	1,536	842	769	W	875
Maryland	58,496	55,114	26,927	11,910	8,093	7,987	6,856	10,353
Massachusetts	73,983	83,951	96,830	16,887	9,030	6,946	7,825	10,437
Michigan	149,177	151,941	119,072	31,195	19,768	18,852	20,271	19,458
Minnesota	43,312	39,812	29,728	10,561	5,956	4,245	5,670	5,681
Mississippi	198,681	223,829	199,380	40,570	29,475	30,377	24,766	24,102
Missouri	36,463	40,432	24,820	8,944	5,946	5,421	4,238	4,579
Montana	2,741	W	2,636	601	279	237	208	320
Nebraska	W	W	3,288	2,404	741	653	464	567
Nevada	106,026	113,524	110,949	21,770	18,074	12,812	12,362	13,401
New Hampshire	12,302	10,076	14,236	4,249	2,499	272	1,876	1,552
New Jersey	171,603	164,205	164,716	34,906	25,692	21,276	23,593	21,280
New Mexico	55,024	54,129	44,235	10,836	8,470	6,853	7,335	6,783
New York	223,165	230,960	230,101	55,866	32,673	23,871	24,542	26,947
North Carolina	176,177	187,921	161,580	31,281	25,348	23,009	20,383	25,216
North Dakota	4,938	W	5,304	1,227	707	498	604	633
Ohio	203,706	169,438	109,758	35,955	29,732	24,819	26,626	29,435
Oklahoma	179,113	182,964	133,191	41,181	32,166	19,937	19,857	20,243
Oregon	73,991	58,523	36,934	14,891	8,620	3,084	8,230	13,079
Pennsylvania	365,590	296,865	237,639	74,933	56,927	47,413	34,207	50,082
Rhode Island	27,696	W	23,186	5,904	4,504	4,438	3,329	3,749
South Carolina	105,448	89,849	76,970	20,972	17,908	16,324	13,057	11,775
South Dakota	W	W	W	1,664	543	W	W	391
Tennessee	64,568	53,780	44,968	12,050	10,484	10,307	4,388	9,970
Texas	928,065	937,357	782,414	190,674	162,637	140,566	100,102	109,233
Utah	39,640	30,244	23,375	7,596	5,697	5,173	3,782	6,315
Vermont	9	7	7	2	3	--	1	2
Virginia	232,455	202,490	185,143	46,703	38,442	24,755	23,711	31,350
Washington	50,174	42,589	35,949	13,134	6,740	3,145	5,555	6,676
West Virginia	5,671	W	W	2,040	1,209	672	673	413
Wisconsin	89,607	75,962	52,845	18,236	12,945	9,657	12,678	12,247
Wyoming	1,693	W	W	509	197	218	144	217
Total	6,191,430	5,990,606	5,143,475	1,267,083	982,647	822,092	724,048	792,262

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2017-2019

(million cubic feet) – continued

State	2019			2018				
	February	January	Total	December	November	October	September	August
Alabama	27,370	27,750	431,553	29,657	31,156	37,623	43,565	43,207
Alaska	2,907	3,388	33,050	2,493	1,986	2,253	3,245	4,071
Arizona	19,902	22,246	287,022	22,826	21,531	29,186	35,761	38,560
Arkansas	11,323	8,427	142,080	4,925	7,204	14,584	11,685	14,852
California	48,209	51,653	629,469	53,610	55,519	61,611	56,086	76,620
Colorado	11,099	10,552	128,072	10,166	9,937	9,971	11,296	12,743
Connecticut	9,908	11,282	135,450	12,350	12,263	11,625	12,216	14,689
Delaware	1,317	1,189	34,950	1,157	1,534	3,866	3,767	4,715
District of Columbia	--	--	--	--	--	--	--	--
Florida	86,137	90,233	1,280,920	84,630	94,658	121,014	130,881	131,226
Georgia	27,340	30,047	377,421	26,149	24,294	31,444	36,863	39,093
Hawaii	--	--	--	--	--	--	--	--
Idaho	2,433	2,653	22,085	2,296	2,134	998	2,946	2,868
Illinois	9,073	10,365	160,255	6,629	9,696	11,096	16,976	21,600
Indiana	16,540	17,761	185,155	14,523	14,959	13,899	14,853	18,378
Iowa	3,429	3,633	49,657	3,311	2,199	3,095	5,980	5,545
Kansas	1,116	1,195	32,422	971	1,397	2,651	3,021	3,623
Kentucky	6,019	9,419	114,492	6,407	8,993	9,382	11,023	10,999
Louisiana	20,511	25,133	299,490	15,779	16,516	28,324	29,211	31,644
Maine	900	1,039	17,032	609	1,060	1,895	1,208	2,102
Maryland	8,069	5,228	101,163	6,609	5,916	10,430	11,179	11,914
Massachusetts	10,655	12,204	144,031	9,718	8,492	10,009	12,530	19,330
Michigan	18,369	21,264	247,744	16,362	15,088	18,163	21,959	24,231
Minnesota	6,572	4,627	65,650	3,090	3,227	3,740	7,768	8,014
Mississippi	23,871	25,520	364,790	19,543	24,432	24,146	33,807	39,032
Missouri	3,388	3,947	67,697	3,195	4,815	5,914	5,764	7,577
Montana	632	463	4,899	587	483	389	W	617
Nebraska	W	339	10,453	W	W	884	W	1,358
Nevada	13,038	14,570	200,426	13,538	13,701	15,257	20,429	23,976
New Hampshire	607	1,248	21,563	502	1,380	3,203	2,249	4,153
New Jersey	21,945	22,912	294,225	22,025	20,998	23,310	29,373	34,315
New Mexico	7,093	7,654	96,428	9,186	7,195	6,700	8,902	10,317
New York	28,522	30,744	420,296	29,514	30,423	33,418	40,474	55,506
North Carolina	26,309	24,631	333,347	24,407	26,316	29,108	31,035	34,560
North Dakota	605	665	7,145	W	W	620	W	874
Ohio	28,871	28,268	305,814	27,600	26,746	26,726	25,329	29,975
Oklahoma	21,027	24,702	314,498	19,134	21,567	22,265	32,133	36,435
Oregon	12,322	13,765	122,230	12,577	11,799	11,043	13,492	14,797
Pennsylvania	49,353	52,676	546,201	43,819	41,270	48,717	53,918	61,612
Rhode Island	2,767	3,005	51,613	3,817	3,208	5,211	5,379	5,878
South Carolina	12,721	12,691	176,797	10,920	15,988	17,220	22,220	20,600
South Dakota	W	449	8,180	W	W	608	W	1,073
Tennessee	8,384	8,985	99,712	6,638	7,785	9,254	10,989	11,266
Texas	101,043	123,811	1,615,400	109,193	102,609	127,916	153,251	185,073
Utah	5,489	5,588	61,649	5,836	5,311	6,044	6,066	8,147
Vermont	1	1	11	*	1	1	1	*
Virginia	33,433	34,060	356,382	31,191	27,014	22,035	35,404	38,248
Washington	5,596	9,328	78,505	5,160	3,046	5,661	10,127	11,922
West Virginia	247	417	10,754	W	687	1,401	1,875	1,416
Wisconsin	11,585	12,259	135,365	10,041	8,253	10,875	13,920	16,314
Wyoming	277	130	2,146	141	209	201	W	W
Total	769,182	834,116	10,625,694	743,958	756,296	894,986	1,044,507	1,195,340

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2017-2019

(million cubic feet) – continued

State	2018							2017
	July	June	May	April	March	February	January	Total
Alabama	45,373	39,099	39,676	33,462	30,331	24,693	33,711	387,460
Alaska	3,987	2,592	1,991	2,139	3,017	2,393	2,883	27,141
Arizona	37,263	27,153	20,667	17,312	12,787	12,036	11,939	222,843
Arkansas	15,992	14,354	13,253	13,016	10,614	10,514	11,088	133,042
California	84,973	42,832	29,657	32,301	48,607	41,231	46,422	597,171
Colorado	14,696	12,168	10,487	7,543	8,770	9,878	10,417	98,427
Connecticut	14,093	11,464	8,699	8,947	10,374	9,458	9,272	107,213
Delaware	3,337	2,257	3,249	3,279	3,444	2,373	1,973	45,793
District of Columbia	--	--	--	--	--	--	--	*
Florida	132,621	119,193	105,002	96,910	92,076	82,249	90,459	1,196,155
Georgia	42,908	35,966	33,624	22,838	26,745	26,277	31,222	377,452
Hawaii	--	--	--	--	--	--	--	--
Idaho	3,238	1,845	1,018	W	1,132	1,164	1,457	20,214
Illinois	22,152	14,534	15,007	9,179	11,108	W	12,821	116,882
Indiana	19,444	17,035	17,450	13,231	12,630	12,852	15,902	151,820
Iowa	6,249	4,779	5,130	4,460	3,275	2,547	3,088	27,706
Kansas	4,797	4,329	5,045	2,276	1,825	1,149	1,338	23,257
Kentucky	10,957	8,280	9,701	7,394	9,356	7,509	14,489	84,878
Louisiana	34,746	30,123	28,705	20,431	19,561	19,450	25,000	272,156
Maine	2,005	1,506	1,313	918	1,406	W	805	19,088
Maryland	10,930	8,018	10,889	7,213	6,630	7,655	3,779	51,303
Massachusetts	17,622	10,459	8,734	8,496	12,610	13,613	12,417	163,128
Michigan	23,862	19,319	24,189	22,769	23,536	16,719	21,548	216,285
Minnesota	8,732	5,314	5,789	5,800	5,489	3,980	4,707	58,713
Mississippi	39,287	33,059	33,551	29,257	26,674	25,982	36,019	346,990
Missouri	7,849	6,421	6,754	2,756	4,530	7,184	4,937	44,834
Montana	524	280	368	W	273	287	337	5,118
Nebraska	1,626	785	1,313	W	415	274	486	5,531
Nevada	25,305	19,356	14,347	13,231	13,525	13,023	14,737	196,646
New Hampshire	4,186	3,043	850	616	242	223	916	25,975
New Jersey	34,230	24,002	21,642	21,604	23,835	22,040	16,853	278,263
New Mexico	10,711	9,673	8,520	7,315	6,829	5,685	5,395	75,644
New York	51,805	35,828	31,178	26,275	27,334	30,594	27,946	400,403
North Carolina	38,192	29,893	24,829	20,669	27,793	22,479	24,066	285,843
North Dakota	902	552	W	W	575	W	520	10,100
Ohio	29,020	24,168	23,004	21,898	23,049	22,169	26,130	205,619
Oklahoma	41,579	34,900	33,934	20,986	16,138	17,418	18,008	235,574
Oregon	14,196	5,663	3,179	6,488	11,260	7,384	10,352	88,673
Pennsylvania	57,672	46,611	37,153	37,289	41,539	39,647	36,955	440,807
Rhode Island	5,566	4,450	3,927	3,670	3,598	W	3,178	41,128
South Carolina	21,539	17,399	12,351	9,547	10,432	7,073	11,508	135,107
South Dakota	1,207	588	W	W	443	W	549	6,467
Tennessee	11,132	8,768	5,411	5,604	7,150	6,543	9,174	77,410
Texas	202,274	156,865	145,076	100,637	106,900	103,835	121,769	1,383,503
Utah	8,389	4,549	3,814	3,235	3,229	3,245	3,783	40,900
Vermont	2	2	*	2	1	1	--	12
Virginia	38,204	35,359	27,585	19,845	26,513	27,627	27,358	327,126
Washington	12,207	5,656	3,431	4,339	6,190	4,501	6,266	77,234
West Virginia	1,347	868	1,053	1,145	275	W	517	11,295
Wisconsin	16,375	10,964	9,113	7,434	11,291	10,081	10,705	104,470
Wyoming	329	147	W	W	W	145	W	1,268
Total	1,235,633	952,471	853,201	707,388	755,400	701,253	785,260	9,250,066

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2017-2019

(million cubic feet) – continued

State	2017							
	December	November	October	September	August	July	June	May
Alabama	30,027	30,663	31,968	35,935	41,891	43,183	33,599	30,994
Alaska	2,879	2,287	2,739	2,590	3,148	3,075	1,798	1,398
Arizona	15,583	12,775	21,580	24,782	31,174	34,001	27,480	19,077
Arkansas	12,806	6,552	10,535	10,781	14,121	16,802	13,498	13,100
California	50,535	48,013	58,492	62,609	78,072	67,121	49,346	35,394
Colorado	8,882	6,641	6,431	9,209	11,276	12,634	8,919	7,299
Connecticut	10,080	10,253	9,317	8,206	10,854	10,807	7,911	6,513
Delaware	2,622	2,381	3,671	3,758	5,123	5,481	5,034	4,977
District of Columbia	*	--	--	--	--	--	--	--
Florida	86,507	83,018	106,714	112,489	128,071	125,089	109,736	110,008
Georgia	32,831	26,920	29,911	33,691	41,187	39,860	34,495	30,628
Hawaii	--	--	--	--	--	--	--	--
Idaho	2,067	1,608	2,046	2,004	2,466	2,481	1,336	1,018
Illinois	9,016	7,543	8,982	11,325	12,376	15,559	12,488	8,386
Indiana	16,492	12,651	12,159	13,843	13,840	15,322	11,947	7,722
Iowa	3,249	2,098	2,623	3,197	3,935	3,785	1,969	1,450
Kansas	1,582	1,563	2,518	2,034	2,852	4,037	2,604	1,598
Kentucky	8,188	7,550	5,319	6,666	8,501	10,869	7,897	6,451
Louisiana	21,902	15,618	26,045	25,718	29,240	30,216	26,532	23,915
Maine	1,601	W	W	W	W	W	W	W
Maryland	5,044	5,218	3,262	5,952	4,900	5,951	4,624	3,267
Massachusetts	13,410	9,884	12,070	13,431	17,504	17,273	15,120	13,217
Michigan	21,153	16,756	19,250	18,700	21,353	23,797	17,749	15,867
Minnesota	5,661	4,496	5,591	5,964	7,274	8,038	3,957	3,115
Mississippi	31,169	24,528	25,870	29,682	36,360	39,236	30,537	30,306
Missouri	3,383	3,547	W	4,698	4,582	5,821	4,260	2,943
Montana	450	340	434	532	727	634	315	319
Nebraska	284	282	319	588	769	1,513	450	342
Nevada	14,765	14,037	16,823	17,643	22,428	22,970	19,267	14,582
New Hampshire	1,429	1,850	1,668	3,324	3,468	2,923	2,505	1,776
New Jersey	23,081	18,584	21,751	23,629	26,502	31,311	26,603	22,211
New Mexico	6,207	4,903	5,982	6,601	7,717	9,181	8,075	6,116
New York	31,253	27,835	30,115	36,648	44,450	47,146	37,934	28,322
North Carolina	26,844	22,687	22,530	24,699	27,503	28,212	24,265	21,983
North Dakota	993	821	899	973	1,111	1,126	761	628
Ohio	21,547	20,491	15,269	17,640	20,914	21,142	17,010	14,752
Oklahoma	19,103	14,548	18,031	21,568	29,133	34,774	24,995	18,664
Oregon	11,711	8,347	10,577	9,407	11,698	9,828	3,116	2,020
Pennsylvania	33,147	32,340	45,997	44,848	46,837	49,613	38,393	27,745
Rhode Island	3,072	3,304	W	3,926	4,249	4,480	3,817	3,286
South Carolina	9,625	10,191	12,271	12,622	13,429	14,172	11,987	12,820
South Dakota	540	427	543	707	865	1,071	W	352
Tennessee	6,653	5,416	6,291	6,626	7,456	8,614	7,142	3,618
Texas	110,222	88,443	110,054	125,868	166,502	176,441	142,427	111,299
Utah	3,738	1,982	2,017	3,581	6,207	5,218	3,670	2,516
Vermont	1	1	*	1	1	*	1	2
Virginia	27,707	26,263	21,680	31,012	35,320	37,392	33,514	23,226
Washington	8,453	6,714	8,284	7,571	10,262	8,374	3,605	3,452
West Virginia	434	915	2,067	2,064	1,470	1,544	1,047	496
Wisconsin	10,144	8,004	10,295	10,809	12,373	13,683	8,059	5,542
Wyoming	154	90	55	116	219	292	85	W
Total	768,229	662,814	779,799	862,068	1,033,682	1,074,275	854,087	706,151

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2017-2019
(million cubic feet) – continued

State	2017			
	April	March	February	January
Alabama	29,790	30,529	23,174	25,708
Alaska	1,510	1,916	1,470	2,331
Arizona	14,165	7,307	5,396	9,522
Arkansas	11,525	11,030	7,424	4,866
California	27,417	31,506	37,508	51,157
Colorado	7,343	5,826	5,680	8,285
Connecticut	7,058	7,920	8,140	10,154
Delaware	3,096	4,208	2,807	2,635
District of Columbia	--	--	--	--
Florida	93,552	90,505	72,938	77,530
Georgia	24,262	27,563	27,669	28,434
Hawaii	--	--	--	--
Idaho	1,049	1,324	1,077	1,738
Illinois	6,401	10,068	7,394	7,345
Indiana	9,715	14,366	11,093	12,669
Iowa	1,609	1,256	952	1,583
Kansas	1,520	1,451	621	874
Kentucky	6,616	7,421	4,293	5,106
Louisiana	20,939	21,216	15,835	14,982
Maine	W	W	W	1,402
Maryland	3,780	4,637	2,708	1,960
Massachusetts	13,630	13,567	11,524	12,498
Michigan	13,869	19,052	12,299	16,439
Minnesota	2,990	3,813	2,922	4,893
Mississippi	25,274	29,604	18,842	25,581
Missouri	2,696	3,538	2,583	2,978
Montana	333	343	288	404
Nebraska	210	358	143	273
Nevada	11,945	12,837	13,168	16,181
New Hampshire	3,572	1,464	893	1,104
New Jersey	20,150	26,548	17,255	20,637
New Mexico	4,531	5,096	5,004	6,231
New York	25,663	33,506	26,606	30,926
North Carolina	18,297	24,879	21,931	22,013
North Dakota	628	675	624	862
Ohio	11,832	15,964	13,968	15,089
Oklahoma	16,848	12,971	10,845	14,093
Oregon	2,330	3,256	5,735	10,649
Pennsylvania	25,534	32,555	30,334	33,465
Rhode Island	3,093	2,987	2,638	2,887
South Carolina	11,209	9,993	8,927	7,863
South Dakota	W	452	270	490
Tennessee	6,468	8,876	5,105	5,144
Texas	97,943	93,567	75,007	85,730
Utah	2,195	2,210	2,677	4,889
Vermont	*	2	1	2
Virginia	19,393	26,434	22,401	22,783
Washington	4,295	4,373	4,100	7,748
West Virginia	W	W	W	W
Wisconsin	5,611	7,853	5,223	6,873
Wyoming	55	W	27	97
Total	623,889	678,970	558,740	647,362

^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, 2017-2019

(million cubic feet)

State	2019	2018	2017	2019				
	7-Month YTD	7-Month YTD	7-Month YTD	July	June	May	April	March
Alabama	NA	402,415	358,415	NA	58,800	NA	47,405	59,557
Alaska	NA	41,988	37,593	NA	NA	NA	NA	NA
Arizona	253,447	NA	171,807	45,800	38,594	30,287	32,780	34,151
Arkansas	NA	NA	178,634	28,919	25,824	24,132	23,597	NA
California	1,169,594	1,184,419	1,154,621	161,049	132,677	139,134	136,005	178,737
Colorado	258,673	237,839	207,984	25,630	22,580	28,746	30,639	47,045
Connecticut	165,243	156,657	137,024	21,642	16,840	17,551	20,794	26,912
Delaware	55,481	NA	58,956	9,131	6,259	6,014	6,204	9,143
District of Columbia	NA	NA	17,582	925	1,005	1,271	1,838	3,690
Florida	NA	830,890	785,796	NA	143,037	141,892	NA	NA
Georgia	NA	425,536	391,709	NA	55,653	53,264	52,341	59,958
Hawaii	1,950	1,932	1,836	290	253	279	279	278
Idaho	64,030	56,248	59,648	7,502	6,196	5,517	7,015	10,326
Illinois	687,003	672,563	572,446	61,265	50,001	60,327	80,821	127,381
Indiana	520,726	NA	418,328	59,125	53,336	57,488	63,918	90,622
Iowa	NA	252,653	218,802	NA	26,833	29,115	30,801	43,060
Kansas	NA	165,862	138,229	17,381	16,098	16,137	NA	26,059
Kentucky	181,671	192,751	157,583	21,976	18,387	19,237	20,291	32,852
Louisiana	920,467	NA	810,030	136,518	134,451	133,362	129,427	126,594
Maine	26,707	NA	28,123	3,222	2,635	3,075	3,168	4,510
Maryland	NA	NA	125,631	NA	14,382	15,929	16,584	32,754
Massachusetts	256,390	273,909	269,152	25,614	18,676	22,561	29,934	47,470
Michigan	596,014	NA	494,837	53,289	44,529	56,082	75,200	111,902
Minnesota	306,198	NA	263,063	27,914	24,635	28,348	38,851	54,547
Mississippi	301,373	330,642	293,206	53,154	40,799	43,098	38,837	41,030
Missouri	189,176	193,211	147,500	17,200	14,502	16,190	18,606	35,038
Montana	NA	NA	40,495	3,974	4,065	NA	5,525	8,941
Nebraska	104,207	105,765	94,646	11,637	9,497	11,390	11,462	17,795
Nevada	NA	171,431	169,717	26,811	23,422	18,974	19,664	25,221
New Hampshire	29,915	26,993	30,001	5,320	3,668	1,904	4,082	4,926
New Jersey	444,041	NA	428,603	49,955	40,960	41,530	51,784	78,333
New Mexico	104,734	99,356	84,869	14,109	12,067	11,510	12,891	15,228
New York	793,756	NA	743,983	87,340	65,240	69,775	90,198	146,881
North Carolina	NA	NA	285,409	43,213	NA	NA	36,631	53,090
North Dakota	46,402	NA	38,908	4,932	4,632	5,062	5,835	7,838
Ohio	668,758	632,630	515,228	65,274	56,186	63,119	80,723	125,117
Oklahoma	377,462	374,689	301,964	60,487	52,864	42,553	43,929	54,989
Oregon	154,916	NA	120,059	21,021	15,207	10,739	18,754	28,069
Pennsylvania	NA	699,843	591,111	100,793	83,846	80,154	77,911	NA
Rhode Island	53,654	53,541	46,873	7,165	5,925	6,574	6,405	9,085
South Carolina	195,052	NA	156,252	30,690	27,268	26,032	24,337	27,015
South Dakota	NA	NA	43,933	NA	NA	5,264	6,192	8,145
Tennessee	231,411	NA	182,622	26,856	25,950	25,856	23,237	40,685
Texas	2,212,178	NA	1,956,269	350,886	318,166	300,853	272,459	312,902
Utah	NA	NA	110,262	14,058	12,320	NA	13,647	23,615
Vermont	NA	7,987	7,089	592	626	727	1,065	1,608
Virginia	NA	NA	326,946	59,305	51,091	38,244	40,449	NA
Washington	184,604	NA	173,842	23,410	17,534	15,727	22,493	31,007
West Virginia	NA	NA	52,962	6,161	5,165	5,620	6,570	NA
Wisconsin	346,129	326,017	275,029	33,746	29,614	33,388	44,967	61,304
Wyoming	NA	56,080	49,277	NA	5,922	6,846	NA	9,321
Total	16,443,417	16,111,409	14,324,885	2,165,856	1,885,880	1,888,999	1,968,190	2,645,667

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2017-2019

(million cubic feet) – continued

State	2019			2018				
	February	January	Total	December	November	October	September	August
Alabama	50,587	60,411	698,910	58,796	57,508	57,874	61,167	61,149
Alaska	NA	NA	NA	NA	6,193	5,055	5,142	5,630
Arizona	33,895	37,941	NA	35,279	30,164	35,133	40,524	43,399
Arkansas	31,419	32,476	NA	26,501	26,591	28,833	23,481	27,017
California	210,308	211,684	NA	211,685	179,926	168,900	161,684	NA
Colorado	50,103	53,931	408,565	53,402	42,225	30,398	21,999	22,702
Connecticut	28,281	33,222	272,077	30,131	26,968	20,327	17,736	20,259
Delaware	8,571	10,160	NA	8,036	NA	8,274	6,869	7,875
District of Columbia	NA	4,663	NA	4,031	3,344	1,825	985	1,213
Florida	103,301	110,108	1,470,666	103,183	110,632	135,533	145,024	145,403
Georgia	61,725	80,103	725,984	70,368	62,485	53,861	55,136	58,597
Hawaii	268	302	3,281	273	266	272	257	281
Idaho	13,162	14,312	103,004	13,830	11,545	7,567	7,269	6,544
Illinois	140,675	166,532	1,101,451	126,892	119,967	73,447	52,602	55,980
Indiana	89,932	106,304	NA	87,782	82,270	NA	49,344	54,641
Iowa	46,411	50,642	424,911	42,880	40,408	32,128	28,159	28,683
Kansas	32,354	34,435	272,693	29,896	26,653	17,899	15,377	17,006
Kentucky	29,331	39,597	320,833	30,666	31,621	23,659	20,995	21,141
Louisiana	121,789	138,326	NA	123,234	118,430	125,059	126,599	128,940
Maine	4,748	5,348	NA	4,464	4,462	4,542	3,190	NA
Maryland	32,950	34,674	NA	30,484	26,111	21,426	17,528	18,330
Massachusetts	51,358	60,777	439,392	49,049	40,543	25,511	22,091	28,290
Michigan	116,547	138,464	NA	109,859	96,612	66,608	45,183	47,680
Minnesota	65,199	66,704	NA	55,304	48,332	32,216	24,769	24,525
Mississippi	39,360	45,096	544,802	37,564	41,330	37,575	46,063	51,628
Missouri	40,780	46,860	316,832	37,354	35,495	20,505	14,240	16,026
Montana	11,639	9,640	NA	9,635	8,165	6,054	4,095	3,917
Nebraska	21,229	21,197	174,884	18,785	17,183	13,035	10,407	9,709
Nevada	NA	29,282	295,852	26,329	22,582	21,310	25,469	28,731
New Hampshire	4,364	5,651	48,987	4,168	4,521	4,678	3,400	5,227
New Jersey	85,396	96,084	NA	NA	NA	NA	NA	48,037
New Mexico	17,953	20,976	NA	NA	NA	12,311	12,236	13,779
New York	151,579	182,744	NA	145,958	130,890	87,435	72,803	86,732
North Carolina	53,292	61,724	NA	56,365	54,622	45,528	42,450	46,830
North Dakota	8,936	9,168	NA	8,128	7,005	6,104	4,470	4,290
Ohio	128,978	149,361	1,060,270	123,712	112,441	76,735	55,430	59,322
Oklahoma	56,647	65,993	636,821	55,974	53,117	44,995	52,259	55,786
Oregon	30,253	30,873	NA	29,032	25,074	20,302	20,087	20,776
Pennsylvania	NA	NA	1,196,610	125,911	111,299	91,054	80,366	88,137
Rhode Island	8,547	9,954	92,593	9,443	7,773	7,895	6,741	7,199
South Carolina	27,801	31,910	NA	28,663	31,952	28,523	30,919	30,102
South Dakota	9,630	9,373	NA	8,540	7,491	6,062	5,404	5,197
Tennessee	38,829	49,999	NA	41,120	NA	26,752	25,472	25,751
Texas	303,571	353,341	NA	326,352	296,756	289,903	315,244	350,915
Utah	26,921	29,685	NA	28,943	22,930	16,620	12,161	13,911
Vermont	1,797	NA	13,515	1,785	1,523	991	636	593
Virginia	66,170	73,142	NA	63,228	50,755	38,813	NA	49,660
Washington	36,590	37,842	NA	32,922	24,920	23,029	21,811	21,701
West Virginia	9,978	12,658	NA	10,389	9,613	7,302	5,808	5,664
Wisconsin	67,323	75,787	543,599	59,991	54,294	39,610	31,039	32,648
Wyoming	10,203	11,111	97,873	11,421	9,851	8,119	6,327	6,076
Total	2,756,533	3,132,292	27,405,168	2,721,388	2,463,484	2,059,861	1,951,602	2,097,423

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2017-2019

(million cubic feet) – continued

State	2018							2017
	July	June	May	April	March	February	January	Total
Alabama	63,229	57,003	58,602	54,593	54,531	46,883	67,575	633,536
Alaska	5,339	4,217	4,231	5,165	7,405	7,496	8,135	67,102
Arizona	42,155	NA	NA	NA	NA	NA	NA	308,987
Arkansas	27,111	25,341	25,355	28,688	29,316	30,322	NA	306,547
California	188,258	144,413	139,102	145,275	192,850	179,123	195,398	2,048,294
Colorado	24,288	21,989	25,148	29,704	37,490	47,842	51,378	355,187
Connecticut	19,539	16,938	14,915	21,438	27,151	25,234	31,441	232,737
Delaware	NA	NA	NA	NA	NA	NA	NA	98,913
District of Columbia	1,077	1,158	1,084	2,212	3,801	3,548	NA	29,055
Florida	146,612	133,402	120,013	112,901	109,649	97,657	110,659	1,376,529
Georgia	61,827	55,049	53,633	48,665	63,140	55,695	87,527	689,147
Hawaii	277	270	266	276	273	261	309	3,104
Idaho	6,788	5,510	5,089	6,724	9,648	10,709	11,781	104,810
Illinois	56,141	48,732	55,346	97,499	118,702	130,933	165,211	969,718
Indiana	57,518	53,064	58,721	69,062	82,594	81,419	NA	730,238
Iowa	28,712	26,520	28,156	37,050	40,324	42,377	49,515	378,999
Kansas	18,802	17,364	18,851	22,867	24,290	29,161	34,526	240,053
Kentucky	20,796	17,893	20,920	24,607	32,219	29,689	46,628	274,656
Louisiana	132,491	129,199	128,839	116,872	118,634	116,497	NA	1,426,152
Maine	NA	3,097	2,998	3,501	4,665	5,428	4,888	48,461
Maryland	17,280	14,955	NA	NA	NA	NA	35,173	215,283
Massachusetts	26,319	20,165	20,665	35,984	51,556	56,708	62,512	441,202
Michigan	45,758	42,206	54,126	90,679	112,839	NA	134,291	848,731
Minnesota	25,256	22,349	NA	43,816	50,991	59,746	66,494	448,431
Mississippi	51,156	45,582	46,696	44,187	42,546	41,234	59,240	511,522
Missouri	15,993	14,713	15,980	24,566	32,362	40,619	48,979	253,061
Montana	3,733	3,698	4,326	6,221	NA	9,727	9,847	73,367
Nebraska	11,097	9,442	11,181	15,858	16,573	19,754	21,860	158,234
Nevada	30,255	24,533	20,196	20,387	24,697	24,399	26,963	291,219
New Hampshire	5,231	4,167	2,155	3,082	3,565	3,441	5,351	51,997
New Jersey	48,643	39,460	NA	NA	NA	NA	NA	703,505
New Mexico	13,806	12,997	12,478	12,326	15,822	14,549	17,377	144,797
New York	84,057	NA	70,869	111,185	142,375	139,857	175,515	1,230,272
North Carolina	50,014	41,905	37,506	39,805	57,983	45,926	NA	507,118
North Dakota	4,244	3,961	NA	6,553	NA	7,642	8,048	66,201
Ohio	58,009	54,287	55,592	92,247	115,821	109,312	147,362	900,058
Oklahoma	59,438	53,755	55,160	47,925	45,230	53,683	59,499	524,660
Oregon	20,127	12,424	10,408	16,963	25,247	NA	25,832	226,396
Pennsylvania	83,816	73,067	66,820	95,011	126,654	112,473	142,002	1,025,040
Rhode Island	6,851	5,803	5,440	7,517	9,077	8,538	10,315	79,562
South Carolina	30,768	26,818	22,337	21,418	NA	20,214	31,718	274,328
South Dakota	5,241	4,756	NA	NA	NA	8,641	9,384	74,907
Tennessee	25,657	24,008	21,349	28,912	NA	34,369	NA	318,011
Texas	369,419	317,008	315,416	274,808	299,947	293,452	NA	3,398,560
Utah	14,257	11,266	NA	14,135	21,781	20,716	24,554	189,225
Vermont	586	617	612	1,235	1,511	1,469	1,958	11,922
Virginia	51,105	NA	40,915	39,434	58,482	54,797	NA	567,057
Washington	22,220	16,636	15,068	22,452	NA	31,303	33,569	309,587
West Virginia	5,512	4,803	NA	8,400	10,702	9,659	13,542	94,497
Wisconsin	32,076	27,067	28,977	46,911	57,013	62,515	71,457	480,976
Wyoming	5,538	5,851	6,342	8,543	9,793	9,801	10,212	82,336
Total	2,134,810	1,854,260	1,846,899	2,134,842	2,556,271	2,500,614	3,083,713	24,824,284

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2017-2019

(million cubic feet) – continued

State	2017							
	December	November	October	September	August	July	June	May
Alabama	58,705	52,507	51,120	53,284	59,505	60,613	51,195	49,493
Alaska	7,777	7,037	5,747	4,408	4,540	4,327	3,327	3,611
Arizona	25,781	19,193	27,065	29,466	35,675	38,540	32,356	24,948
Arkansas	34,479	21,990	23,874	22,056	25,514	27,659	24,627	25,359
California	209,200	167,614	168,017	165,626	183,216	167,601	147,140	143,129
Colorado	47,843	32,413	25,884	19,771	21,291	22,248	19,040	23,360
Connecticut	28,386	22,629	15,209	13,453	16,036	16,071	13,297	13,235
Delaware	9,367	7,332	7,403	7,509	8,346	8,403	8,226	8,364
District of Columbia	5,148	2,408	1,506	1,205	1,206	1,222	1,278	1,622
Florida	104,113	98,545	121,395	125,040	141,640	138,404	123,194	124,599
Georgia	77,578	57,534	51,820	50,492	60,014	58,267	53,488	50,845
Hawaii	259	257	249	250	253	244	270	244
Idaho	13,771	9,941	8,950	6,498	6,001	6,188	5,120	5,844
Illinois	143,381	99,160	61,477	46,494	46,759	49,042	46,656	57,270
Indiana	95,968	68,416	52,073	48,404	47,049	48,033	43,858	45,350
Iowa	45,445	35,968	28,090	24,688	26,006	25,638	24,013	25,761
Kansas	30,096	23,014	16,578	15,283	16,853	18,430	15,666	14,480
Kentucky	35,789	26,722	18,529	17,218	18,816	20,641	18,255	18,179
Louisiana	132,127	116,532	123,403	118,419	125,642	124,012	118,370	116,680
Maine	5,531	4,388	3,422	3,450	3,547	3,824	3,341	3,238
Maryland	33,267	22,801	10,808	12,139	10,636	12,342	10,747	11,723
Massachusetts	60,043	37,900	24,547	22,926	26,633	26,242	25,133	28,267
Michigan	124,966	86,103	55,775	43,045	44,004	44,647	40,497	50,650
Minnesota	59,913	45,436	30,511	23,942	25,566	25,432	22,701	25,883
Mississippi	49,854	39,515	38,668	41,755	48,523	50,682	42,080	42,884
Missouri	39,768	25,416	14,056	13,189	13,132	13,900	12,764	13,817
Montana	10,357	8,186	6,371	4,266	3,691	3,465	3,012	3,474
Nebraska	18,969	15,090	11,290	8,945	9,294	10,884	8,778	10,291
Nevada	27,143	21,494	23,082	22,731	27,051	27,680	24,437	20,450
New Hampshire	5,492	4,498	3,048	4,408	4,550	3,942	3,606	3,307
New Jersey	95,136	57,581	44,492	38,167	39,526	45,873	43,761	44,096
New Mexico	17,116	11,383	10,681	9,823	10,924	12,343	11,255	10,071
New York	162,415	110,597	69,247	68,377	75,654	77,970	72,097	72,823
North Carolina	60,558	46,758	38,011	36,736	39,646	39,801	35,827	34,837
North Dakota	8,187	6,406	5,102	3,466	4,132	4,094	4,021	4,312
Ohio	132,665	94,369	57,973	49,278	50,545	49,665	46,100	53,118
Oklahoma	55,594	39,415	38,710	40,809	48,168	53,129	43,774	39,046
Oregon	30,130	21,657	20,801	16,130	17,619	15,743	10,063	10,610
Pennsylvania	119,724	92,549	79,557	70,996	71,103	74,476	64,582	61,436
Rhode Island	9,502	7,228	5,117	5,247	5,595	5,810	5,246	5,296
South Carolina	26,832	24,073	22,960	21,544	22,667	23,128	20,932	22,433
South Dakota	8,717	6,885	5,462	4,873	5,036	5,157	4,622	4,985
Tennessee	42,617	28,586	22,009	20,697	21,479	22,182	21,100	18,960
Texas	311,224	262,223	272,675	273,151	323,018	336,221	298,771	263,747
Utah	28,155	16,769	12,314	9,914	11,811	11,244	10,765	10,643
Vermont	1,747	1,257	679	589	561	533	485	679
Virginia	62,562	49,634	36,457	43,767	47,691	49,173	46,203	37,565
Washington	39,647	30,537	26,383	18,860	20,319	18,381	14,295	17,118
West Virginia	12,036	9,256	7,666	6,678	5,900	5,824	5,398	5,408
Wisconsin	67,642	48,341	33,934	27,042	28,987	29,148	23,918	27,096
Wyoming	9,258	7,329	6,419	5,019	5,033	4,887	4,995	6,172
Total	2,841,983	2,152,873	1,846,618	1,741,521	1,916,404	1,943,403	1,734,683	1,716,805

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2017-2019
(million cubic feet) – continued

State	2017			
	April	March	February	January
Alabama	48,288	53,399	44,023	51,405
Alaska	4,538	7,108	6,317	8,365
Arizona	20,879	15,951	16,640	22,493
Arkansas	23,715	26,912	23,804	26,558
California	136,563	156,928	172,459	230,802
Colorado	27,374	30,709	34,486	50,767
Connecticut	16,255	25,424	23,889	28,853
Delaware	6,295	9,944	8,364	9,359
District of Columbia	1,795	3,717	3,377	4,569
Florida	108,787	107,284	88,431	95,097
Georgia	44,648	59,656	57,498	67,305
Hawaii	256	271	259	292
Idaho	7,245	8,952	10,682	15,617
Illinois	63,296	111,839	102,317	142,027
Indiana	51,729	75,599	67,304	86,454
Iowa	28,310	36,675	34,889	43,515
Kansas	17,271	21,421	20,858	30,105
Kentucky	19,348	27,395	23,571	30,194
Louisiana	112,748	116,954	103,637	117,629
Maine	3,684	4,957	4,181	4,898
Maryland	12,520	27,258	23,067	27,975
Massachusetts	34,077	55,593	46,521	53,319
Michigan	56,797	101,213	87,669	113,364
Minnesota	32,514	47,705	47,075	61,753
Mississippi	37,527	44,572	32,966	42,494
Missouri	15,304	26,265	25,902	39,548
Montana	4,993	6,781	8,018	10,754
Nebraska	11,592	15,168	16,189	21,745
Nevada	19,042	22,180	24,634	31,294
New Hampshire	5,476	5,007	3,976	4,686
New Jersey	48,294	87,199	70,997	88,382
New Mexico	9,536	11,134	12,867	17,664
New York	84,599	151,049	131,130	154,315
North Carolina	31,908	48,901	42,892	51,243
North Dakota	5,157	6,839	6,262	8,224
Ohio	56,698	101,096	91,837	116,713
Oklahoma	39,049	39,004	37,127	50,835
Oregon	13,365	16,941	21,366	31,971
Pennsylvania	65,571	108,014	99,298	117,733
Rhode Island	5,843	8,722	7,452	8,504
South Carolina	21,094	23,847	21,206	23,613
South Dakota	5,596	7,217	7,095	9,262
Tennessee	22,038	33,006	29,179	36,157
Texas	251,777	264,981	246,261	294,512
Utah	13,851	14,753	18,550	30,457
Vermont	854	1,562	1,382	1,594
Virginia	35,360	54,617	48,190	55,838
Washington	22,439	28,292	30,950	42,367
West Virginia	5,995	10,234	9,036	11,068
Wisconsin	32,142	52,868	47,205	62,651
Wyoming	6,748	8,207	8,329	9,939
Total	1,750,781	2,331,317	2,151,615	2,696,281

^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.

^{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, 2017-2019
(dollars per thousand cubic feet)

State	2019	2018	2017	2019				
	7-Month YTD	7-Month YTD	7-Month YTD	July	June	May	April	March
Alabama	NA	NA	3.94	3.31	NA	3.74	3.48	3.59
Alaska	8.16	7.69	7.23	8.76	8.53	8.27	8.40	8.14
Arizona	NA	3.85	4.38	1.36	NA	NA	NA	3.03
Arkansas	NA	4.21	4.79	NA	NA	NA	4.98	4.09
California	3.05	NA	3.53	2.34	2.33	2.12	2.56	3.57
Colorado	3.61	3.40	3.93	3.33	3.75	3.02	3.44	3.81
Connecticut	5.46	5.20	4.62	8.55	8.73	6.69	5.58	4.70
Delaware	5.63	5.42	5.38	11.96	11.41	8.84	7.38	4.97
District of Columbia	--	--	--	--	--	--	--	--
Florida	NA	NA	5.75	NA	6.89	6.20	7.29	7.42
Georgia	3.98	3.80	4.27	3.59	3.81	3.83	3.92	3.83
Hawaii	17.96	20.19	16.10	16.81	17.26	21.98	21.85	18.51
Idaho	NA	NA	3.10	NA	NA	2.20	2.03	3.15
Illinois	3.42	3.55	3.86	2.95	2.81	2.63	3.05	3.96
Indiana	NA	3.79	3.96	3.83	3.90	NA	3.37	3.83
Iowa	NA	3.87	4.33	3.16	3.39	NA	NA	4.13
Kansas	3.93	3.97	4.57	4.83	5.83	4.76	4.20	3.99
Kentucky	NA	3.82	4.07	2.93	3.41	NA	3.80	3.51
Louisiana	NA	3.96	4.08	3.23	3.42	NA	3.48	4.02
Maine	NA	7.97	6.45	5.03	4.57	NA	5.32	7.41
Maryland	5.00	4.66	4.83	9.06	7.94	7.10	6.32	4.57
Massachusetts	NA	6.33	5.06	NA	NA	6.37	4.95	5.05
Michigan	NA	3.36	3.65	NA	2.81	2.81	3.10	3.41
Minnesota	NA	3.69	4.07	3.88	4.19	NA	3.09	4.52
Mississippi	3.97	4.03	4.45	3.53	3.86	3.96	4.03	3.93
Missouri	4.27	4.12	4.72	7.84	7.28	6.20	4.69	3.92
Montana	NA	NA	3.48	2.60	3.27	NA	2.71	3.27
Nebraska	3.90	3.84	4.29	3.77	3.17	3.34	3.44	4.17
Nevada	NA	3.48	4.34	3.34	3.13	2.80	3.32	4.30
New Hampshire	6.26	NA	5.61	7.48	6.67	3.99	4.03	5.37
New Jersey	NA	4.59	4.45	NA	4.43	4.30	4.84	4.79
New Mexico	NA	3.05	3.67	1.88	NA	NA	NA	2.62
New York	4.29	4.45	4.14	8.32	7.30	5.15	4.09	3.62
North Carolina	4.01	3.78	4.12	5.82	5.02	5.86	4.36	3.75
North Dakota	3.73	NA	4.29	3.35	3.49	3.08	3.39	3.98
Ohio	NA	NA	3.91	NA	3.68	3.74	3.54	3.67
Oklahoma	3.82	3.68	4.58	4.11	4.35	3.93	3.80	3.91
Oregon	3.67	3.81	3.92	5.03	4.20	3.90	3.03	3.74
Pennsylvania	NA	4.15	4.37	NA	7.37	5.79	4.84	4.71
Rhode Island	2.58	2.30	2.21	2.49	2.53	2.55	2.59	2.60
South Carolina	4.02	4.15	4.28	3.47	3.67	3.91	4.14	4.17
South Dakota	NA	NA	4.16	NA	3.85	2.97	3.31	4.10
Tennessee	3.74	3.96	4.18	3.63	4.06	3.57	3.82	3.72
Texas	3.24	NA	4.79	2.80	2.54	2.32	3.36	3.18
Utah	NA	NA	5.33	2.83	2.86	NA	4.07	5.34
Vermont	4.14	4.73	5.21	3.57	3.56	3.69	4.01	4.27
Virginia	4.65	NA	4.57	6.72	6.78	6.67	5.46	4.18
Washington	NA	3.20	3.63	3.89	3.48	3.70	3.41	NA
West Virginia	3.84	NA	3.89	5.39	4.84	4.44	3.90	3.71
Wisconsin	4.02	4.02	4.30	3.72	4.18	3.90	3.65	4.17
Wyoming	NA	3.71	3.97	1.67	NA	NA	3.02	3.80
Total	3.93	4.04	4.20	4.15	4.06	3.66	3.69	4.01

See footnotes at end of table.

Table 19. Average citygate price, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2019							2018
	February	January	Total	December	November	October	September	August
Alabama	3.65	3.99	NA	4.80	3.87	4.06	3.71	3.70
Alaska	8.25	7.76	7.34	6.91	6.91	6.73	6.58	6.34
Arizona	2.97	3.30	NA	3.02	3.39	2.87	2.67	NA
Arkansas	3.83	3.91	4.42	4.80	4.46	4.77	5.67	5.81
California	3.71	3.28	NA	NA	3.31	2.73	3.24	NA
Colorado	3.59	3.79	3.63	4.05	3.97	3.45	4.38	4.40
Connecticut	4.70	4.98	5.55	5.88	5.30	5.92	7.99	7.94
Delaware	4.54	4.37	NA	5.03	5.44	NA	10.97	10.35
District of Columbia	--	--	--	--	--	--	--	--
Florida	7.95	7.05	NA	7.29	7.79	7.17	7.11	7.00
Georgia	4.00	4.35	4.03	5.35	4.13	4.03	3.91	3.74
Hawaii	15.60	13.97	19.63	16.51	18.18	21.26	20.04	18.48
Idaho	NA	2.43	NA	2.93	2.70	2.17	2.49	2.15
Illinois	3.24	3.58	3.69	3.89	4.06	3.70	3.58	4.27
Indiana	3.47	3.69	3.87	3.98	3.96	3.83	4.21	4.83
Iowa	3.74	4.00	4.11	4.83	4.55	3.92	4.34	4.47
Kansas	3.28	3.70	4.21	4.69	3.94	4.45	7.03	5.44
Kentucky	3.46	3.59	3.88	4.44	3.81	3.74	3.57	3.51
Louisiana	4.16	4.52	4.00	4.47	4.33	3.93	3.69	3.50
Maine	8.15	8.55	8.00	9.87	8.18	5.09	6.37	7.06
Maryland	4.63	4.39	5.02	6.25	4.69	5.52	6.49	6.41
Massachusetts	4.79	4.93	NA	6.35	5.32	5.65	10.28	NA
Michigan	3.37	3.55	3.48	4.16	3.50	3.34	3.17	3.12
Minnesota	NA	4.45	NA	5.02	4.64	3.61	4.10	NA
Mississippi	3.96	4.09	4.24	5.13	4.79	4.24	3.69	3.45
Missouri	3.71	3.92	4.40	4.91	4.25	4.60	6.60	7.20
Montana	2.89	3.21	NA	3.26	2.75	2.27	NA	3.13
Nebraska	3.70	4.29	4.08	4.88	4.41	3.79	4.07	4.53
Nevada	NA	4.25	3.99	5.65	4.70	3.65	3.70	3.01
New Hampshire	6.36	7.99	NA	7.29	6.86	4.93	8.57	9.77
New Jersey	5.02	4.75	4.63	4.79	4.69	4.55	4.69	4.96
New Mexico	NA	3.45	3.05	3.42	2.82	2.54	2.77	3.25
New York	3.58	4.35	4.71	4.55	4.71	5.04	8.30	8.49
North Carolina	3.55	3.76	4.13	4.78	4.33	4.59	5.65	5.75
North Dakota	3.53	4.13	NA	4.91	4.15	3.39	NA	NA
Ohio	3.84	3.99	NA	NA	NA	NA	3.34	2.86
Oklahoma	3.58	3.87	NA	NA	3.53	4.01	4.27	4.41
Oregon	3.83	3.27	3.90	3.44	4.17	3.94	5.01	5.53
Pennsylvania	4.13	4.39	NA	5.14	4.83	4.68	7.17	NA
Rhode Island	2.59	2.58	2.37	2.55	2.49	2.46	2.43	2.41
South Carolina	4.19	4.45	NA	5.33	NA	4.30	4.15	4.09
South Dakota	3.51	4.12	NA	4.83	4.20	3.59	NA	4.68
Tennessee	3.52	3.87	4.11	4.77	4.20	3.93	4.12	3.86
Texas	3.38	3.60	NA	4.61	4.62	4.90	4.96	4.75
Utah	5.70	5.53	NA	5.92	4.53	4.05	3.62	3.29
Vermont	4.18	4.56	4.64	4.90	4.56	4.18	4.08	4.07
Virginia	4.22	4.23	NA	5.26	4.69	5.50	6.22	6.37
Washington	NA	3.41	NA	NA	NA	3.48	3.63	3.36
West Virginia	3.57	3.71	NA	4.10	3.71	4.39	5.36	5.72
Wisconsin	3.99	4.20	4.19	4.75	4.28	3.99	4.79	4.55
Wyoming	3.62	4.02	3.74	4.09	3.81	3.22	3.24	3.61
Total	3.84	4.02	4.21	4.75	4.29	4.07	4.70	4.84

See footnotes at end of table.

Table 19. Average citygate price, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2018							2017
	July	June	May	April	March	February	January	Total
Alabama	3.81	3.93	3.81	3.57	3.48	NA	3.37	3.80
Alaska	6.39	6.43	7.02	6.76	8.00	8.25	8.24	7.03
Arizona	3.04	3.23	2.88	3.01	4.18	4.25	4.49	4.36
Arkansas	6.20	5.85	4.47	4.47	4.03	3.98	3.85	4.70
California	NA	2.67	2.34	2.42	2.76	3.12	2.91	3.45
Colorado	4.09	4.04	3.51	3.04	3.31	3.40	3.38	3.90
Connecticut	7.92	7.94	7.10	4.72	4.10	5.04	4.85	4.44
Delaware	10.70	9.50	8.13	5.40	4.34	4.52	5.18	5.60
District of Columbia	--	--	--	--	--	--	--	--
Florida	7.21	6.48	6.76	NA	6.47	7.85	5.65	5.77
Georgia	3.99	3.87	3.79	3.59	3.62	4.56	3.48	4.15
Hawaii	20.03	20.87	22.70	21.03	19.73	18.34	18.74	16.62
Idaho	2.07	NA	2.39	NA	2.87	2.85	2.67	2.90
Illinois	3.43	3.46	4.16	3.33	3.30	3.35	3.91	3.76
Indiana	4.67	4.57	4.35	3.25	3.61	3.79	3.97	3.85
Iowa	3.77	4.00	3.93	3.44	3.61	4.13	4.06	4.30
Kansas	5.05	5.60	5.82	3.64	3.84	3.72	3.71	4.51
Kentucky	3.48	3.47	3.86	3.64	3.89	4.08	3.77	3.92
Louisiana	3.70	3.64	3.70	3.72	3.94	4.30	4.17	4.02
Maine	6.92	6.51	6.09	5.39	6.40	8.95	10.35	6.50
Maryland	7.16	6.26	6.61	4.59	3.90	4.55	4.64	4.73
Massachusetts	10.96	9.51	6.47	5.35	4.69	3.59	9.36	5.28
Michigan	3.15	3.14	3.27	3.05	3.32	3.69	3.38	3.57
Minnesota	4.14	4.31	3.40	3.12	3.62	3.92	3.74	4.24
Mississippi	3.76	3.84	3.86	3.72	3.92	4.48	4.02	4.39
Missouri	7.02	6.61	6.36	3.93	3.71	3.90	3.72	4.63
Montana	2.70	2.86	NA	2.94	NA	3.29	3.39	3.28
Nebraska	4.26	4.24	3.92	3.10	3.74	3.96	4.04	4.31
Nevada	3.40	3.48	3.08	3.34	3.20	3.63	3.76	4.13
New Hampshire	9.35	NA	6.11	4.38	5.01	7.91	9.96	5.86
New Jersey	4.12	4.65	4.15	4.29	4.34	4.55	5.05	4.27
New Mexico	2.93	3.00	2.45	2.41	3.08	3.32	3.17	3.51
New York	8.04	7.08	6.08	3.56	3.19	3.41	5.75	4.29
North Carolina	6.07	5.78	5.20	3.87	3.26	3.88	3.46	3.92
North Dakota	3.20	NA	NA	2.88	NA	4.15	4.24	4.28
Ohio	NA	NA	NA	3.45	3.56	NA	3.66	3.96
Oklahoma	5.02	4.52	3.66	3.44	3.60	3.69	3.61	4.52
Oregon	5.85	4.74	4.88	3.54	3.43	3.47	3.61	3.90
Pennsylvania	6.28	5.98	6.13	3.74	4.09	4.19	3.85	4.26
Rhode Island	2.39	2.35	2.35	2.33	2.32	2.32	2.25	2.22
South Carolina	4.13	4.16	4.20	4.21	3.90	4.22	4.21	4.13
South Dakota	4.09	NA	NA	2.91	NA	4.17	3.91	4.39
Tennessee	4.13	3.97	3.83	3.58	3.81	4.18	4.08	4.09
Texas	4.74	4.71	4.54	NA	5.29	5.42	5.39	4.80
Utah	NA	3.86	4.64	5.52	5.54	6.35	5.77	5.30
Vermont	3.97	3.77	3.86	4.61	4.75	5.15	5.29	5.03
Virginia	6.09	5.95	5.68	4.60	3.62	NA	4.45	4.53
Washington	3.64	3.66	3.29	3.00	3.01	3.28	3.19	3.51
West Virginia	NA	5.01	4.12	3.47	3.40	3.89	3.36	3.86
Wisconsin	4.41	4.62	4.04	3.44	3.75	4.36	4.04	4.24
Wyoming	3.28	3.08	3.43	3.26	3.80	3.95	3.91	3.92
Total	4.71	4.46	4.13	3.64	3.71	3.99	4.29	4.16

See footnotes at end of table.

Table 19. Average citygate price, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017							
	December	November	October	September	August	July	June	May
Alabama	3.42	3.62	3.77	3.67	3.90	4.02	3.96	4.02
Alaska	6.94	7.02	6.59	6.29	5.83	5.76	5.69	6.02
Arizona	4.36	5.06	3.87	3.93	4.01	4.14	4.14	3.75
Arkansas	3.79	4.56	5.40	6.30	6.67	6.72	6.85	5.73
California	3.66	3.24	2.95	3.09	3.22	3.47	3.55	3.38
Colorado	3.44	3.88	3.96	5.10	4.65	5.09	4.68	3.98
Connecticut	3.70	3.71	4.22	5.66	5.79	6.08	6.58	5.85
Delaware	4.46	5.19	8.31	10.40	10.64	10.42	9.94	7.65
District of Columbia	--	--	--	--	--	--	--	--
Florida	5.60	6.41	6.32	5.62	5.09	5.77	5.16	5.24
Georgia	3.91	3.80	4.08	4.23	4.04	4.20	4.28	4.18
Hawaii	17.11	18.23	16.69	17.18	17.63	16.17	15.06	16.46
Idaho	2.72	2.90	2.24	2.27	2.41	2.47	3.29	3.04
Illinois	3.59	3.55	3.46	4.20	4.13	3.76	3.63	3.48
Indiana	3.55	3.71	3.68	4.34	4.74	4.97	4.87	4.28
Iowa	4.96	3.90	3.71	3.83	3.87	4.08	4.52	4.10
Kansas	3.83	4.24	5.08	6.26	5.72	5.39	6.61	5.86
Kentucky	3.74	3.84	3.66	3.70	3.41	3.59	3.73	4.05
Louisiana	4.06	3.92	3.91	3.84	3.85	3.99	4.37	4.08
Maine	7.90	4.99	6.17	5.66	6.09	7.67	5.46	5.00
Maryland	4.10	4.27	5.36	6.79	6.83	6.96	7.19	6.25
Massachusetts	5.24	4.60	6.28	8.86	9.24	9.61	9.04	6.38
Michigan	3.56	3.47	3.35	3.10	3.09	3.10	3.35	3.43
Minnesota	5.61	3.72	3.46	3.17	4.33	4.46	4.49	3.80
Mississippi	4.03	4.55	4.45	4.49	4.62	4.66	4.78	4.59
Missouri	3.73	4.11	5.02	7.09	7.68	7.26	7.15	5.86
Montana	3.20	3.22	2.47	2.35	3.41	2.90	3.30	3.61
Nebraska	4.74	3.95	3.71	4.63	4.45	4.17	5.07	4.20
Nevada	3.47	4.18	3.73	4.01	4.39	4.50	4.52	4.13
New Hampshire	6.87	4.82	5.29	8.23	7.41	8.42	5.39	5.50
New Jersey	4.08	3.93	3.60	3.71	4.37	4.61	4.73	4.56
New Mexico	3.15	3.41	3.22	3.41	3.60	3.59	3.61	3.43
New York	3.90	4.17	5.11	7.08	7.11	7.37	7.02	6.00
North Carolina	3.02	3.54	4.42	5.09	5.41	5.83	5.87	5.28
North Dakota	4.36	4.17	4.23	4.38	4.03	3.92	4.35	3.99
Ohio	4.22	3.89	3.57	4.13	3.93	3.89	3.82	3.80
Oklahoma	3.96	4.51	4.84	6.16	5.95	5.87	5.90	5.44
Oregon	3.44	3.76	3.75	4.69	5.97	5.71	5.08	4.56
Pennsylvania	3.64	4.00	4.47	6.06	6.36	6.69	6.67	5.36
Rhode Island	2.22	2.20	2.21	2.29	2.34	2.37	2.41	2.36
South Carolina	3.81	3.88	3.93	4.13	3.99	4.14	4.25	4.27
South Dakota	5.60	4.11	3.80	4.42	4.36	4.40	4.60	3.77
Tennessee	3.88	3.98	4.00	4.20	4.17	4.49	4.28	4.07
Texas	4.94	5.32	4.96	4.47	4.09	4.19	4.28	4.59
Utah	5.76	5.78	4.95	3.85	3.70	3.69	4.90	4.79
Vermont	5.07	4.70	4.56	4.48	4.44	4.31	4.74	4.69
Virginia	3.92	4.00	4.99	6.26	7.41	7.24	6.71	5.68
Washington	3.21	3.32	2.79	3.93	4.78	4.21	4.18	4.26
West Virginia	3.52	3.61	3.88	4.89	5.87	5.58	6.37	4.87
Wisconsin	3.90	4.25	4.21	4.59	4.55	4.76	5.24	4.24
Wyoming	3.83	4.01	3.82	3.45	3.82	3.98	3.79	3.24
Total	4.00	3.97	4.03	4.52	4.61	4.73	4.82	4.42

See footnotes at end of table.

Table 19. Average citygate price, by state, 2017-2019

(dollars per thousand cubic feet) – continued

State	2017			
	April	March	February	January
Alabama	3.73	3.66	4.18	4.03
Alaska	6.96	7.42	7.54	7.99
Arizona	3.98	4.95	4.71	4.37
Arkansas	5.83	4.35	4.37	4.17
California	3.31	3.15	3.59	3.87
Colorado	3.66	3.65	3.91	3.92
Connecticut	4.97	3.53	4.45	4.45
Delaware	6.85	4.26	4.62	4.34
District of Columbia	--	--	--	--
Florida	6.21	5.70	5.96	6.09
Georgia	4.29	3.72	4.43	4.69
Hawaii	16.05	17.38	16.20	15.34
Idaho	2.71	3.31	3.14	3.17
Illinois	4.15	4.06	3.56	3.95
Indiana	4.25	3.72	3.89	3.81
Iowa	4.36	4.08	4.42	4.51
Kansas	4.81	3.99	4.18	4.24
Kentucky	4.46	3.83	4.19	4.16
Louisiana	3.94	3.96	4.37	3.91
Maine	5.30	5.54	7.58	7.36
Maryland	6.06	4.05	4.69	4.43
Massachusetts	5.46	4.06	4.53	4.66
Michigan	3.78	3.48	3.71	3.84
Minnesota	3.51	3.77	4.23	4.30
Mississippi	3.95	3.88	4.20	5.02
Missouri	5.15	4.07	4.45	4.21
Montana	3.47	3.54	3.56	3.46
Nebraska	4.02	3.87	4.71	4.30
Nevada	4.40	4.05	4.34	4.46
New Hampshire	4.64	4.37	6.07	6.59
New Jersey	4.26	4.32	4.48	4.52
New Mexico	3.31	3.35	3.82	3.93
New York	4.24	3.27	3.64	3.85
North Carolina	4.91	3.36	3.72	3.87
North Dakota	4.11	3.88	4.53	4.58
Ohio	3.87	3.64	4.08	4.09
Oklahoma	4.64	4.22	4.26	4.46
Oregon	3.90	3.59	3.59	3.69
Pennsylvania	4.85	3.86	4.20	4.07
Rhode Island	2.30	2.20	2.18	2.12
South Carolina	4.47	3.98	4.43	4.47
South Dakota	3.90	3.79	4.38	4.35
Tennessee	4.40	3.91	4.16	4.24
Texas	4.43	4.85	5.14	5.28
Utah	4.78	5.94	5.97	5.37
Vermont	5.26	4.98	5.69	5.67
Virginia	5.47	4.03	4.15	3.90
Washington	3.64	3.04	3.47	3.77
West Virginia	4.26	3.32	3.68	3.63
Wisconsin	4.08	3.82	4.39	4.46
Wyoming	3.71	3.89	4.23	4.27
Total	4.20	3.84	4.13	4.21

-- 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, 2017-2019
(dollars per thousand cubic feet)

State	2019	2018	2017	2019				
	7-Month YTD	7-Month YTD	7-Month YTD	July	June	May	April	March
Alabama	15.04	14.83	15.52	22.45	21.30	18.59	15.52	14.35
Alaska	10.87	11.11	10.11	15.29	13.84	11.59	11.06	10.39
Arizona	13.01	15.55	14.91	20.39	18.19	16.13	14.28	12.01
Arkansas	11.05	11.55	12.47	20.02	18.59	14.84	11.08	9.94
California	13.50	12.12	12.79	13.82	12.96	12.99	13.31	13.64
Colorado	8.00	7.75	8.06	13.40	11.25	8.68	8.15	7.60
Connecticut	14.53	NA	13.70	23.89	20.40	17.05	15.29	13.72
Delaware	11.37	NA	12.01	23.29	19.90	15.77	11.67	10.60
District of Columbia	12.65	11.31	12.16	21.00	17.79	15.72	12.87	11.42
Florida	NA	20.53	20.18	NA	25.89	23.10	21.28	20.73
Georgia	15.14	14.09	16.89	29.73	28.95	23.74	15.92	12.46
Hawaii	43.96	42.50	38.22	43.34	42.98	47.85	48.74	43.69
Idaho	6.43	NA	7.84	9.55	8.85	7.56	6.84	6.09
Illinois	8.02	7.91	9.02	18.53	14.88	10.36	8.48	7.10
Indiana	8.52	8.38	9.32	20.58	19.04	12.37	9.63	7.54
Iowa	NA	8.33	8.62	NA	14.13	10.92	8.54	7.79
Kansas	NA	10.35	10.96	21.25	19.79	15.06	NA	8.15
Kentucky	10.48	10.21	11.72	27.04	24.89	19.69	12.01	8.63
Louisiana	10.74	NA	12.81	16.53	15.84	13.91	10.91	9.94
Maine	16.48	NA	14.21	26.10	20.04	16.19	16.26	15.76
Maryland	12.36	11.26	12.73	21.16	19.73	15.85	14.33	11.45
Massachusetts	14.93	NA	13.18	16.48	14.75	14.77	15.25	14.77
Michigan	8.04	8.15	8.46	13.28	11.54	9.74	8.49	7.66
Minnesota	8.25	NA	8.45	14.66	10.44	8.70	8.07	7.63
Mississippi	10.30	9.68	11.59	16.81	16.64	13.66	10.33	9.33
Missouri	9.82	9.74	10.88	24.13	20.00	14.10	10.64	8.55
Montana	6.89	NA	7.44	9.79	8.28	7.50	6.98	6.44
Nebraska	8.05	7.98	8.55	15.22	13.25	10.09	8.28	6.95
Nevada	8.64	9.19	8.20	14.49	12.61	11.45	9.93	7.87
New Hampshire	15.62	14.93	13.57	21.56	17.14	15.70	14.81	14.66
New Jersey	9.56	8.83	8.66	12.88	11.71	10.37	9.23	9.38
New Mexico	NA	7.74	8.83	11.31	13.23	7.31	NA	7.18
New York	12.37	11.84	11.56	19.92	17.10	14.03	12.10	10.88
North Carolina	NA	NA	13.69	24.35	NA	NA	15.63	10.49
North Dakota	6.77	6.81	7.56	19.81	12.14	8.15	6.62	5.80
Ohio	9.02	8.52	9.45	27.23	23.24	14.60	9.90	7.44
Oklahoma	8.58	8.69	10.45	25.26	20.52	15.47	10.52	7.03
Oregon	NA	10.90	10.45	13.63	NA	12.52	11.06	9.15
Pennsylvania	11.67	11.11	11.01	20.55	18.41	14.82	13.41	10.96
Rhode Island	15.15	15.13	13.38	20.92	18.12	16.15	15.14	14.57
South Carolina	NA	NA	15.02	23.98	23.66	NA	13.86	11.52
South Dakota	NA	NA	7.83	NA	9.70	7.74	7.17	6.61
Tennessee	9.17	9.14	10.08	18.28	17.30	14.32	9.77	8.05
Texas	9.80	11.15	12.52	20.15	17.62	15.29	10.51	8.25
Utah	7.70	NA	8.86	9.44	7.74	7.58	7.69	7.57
Vermont	12.72	13.00	13.45	21.66	17.07	13.71	12.65	11.97
Virginia	12.28	11.09	11.99	21.61	20.11	17.63	13.14	11.47
Washington	9.42	10.53	10.60	14.26	13.23	11.52	10.11	8.94
West Virginia	9.71	NA	9.08	17.91	18.20	13.20	10.28	9.17
Wisconsin	7.59	7.81	8.37	14.22	11.83	7.78	7.33	7.33
Wyoming	7.82	8.50	8.81	15.36	9.87	8.84	7.79	7.01
Total	10.41	10.30	10.77	17.89	15.67	12.85	10.92	9.48

See footnotes at end of table.

Table 20. Average price of natural gas sold to residential consumers, by state, 2017-2019

(dollars per thousand cubic feet) – continued

State	2019						2018	
	February	January	Total	December	November	October	September	August
Alabama	13.85	13.78	15.15	13.72	15.47	21.79	22.08	21.90
Alaska	10.29	10.14	11.00	10.18	10.39	11.02	12.23	13.06
Arizona	11.65	11.66	NA	12.28	14.16	18.44	20.97	NA
Arkansas	9.84	10.72	11.65	9.93	10.21	16.74	20.97	21.64
California	13.43	13.87	NA	13.08	11.93	12.16	12.30	NA
Colorado	7.52	7.17	7.67	6.25	6.65	7.93	13.17	14.62
Connecticut	13.35	13.17	NA	13.45	13.18	16.50	22.39	23.72
Delaware	10.07	10.52	NA	10.84	12.89	20.85	NA	24.29
District of Columbia	11.70	12.23	11.78	11.25	12.09	16.83	18.47	19.11
Florida	18.31	18.16	21.56	19.63	23.82	27.03	26.09	27.70
Georgia	12.59	11.98	14.84	11.68	12.27	23.01	29.61	29.63
Hawaii	42.74	38.92	43.48	42.94	43.42	48.05	47.36	43.50
Idaho	5.95	5.99	NA	5.91	6.10	6.99	9.31	10.33
Illinois	7.19	6.86	8.16	7.30	6.92	9.84	17.47	19.09
Indiana	7.36	7.27	NA	8.16	7.77	10.65	NA	19.42
Iowa	7.31	7.47	8.93	8.37	8.72	12.29	18.67	18.83
Kansas	7.90	8.31	NA	NA	7.73	12.32	18.83	22.58
Kentucky	9.18	8.80	NA	9.07	9.08	13.51	NA	24.87
Louisiana	8.74	10.18	NA	9.85	11.76	16.90	16.62	17.41
Maine	16.41	15.84	NA	16.80	14.52	15.73	23.71	24.72
Maryland	11.18	11.15	11.75	11.78	11.13	14.17	20.80	21.01
Massachusetts	14.67	15.06	NA	15.16	13.40	13.28	16.02	16.56
Michigan	7.51	7.31	8.19	7.78	7.43	8.25	12.34	13.39
Minnesota	7.92	8.12	NA	8.72	7.88	8.85	12.31	14.97
Mississippi	9.25	9.55	10.22	9.52	10.38	16.41	16.67	17.72
Missouri	8.42	8.77	10.26	9.16	9.76	16.75	23.40	24.89
Montana	6.52	6.68	NA	6.72	6.97	7.76	10.50	11.60
Nebraska	7.14	8.15	8.52	8.23	8.67	11.39	17.45	17.79
Nevada	7.43	7.26	9.24	7.46	8.49	11.01	13.47	14.46
New Hampshire	15.51	16.16	15.35	15.45	14.83	18.70	22.78	22.73
New Jersey	9.34	9.21	9.11	9.14	9.51	9.91	12.05	12.66
New Mexico	6.43	6.48	NA	7.65	NA	10.65	13.45	13.09
New York	11.47	12.24	12.38	11.66	12.18	17.16	20.16	20.83
North Carolina	12.53	11.42	NA	11.03	10.82	17.24	NA	NA
North Dakota	5.85	6.32	7.20	6.48	6.59	8.21	17.48	21.42
Ohio	7.25	7.38	9.14	8.00	8.27	12.62	25.54	27.80
Oklahoma	6.96	6.28	9.22	6.28	9.24	19.57	25.14	26.63
Oregon	8.46	9.60	10.81	9.83	9.79	11.33	14.07	16.88
Pennsylvania	10.54	10.43	NA	NA	10.32	13.23	19.34	20.44
Rhode Island	14.48	14.70	NA	14.87	16.25	20.36	NA	NA
South Carolina	11.47	10.76	NA	10.89	10.59	20.65	27.98	26.56
South Dakota	6.73	7.01	NA	7.31	7.92	8.88	15.04	15.86
Tennessee	8.38	8.34	NA	8.25	8.77	14.77	18.96	NA
Texas	8.27	8.19	NA	8.69	10.75	16.96	22.08	NA
Utah	7.72	7.58	NA	7.58	7.50	8.67	10.23	10.44
Vermont	11.77	12.01	13.41	12.24	13.27	16.70	21.78	23.26
Virginia	11.45	10.81	11.67	11.33	11.89	15.93	19.64	20.61
Washington	8.34	8.75	10.28	8.73	9.10	10.60	13.27	15.81
West Virginia	9.00	8.91	NA	8.96	9.22	10.96	17.79	18.80
Wisconsin	7.14	7.23	8.05	8.25	7.53	7.89	12.55	14.53
Wyoming	7.25	7.13	8.65	7.04	7.98	10.49	16.79	17.45
Total	9.47	9.43	10.52	9.63	9.43	12.26	17.31	18.63

See footnotes at end of table.

Table 20. Average price of natural gas sold to residential consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2018							2017
	July	June	May	April	March	February	January	Total
Alabama	21.93	21.00	17.27	15.07	15.29	14.15	13.38	16.11
Alaska	13.77	12.73	11.85	11.29	10.77	10.62	10.59	10.52
Arizona	22.69	21.27	19.20	16.78	14.22	13.97	13.76	15.78
Arkansas	21.08	19.74	14.02	11.47	12.06	10.82	10.08	12.97
California	12.36	12.14	12.42	11.60	12.26	12.09	12.11	12.49
Colorado	17.23	14.43	10.47	7.39	7.31	6.61	6.60	8.08
Connecticut	22.33	19.93	NA	13.17	12.75	12.69	12.02	13.95
Delaware	23.32	20.31	14.91	12.22	11.64	11.84	NA	12.84
District of Columbia	18.51	14.51	12.42	10.79	11.32	11.32	10.31	12.53
Florida	26.56	24.53	23.12	20.48	20.07	18.77	18.08	21.15
Georgia	27.63	27.65	21.53	14.10	13.01	12.42	10.55	16.93
Hawaii	45.44	41.62	44.49	42.51	42.16	42.05	39.90	38.88
Idaho	10.35	9.55	9.17	7.70	7.08	NA	7.33	7.65
Illinois	18.98	15.17	12.61	7.57	7.25	6.91	6.66	8.83
Indiana	20.19	18.83	15.37	8.06	7.55	7.99	6.90	8.94
Iowa	19.70	15.09	10.94	7.89	8.11	7.84	7.35	9.30
Kansas	21.99	18.46	15.31	11.90	10.05	8.90	8.70	10.95
Kentucky	25.01	24.49	18.47	9.65	9.21	9.68	8.53	11.62
Louisiana	16.97	15.97	13.37	12.33	NA	9.92	8.72	13.04
Maine	25.84	20.22	17.01	15.58	NA	16.46	14.65	14.61
Maryland	19.57	18.38	14.33	10.31	9.79	11.85	10.40	12.97
Massachusetts	15.82	14.57	16.69	17.69	NA	16.21	14.22	13.32
Michigan	13.52	13.49	11.94	7.93	7.60	7.74	7.41	8.38
Minnesota	15.40	12.97	NA	7.75	NA	8.72	7.84	8.47
Mississippi	17.53	16.68	12.91	9.99	10.78	9.08	7.68	11.83
Missouri	24.11	22.21	13.57	9.69	9.42	8.56	8.11	11.78
Montana	10.20	9.11	7.71	7.11	NA	6.95	7.00	7.62
Nebraska	15.56	15.72	10.00	7.71	7.72	7.42	6.94	9.01
Nevada	13.86	12.72	11.55	9.92	8.24	8.15	8.12	8.82
New Hampshire	21.07	17.88	16.60	15.68	15.51	13.93	13.28	14.55
New Jersey	12.11	11.30	9.26	7.74	8.76	8.63	8.87	9.14
New Mexico	12.79	11.23	9.32	7.94	7.28	7.06	7.08	9.22
New York	20.11	19.32	14.20	11.29	12.10	11.23	9.51	12.04
North Carolina	NA	NA	20.40	13.12	10.40	13.44	9.72	13.29
North Dakota	20.79	15.45	8.71	6.49	6.09	5.95	5.85	7.64
Ohio	26.49	25.45	14.97	8.10	7.30	7.61	6.45	9.72
Oklahoma	25.69	22.84	12.34	9.00	7.97	7.37	6.72	11.40
Oregon	15.10	14.21	13.66	11.10	9.85	9.81	10.85	10.59
Pennsylvania	19.76	17.96	14.14	10.80	10.45	10.86	10.02	11.40
Rhode Island	27.60	20.69	17.80	16.34	14.83	13.45	13.13	14.02
South Carolina	29.36	NA	NA	13.49	10.57	15.91	NA	14.57
South Dakota	14.73	11.80	8.05	6.98	NA	6.89	6.86	8.18
Tennessee	19.68	18.42	11.80	9.10	9.03	8.74	7.89	10.31
Texas	21.64	20.20	16.22	12.92	11.17	9.61	8.84	13.61
Utah	10.24	10.26	9.44	NA	NA	10.08	9.40	9.05
Vermont	21.61	18.72	14.02	12.31	12.93	11.80	12.37	14.12
Virginia	20.51	18.27	14.22	10.95	9.38	11.63	10.04	12.34
Washington	14.98	13.36	12.99	10.34	9.93	9.62	10.18	10.62
West Virginia	18.19	17.75	NA	9.63	9.27	9.27	8.94	9.43
Wisconsin	14.06	12.39	10.22	6.93	7.33	7.65	7.38	8.40
Wyoming	16.08	13.01	9.55	8.45	7.82	7.80	7.65	9.01
Total	17.92	16.51	13.64	10.04	9.78	9.64	8.91	10.91

See footnotes at end of table.

Table 20. Average price of natural gas sold to residential consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017							
	December	November	October	September	August	July	June	May
Alabama	14.72	16.97	22.17	22.63	22.97	22.15	21.14	20.57
Alaska	10.66	10.65	11.17	12.13	13.39	13.72	12.79	11.00
Arizona	14.43	17.54	20.10	22.25	23.41	22.74	20.48	18.19
Arkansas	11.81	12.80	19.52	20.36	21.39	20.16	18.25	15.66
California	11.76	11.41	12.10	12.28	12.53	12.55	13.14	12.96
Colorado	6.84	7.39	8.44	12.16	13.78	14.70	12.67	9.17
Connecticut	11.94	13.42	19.83	21.74	22.65	22.04	18.83	16.62
Delaware	12.44	14.34	22.06	22.02	24.65	22.84	18.85	16.02
District of Columbia	10.47	13.14	18.88	19.33	21.24	18.15	16.92	16.24
Florida	19.69	22.42	24.92	24.47	26.57	25.36	24.01	22.19
Georgia	11.23	14.39	22.07	31.00	32.32	32.42	29.52	27.26
Hawaii	39.57	39.91	39.77	39.98	40.28	39.99	37.63	39.21
Idaho	6.82	7.15	7.43	9.46	10.87	11.26	10.46	8.32
Illinois	6.81	7.47	10.49	16.81	17.86	16.90	15.32	11.11
Indiana	6.56	7.77	10.47	17.64	20.65	20.06	19.15	11.89
Iowa	8.52	9.68	13.37	18.63	17.36	17.65	14.96	10.83
Kansas	9.02	8.98	14.20	21.05	22.57	21.69	19.45	18.15
Kentucky	9.03	10.65	14.80	22.54	24.81	24.49	23.98	18.07
Louisiana	10.76	13.25	16.52	16.49	17.30	16.44	15.43	14.89
Maine	13.59	14.14	18.92	23.14	24.48	23.45	17.86	14.97
Maryland	11.46	12.12	18.42	20.14	21.61	20.23	18.91	16.53
Massachusetts	13.78	12.74	12.26	15.45	15.95	15.46	13.48	13.63
Michigan	7.30	7.66	9.50	12.19	13.79	14.46	13.24	9.89
Minnesota	7.91	7.73	8.93	11.95	13.40	13.36	12.48	9.69
Mississippi	9.72	11.40	16.62	18.00	18.07	17.37	16.11	15.02
Missouri	9.87	12.26	22.34	25.33	27.73	26.50	21.51	15.45
Montana	7.42	7.47	8.21	10.53	11.64	10.99	9.59	8.08
Nebraska	7.91	8.69	14.15	17.19	17.53	16.79	14.15	10.36
Nevada	8.26	9.97	11.06	12.81	14.10	13.23	11.62	10.63
New Hampshire	14.36	16.92	22.75	24.80	25.25	22.46	16.35	14.31
New Jersey	9.53	10.00	11.24	11.55	12.08	11.86	10.28	9.66
New Mexico	8.05	9.02	12.87	14.89	15.78	15.10	12.74	10.44
New York	10.52	13.07	17.16	18.12	19.05	19.13	16.28	14.45
North Carolina	10.70	11.93	19.66	22.88	23.14	22.49	23.15	19.75
North Dakota	6.05	6.47	9.09	15.60	20.47	21.82	19.59	13.01
Ohio	7.02	8.78	15.19	23.38	27.28	26.34	23.63	14.49
Oklahoma	8.65	11.14	24.54	26.70	29.06	25.92	21.84	15.91
Oregon	9.77	10.43	11.18	14.68	16.69	15.42	14.30	12.23
Pennsylvania	10.38	11.33	16.27	17.48	20.04	19.34	16.79	13.12
Rhode Island	14.01	15.34	19.30	19.93	20.19	19.15	16.38	15.11
South Carolina	11.48	12.83	19.35	25.03	26.44	24.68	24.33	21.98
South Dakota	7.55	7.66	11.01	14.40	14.62	14.52	12.01	9.06
Tennessee	8.66	10.32	16.00	17.18	19.34	18.74	16.89	14.15
Texas	11.91	14.66	20.64	21.76	23.39	20.93	18.54	17.09
Utah	9.76	9.14	8.22	10.38	11.21	10.88	9.56	8.35
Vermont	13.22	15.43	19.84	21.13	22.39	21.62	18.03	15.03
Virginia	10.54	11.89	20.00	20.71	22.04	20.79	18.59	17.62
Washington	9.66	10.22	10.92	13.81	16.05	15.38	14.64	12.02
West Virginia	9.00	9.41	11.26	14.16	17.51	18.81	14.75	11.56
Wisconsin	7.51	7.87	9.12	13.59	14.31	15.03	12.99	8.98
Wyoming	7.97	8.45	9.55	15.05	17.86	17.26	12.41	10.07
Total	9.29	10.15	13.36	16.92	18.22	17.86	16.06	13.26

See footnotes at end of table.

Table 20. Average price of natural gas sold to residential consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017			
	April	March	February	January
Alabama	16.19	14.51	14.69	13.50
Alaska	10.23	9.58	9.61	9.44
Arizona	16.82	15.32	12.66	12.70
Arkansas	14.02	12.52	11.81	10.40
California	12.51	12.41	12.65	13.10
Colorado	8.04	7.92	7.44	6.86
Connecticut	13.81	12.30	13.18	12.39
Delaware	12.07	11.34	11.04	10.65
District of Columbia	12.27	11.67	10.92	10.93
Florida	19.77	19.42	18.38	17.71
Georgia	18.21	13.69	13.57	11.84
Hawaii	38.06	38.69	37.91	36.66
Idaho	8.02	8.08	7.53	7.23
Illinois	10.22	7.95	8.39	7.58
Indiana	11.67	7.74	8.64	7.68
Iowa	8.95	7.71	7.98	7.62
Kansas	12.84	10.01	9.83	8.50
Kentucky	13.70	10.39	10.88	9.23
Louisiana	13.56	12.71	12.30	10.89
Maine	14.11	13.03	13.70	13.71
Maryland	14.62	10.86	12.26	11.35
Massachusetts	13.22	12.90	13.11	12.91
Michigan	9.22	7.77	7.98	7.59
Minnesota	8.44	7.63	8.06	8.05
Mississippi	12.82	10.64	10.67	10.02
Missouri	12.35	10.48	9.32	8.27
Montana	7.51	7.38	7.29	6.73
Nebraska	8.70	7.87	7.93	7.38
Nevada	8.99	7.76	7.10	6.96
New Hampshire	12.22	12.75	13.60	13.26
New Jersey	8.31	8.65	8.16	8.36
New Mexico	9.03	8.07	8.16	7.86
New York	11.10	10.81	11.04	9.86
North Carolina	17.86	11.65	13.82	11.72
North Dakota	7.59	6.46	6.79	5.93
Ohio	10.25	7.73	8.15	7.13
Oklahoma	13.17	10.28	8.78	7.13
Oregon	10.98	10.67	9.89	9.16
Pennsylvania	11.68	10.33	10.32	9.70
Rhode Island	13.18	12.79	12.72	12.58
South Carolina	17.13	11.79	15.05	13.40
South Dakota	7.73	7.46	7.80	6.89
Tennessee	10.96	9.62	9.29	8.55
Texas	15.59	12.25	10.61	9.56
Utah	9.15	9.18	8.78	8.40
Vermont	12.94	12.53	12.47	12.79
Virginia	13.56	10.54	11.78	9.99
Washington	10.66	10.24	10.04	9.75
West Virginia	9.55	8.47	8.39	8.19
Wisconsin	9.03	7.49	7.56	8.05
Wyoming	9.32	8.51	8.09	7.51
Total	11.34	9.86	10.01	9.32

^{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, 2017-2019
(dollars per thousand cubic feet)

State	2019	2018	2017	2019				
	7-Month YTD	7-Month YTD	7-Month YTD	July	June	May	April	March
Alabama	11.68	11.94	11.84	12.65	12.26	12.04	11.78	11.51
Alaska	NA	10.10	9.48	NA	NA	NA	NA	NA
Arizona	7.36	9.22	8.75	7.28	7.45	7.47	7.36	7.27
Arkansas	7.92	8.14	8.22	9.24	9.20	8.68	7.80	7.60
California	9.57	8.49	9.11	8.87	8.31	8.41	9.50	10.48
Colorado	7.12	6.84	7.13	8.60	8.02	7.11	7.08	7.10
Connecticut	9.95	8.94	9.32	12.06	11.75	10.91	10.48	9.44
Delaware	NA	NA	10.01	12.77	11.37	11.08	9.64	NA
District of Columbia	11.46	NA	10.88	12.43	12.12	11.79	11.83	11.02
Florida	NA	11.61	10.91	NA	NA	11.96	NA	11.50
Georgia	8.47	8.11	8.88	8.73	8.58	8.58	8.13	7.77
Hawaii	30.58	31.22	26.90	28.74	29.71	34.09	34.63	30.95
Idaho	NA	NA	6.76	5.98	6.09	5.83	5.62	5.29
Illinois	7.16	7.07	8.09	12.84	11.58	9.25	7.54	6.38
Indiana	7.05	7.30	7.95	11.17	10.65	8.88	7.82	6.46
Iowa	NA	NA	6.74	NA	7.05	7.00	6.13	6.30
Kansas	NA	8.98	9.45	12.35	11.41	10.36	NA	7.23
Kentucky	NA	8.32	9.10	13.09	NA	11.52	9.45	7.55
Louisiana	8.37	NA	9.09	7.90	8.23	8.53	8.20	8.24
Maine	13.39	NA	11.29	13.45	12.28	12.05	13.13	13.29
Maryland	NA	9.26	10.19	11.37	12.34	NA	11.89	9.38
Massachusetts	12.04	NA	10.10	10.92	11.04	11.62	12.18	12.21
Michigan	6.82	NA	7.07	9.60	8.40	7.60	7.05	6.62
Minnesota	7.02	NA	6.93	8.08	7.43	6.74	6.59	6.62
Mississippi	8.68	NA	8.88	7.91	8.20	8.76	8.51	8.57
Missouri	7.48	7.66	8.06	10.21	9.63	8.34	7.44	7.12
Montana	NA	NA	7.28	8.38	7.72	NA	6.76	6.34
Nebraska	6.31	6.22	6.39	6.33	6.10	5.73	5.95	5.87
Nevada	5.85	6.49	5.36	7.66	6.90	6.68	6.19	5.36
New Hampshire	12.51	12.55	11.22	16.11	13.41	12.51	11.75	11.77
New Jersey	9.10	NA	9.09	8.86	9.54	8.29	7.86	9.00
New Mexico	NA	5.57	6.44	5.73	6.21	NA	NA	5.27
New York	NA	7.48	7.04	6.23	6.64	7.17	7.22	7.52
North Carolina	NA	NA	9.24	10.18	NA	9.54	9.35	7.69
North Dakota	5.77	NA	6.03	7.10	6.35	5.55	5.41	5.46
Ohio	6.07	5.81	6.26	7.65	7.35	6.60	5.87	5.67
Oklahoma	6.87	6.82	7.87	14.45	13.03	10.95	8.46	6.02
Oregon	NA	8.76	8.74	8.61	NA	8.68	8.23	7.70
Pennsylvania	NA	9.44	9.08	12.74	12.53	NA	10.00	9.37
Rhode Island	12.70	12.46	10.79	18.65	15.56	13.46	12.44	12.21
South Carolina	8.72	NA	9.43	9.02	8.45	8.31	8.57	8.33
South Dakota	NA	NA	6.10	NA	5.97	5.46	5.24	5.20
Tennessee	8.04	8.31	8.69	8.24	8.83	8.96	7.93	7.53
Texas	6.16	7.30	7.53	7.11	6.67	6.54	5.88	5.83
Utah	6.32	7.84	7.34	6.28	5.72	5.76	6.27	6.42
Vermont	6.42	6.84	7.40	4.72	5.39	6.24	6.68	6.57
Virginia	8.58	8.00	7.99	9.14	10.41	8.31	9.04	8.10
Washington	7.05	NA	8.27	8.42	8.18	7.57	7.34	6.74
West Virginia	8.00	8.06	7.40	10.23	10.52	9.60	8.31	7.69
Wisconsin	6.24	6.31	6.68	6.37	5.78	5.30	5.79	6.33
Wyoming	6.16	6.80	6.95	7.52	6.65	6.27	6.05	5.86
Total	7.76	7.84	7.94	8.49	8.28	8.12	7.77	7.47

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2019							2018
	February	January	Total	December	November	October	September	August
Alabama	11.43	11.39	11.92	11.43	11.73	12.34	12.42	12.50
Alaska	9.20	9.36	9.97	9.30	9.58	9.87	10.60	10.84
Arizona	7.38	7.36	NA	7.65	8.00	8.52	NA	NA
Arkansas	7.62	7.88	8.06	7.57	7.60	7.88	8.65	9.08
California	9.88	10.39	NA	10.07	NA	7.63	8.40	NA
Colorado	7.04	6.76	NA	5.98	6.20	6.74	9.20	NA
Connecticut	9.35	9.11	9.20	9.22	8.84	10.16	11.04	10.73
Delaware	9.17	9.09	NA	8.61	NA	13.16	NA	13.66
District of Columbia	11.14	11.52	NA	10.87	11.14	10.61	10.79	10.62
Florida	11.58	NA	NA	11.19	11.49	11.25	12.02	NA
Georgia	7.91	9.33	8.07	7.36	8.04	8.56	9.03	8.76
Hawaii	29.57	26.65	31.16	28.99	30.65	33.41	32.51	29.91
Idaho	NA	5.31	NA	5.27	5.35	5.44	6.39	6.64
Illinois	6.64	6.36	7.25	6.61	6.42	8.18	12.72	13.52
Indiana	6.44	6.47	NA	7.14	6.90	7.24	NA	10.68
Iowa	5.96	6.37	NA	7.17	6.91	6.88	NA	8.76
Kansas	7.16	7.74	8.71	7.59	6.94	9.01	12.50	12.97
Kentucky	7.88	7.71	8.39	7.79	7.69	9.38	10.67	12.36
Louisiana	8.02	9.16	NA	8.76	8.50	8.68	8.05	8.15
Maine	13.95	13.79	NA	14.40	12.06	11.06	12.61	13.57
Maryland	10.36	9.09	NA	9.61	9.28	NA	NA	10.63
Massachusetts	12.01	12.37	NA	12.59	10.48	9.23	10.53	10.65
Michigan	6.55	6.46	NA	6.81	6.50	7.08	8.87	9.10
Minnesota	7.19	7.25	NA	NA	6.65	6.02	7.54	8.46
Mississippi	8.77	9.13	NA	9.11	8.79	8.75	7.77	8.19
Missouri	6.97	7.35	7.85	7.49	8.02	9.54	10.00	10.33
Montana	6.37	6.57	NA	6.53	6.68	7.27	9.11	9.31
Nebraska	6.36	7.18	6.39	7.03	6.48	6.41	6.86	6.82
Nevada	5.24	5.38	6.34	5.53	5.74	6.42	7.02	7.20
New Hampshire	12.56	13.03	12.72	12.77	11.71	13.97	16.90	16.76
New Jersey	9.14	9.85	NA	9.91	9.27	8.45	9.33	9.37
New Mexico	5.04	5.16	NA	6.10	NA	6.07	6.18	5.95
New York	7.94	NA	7.39	7.79	7.05	6.93	6.74	6.86
North Carolina	9.53	8.83	NA	8.60	8.38	8.35	NA	NA
North Dakota	5.70	6.15	NA	6.17	5.77	5.65	7.05	7.37
Ohio	5.78	6.09	5.99	6.13	5.85	6.40	7.54	7.77
Oklahoma	5.90	5.28	7.07	5.19	7.30	12.40	14.15	13.82
Oregon	7.39	7.93	8.63	8.04	8.07	8.67	9.39	10.11
Pennsylvania	9.22	8.76	9.42	8.94	8.77	9.97	10.94	11.96
Rhode Island	12.13	12.30	12.98	12.42	14.07	17.84	19.23	18.98
South Carolina	8.97	9.05	NA	NA	8.52	9.15	9.12	8.87
South Dakota	5.45	5.83	NA	6.07	6.18	6.02	7.51	7.84
Tennessee	8.14	7.90	8.35	7.98	7.77	8.89	9.73	10.18
Texas	6.01	6.07	7.21	6.33	6.50	7.46	8.05	8.27
Utah	6.50	6.41	7.37	6.38	6.08	6.27	6.61	6.70
Vermont	6.65	6.98	6.65	7.27	6.55	5.71	5.52	5.34
Virginia	8.59	8.39	8.14	8.43	8.13	8.29	8.98	8.58
Washington	6.61	6.73	NA	6.81	6.90	7.82	8.53	NA
West Virginia	7.69	7.56	8.09	7.63	7.73	8.55	10.20	9.97
Wisconsin	6.40	6.49	6.42	7.16	6.43	5.67	6.43	6.87
Wyoming	6.10	6.05	6.62	5.75	6.09	6.75	7.32	7.18
Total	7.61	7.75	7.83	7.77	7.35	7.71	8.64	8.74

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2018							2017
	July	June	May	April	March	February	January	Total
Alabama	12.52	12.43	12.18	12.33	11.93	11.87	11.47	12.03
Alaska	11.43	10.84	10.51	10.16	9.89	9.88	9.82	9.79
Arizona	9.14	9.38	9.44	9.23	9.16	9.13	9.20	8.97
Arkansas	8.98	9.07	8.45	7.91	8.44	8.03	7.80	8.34
California	8.35	7.76	7.76	7.99	8.91	9.16	8.93	8.76
Colorado	10.72	8.95	8.34	6.42	6.74	6.20	6.26	7.17
Connecticut	11.07	11.37	11.38	8.58	8.44	8.37	7.91	9.30
Delaware	NA	NA	11.25	10.22	NA	10.03	NA	10.37
District of Columbia	10.65	9.20	10.16	10.24	NA	11.10	9.87	10.87
Florida	11.54	11.69	11.52	11.44	11.34	11.88	11.74	10.97
Georgia	9.31	9.00	8.54	8.46	7.90	8.00	7.64	8.78
Hawaii	31.69	30.90	33.05	31.93	30.74	32.37	28.30	27.41
Idaho	6.86	NA	6.89	6.47	6.18	NA	6.52	6.62
Illinois	14.15	12.29	10.72	6.78	6.54	6.34	6.18	7.78
Indiana	11.68	10.71	11.07	7.01	6.77	7.34	6.36	7.52
Iowa	8.98	7.92	7.06	6.16	6.48	NA	6.21	6.87
Kansas	13.32	12.31	11.81	9.81	9.15	8.19	7.95	9.36
Kentucky	12.70	12.85	10.86	8.03	8.06	7.99	7.38	9.06
Louisiana	8.39	8.50	8.37	8.56	NA	8.89	8.47	8.99
Maine	13.50	12.13	12.12	12.74	12.94	NA	12.68	11.33
Maryland	9.90	11.28	10.32	8.97	8.32	10.11	8.82	10.27
Massachusetts	10.31	9.99	13.29	14.99	NA	12.94	11.60	10.16
Michigan	NA	9.12	8.18	6.70	6.61	6.77	6.48	7.02
Minnesota	8.51	7.94	NA	6.26	NA	7.56	6.82	6.80
Mississippi	8.45	8.23	8.55	8.07	NA	8.42	7.61	8.82
Missouri	10.30	9.96	7.87	7.72	7.66	7.21	7.31	8.44
Montana	9.03	8.49	7.43	6.94	NA	6.81	6.95	7.42
Nebraska	6.51	6.40	5.66	5.87	6.44	6.52	6.09	6.37
Nevada	7.22	7.19	6.91	6.59	6.23	6.23	6.21	5.71
New Hampshire	16.42	13.77	13.76	13.50	13.25	11.84	11.15	11.71
New Jersey	NA	9.12	8.34	7.33	9.22	9.42	8.92	9.14
New Mexico	6.71	5.12	5.04	5.46	5.64	5.59	5.71	6.59
New York	7.05	7.21	7.41	7.23	7.90	7.89	7.25	6.87
North Carolina	10.02	NA	9.44	8.49	7.32	8.10	7.40	8.92
North Dakota	7.40	6.64	NA	5.41	5.59	5.76	5.98	6.00
Ohio	7.97	7.24	6.72	5.64	5.53	5.66	5.46	6.11
Oklahoma	14.52	11.82	8.52	7.23	6.40	6.17	5.79	8.44
Oregon	9.72	9.46	9.38	8.90	8.29	8.14	9.03	8.74
Pennsylvania	12.33	11.80	10.91	9.68	8.96	9.47	8.80	9.16
Rhode Island	18.44	16.76	14.43	13.64	12.55	11.15	10.88	11.30
South Carolina	9.35	9.06	8.67	8.79	8.50	10.25	NA	9.30
South Dakota	7.60	6.55	NA	5.46	NA	5.60	5.85	6.26
Tennessee	9.98	9.48	8.49	7.89	8.19	8.31	8.01	8.74
Texas	8.21	7.93	7.79	7.38	7.35	7.12	6.77	7.71
Utah	6.62	6.95	7.16	7.68	7.78	8.47	8.02	7.40
Vermont	5.56	5.27	6.01	6.54	6.88	7.48	7.80	7.04
Virginia	8.90	8.68	8.62	8.06	7.36	8.79	7.53	7.99
Washington	9.31	NA	8.50	NA	7.94	8.07	8.30	8.30
West Virginia	10.36	10.44	9.60	8.00	7.79	7.89	7.63	7.65
Wisconsin	6.54	5.82	6.00	5.65	6.22	6.73	6.48	6.60
Wyoming	6.99	7.04	6.92	6.95	6.69	6.77	6.68	6.92
Total	8.93	8.65	8.46	7.66	7.74	7.82	7.43	7.88

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017							
	December	November	October	September	August	July	June	May
Alabama	11.83	12.18	12.61	12.97	13.08	13.11	12.80	12.73
Alaska	9.89	10.00	10.33	11.00	11.50	11.62	11.02	9.75
Arizona	9.17	9.44	9.40	9.35	9.50	9.22	9.03	8.96
Arkansas	8.33	8.55	8.61	8.68	9.24	9.27	9.16	8.79
California	8.64	8.00	7.78	7.95	8.31	8.40	8.74	8.68
Colorado	6.62	6.87	7.25	9.22	9.16	9.53	9.01	7.28
Connecticut	7.96	8.71	10.64	10.73	11.16	10.98	10.69	10.74
Delaware	10.35	10.88	12.52	11.82	13.39	12.79	11.67	10.95
District of Columbia	10.10	11.03	11.17	11.37	12.14	12.26	12.26	11.58
Florida	10.90	11.17	11.15	11.06	11.09	10.97	11.06	11.00
Georgia	8.13	8.53	9.02	9.33	9.71	9.37	9.80	9.39
Hawaii	28.25	28.45	27.38	28.06	28.56	27.37	26.30	26.98
Idaho	6.22	6.30	6.28	7.16	7.18	7.63	7.47	7.14
Illinois	6.16	6.59	7.90	12.09	13.60	12.43	12.52	11.00
Indiana	5.93	6.78	7.28	9.96	11.61	11.35	11.47	9.05
Iowa	6.96	6.51	6.52	9.05	9.29	9.56	8.98	7.77
Kansas	8.24	7.99	9.97	13.94	13.17	13.40	12.88	12.74
Kentucky	7.75	8.71	10.16	11.83	12.81	11.99	12.54	11.28
Louisiana	9.00	8.84	8.71	8.77	8.75	8.80	8.85	8.83
Maine	11.35	10.75	11.58	12.33	12.77	13.06	11.42	10.94
Maryland	9.39	9.84	12.05	12.59	12.49	11.30	12.16	11.76
Massachusetts	10.86	9.79	8.71	10.12	10.35	10.37	9.36	10.21
Michigan	6.40	6.61	7.57	8.47	9.65	9.15	9.00	7.92
Minnesota	6.53	6.23	6.48	7.44	8.08	7.72	8.10	7.04
Mississippi	8.58	8.73	8.59	9.24	8.69	8.69	8.47	8.84
Missouri	8.16	9.18	10.55	10.65	11.19	11.00	9.78	8.99
Montana	7.39	7.24	7.72	8.82	9.67	9.64	8.84	7.82
Nebraska	6.19	6.10	6.48	6.78	6.93	7.08	6.54	6.59
Nevada	6.06	6.40	6.48	6.50	6.75	6.40	5.90	5.85
New Hampshire	11.83	12.78	15.10	16.06	16.06	15.28	12.45	11.49
New Jersey	9.27	9.47	9.12	8.66	9.47	9.84	8.98	8.83
New Mexico	6.19	7.25	7.60	7.41	7.43	7.56	7.08	6.56
New York	6.93	6.64	6.50	6.02	5.95	6.64	6.87	6.90
North Carolina	8.11	8.54	8.83	9.05	8.88	8.63	9.94	10.69
North Dakota	5.89	5.67	5.93	6.48	7.15	7.65	7.57	6.52
Ohio	5.31	5.48	6.54	7.44	7.81	7.75	7.75	6.78
Oklahoma	6.89	8.63	14.71	15.16	16.05	14.86	13.30	11.40
Oregon	8.28	8.57	8.84	9.84	10.44	10.05	10.19	9.37
Pennsylvania	8.74	8.79	10.34	11.10	11.53	11.94	11.60	10.56
Rhode Island	11.35	12.45	15.04	15.45	15.73	15.38	13.10	12.02
South Carolina	9.45	9.30	8.56	9.05	8.86	9.04	8.95	8.64
South Dakota	6.74	5.97	5.96	7.51	7.68	7.63	7.41	6.26
Tennessee	8.24	8.80	9.47	9.38	9.65	9.56	9.41	9.13
Texas	7.78	7.72	8.22	8.35	8.37	8.19	7.70	7.57
Utah	8.26	7.34	6.44	7.07	7.40	7.28	6.83	6.51
Vermont	7.19	6.17	6.07	6.04	6.06	6.29	6.12	6.94
Virginia	7.57	7.89	8.42	8.59	9.00	8.76	9.18	9.07
Washington	7.93	8.15	8.35	9.15	9.86	9.48	9.40	7.68
West Virginia	7.66	7.86	8.56	8.93	9.37	9.54	9.48	8.28
Wisconsin	6.54	6.49	5.84	6.92	6.85	7.02	6.68	6.06
Wyoming	6.61	6.74	6.96	7.41	7.45	7.65	7.41	7.13
Total	7.42	7.51	7.97	8.52	8.76	8.81	8.75	8.31

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017			
	April	March	February	January
Alabama	12.18	11.49	11.36	11.15
Alaska	9.40	9.12	9.18	9.16
Arizona	9.10	8.94	8.33	8.29
Arkansas	8.56	8.25	8.13	7.59
California	8.81	9.47	9.34	9.60
Colorado	6.98	7.10	6.92	6.57
Connecticut	9.24	8.33	9.51	8.61
Delaware	9.94	9.76	9.61	9.44
District of Columbia	11.06	11.06	10.66	9.47
Florida	10.86	10.93	11.04	10.58
Georgia	9.11	8.55	8.86	8.40
Hawaii	26.98	27.41	27.16	26.22
Idaho	7.18	6.96	6.62	6.36
Illinois	9.14	7.25	7.59	6.90
Indiana	9.61	6.87	7.72	7.07
Iowa	6.84	6.12	6.40	6.41
Kansas	9.98	9.14	8.99	8.21
Kentucky	10.29	8.61	8.81	7.71
Louisiana	8.69	9.08	9.41	9.55
Maine	11.23	10.83	11.34	11.55
Maryland	11.48	9.18	9.98	9.54
Massachusetts	10.27	10.04	10.20	10.05
Michigan	7.31	6.80	6.86	6.65
Minnesota	6.80	6.36	6.94	7.08
Mississippi	8.93	8.68	9.09	9.03
Missouri	8.36	8.12	7.60	7.24
Montana	7.26	7.20	7.24	6.70
Nebraska	5.94	6.30	6.61	6.29
Nevada	5.38	5.14	5.02	5.09
New Hampshire	10.15	10.63	11.68	11.26
New Jersey	7.91	9.04	9.06	9.68
New Mexico	6.17	6.07	6.51	6.28
New York	6.99	7.14	7.51	6.82
North Carolina	10.16	8.35	9.88	8.67
North Dakota	5.68	5.67	6.32	5.74
Ohio	6.18	5.86	6.10	6.03
Oklahoma	9.56	7.91	6.88	5.94
Oregon	9.04	8.90	8.45	8.10
Pennsylvania	9.47	8.89	8.58	8.32
Rhode Island	10.63	10.42	10.45	10.02
South Carolina	9.66	8.59	10.15	10.31
South Dakota	5.83	5.77	6.43	5.77
Tennessee	8.76	8.50	8.56	8.33
Texas	7.62	7.19	7.51	7.40
Utah	7.47	7.71	7.48	7.29
Vermont	7.57	7.35	7.61	8.08
Virginia	8.05	7.19	8.45	7.44
Washington	8.27	8.22	8.22	8.03
West Virginia	7.71	7.09	7.02	6.97
Wisconsin	6.93	6.37	6.47	7.05
Wyoming	7.10	6.96	6.97	6.56
Total	8.04	7.68	7.89	7.58

^{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, 2017-2019
(dollars per thousand cubic feet)

State	2019	2018	2017	2019				
	7-Month YTD	7-Month YTD	7-Month YTD	July	June	May	April	March
Alabama	3.97	4.19	4.38	3.41	3.58	3.61	3.86	4.12
Alaska	5.85	5.50	4.88	5.47	5.41	5.65	5.67	6.10
Arizona	NA	NA	6.25	NA	3.47	3.49	4.85	5.08
Arkansas	6.63	6.81	6.68	6.97	6.63	6.24	6.30	6.61
California	7.97	6.81	7.49	6.98	6.62	6.83	7.88	9.03
Colorado	5.81	5.36	5.56	5.84	5.89	5.73	5.46	5.76
Connecticut	7.25	6.62	6.71	6.64	7.32	7.32	7.40	7.52
Delaware	NA	NA	9.52	NA	10.71	12.52	10.24	9.12
District of Columbia	--	--	--	--	--	--	--	--
Florida	NA	6.38	6.19	NA	5.51	5.45	5.49	6.32
Georgia	4.48	NA	4.77	3.87	4.05	4.08	4.44	4.50
Hawaii	NA	22.15	19.09	NA	23.22	23.32	22.20	20.85
Idaho	3.61	4.17	4.53	3.63	3.64	3.61	3.60	3.64
Illinois	NA	NA	6.22	NA	7.08	NA	6.14	NA
Indiana	5.98	6.18	6.25	7.13	6.84	6.23	5.92	5.75
Iowa	4.93	NA	5.14	4.15	4.53	4.52	4.71	5.32
Kansas	4.02	4.52	4.28	3.23	3.85	4.38	5.06	5.91
Kentucky	4.23	NA	4.58	3.56	3.80	3.87	4.03	3.81
Louisiana	3.68	3.37	3.79	3.08	3.11	3.19	3.41	3.59
Maine	9.63	9.76	8.49	5.74	6.71	6.85	10.69	10.89
Maryland	NA	NA	9.76	NA	9.85	8.70	10.42	8.76
Massachusetts	9.89	10.54	8.17	7.93	8.34	9.23	10.45	10.09
Michigan	6.06	5.96	5.98	6.95	6.44	6.47	6.18	5.87
Minnesota	4.52	NA	4.60	3.54	4.08	4.10	4.07	4.46
Mississippi	NA	4.97	5.18	4.22	4.39	NA	NA	5.15
Missouri	6.27	6.59	6.67	5.39	5.58	5.65	6.16	6.40
Montana	6.01	6.54	6.60	5.68	5.78	5.82	6.12	5.95
Nebraska	4.48	4.51	4.66	3.99	3.77	3.91	4.45	4.23
Nevada	5.29	5.71	4.73	6.72	6.28	5.86	5.42	4.88
New Hampshire	9.60	NA	9.17	6.50	6.55	8.07	9.29	9.38
New Jersey	7.97	NA	7.84	7.08	6.61	6.48	6.86	7.83
New Mexico	3.30	NA	5.01	3.34	2.72	2.23	3.06	4.25
New York	8.64	7.92	7.44	7.23	7.15	7.95	8.29	8.67
North Carolina	NA	NA	6.35	5.67	5.79	5.78	5.87	NA
North Dakota	2.88	3.05	3.05	2.12	2.22	2.28	2.62	3.26
Ohio	6.34	NA	6.71	5.99	6.11	6.41	6.22	6.34
Oklahoma	2.68	NA	3.48	2.18	2.07	2.14	2.19	2.81
Oregon	NA	5.22	5.35	4.40	4.86	NA	4.53	4.87
Pennsylvania	8.43	NA	8.14	8.33	8.35	8.53	8.63	8.35
Rhode Island	9.89	NA	8.43	10.44	10.13	10.17	10.02	9.62
South Carolina	NA	4.82	4.96	3.98	4.19	NA	4.75	4.85
South Dakota	NA	4.65	5.16	NA	4.64	4.62	4.29	NA
Tennessee	5.03	5.13	5.16	4.00	4.22	4.40	5.01	5.25
Texas	3.07	3.20	3.39	2.60	2.83	2.84	2.94	3.03
Utah	5.06	5.73	5.57	4.54	4.43	4.41	5.06	5.52
Vermont	NA	4.49	5.21	3.83	4.02	4.03	4.32	4.43
Virginia	5.12	5.02	5.11	4.69	5.15	4.52	4.87	5.00
Washington	NA	NA	7.43	7.05	7.31	6.61	6.50	6.44
West Virginia	3.29	3.37	3.05	2.62	2.97	2.92	3.21	3.55
Wisconsin	5.17	5.03	5.47	3.96	4.29	4.37	4.75	5.60
Wyoming	3.90	3.95	4.27	3.34	3.80	3.90	3.68	3.87
Total	4.15	4.11	4.23	3.35	3.56	3.65	4.02	4.33

See footnotes at end of table.

Table 22. Average price of natural gas sold to industrial consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2019			2018				
	February	January	Total	December	November	October	September	August
Alabama	4.29	4.63	4.29	5.38	4.59	4.06	3.98	3.88
Alaska	6.18	6.09	5.69	5.73	6.00	5.96	6.00	5.87
Arizona	5.29	5.24	NA	5.26	4.63	6.01	5.64	NA
Arkansas	6.66	6.87	6.79	6.67	6.78	6.68	6.68	7.05
California	8.64	9.15	NA	8.61	6.99	6.11	7.04	NA
Colorado	6.07	5.78	NA	4.70	4.87	5.19	NA	6.24
Connecticut	7.22	7.20	6.63	7.48	6.53	6.39	6.15	6.37
Delaware	9.23	9.47	NA	9.09	11.09	11.53	NA	10.79
District of Columbia	--	--	--	--	--	--	--	--
Florida	6.45	6.90	NA	NA	5.98	6.02	NA	6.66
Georgia	4.84	5.38	NA	6.02	4.74	4.41	4.41	4.29
Hawaii	20.51	19.59	22.62	22.29	24.11	24.18	23.38	22.37
Idaho	3.62	3.57	3.98	3.57	3.62	3.49	4.09	4.06
Illinois	5.28	5.39	NA	5.36	NA	5.60	6.34	7.23
Indiana	5.72	5.94	NA	6.25	6.17	5.22	NA	7.31
Iowa	5.11	5.40	NA	6.34	5.80	5.04	5.36	4.78
Kansas	6.56	7.09	4.56	7.28	6.58	5.44	4.57	4.30
Kentucky	5.26	5.16	NA	5.19	4.46	4.28	3.99	3.84
Louisiana	4.30	5.07	3.42	3.96	3.57	3.35	3.16	3.43
Maine	11.02	11.00	9.24	11.05	10.63	5.87	5.78	5.79
Maryland	10.05	8.61	NA	9.40	8.43	7.95	NA	9.02
Massachusetts	10.33	10.50	9.90	10.66	8.69	6.72	6.63	7.48
Michigan	6.04	5.93	6.04	6.18	5.95	6.25	6.59	7.02
Minnesota	5.03	5.37	NA	5.40	4.80	4.48	4.47	4.50
Mississippi	5.73	NA	5.00	5.79	5.13	4.87	4.53	4.71
Missouri	6.41	6.83	NA	NA	6.28	5.86	5.76	5.65
Montana	6.17	6.19	6.37	6.06	6.17	5.95	6.05	5.81
Nebraska	4.84	5.70	4.53	5.11	4.51	4.41	4.35	4.33
Nevada	4.54	4.59	5.44	4.48	4.79	5.00	5.80	5.91
New Hampshire	11.24	11.54	NA	11.42	8.92	6.98	6.93	7.77
New Jersey	8.32	9.33	NA	NA	7.54	NA	6.88	NA
New Mexico	4.86	4.97	NA	4.40	4.20	4.24	3.48	3.07
New York	9.32	9.52	7.81	8.18	7.24	7.04	7.29	7.40
North Carolina	7.12	7.26	NA	6.57	6.29	5.91	5.67	5.90
North Dakota	3.65	4.31	3.23	4.77	3.85	2.90	2.78	2.78
Ohio	6.61	6.29	NA	6.07	6.40	NA	NA	NA
Oklahoma	3.19	3.72	NA	4.53	2.59	2.23	2.08	2.29
Oregon	5.02	4.91	5.15	4.96	5.05	5.07	5.12	5.14
Pennsylvania	8.23	8.60	NA	7.52	8.29	8.47	9.60	9.38
Rhode Island	9.59	9.70	NA	9.72	10.57	11.37	11.12	10.97
South Carolina	5.01	5.78	4.90	6.09	5.34	4.54	4.57	4.32
South Dakota	4.75	5.23	NA	5.29	4.63	NA	5.72	5.46
Tennessee	5.57	5.92	5.05	5.97	5.00	4.55	4.41	4.38
Texas	3.26	3.91	3.39	4.83	3.84	3.47	3.19	2.99
Utah	5.41	5.55	5.49	5.80	5.03	4.66	4.73	4.71
Vermont	4.48	NA	4.55	5.24	4.72	4.35	4.30	4.26
Virginia	4.92	6.23	5.14	6.20	4.77	5.19	4.99	5.36
Washington	6.31	NA	NA	6.14	6.49	7.09	NA	NA
West Virginia	3.54	4.08	3.51	4.80	4.05	3.31	3.18	3.15
Wisconsin	5.39	5.76	5.14	6.72	5.79	4.60	3.78	3.98
Wyoming	4.27	4.19	3.90	3.68	3.83	4.34	3.66	3.49
Total	4.65	5.04	4.20	5.46	4.51	4.04	3.75	3.67

See footnotes at end of table.

Table 22. Average price of natural gas sold to industrial consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2018							2017
	July	June	May	April	March	February	January	Total
Alabama	3.90	3.89	3.90	3.90	3.93	4.90	4.75	4.24
Alaska	6.01	5.34	5.54	4.92	5.29	5.57	5.68	4.63
Arizona	6.45	6.50	6.50	NA	6.99	7.04	6.64	6.47
Arkansas	7.08	6.70	6.55	6.61	7.09	6.83	6.77	6.67
California	6.43	6.09	6.08	6.35	7.43	7.46	7.53	7.05
Colorado	6.64	6.55	5.45	4.88	5.22	5.15	5.06	5.58
Connecticut	6.61	6.91	6.95	6.52	6.57	6.57	6.43	6.48
Delaware	NA	NA	11.06	9.59	9.88	10.07	10.58	9.91
District of Columbia	--	--	--	--	--	--	--	--
Florida	5.93	5.51	6.38	6.49	6.84	5.87	7.36	6.17
Georgia	4.38	NA	4.38	4.61	4.45	5.19	4.42	4.68
Hawaii	23.04	23.32	23.05	22.04	21.57	21.71	20.32	19.62
Idaho	4.20	4.12	4.22	4.18	4.08	4.14	4.25	4.44
Illinois	6.99	5.97	5.37	4.88	5.02	NA	5.17	5.76
Indiana	7.39	6.56	6.42	6.09	5.84	5.87	6.38	5.99
Iowa	4.45	4.32	4.36	5.17	5.27	NA	5.53	5.21
Kansas	4.30	4.32	4.35	4.58	4.71	6.91	7.19	4.16
Kentucky	3.88	3.84	3.97	4.07	4.35	NA	4.46	4.46
Louisiana	3.14	3.29	3.44	2.99	3.64	3.47	3.74	3.64
Maine	6.41	6.30	6.81	11.17	11.71	11.69	9.71	8.15
Maryland	8.97	NA	8.47	7.95	7.50	7.75	8.13	9.84
Massachusetts	7.15	7.37	10.19	12.84	11.89	11.05	9.64	8.02
Michigan	6.20	6.75	6.27	5.89	5.96	5.96	5.76	5.97
Minnesota	4.48	4.49	NA	4.08	4.34	5.30	4.82	4.48
Mississippi	4.80	4.63	4.59	4.72	5.25	5.29	5.24	5.07
Missouri	5.80	5.63	5.97	6.96	6.79	6.73	6.83	6.64
Montana	5.65	6.19	6.21	6.80	6.55	6.38	7.02	6.60
Nebraska	4.20	3.82	3.84	4.23	5.15	4.95	4.90	4.54
Nevada	6.14	6.33	5.95	5.64	5.57	5.48	5.48	5.06
New Hampshire	7.86	NA	10.84	NA	NA	9.39	9.62	9.09
New Jersey	6.82	NA	6.51	6.65	8.90	8.79	8.39	7.92
New Mexico	NA	NA	NA	3.68	4.54	4.82	4.89	5.06
New York	7.94	8.06	7.96	7.92	8.51	7.90	7.38	7.21
North Carolina	5.81	5.88	6.03	6.16	5.95	6.53	NA	6.24
North Dakota	2.72	2.65	2.65	2.57	2.71	4.06	3.78	3.15
Ohio	NA	7.44	6.65	6.11	6.23	NA	NA	6.71
Oklahoma	2.35	NA	1.99	1.66	2.49	3.29	3.10	3.30
Oregon	5.19	4.93	5.05	5.09	5.36	5.39	5.35	5.31
Pennsylvania	9.82	9.36	8.60	8.44	8.49	NA	8.09	8.38
Rhode Island	11.63	11.46	11.41	NA	10.14	8.75	8.62	8.48
South Carolina	4.65	4.39	4.33	4.38	4.67	5.40	6.08	4.86
South Dakota	5.55	4.76	4.36	4.21	4.83	4.74	4.67	5.09
Tennessee	4.61	4.45	4.68	4.92	5.28	5.96	5.57	5.04
Texas	3.19	3.22	3.10	2.98	2.87	3.78	3.32	3.28
Utah	4.64	5.19	5.32	5.86	6.14	6.33	6.25	5.51
Vermont	4.22	4.14	4.18	4.22	4.33	5.00	5.08	4.92
Virginia	5.00	4.91	5.05	4.66	5.04	5.33	5.07	5.04
Washington	NA	NA	7.67	7.51	7.60	7.62	7.49	7.39
West Virginia	3.25	3.17	3.14	3.07	3.10	4.36	3.40	3.21
Wisconsin	3.92	4.26	3.98	4.20	5.25	6.13	5.66	5.34
Wyoming	3.22	3.22	3.89	4.27	4.17	4.20	4.02	4.28
Total	3.76	3.78	3.81	3.90	4.02	4.86	4.48	4.10

See footnotes at end of table.

Table 22. Average price of natural gas sold to industrial consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017							
	December	November	October	September	August	July	June	May
Alabama	4.31	4.11	3.92	3.89	3.93	4.07	4.21	4.18
Alaska	4.73	4.59	4.02	3.63	3.16	3.04	4.96	4.96
Arizona	6.57	6.92	6.72	6.77	7.26	6.49	6.86	6.31
Arkansas	6.48	6.62	6.63	6.66	7.03	6.74	6.69	6.53
California	7.14	6.38	6.09	6.24	6.43	6.59	7.01	7.05
Colorado	5.04	5.18	7.00	5.77	5.91	6.35	6.08	5.66
Connecticut	6.12	6.08	5.97	6.38	6.03	5.90	5.80	6.41
Delaware	10.51	12.01	10.38	10.08	13.21	13.50	10.22	9.81
District of Columbia	--	--	--	--	--	--	--	--
Florida	5.82	6.20	6.26	6.11	6.36	5.99	6.07	6.09
Georgia	4.61	4.38	4.53	4.68	4.60	4.45	4.67	4.64
Hawaii	22.24	20.83	21.09	19.75	18.87	18.57	19.10	19.60
Idaho	4.38	4.02	4.35	4.42	4.47	4.48	4.59	4.44
Illinois	4.86	4.99	5.10	5.75	6.44	7.17	6.70	6.78
Indiana	4.85	5.34	5.43	7.01	7.98	7.11	7.93	6.32
Iowa	5.55	5.12	5.06	5.33	5.18	5.43	5.51	5.31
Kansas	5.71	4.94	4.51	3.88	3.76	3.83	4.01	4.74
Kentucky	4.54	4.26	4.26	4.15	4.18	4.27	4.48	4.37
Louisiana	3.35	3.41	3.53	3.46	3.55	3.62	3.74	3.32
Maine	9.59	9.29	5.26	5.30	5.42	6.34	6.48	6.61
Maryland	9.71	9.25	10.79	11.22	10.67	11.28	11.91	10.56
Massachusetts	8.96	7.77	5.63	7.20	7.26	7.46	7.10	8.76
Michigan	5.64	5.96	6.02	6.94	6.73	6.47	6.40	6.36
Minnesota	4.66	4.05	4.40	4.24	4.19	4.14	4.44	4.23
Mississippi	5.08	4.86	4.89	4.91	4.80	5.02	4.84	4.92
Missouri	6.84	6.96	6.43	6.03	6.24	6.21	6.02	6.04
Montana	7.41	6.55	6.49	6.38	5.70	6.66	6.50	6.53
Nebraska	4.45	4.28	4.21	4.38	4.32	4.40	4.44	4.33
Nevada	5.21	5.48	5.65	5.69	6.03	5.74	5.48	5.15
New Hampshire	10.03	8.92	7.66	7.99	7.58	7.81	7.14	7.98
New Jersey	8.06	8.05	8.62	8.32	8.19	7.82	8.37	7.03
New Mexico	5.37	5.30	5.15	4.87	4.95	4.87	4.88	4.81
New York	7.20	6.71	6.44	6.17	6.82	8.04	7.78	7.20
North Carolina	6.29	6.02	5.89	6.09	6.07	6.04	5.97	6.07
North Dakota	3.97	3.12	2.89	3.78	2.82	2.85	2.95	2.81
Ohio	6.24	6.42	7.24	8.04	7.85	8.69	9.21	8.06
Oklahoma	3.13	2.94	3.02	2.87	3.13	3.46	3.39	3.22
Oregon	5.18	5.28	5.17	5.19	5.50	5.41	5.39	5.28
Pennsylvania	8.91	8.95	9.16	9.13	9.36	10.50	8.99	8.22
Rhode Island	8.62	8.45	8.41	8.59	8.74	8.74	8.43	8.55
South Carolina	5.17	4.54	4.58	4.71	4.56	4.98	4.83	4.69
South Dakota	4.87	4.61	5.35	6.04	5.64	5.62	5.20	5.22
Tennessee	5.22	4.95	4.69	4.70	4.66	4.77	4.94	4.86
Texas	3.22	2.98	3.12	3.21	3.19	3.40	3.51	3.37
Utah	6.02	5.45	5.15	5.13	5.12	5.20	5.04	5.14
Vermont	4.71	4.40	4.42	4.48	4.47	4.51	4.68	4.78
Virginia	5.15	4.64	4.69	4.92	5.22	4.94	5.41	5.04
Washington	7.45	7.34	7.11	7.22	7.42	7.73	7.38	7.52
West Virginia	4.12	4.07	3.03	2.80	2.85	2.90	2.85	2.92
Wisconsin	5.60	5.54	4.46	4.66	4.54	4.24	4.74	4.69
Wyoming	4.21	4.25	4.36	4.38	4.35	4.39	4.24	3.96
Total	4.21	3.85	3.79	3.84	3.79	3.93	4.06	4.03

See footnotes at end of table.

Table 22. Average price of natural gas sold to industrial consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017			
	April	March	February	January
Alabama	4.25	4.08	4.70	5.07
Alaska	5.02	5.13	4.99	5.06
Arizona	6.18	5.95	6.04	6.18
Arkansas	6.80	6.63	6.69	6.73
California	7.19	7.71	7.96	8.38
Colorado	5.19	5.60	5.48	5.37
Connecticut	6.28	6.69	8.06	7.21
Delaware	9.07	9.57	9.11	8.93
District of Columbia	--	--	--	--
Florida	5.98	6.51	6.46	6.13
Georgia	4.74	4.29	5.12	5.48
Hawaii	18.83	19.22	19.69	18.66
Idaho	4.57	4.52	4.59	4.52
Illinois	6.31	5.87	6.15	6.12
Indiana	7.03	5.69	6.08	5.82
Iowa	5.06	4.69	5.14	5.22
Kansas	4.67	5.08	6.88	6.75
Kentucky	4.42	4.34	4.90	5.14
Louisiana	3.14	3.59	4.56	4.52
Maine	9.28	9.27	9.35	9.33
Maryland	11.53	8.52	9.82	9.49
Massachusetts	8.28	8.17	8.44	8.23
Michigan	6.10	5.89	5.99	5.77
Minnesota	4.40	4.42	4.86	5.15
Mississippi	4.62	5.28	5.92	5.47
Missouri	6.45	6.95	7.12	6.88
Montana	6.00	6.81	6.90	6.54
Nebraska	4.33	4.81	5.23	4.73
Nevada	4.61	4.47	4.38	4.36
New Hampshire	8.88	9.13	10.27	10.13
New Jersey	6.81	7.07	8.67	8.11
New Mexico	4.61	5.02	5.91	5.57
New York	7.85	7.49	7.45	6.91
North Carolina	6.35	6.34	6.65	6.66
North Dakota	2.89	2.66	3.45	3.96
Ohio	6.54	5.85	6.56	6.87
Oklahoma	3.21	2.93	3.82	4.22
Oregon	5.29	5.43	5.39	5.25
Pennsylvania	8.68	8.01	7.92	7.79
Rhode Island	8.67	8.39	8.34	8.06
South Carolina	4.83	4.46	5.14	5.78
South Dakota	4.57	5.01	5.36	5.20
Tennessee	4.93	5.03	5.61	5.76
Texas	3.34	2.81	3.43	3.84
Utah	5.70	5.87	5.98	6.03
Vermont	5.04	5.34	5.67	6.02
Virginia	4.87	4.67	5.61	5.38
Washington	7.52	7.35	7.59	7.19
West Virginia	2.90	3.16	3.46	3.11
Wisconsin	5.82	5.34	5.55	6.32
Wyoming	4.24	4.37	4.52	4.18
Total	4.13	3.94	4.56	4.87

-- 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, 2017-2019
(dollars per thousand cubic feet)

State	2019	2018	2017	2019				
	7-Month YTD	7-Month YTD	7-Month YTD	July	June	May	April	March
Alabama	W	W	W	W	W	W	W	W
Alaska	7.80	8.06	8.09	7.87	7.87	7.87	7.87	7.72
Arizona	W	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W	W
California	W	W	W	3.38	3.04	2.88	3.28	4.53
Colorado	W	W	W	W	W	W	W	W
Connecticut	3.72	4.88	W	2.47	2.37	2.53	2.78	4.10
Delaware	--	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--
Florida	W	W	W	W	W	W	W	W
Georgia	W	W	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--	--	--
Idaho	8.90	2.65	--	2.22	2.37	24.46	--	40.19
Illinois	W	W	W	W	2.47	2.54	2.65	W
Indiana	W	W	W	2.49	2.62	2.80	2.79	W
Iowa	3.08	2.87	3.47	2.24	2.23	2.47	2.55	2.75
Kansas	2.89	3.10	3.68	2.48	2.23	2.46	2.68	5.76
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	W	3.88	2.72	2.79	3.02	3.12	3.50
Massachusetts	W	W	W	3.30	3.11	W	4.71	5.22
Michigan	2.92	3.18	3.32	2.55	2.56	2.75	2.83	3.33
Minnesota	W	W	W	W	W	W	3.08	W
Mississippi	W	W	W	W	W	W	W	W
Missouri	W	W	3.10	W	W	W	W	W
Montana	1.83	1.44	2.08	1.17	0.77	1.60	0.87	2.98
Nebraska	3.14	3.78	4.09	2.81	2.70	2.86	3.64	4.02
Nevada	3.42	2.93	3.65	2.54	2.47	2.67	3.02	4.36
New Hampshire	W	W	W	W	W	W	W	W
New Jersey	3.16	3.32	3.15	2.58	2.48	2.61	2.60	3.71
New Mexico	1.23	2.67	3.63	0.85	0.47	0.57	0.51	1.48
New York	3.38	4.03	3.71	2.39	2.53	2.59	2.76	3.90
North Carolina	W	W	W	W	W	W	W	W
North Dakota	3.99	6.93	5.26	3.39	3.28	3.70	2.68	4.39
Ohio	2.75	2.99	3.19	2.33	2.37	2.55	2.68	3.09
Oklahoma	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W
Pennsylvania	2.68	3.10	2.91	2.26	2.27	2.40	2.50	2.84
Rhode Island	W	W	W	W	W	W	W	W
South Carolina	W	W	W	2.95	3.08	3.25	3.45	3.55
South Dakota	--	--	--	--	--	--	--	--
Tennessee	2.99	2.94	3.10	2.63	2.79	2.82	3.31	3.11
Texas	2.55	3.05	3.19	2.21	2.21	2.43	2.48	2.83
Utah	3.45	2.81	W	2.33	2.34	2.34	3.12	4.22
Vermont	--	--	--	--	--	--	--	--
Virginia	W	W	W	2.73	2.82	3.27	3.49	3.87
Washington	W	W	4.42	W	W	W	W	W
West Virginia	W	W	W	W	W	W	W	3.58
Wisconsin	W	3.20	W	W	2.45	2.63	2.82	3.45
Wyoming	W	W	W	2.15	2.17	W	W	W
Total	3.18	3.60	3.60	2.62	2.67	2.86	2.98	3.59

See footnotes at end of table.

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2019							2018
	February	January	Total	December	November	October	September	August
Alabama	W	W	W	W	W	W	W	W
Alaska	7.72	7.72	8.03	7.72	7.72	7.72	7.72	7.72
Arizona	W	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W	W
California	W	W	4.77	6.34	W	3.78	3.58	5.88
Colorado	W	W	W	W	W	W	W	W
Connecticut	5.34	7.12	4.74	7.41	5.37	3.67	3.21	3.22
Delaware	--	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--
Florida	W	W	W	W	W	W	W	W
Georgia	W	W	W	W	W	W	3.55	W
Hawaii	--	--	--	--	--	--	--	--
Idaho	8.54	3.48	3.60	5.43	4.93	--	2.86	2.69
Illinois	W	3.92	3.29	W	W	3.50	3.11	3.15
Indiana	W	3.44	3.44	W	W	3.54	3.28	3.24
Iowa	7.22	3.12	3.02	3.81	3.61	3.26	2.90	3.12
Kansas	3.93	4.00	3.33	5.54	4.20	4.06	3.01	3.23
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
Maryland	3.71	W	4.00	W	4.44	3.38	3.38	3.47
Massachusetts	W	W	5.00	W	5.75	W	3.05	3.21
Michigan	3.08	3.53	3.41	4.36	4.35	3.72	3.37	3.40
Minnesota	W	W	W	6.08	W	W	W	W
Mississippi	W	W	W	W	W	W	W	W
Missouri	W	W	W	W	W	W	W	W
Montana	2.77	1.79	1.36	1.19	1.56	1.01	1.41	1.04
Nebraska	3.83	4.01	3.96	5.22	4.82	4.15	3.93	3.66
Nevada	5.13	4.53	3.28	6.45	4.03	2.96	2.82	3.37
New Hampshire	W	W	W	W	W	W	W	W
New Jersey	3.99	4.58	3.25	3.99	3.80	2.76	2.63	2.94
New Mexico	2.28	2.72	2.53	2.42	2.51	2.35	2.19	2.45
New York	4.46	5.76	3.85	5.42	4.44	3.20	3.01	3.21
North Carolina	W	W	W	W	W	W	W	W
North Dakota	4.77	6.16	5.49	6.65	8.85	4.67	5.16	3.17
Ohio	2.92	3.40	3.27	4.23	4.17	3.36	3.04	3.03
Oklahoma	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W
Pennsylvania	3.01	3.66	3.12	3.92	3.83	2.74	2.55	2.80
Rhode Island	W	W	W	W	W	W	W	W
South Carolina	W	W	W	W	W	W	W	W
South Dakota	--	--	--	--	--	--	--	--
Tennessee	3.09	3.50	3.14	4.35	3.88	3.27	2.92	2.87
Texas	2.82	3.21	3.17	3.87	3.81	3.29	2.97	3.05
Utah	5.49	4.49	3.23	5.92	4.16	2.89	2.73	2.87
Vermont	--	--	--	--	--	--	--	--
Virginia	W	W	4.40	W	4.60	3.67	3.23	3.37
Washington	W	W	W	W	W	W	W	W
West Virginia	3.30	3.66	W	5.07	W	W	W	W
Wisconsin	3.64	3.72	3.32	3.97	3.96	3.39	3.05	3.04
Wyoming	3.10	W	W	W	W	W	2.96	W
Total	3.79	4.16	3.68	4.89	4.32	3.50	3.21	3.39

See footnotes at end of table.

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2018							2017
	July	June	May	April	March	February	January	Total
Alabama	W	W	W	W	W	W	W	W
Alaska	7.76	7.76	7.76	7.76	8.44	8.44	8.44	8.10
Arizona	W	W	W	W	W	3.33	W	3.68
Arkansas	W	W	W	W	W	W	W	W
California	7.92	3.36	2.88	3.06	W	3.72	3.79	W
Colorado	W	W	W	W	W	W	W	W
Connecticut	3.04	2.79	2.74	3.92	4.25	7.69	11.06	W
Delaware	--	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--
Florida	W	W	W	W	W	W	W	W
Georgia	W	W	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--	--	--
Idaho	2.63	2.27	--	--	--	3.32	--	--
Illinois	3.10	2.90	3.17	W	W	W	4.90	3.11
Indiana	3.07	3.14	3.10	W	W	W	4.32	W
Iowa	2.78	2.79	2.63	2.84	2.54	2.65	4.17	3.24
Kansas	3.27	2.95	2.67	3.10	3.03	3.46	4.32	3.68
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	3.34	3.47	3.56	3.27	3.24	W	W	W
Massachusetts	2.90	2.84	2.47	5.54	4.27	W	14.30	3.82
Michigan	3.20	3.18	2.98	3.11	2.86	2.99	3.97	3.27
Minnesota	W	W	W	W	W	W	W	W
Mississippi	W	W	W	W	W	W	W	W
Missouri	W	W	W	W	W	W	W	3.03
Montana	1.26	1.01	1.14	1.26	1.68	1.82	2.06	1.85
Nebraska	3.24	3.37	3.05	3.94	4.53	4.74	6.76	4.19
Nevada	3.08	2.60	2.40	2.76	2.91	3.39	3.37	3.50
New Hampshire	W	W	W	W	W	W	W	W
New Jersey	2.71	2.70	2.52	2.90	2.95	3.07	7.90	3.01
New Mexico	2.59	2.64	2.18	2.04	2.59	3.06	4.18	3.58
New York	3.09	2.95	2.82	3.19	3.50	5.50	8.21	3.44
North Carolina	W	W	W	W	W	W	W	W
North Dakota	5.63	5.39	2.24	5.50	2.74	16.91	15.38	5.31
Ohio	2.98	2.95	2.76	2.87	2.72	2.96	3.63	3.05
Oklahoma	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W
Pennsylvania	2.62	2.53	2.44	2.65	2.66	3.36	5.92	2.58
Rhode Island	W	W	W	W	W	W	W	W
South Carolina	W	W	W	W	W	3.68	W	W
South Dakota	--	--	--	--	--	--	--	--
Tennessee	2.73	2.91	2.61	2.59	2.77	3.17	3.61	3.04
Texas	2.95	3.01	2.87	2.84	2.75	2.90	4.07	3.13
Utah	2.73	2.61	2.49	2.54	2.89	3.39	3.19	W
Vermont	--	--	--	--	--	--	--	--
Virginia	3.23	3.29	3.24	3.50	W	W	W	3.48
Washington	W	W	W	W	W	W	W	4.11
West Virginia	W	W	W	W	W	W	W	W
Wisconsin	2.96	3.10	2.96	3.24	2.92	3.38	3.99	W
Wyoming	W	W	W	W	W	W	W	W
Total	3.41	3.21	3.15	3.25	3.32	3.74	5.35	3.52

See footnotes at end of table.

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017							
	December	November	October	September	August	July	June	May
Alabama	W	W	W	W	W	W	W	W
Alaska	8.13	8.13	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	W	4.17	2.86	2.67	W	W	W	W
Delaware	--	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--
Florida	4.58	4.38	W	W	W	W	4.33	W
Georgia	W	W	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--	--
Illinois	W	W	W	W	W	3.23	3.06	W
Indiana	W	W	W	W	W	W	W	W
Iowa	5.61	3.18	2.76	2.87	2.80	2.92	2.74	2.84
Kansas	4.27	3.52	3.24	3.65	3.44	3.22	3.43	4.10
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	--
Maryland	4.89	3.28	3.21	3.00	3.27	3.44	3.25	3.37
Massachusetts	8.72	W	W	2.29	2.42	2.58	2.65	3.36
Michigan	3.09	3.30	3.11	3.29	3.23	3.21	3.22	3.44
Minnesota	3.16	W	W	W	W	W	W	W
Mississippi	W	W	W	W	W	W	W	W
Missouri	2.97	2.73	2.68	3.10	3.19	3.07	3.22	3.40
Montana	1.98	1.91	0.72	1.49	1.52	1.52	2.10	2.49
Nebraska	5.97	4.89	4.02	4.12	3.64	3.48	3.51	4.03
Nevada	3.47	3.40	3.14	3.35	3.27	3.29	3.48	3.49
New Hampshire	W	W	W	W	W	W	W	W
New Jersey	5.39	2.95	1.63	2.04	2.19	2.44	2.42	3.24
New Mexico	3.67	3.69	3.36	3.45	3.50	3.53	3.51	3.69
New York	5.12	3.40	2.33	2.36	2.56	2.75	2.96	3.29
North Carolina	W	W	W	W	W	W	W	W
North Dakota	7.74	5.43	8.67	4.98	6.35	6.14	4.36	4.37
Ohio	3.00	2.94	2.89	2.81	2.76	2.91	3.06	3.22
Oklahoma	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W
Pennsylvania	3.93	2.37	1.47	1.71	2.03	2.27	2.39	3.00
Rhode Island	W	W	W	W	W	W	W	W
South Carolina	W	W	W	W	W	W	W	W
South Dakota	--	--	--	--	--	--	--	--
Tennessee	3.02	2.92	2.88	2.99	2.86	2.93	3.07	2.96
Texas	2.95	3.10	3.11	3.11	3.03	3.11	3.17	3.29
Utah	W	W	W	W	W	W	W	W
Vermont	--	--	--	--	--	--	--	--
Virginia	W	W	W	2.67	2.94	3.09	3.10	3.59
Washington	4.13	4.39	3.70	3.94	3.62	4.03	5.16	3.85
West Virginia	W	W	W	W	W	W	W	W
Wisconsin	3.04	3.39	3.16	3.23	3.16	W	W	W
Wyoming	3.10	3.69	W	W	W	W	W	W
Total	3.81	3.50	3.27	3.31	3.27	3.32	3.41	3.61

See footnotes at end of table.

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017			
	April	March	February	January
Alabama	W	W	W	W
Alaska	8.09	8.09	8.09	8.09
Arizona	W	W	W	W
Arkansas	W	W	W	W
California	W	W	W	W
Colorado	W	W	W	W
Connecticut	W	W	5.84	8.10
Delaware	--	--	--	--
District of Columbia	--	--	--	--
Florida	3.59	4.02	4.38	4.92
Georgia	W	W	W	W
Hawaii	--	--	--	--
Idaho	--	--	--	--
Illinois	W	W	W	W
Indiana	W	W	W	W
Iowa	2.85	4.71	4.85	5.12
Kansas	3.88	3.52	4.82	4.92
Kentucky	W	W	5.96	W
Louisiana	W	W	W	W
Maine	W	W	W	W
Maryland	3.40	4.90	4.25	5.50
Massachusetts	3.47	4.35	W	W
Michigan	3.45	3.16	3.18	3.63
Minnesota	3.40	W	3.49	4.49
Mississippi	W	W	W	W
Missouri	3.03	2.59	3.05	3.43
Montana	2.22	2.09	2.25	2.36
Nebraska	4.37	5.17	6.48	5.61
Nevada	3.74	3.60	3.80	4.37
New Hampshire	W	W	W	W
New Jersey	3.34	3.45	3.64	4.06
New Mexico	3.85	3.27	3.65	4.02
New York	3.39	4.26	4.54	5.41
North Carolina	W	W	W	W
North Dakota	4.42	5.52	4.80	6.31
Ohio	3.28	2.93	3.26	3.84
Oklahoma	W	W	W	W
Oregon	W	W	W	W
Pennsylvania	3.00	2.86	3.21	4.12
Rhode Island	W	W	W	W
South Carolina	W	W	W	W
South Dakota	--	--	--	--
Tennessee	3.04	3.00	3.09	3.82
Texas	3.22	3.02	3.13	3.47
Utah	W	W	W	W
Vermont	--	--	--	--
Virginia	3.67	W	W	W
Washington	3.67	3.74	5.57	4.95
West Virginia	3.36	W	W	W
Wisconsin	W	W	W	W
Wyoming	W	10.87	W	4.04
Total	3.50	3.52	3.74	4.33

^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, 2017-2019

State	2019 7-Month YTD			2018 7-Month YTD			2017 7-Month YTD		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	NA	NA	24.4	100.0	80.4	26.1	100.0	77.7	25.9
Alaska	100.0	NA	100.0	100.0	98.7	100.0	100.0	98.7	100.0
Arizona	100.0	75.2	NA	100.0	NA	NA	100.0	83.0	14.2
Arkansas	NA	NA	1.6	100.0	44.2	NA	100.0	39.6	1.4
California	94.9	54.0	4.5	94.9	53.1	4.2	95.1	54.1	4.2
Colorado	100.0	94.1	8.0	100.0	94.0	7.3	100.0	93.7	7.2
Connecticut	96.4	78.0	51.7	NA	77.9	50.5	96.2	77.1	50.7
Delaware	100.0	NA	NA	NA	NA	NA	100.0	39.7	0.5
District of Columbia	NA	21.2	0.0	76.0	NA	0.0	73.7	20.8	--
Florida	NA	NA	NA	91.6	29.8	3.9	91.2	30.7	3.4
Georgia	NA	NA	NA	100.0	100.0	NA	100.0	100.0	25.0
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	NA	2.9	100.0	NA	2.8	100.0	77.3	2.7
Illinois	86.6	35.8	NA	85.7	34.9	NA	85.1	34.3	6.1
Indiana	96.2	66.4	1.6	96.0	66.7	NA	95.6	65.0	1.7
Iowa	NA	NA	2.6	100.0	NA	NA	100.0	69.0	2.5
Kansas	NA	NA	NA	100.0	55.4	7.0	100.0	51.4	6.6
Kentucky	97.2	NA	17.6	96.9	80.1	NA	96.5	78.1	17.4
Louisiana	100.0	79.3	3.4	NA	NA	NA	100.0	79.3	3.5
Maine	100.0	65.1	8.1	100.0	NA	9.2	100.0	61.5	9.3
Maryland	75.5	NA	NA	NA	NA	NA	74.3	26.5	4.4
Massachusetts	97.5	43.9	29.4	NA	NA	29.7	98.4	47.5	26.8
Michigan	94.1	59.8	7.4	93.5	NA	NA	93.1	56.4	7.5
Minnesota	100.0	89.1	19.2	NA	NA	NA	100.0	88.7	16.3
Mississippi	100.0	84.9	NA	99.7	NA	8.7	100.0	84.0	9.0
Missouri	100.0	75.2	13.8	100.0	76.0	14.8	100.0	73.6	12.6
Montana	99.6	NA	1.9	NA	NA	1.7	99.4	52.2	1.8
Nebraska	88.0	56.3	6.7	88.3	57.4	6.4	87.7	56.8	6.7
Nevada	100.0	62.3	NA	100.0	59.9	14.6	100.0	61.2	14.9
New Hampshire	100.0	58.2	8.8	100.0	57.2	NA	100.0	55.0	5.2
New Jersey	96.3	46.9	10.9	95.2	NA	NA	94.5	45.2	7.6
New Mexico	NA	NA	5.7	100.0	59.0	NA	100.0	57.3	6.1
New York	100.0	NA	6.0	100.0	100.0	NA	100.0	100.0	6.3
North Carolina	NA	NA	NA	100.0	NA	NA	100.0	82.5	11.2
North Dakota	100.0	93.4	36.4	100.0	NA	36.8	100.0	93.0	37.8
Ohio	100.0	100.0	1.0	100.0	100.0	NA	100.0	100.0	1.0
Oklahoma	100.0	49.2	7.3	100.0	49.9	NA	100.0	47.2	7.3
Oregon	NA	NA	NA	100.0	NA	15.7	100.0	94.6	15.5
Pennsylvania	86.1	NA	NA	86.6	37.8	NA	87.6	37.9	1.1
Rhode Island	100.0	52.9	4.6	100.0	53.6	NA	100.0	52.5	3.8
South Carolina	100.0	91.4	NA	100.0	NA	NA	100.0	91.3	40.6
South Dakota	NA	NA	NA	NA	NA	NA	100.0	81.8	4.1
Tennessee	100.0	89.6	22.2	100.0	NA	NA	100.0	88.1	23.8
Texas	99.9	72.7	31.4	NA	74.1	36.0	99.8	71.5	38.5
Utah	100.0	NA	2.3	100.0	NA	3.0	100.0	74.4	4.5
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	89.5	51.3	NA	NA	NA	NA	89.3	50.7	10.2
Washington	100.0	86.0	NA	100.0	NA	NA	100.0	86.3	6.9
West Virginia	100.0	54.9	NA	NA	57.3	4.2	100.0	52.5	3.8
Wisconsin	100.0	74.5	16.5	100.0	74.1	17.9	100.0	72.6	16.1
Wyoming	70.1	57.3	NA	70.3	48.9	1.6	71.4	49.8	1.7
Total	96.0	66.5	13.1	95.8	66.5	14.4	95.7	66.2	14.6

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2017-2019 – continued

State	2019								
	July			June			May		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	NA	23.0	100.0	74.2	23.0	NA	NA	23.6
Alaska	100.0	NA	100.0	100.0	NA	100.0	100.0	NA	100.0
Arizona	100.0	72.3	NA	100.0	74.3	18.1	100.0	72.6	16.6
Arkansas	100.0	22.0	1.2	100.0	23.9	1.1	100.0	28.0	1.1
California	94.8	47.2	3.4	94.5	53.3	3.9	94.9	55.6	4.4
Colorado	100.0	90.7	6.1	100.0	90.9	6.1	100.0	92.7	6.9
Connecticut	95.5	72.5	50.3	95.5	73.1	47.7	95.2	74.8	51.0
Delaware	100.0	22.1	NA	100.0	27.6	0.2	100.0	28.9	0.1
District of Columbia	70.7	15.9	0.0	73.2	16.3	0.0	72.3	17.7	0.0
Florida	NA	NA	NA	91.2	NA	2.8	90.9	28.4	2.9
Georgia	NA	NA	NA	100.0	100.0	25.5	100.0	100.0	23.7
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	58.1	2.9	100.0	57.8	2.8	100.0	65.1	2.9
Illinois	85.3	21.8	NA	82.8	22.9	2.3	83.2	28.5	NA
Indiana	95.6	54.0	0.7	95.8	52.3	0.7	95.7	55.6	0.9
Iowa	NA	NA	2.3	100.0	54.2	1.6	100.0	56.2	2.0
Kansas	100.0	25.3	16.8	100.0	28.1	4.4	100.0	36.3	4.0
Kentucky	97.9	64.9	18.6	97.6	NA	17.8	96.9	69.0	18.8
Louisiana	100.0	77.6	3.9	100.0	75.1	3.6	100.0	77.4	3.1
Maine	100.0	47.4	6.4	100.0	55.9	6.8	100.0	59.8	6.2
Maryland	72.8	20.7	NA	73.6	17.4	1.0	74.2	NA	2.7
Massachusetts	97.5	29.4	27.3	97.0	35.3	25.0	97.2	38.8	24.5
Michigan	94.4	36.3	2.2	94.2	43.6	2.9	93.9	47.5	3.7
Minnesota	100.0	75.2	21.8	100.0	79.6	11.8	100.0	83.5	11.8
Mississippi	100.0	78.2	8.1	100.0	78.4	9.0	100.0	79.8	NA
Missouri	100.0	58.9	7.6	100.0	61.1	9.1	100.0	65.0	10.4
Montana	99.5	31.4	0.9	99.6	39.1	1.0	99.6	NA	1.6
Nebraska	88.8	40.1	5.5	85.7	39.7	5.7	85.7	47.2	6.0
Nevada	100.0	50.7	10.6	100.0	54.1	11.7	100.0	55.1	14.2
New Hampshire	100.0	50.1	4.7	100.0	51.1	5.3	100.0	53.7	6.6
New Jersey	96.3	24.9	6.9	96.6	36.5	3.6	96.6	40.5	6.4
New Mexico	100.0	50.2	9.9	100.0	46.0	7.7	100.0	NA	7.6
New York	100.0	100.0	3.7	100.0	100.0	4.1	100.0	100.0	4.7
North Carolina	100.0	78.4	9.8	NA	NA	9.9	NA	80.3	10.8
North Dakota	100.0	87.1	38.5	100.0	89.2	38.6	100.0	91.5	38.8
Ohio	100.0	100.0	0.6	100.0	100.0	0.7	100.0	100.0	0.7
Oklahoma	100.0	29.5	3.1	100.0	31.9	7.8	100.0	36.8	7.0
Oregon	100.0	92.8	13.5	NA	NA	13.1	100.0	93.5	NA
Pennsylvania	85.7	25.7	0.4	85.4	26.5	0.5	85.9	NA	0.6
Rhode Island	100.0	53.2	3.5	100.0	47.2	4.1	100.0	49.2	4.3
South Carolina	100.0	89.4	37.2	100.0	91.0	39.1	100.0	86.7	NA
South Dakota	NA	NA	NA	100.0	75.8	NA	100.0	78.5	3.4
Tennessee	100.0	81.2	19.2	100.0	81.3	19.6	100.0	83.4	21.0
Texas	98.5	64.1	32.0	99.6	62.8	30.6	99.8	64.7	31.7
Utah	100.0	50.5	1.9	100.0	53.9	2.1	100.0	NA	2.3
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	87.1	38.8	6.5	86.6	39.1	8.4	86.3	43.0	7.8
Washington	100.0	80.4	3.9	100.0	80.1	3.8	100.0	82.1	5.2
West Virginia	100.0	30.0	3.8	100.0	27.4	3.6	100.0	34.1	3.4
Wisconsin	100.0	48.8	11.4	100.0	58.2	8.5	100.0	64.0	11.5
Wyoming	71.9	56.8	NA	69.2	53.6	0.8	71.1	57.2	1.1
Total	95.9	56.1	12.8	95.6	58.7	12.2	95.7	60.8	12.4

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2017-2019 – continued

State	2019								
	April			March			February		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	77.9	24.8	100.0	79.5	25.1	100.0	85.1	26.2
Alaska	100.0	NA	100.0	100.0	NA	100.0	100.0	NA	100.0
Arizona	100.0	74.0	16.0	100.0	76.5	14.2	100.0	77.3	14.7
Arkansas	100.0	39.8	1.6	NA	NA	2.2	100.0	53.3	1.8
California	94.2	55.8	4.6	94.6	55.5	4.9	95.5	55.4	6.1
Colorado	100.0	92.6	6.7	100.0	95.1	9.6	100.0	94.8	9.2
Connecticut	95.8	78.3	52.3	96.7	79.7	52.8	96.7	80.1	53.8
Delaware	100.0	41.1	0.2	100.0	NA	0.4	100.0	44.9	0.4
District of Columbia	75.5	21.1	0.0	76.6	23.9	0.0	NA	23.5	0.0
Florida	90.5	NA	NA	90.6	28.9	NA	91.4	30.7	3.7
Georgia	100.0	100.0	23.5	100.0	100.0	24.1	100.0	100.0	24.6
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	72.0	3.1	100.0	80.9	2.7	100.0	NA	2.9
Illinois	83.8	30.7	6.3	86.5	37.9	NA	86.8	40.1	11.1
Indiana	96.3	59.4	1.5	96.3	68.5	2.1	96.3	68.7	2.4
Iowa	100.0	62.6	2.2	100.0	70.2	3.0	100.0	71.7	3.7
Kansas	NA	NA	NA	100.0	63.2	1.3	100.0	65.5	1.2
Kentucky	96.3	74.7	17.5	97.3	82.7	19.9	96.9	82.8	16.0
Louisiana	100.0	79.4	3.4	100.0	80.1	2.9	100.0	82.3	3.4
Maine	100.0	64.9	7.7	100.0	67.7	9.2	100.0	69.4	9.7
Maryland	74.7	18.9	2.6	76.9	29.6	6.0	76.3	27.9	5.2
Massachusetts	97.3	46.8	28.9	97.5	48.0	34.1	97.5	44.6	31.0
Michigan	93.7	57.7	6.4	93.9	63.1	10.0	94.0	63.4	10.7
Minnesota	100.0	87.4	18.2	100.0	90.4	21.6	100.0	91.1	23.6
Mississippi	100.0	82.3	NA	100.0	87.3	8.2	100.0	87.8	10.5
Missouri	100.0	73.4	13.9	100.0	79.0	16.7	100.0	80.1	18.1
Montana	99.6	51.1	1.7	99.6	57.3	3.4	99.6	54.9	2.6
Nebraska	87.3	54.6	6.9	88.5	61.4	8.0	88.5	60.4	8.0
Nevada	100.0	59.6	17.0	100.0	66.4	15.2	100.0	67.5	NA
New Hampshire	100.0	57.7	9.7	100.0	60.3	12.2	100.0	59.9	9.7
New Jersey	96.8	40.9	8.8	96.3	53.0	14.8	96.4	51.0	15.8
New Mexico	NA	NA	5.7	100.0	60.8	3.6	100.0	64.0	3.1
New York	100.0	100.0	6.1	100.0	100.0	6.9	100.0	100.0	7.6
North Carolina	100.0	81.8	12.6	100.0	87.9	NA	100.0	88.2	15.2
North Dakota	100.0	91.9	34.2	100.0	93.9	36.9	100.0	94.4	29.3
Ohio	100.0	100.0	0.9	100.0	100.0	1.1	100.0	100.0	1.3
Oklahoma	100.0	50.0	7.9	100.0	56.0	7.9	100.0	53.3	8.7
Oregon	100.0	94.5	15.7	100.0	95.6	16.2	100.0	95.3	17.2
Pennsylvania	84.4	34.5	1.1	86.2	38.8	NA	86.3	39.5	NA
Rhode Island	100.0	49.6	4.3	100.0	54.8	5.4	100.0	53.8	5.0
South Carolina	100.0	89.1	36.5	100.0	92.5	40.6	100.0	92.5	41.0
South Dakota	100.0	82.0	5.3	100.0	82.9	NA	100.0	81.5	7.3
Tennessee	100.0	88.7	22.6	100.0	91.3	23.4	100.0	92.5	23.8
Texas	99.9	69.0	31.1	100.0	77.8	31.7	100.0	77.0	31.4
Utah	100.0	62.6	2.3	100.0	70.3	2.2	100.0	71.2	2.4
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	85.4	43.1	9.9	89.9	55.6	NA	89.7	54.8	10.3
Washington	100.0	82.1	7.3	100.0	87.5	8.1	100.0	89.9	8.9
West Virginia	100.0	48.2	3.8	100.0	62.8	NA	100.0	64.1	3.2
Wisconsin	100.0	71.5	16.2	100.0	78.1	20.4	100.0	79.4	21.9
Wyoming	70.9	58.6	NA	69.4	57.8	1.4	70.2	57.0	1.4
Total	95.6	64.2	12.9	96.0	69.1	13.6	96.1	69.4	14.0

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2017-2019 – continued

State	2019						2018		
	January			Total			December		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	80.9	25.0	100.0	78.8	25.8	100.0	82.0	26.1
Alaska	100.0	NA	100.0	100.0	NA	100.0	100.0	NA	100.0
Arizona	100.0	76.4	13.8	NA	NA	NA	100.0	73.5	12.7
Arkansas	100.0	49.3	1.8	100.0	40.2	NA	100.0	46.4	1.9
California	95.0	53.3	4.2	NA	NA	NA	95.3	54.6	4.4
Colorado	100.0	95.2	9.4	100.0	NA	NA	100.0	94.9	8.5
Connecticut	96.6	79.2	52.1	NA	76.9	50.9	96.7	78.1	54.7
Delaware	100.0	41.4	0.3	NA	NA	NA	100.0	42.5	0.4
District of Columbia	75.8	21.1	0.0	75.6	NA	0.0	76.3	23.7	0.0
Florida	91.1	NA	3.2	91.6	NA	NA	91.4	32.1	NA
Georgia	100.0	100.0	24.1	100.0	100.0	NA	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	83.3	2.7	100.0	NA	2.9	100.0	84.0	3.0
Illinois	89.1	41.5	9.7	86.8	34.7	NA	87.8	38.7	9.8
Indiana	96.2	72.1	2.3	NA	NA	NA	96.2	69.7	2.1
Iowa	100.0	71.9	3.0	100.0	NA	NA	100.0	68.3	3.6
Kansas	100.0	63.1	1.2	NA	52.6	6.1	NA	58.0	0.9
Kentucky	97.6	82.6	15.1	NA	79.5	NA	97.2	82.1	17.2
Louisiana	100.0	80.1	3.4	NA	NA	NA	100.0	79.5	2.9
Maine	100.0	66.5	9.5	100.0	NA	8.4	100.0	66.2	9.0
Maryland	74.7	33.5	8.4	NA	NA	NA	76.2	31.4	4.4
Massachusetts	97.6	45.7	30.5	NA	NA	28.4	97.5	48.3	29.8
Michigan	94.6	66.1	10.5	93.7	NA	NA	93.5	61.4	10.0
Minnesota	100.0	92.1	22.1	NA	NA	NA	100.0	NA	22.0
Mississippi	100.0	88.7	NA	99.8	NA	8.6	100.0	87.5	9.2
Missouri	100.0	77.6	15.8	100.0	74.1	NA	100.0	77.3	NA
Montana	99.6	52.2	2.0	NA	NA	1.5	99.5	48.5	2.0
Nebraska	87.9	59.2	7.1	88.2	55.2	6.1	88.6	58.9	6.8
Nevada	100.0	67.6	17.3	100.0	58.6	14.3	100.0	66.0	20.6
New Hampshire	100.0	59.5	11.1	100.0	56.4	NA	100.0	58.0	8.0
New Jersey	96.0	51.0	15.7	95.5	NA	NA	95.9	43.9	NA
New Mexico	100.0	61.1	3.0	NA	NA	NA	100.0	NA	6.0
New York	100.0	NA	7.3	100.0	100.0	NA	100.0	100.0	7.3
North Carolina	100.0	90.6	15.2	100.0	NA	NA	100.0	89.0	14.2
North Dakota	100.0	95.0	37.6	100.0	NA	37.2	100.0	94.4	41.8
Ohio	100.0	100.0	1.2	100.0	100.0	NA	100.0	100.0	1.3
Oklahoma	100.0	50.8	8.0	100.0	45.4	NA	100.0	48.3	8.0
Oregon	100.0	95.1	16.2	100.0	NA	15.6	100.0	95.4	17.0
Pennsylvania	86.9	40.9	NA	NA	36.9	NA	NA	38.8	1.5
Rhode Island	100.0	55.2	5.3	100.0	53.5	NA	100.0	54.1	5.6
South Carolina	100.0	94.3	40.1	100.0	NA	NA	100.0	NA	39.5
South Dakota	100.0	81.4	6.5	NA	NA	NA	100.0	81.7	7.5
Tennessee	100.0	92.5	24.8	100.0	NA	NA	100.0	91.5	25.3
Texas	100.0	78.7	31.3	NA	72.2	35.7	99.9	76.6	33.6
Utah	100.0	74.6	2.6	100.0	NA	2.8	100.0	72.4	2.7
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	91.6	59.4	11.5	NA	NA	NA	91.1	56.3	11.0
Washington	100.0	88.0	NA	100.0	NA	NA	100.0	89.4	10.3
West Virginia	100.0	65.1	3.5	NA	55.1	4.1	100.0	61.4	3.7
Wisconsin	100.0	79.1	18.8	100.0	73.0	17.8	100.0	78.6	19.6
Wyoming	69.9	57.6	1.1	70.2	50.7	1.4	68.9	56.7	1.2
Total	96.3	70.2	13.6	96.0	65.6	14.2	96.2	68.8	14.3

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2017-2019 – continued

State	2018								
	November			October			September		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	73.5	25.4	100.0	70.2	25.7	100.0	73.2	24.1
Alaska	100.0	99.1	100.0	100.0	98.2	100.0	100.0	95.8	100.0
Arizona	100.0	71.3	13.3	100.0	70.8	13.4	100.0	NA	14.3
Arkansas	100.0	35.5	1.7	100.0	25.0	1.3	100.0	23.9	1.3
California	94.9	NA	4.2	94.5	46.7	4.6	94.4	48.2	3.5
Colorado	100.0	95.1	8.4	100.0	94.5	6.6	100.0	90.2	NA
Connecticut	95.8	75.6	51.1	94.8	73.3	46.6	95.3	72.0	52.3
Delaware	100.0	NA	NA	100.0	19.5	0.3	100.0	NA	NA
District of Columbia	74.0	22.1	0.0	71.1	20.3	0.0	73.2	18.8	0.0
Florida	90.6	30.2	2.9	91.5	27.8	2.9	91.9	27.0	NA
Georgia	100.0	100.0	24.0	100.0	100.0	25.1	100.0	100.0	24.5
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	79.3	2.8	100.0	70.7	2.6	100.0	61.5	3.0
Illinois	90.3	39.5	NA	90.9	33.9	4.8	87.9	21.1	3.1
Indiana	96.1	68.2	1.8	95.5	66.4	NA	NA	NA	NA
Iowa	100.0	69.9	3.7	100.0	64.5	2.7	100.0	NA	1.9
Kansas	100.0	58.2	1.0	100.0	38.3	2.0	100.0	27.7	6.0
Kentucky	98.2	79.7	15.1	98.7	75.8	16.3	NA	70.1	16.1
Louisiana	100.0	74.6	4.0	100.0	72.5	3.6	100.0	76.1	3.5
Maine	100.0	60.3	8.8	100.0	50.2	7.0	100.0	46.7	5.6
Maryland	77.2	26.7	3.2	77.5	NA	2.3	72.7	NA	NA
Massachusetts	97.6	39.9	27.7	97.4	32.5	21.9	97.4	28.7	23.5
Michigan	94.3	61.1	6.6	94.8	48.7	5.5	94.4	42.6	2.6
Minnesota	100.0	89.0	22.4	100.0	86.2	17.6	100.0	80.6	15.6
Mississippi	100.0	83.9	9.6	100.0	79.7	8.0	100.0	77.2	8.1
Missouri	100.0	71.7	12.5	100.0	62.1	9.3	100.0	57.4	9.7
Montana	99.5	44.0	1.3	99.5	42.4	1.2	99.4	26.0	0.7
Nebraska	87.3	51.7	5.9	86.1	44.6	5.0	89.3	41.0	5.4
Nevada	100.0	58.9	15.8	100.0	51.0	13.5	100.0	48.8	10.2
New Hampshire	100.0	55.1	6.1	100.0	48.0	4.6	100.0	47.0	3.7
New Jersey	96.0	41.1	NA	96.1	39.6	NA	95.6	29.7	NA
New Mexico	NA	NA	6.5	99.9	43.8	7.9	100.0	50.6	8.2
New York	100.0	100.0	4.7	100.0	100.0	4.1	100.0	100.0	3.3
North Carolina	100.0	88.0	12.6	100.0	85.8	11.0	100.0	NA	11.1
North Dakota	100.0	93.6	31.6	100.0	93.3	39.3	100.0	86.4	39.8
Ohio	100.0	100.0	1.1	100.0	100.0	NA	100.0	100.0	NA
Oklahoma	100.0	32.8	8.1	100.0	24.6	6.2	100.0	28.9	8.1
Oregon	100.0	94.6	15.7	100.0	93.6	14.9	100.0	92.4	16.0
Pennsylvania	88.7	37.3	0.9	89.2	31.3	0.5	87.5	26.7	0.3
Rhode Island	100.0	52.1	4.9	100.0	53.9	4.5	100.0	53.2	4.7
South Carolina	100.0	93.2	41.4	100.0	91.0	39.9	100.0	90.3	39.8
South Dakota	100.0	77.5	6.1	100.0	75.6	NA	100.0	70.0	1.6
Tennessee	100.0	88.3	NA	100.0	82.2	23.3	100.0	79.6	21.9
Texas	99.9	71.0	34.9	99.8	65.4	35.4	99.2	59.6	36.0
Utah	100.0	67.3	2.5	100.0	60.0	2.6	100.0	53.5	2.1
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	91.7	56.3	12.5	94.0	48.3	9.2	90.1	41.6	NA
Washington	100.0	88.1	7.3	100.0	86.0	5.6	100.0	82.0	NA
West Virginia	100.0	59.9	4.0	100.0	46.3	3.8	100.0	31.9	4.0
Wisconsin	100.0	75.2	19.3	100.0	67.0	19.0	100.0	53.4	15.6
Wyoming	70.1	57.1	1.1	69.7	56.6	0.9	72.5	47.2	1.0
Total	96.4	66.5	14.2	96.5	61.0	13.7	96.2	56.5	13.7

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2017-2019 – continued

State	2018								
	August			July			June		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	71.9	25.6	100.0	71.1	24.5	100.0	73.7	25.3
Alaska	100.0	95.5	100.0	100.0	95.8	100.0	100.0	96.6	100.0
Arizona	NA	NA	NA	100.0	69.6	12.7	100.0	NA	13.3
Arkansas	100.0	23.5	1.4	100.0	24.3	1.2	100.0	24.8	1.1
California	NA	NA	NA	94.5	49.1	3.3	94.6	50.6	4.0
Colorado	100.0	NA	5.8	100.0	90.3	5.8	100.0	90.7	5.1
Connecticut	95.1	71.6	51.6	95.1	72.6	50.1	95.3	72.9	48.6
Delaware	100.0	20.0	0.3	100.0	NA	NA	100.0	NA	NA
District of Columbia	68.5	17.9	0.0	68.9	14.1	0.0	69.0	21.7	0.0
Florida	92.0	NA	3.0	92.6	27.6	2.9	90.9	27.5	3.3
Georgia	100.0	100.0	24.7	100.0	100.0	23.4	100.0	100.0	NA
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	59.0	3.1	100.0	58.7	3.0	100.0	NA	3.2
Illinois	85.7	20.1	2.3	85.0	19.0	2.2	84.0	21.7	3.5
Indiana	95.6	54.2	0.7	95.5	52.6	0.7	95.5	52.6	0.7
Iowa	100.0	50.5	2.0	100.0	46.3	2.1	100.0	47.9	1.9
Kansas	100.0	24.8	13.7	100.0	26.3	16.7	100.0	29.5	11.7
Kentucky	97.9	68.0	16.7	97.8	66.6	16.8	97.6	66.2	17.6
Louisiana	100.0	76.1	4.5	100.0	75.9	4.2	100.0	76.7	4.0
Maine	100.0	NA	6.4	100.0	NA	6.1	100.0	52.1	7.1
Maryland	72.0	18.7	1.3	73.2	21.6	1.2	73.0	17.9	NA
Massachusetts	97.3	27.9	24.8	97.2	29.7	23.7	97.3	34.5	22.9
Michigan	94.0	37.1	2.0	94.1	NA	2.8	94.0	39.4	2.5
Minnesota	100.0	75.4	13.5	100.0	74.1	12.7	100.0	76.8	14.1
Mississippi	100.0	77.9	7.3	100.0	77.3	7.7	100.0	78.1	7.5
Missouri	100.0	58.4	9.9	100.0	58.7	8.3	100.0	60.9	9.6
Montana	99.4	31.0	0.8	99.4	37.8	0.7	99.4	41.9	0.7
Nebraska	89.5	39.5	5.2	89.4	42.2	5.1	89.0	39.9	5.4
Nevada	100.0	46.9	8.7	100.0	48.6	8.2	100.0	50.6	10.9
New Hampshire	100.0	48.1	2.5	100.0	48.6	3.0	100.0	49.7	NA
New Jersey	95.6	25.9	NA	95.5	NA	5.4	95.5	30.9	NA
New Mexico	100.0	49.9	9.3	99.9	37.6	NA	100.0	45.2	NA
New York	100.0	100.0	3.6	100.0	100.0	3.6	100.0	100.0	NA
North Carolina	100.0	NA	8.8	100.0	78.4	8.3	100.0	NA	8.2
North Dakota	100.0	85.3	34.6	100.0	84.5	38.0	100.0	87.2	35.5
Ohio	100.0	100.0	NA	100.0	100.0	NA	100.0	100.0	0.5
Oklahoma	100.0	30.0	8.7	100.0	29.0	9.2	100.0	34.0	NA
Oregon	100.0	91.8	13.6	100.0	92.5	13.5	100.0	92.6	14.1
Pennsylvania	87.2	26.7	0.4	87.0	26.2	0.3	86.5	25.9	0.4
Rhode Island	100.0	50.7	4.2	100.0	52.8	3.2	100.0	50.3	3.7
South Carolina	100.0	89.8	38.7	100.0	89.1	38.8	100.0	90.7	40.3
South Dakota	100.0	68.9	1.8	100.0	71.7	1.5	100.0	75.8	1.7
Tennessee	100.0	77.1	22.2	100.0	79.0	20.3	100.0	81.0	21.6
Texas	NA	61.5	35.9	98.5	63.5	34.7	99.2	64.0	35.5
Utah	100.0	55.7	2.3	100.0	55.4	2.9	100.0	66.2	2.9
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	88.5	41.8	10.1	86.5	41.8	9.3	88.6	40.8	NA
Washington	100.0	NA	NA	100.0	76.6	NA	100.0	NA	NA
West Virginia	100.0	29.8	4.0	100.0	31.2	3.9	100.0	30.7	4.5
Wisconsin	100.0	48.0	12.1	100.0	51.5	12.5	100.0	53.2	11.2
Wyoming	72.8	48.5	1.1	72.9	46.5	1.2	73.1	46.9	1.3
Total	95.6	54.8	13.9	95.8	56.0	13.7	95.7	57.4	13.7

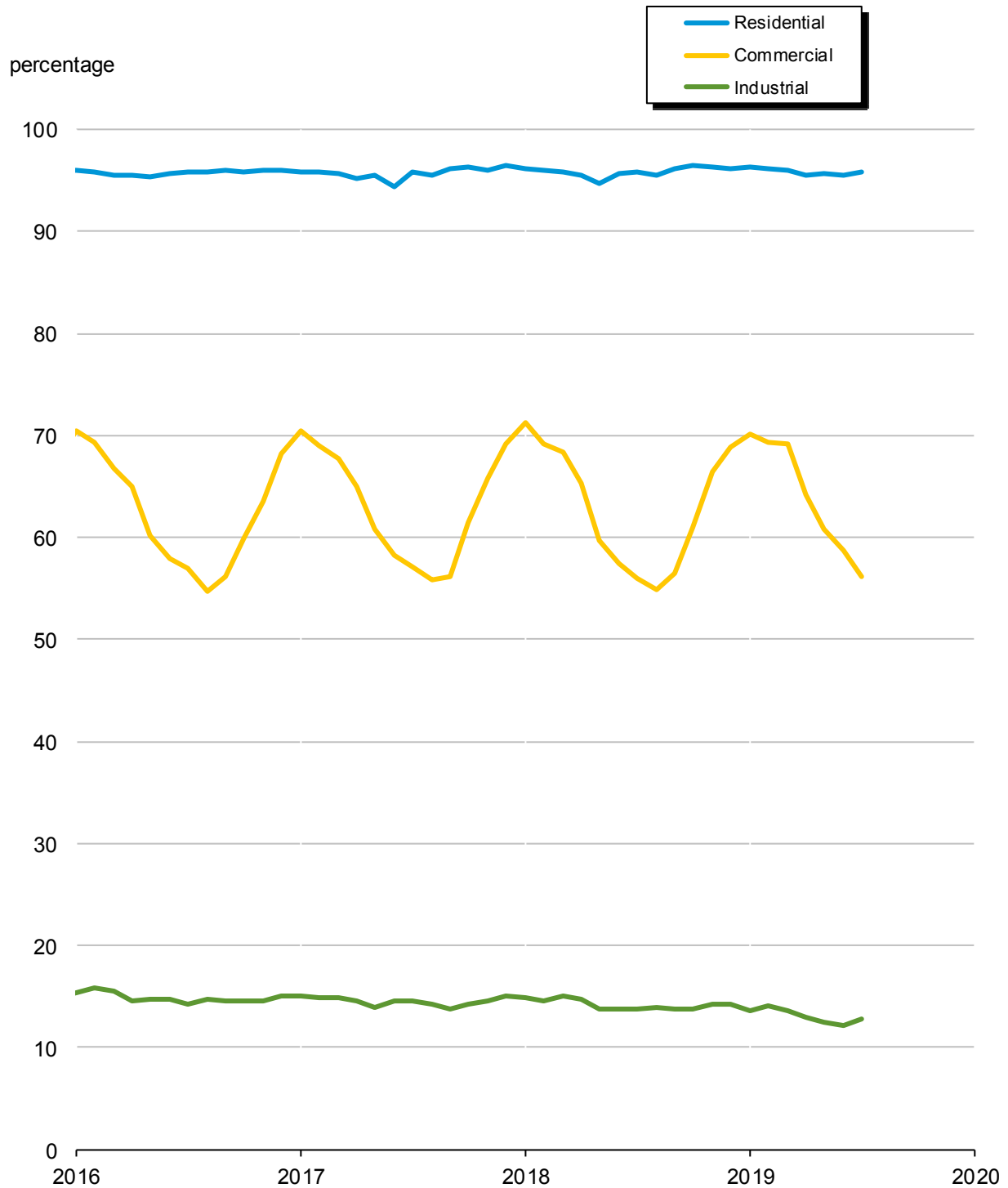
– Not applicable.

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, 2016-2019



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, 2017-2019
(Btu per cubic foot)

State	2019	2018	2017	2019				
	7-Month YTD	7-Month YTD	7-Month YTD	July	June	May	April	March
Alabama	1,025	1,027	1,030	1,027	1,027	1,026	1,023	1,021
Alaska	981	981	995	979	977	967	980	982
Arizona	1,034	1,040	1,039	1,030	1,031	1,032	1,035	1,036
Arkansas	1,018	1,018	1,024	1,021	1,018	1,015	1,017	1,016
California	1,032	1,034	1,035	1,035	1,031	1,031	1,032	1,031
Colorado	1,087	1,074	1,064	1,109	1,102	1,094	1,087	1,077
Connecticut	1,029	1,028	1,026	1,028	1,027	1,027	1,028	1,030
Delaware	1,038	1,041	1,039	1,035	1,037	1,037	1,038	1,039
District of Columbia	1,041	1,040	1,043	1,033	1,026	1,031	1,040	1,044
Florida	1,022	1,023	1,023	1,025	1,025	1,022	1,023	1,020
Georgia	1,024	1,028	1,032	1,027	1,023	1,023	1,021	1,021
Hawaii	948	968	971	917	954	963	958	946
Idaho	1,030	1,043	1,038	1,022	1,033	1,039	1,037	1,030
Illinois	1,033	1,031	1,031	1,033	1,032	1,032	1,032	1,033
Indiana	1,049	1,045	1,042	1,059	1,055	1,061	1,049	1,045
Iowa	1,061	1,058	1,053	1,080	1,075	1,063	1,060	1,054
Kansas	1,042	1,039	1,038	1,059	1,036	1,038	1,044	1,036
Kentucky	1,048	1,052	1,036	1,044	1,042	1,043	1,052	1,046
Louisiana	1,022	1,022	1,031	1,022	1,024	1,026	1,023	1,021
Maine	1,040	1,041	1,029	1,032	1,036	1,030	1,036	1,042
Maryland	1,046	1,045	1,050	1,039	1,036	1,039	1,045	1,050
Massachusetts	1,032	1,031	1,031	1,030	1,029	1,029	1,030	1,031
Michigan	1,054	1,047	1,042	1,058	1,058	1,057	1,053	1,051
Minnesota	1,047	1,042	1,030	1,059	1,055	1,055	1,053	1,043
Mississippi	1,029	1,025	1,035	1,033	1,029	1,032	1,030	1,030
Missouri	1,024	1,024	1,022	1,032	1,028	1,028	1,022	1,021
Montana	1,049	1,046	1,032	1,052	1,054	1,051	1,051	1,049
Nebraska	1,065	1,054	1,057	1,085	1,078	1,074	1,073	1,055
Nevada	1,040	1,038	1,040	1,048	1,042	1,039	1,039	1,034
New Hampshire	1,033	1,032	1,030	1,030	1,029	1,028	1,030	1,034
New Jersey	1,040	1,038	1,040	1,036	1,035	1,036	1,038	1,041
New Mexico	1,027	1,036	1,043	1,030	1,028	1,025	1,024	1,022
New York	1,033	1,031	1,032	1,031	1,030	1,030	1,032	1,033
North Carolina	1,029	1,028	1,037	1,032	1,031	1,029	1,030	1,029
North Dakota	1,084	1,081	1,052	1,065	1,084	1,085	1,092	1,087
Ohio	1,064	1,064	1,070	1,064	1,062	1,063	1,065	1,065
Oklahoma	1,027	1,034	1,044	1,034	1,028	1,025	1,027	1,027
Oregon	1,054	1,071	1,050	1,053	1,066	1,063	1,048	1,048
Pennsylvania	1,038	1,038	1,039	1,035	1,036	1,036	1,037	1,038
Rhode Island	1,028	1,029	1,030	1,029	1,028	1,028	1,028	1,028
South Carolina	1,025	1,028	1,030	1,028	1,027	1,027	1,025	1,022
South Dakota	1,068	1,060	1,053	1,074	1,077	1,073	1,067	1,064
Tennessee	1,026	1,025	1,028	1,021	1,020	1,023	1,032	1,027
Texas	1,024	1,026	1,029	1,029	1,026	1,022	1,024	1,022
Utah	1,044	1,040	1,042	1,049	1,043	1,044	1,046	1,043
Vermont	1,037	1,034	1,030	1,032	1,033	1,029	1,034	1,037
Virginia	1,053	1,050	1,051	1,049	1,048	1,049	1,053	1,057
Washington	1,086	1,088	1,079	1,090	1,087	1,083	1,084	1,083
West Virginia	1,092	1,092	1,086	1,098	1,100	1,112	1,091	1,087
Wisconsin	1,043	1,037	1,034	1,041	1,034	1,043	1,044	1,047
Wyoming	1,071	1,057	1,064	1,073	1,060	1,077	1,071	1,070
Total	1,037	1,036	1,037	1,037	1,035	1,035	1,036	1,037

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2017-2019
(Btu per cubic foot) – continued

State	2019			2018				
	February	January	Total	December	November	October	September	August
Alabama	1,021	1,025	1,027	1,025	1,028	1,031	1,028	1,026
Alaska	981	990	975	976	979	979	970	937
Arizona	1,037	1,036	1,041	1,037	1,043	1,043	1,044	1,042
Arkansas	1,018	1,018	1,018	1,015	1,028	1,015	1,013	1,015
California	1,033	1,032	1,033	1,032	1,033	1,033	1,033	1,035
Colorado	1,078	1,081	1,079	1,083	1,082	1,089	1,096	1,091
Connecticut	1,030	1,030	1,028	1,030	1,029	1,028	1,027	1,027
Delaware	1,040	1,041	1,039	1,040	1,035	1,037	1,040	1,037
District of Columbia	1,046	1,045	1,040	1,045	1,041	1,036	1,030	1,027
Florida	1,020	1,021	1,023	1,022	1,024	1,023	1,022	1,021
Georgia	1,022	1,026	1,028	1,026	1,028	1,030	1,031	1,029
Hawaii	961	938	962	960	953	968	953	932
Idaho	1,029	1,028	1,035	1,027	1,026	1,032	1,024	1,020
Illinois	1,034	1,035	1,030	1,034	1,030	1,027	1,025	1,024
Indiana	1,043	1,043	1,046	1,047	1,045	1,043	1,049	1,052
Iowa	1,054	1,055	1,062	1,061	1,066	1,068	1,076	1,069
Kansas	1,036	1,043	1,039	1,043	1,041	1,035	1,036	1,040
Kentucky	1,050	1,051	1,051	1,058	1,052	1,045	1,046	1,046
Louisiana	1,020	1,021	1,022	1,024	1,019	1,024	1,024	1,023
Maine	1,045	1,048	1,042	1,044	1,042	1,044	1,039	1,045
Maryland	1,050	1,050	1,043	1,042	1,045	1,035	1,035	1,034
Massachusetts	1,034	1,035	1,031	1,032	1,030	1,030	1,029	1,030
Michigan	1,053	1,052	1,048	1,051	1,053	1,051	1,049	1,049
Minnesota	1,026	1,047	1,045	1,038	1,047	1,057	1,062	1,060
Mississippi	1,023	1,023	1,026	1,028	1,027	1,027	1,029	1,026
Missouri	1,020	1,022	1,024	1,023	1,022	1,023	1,025	1,028
Montana	1,045	1,045	1,046	1,045	1,041	1,042	1,048	1,055
Nebraska	1,056	1,059	1,060	1,062	1,064	1,074	1,073	1,073
Nevada	1,039	1,035	1,037	1,034	1,033	1,035	1,036	1,037
New Hampshire	1,035	1,041	1,031	1,035	1,033	1,030	1,028	1,029
New Jersey	1,044	1,044	1,039	1,042	1,041	1,036	1,035	1,035
New Mexico	1,027	1,031	1,036	1,035	1,035	1,035	1,039	1,040
New York	1,034	1,034	1,032	1,034	1,034	1,031	1,029	1,030
North Carolina	1,027	1,027	1,028	1,028	1,030	1,035	1,030	1,024
North Dakota	1,089	1,079	1,079	1,079	1,084	1,075	1,071	1,076
Ohio	1,065	1,065	1,064	1,065	1,065	1,064	1,063	1,063
Oklahoma	1,030	1,022	1,032	1,029	1,028	1,027	1,028	1,028
Oregon	1,054	1,055	1,062	1,049	1,043	1,055	1,062	1,059
Pennsylvania	1,039	1,039	1,037	1,038	1,037	1,036	1,036	1,035
Rhode Island	1,028	1,029	1,029	1,028	1,030	1,028	1,029	1,028
South Carolina	1,021	1,026	1,027	1,025	1,026	1,027	1,025	1,024
South Dakota	1,064	1,062	1,067	1,070	1,075	1,078	1,079	1,083
Tennessee	1,027	1,029	1,024	1,026	1,027	1,023	1,021	1,019
Texas	1,021	1,024	1,026	1,028	1,026	1,027	1,027	1,027
Utah	1,041	1,042	1,040	1,037	1,038	1,041	1,042	1,039
Vermont	1,041	1,042	1,034	1,040	1,036	1,031	1,024	1,025
Virginia	1,056	1,055	1,052	1,061	1,056	1,050	1,049	1,050
Washington	1,086	1,087	1,088	1,084	1,081	1,086	1,094	1,091
West Virginia	1,088	1,085	1,093	1,089	1,061	1,133	1,104	1,097
Wisconsin	1,040	1,046	1,038	1,044	1,045	1,043	1,034	1,028
Wyoming	1,071	1,072	1,058	1,063	1,048	1,059	1,065	1,066
Total	1,037	1,038	1,036	1,038	1,037	1,036	1,035	1,034

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2017-2019
(Btu per cubic foot) – continued

State	2018							2017
	July	June	May	April	March	February	January	Total
Alabama	1,024	1,027	1,028	1,027	1,028	1,026	1,026	1,030
Alaska	956	953	980	987	982	991	995	989
Arizona	1,041	1,041	1,037	1,035	1,043	1,041	1,045	1,041
Arkansas	1,018	1,017	1,018	1,016	1,017	1,019	1,016	1,019
California	1,035	1,034	1,033	1,031	1,032	1,034	1,036	1,035
Colorado	1,089	1,089	1,081	1,071	1,072	1,064	1,066	1,065
Connecticut	1,027	1,027	1,027	1,029	1,029	1,029	1,030	1,028
Delaware	1,038	1,043	1,035	1,037	1,043	1,043	1,044	1,042
District of Columbia	1,031	1,029	1,027	1,038	1,044	1,042	1,047	1,039
Florida	1,026	1,021	1,023	1,023	1,024	1,023	1,024	1,024
Georgia	1,026	1,028	1,028	1,027	1,029	1,028	1,028	1,030
Hawaii	961	956	974	974	973	971	965	975
Idaho	1,037	1,029	1,058	1,053	1,040	1,039	1,045	1,041
Illinois	1,027	1,026	1,029	1,032	1,031	1,033	1,032	1,029
Indiana	1,051	1,054	1,048	1,042	1,043	1,039	1,041	1,043
Iowa	1,075	1,066	1,061	1,055	1,051	1,054	1,054	1,056
Kansas	1,041	1,048	1,041	1,036	1,037	1,036	1,037	1,034
Kentucky	1,047	1,044	1,046	1,061	1,055	1,051	1,054	1,046
Louisiana	1,022	1,022	1,023	1,019	1,021	1,021	1,022	1,022
Maine	1,047	1,047	1,041	1,042	1,044	1,035	1,035	1,030
Maryland	1,040	1,038	1,041	1,045	1,052	1,043	1,051	1,047
Massachusetts	1,030	1,029	1,029	1,029	1,032	1,032	1,033	1,030
Michigan	1,053	1,053	1,044	1,046	1,047	1,046	1,044	1,043
Minnesota	1,065	1,052	1,040	1,039	1,037	1,038	1,037	1,033
Mississippi	1,026	1,025	1,030	1,025	1,024	1,024	1,024	1,032
Missouri	1,030	1,031	1,027	1,021	1,023	1,023	1,023	1,010
Montana	1,056	1,051	1,048	1,045	1,047	1,043	1,044	1,041
Nebraska	1,072	1,062	1,059	1,053	1,053	1,043	1,052	1,061
Nevada	1,041	1,041	1,041	1,037	1,036	1,036	1,038	1,039
New Hampshire	1,030	1,030	1,028	1,032	1,033	1,033	1,036	1,030
New Jersey	1,035	1,034	1,034	1,039	1,040	1,039	1,042	1,039
New Mexico	1,040	1,042	1,034	1,032	1,031	1,035	1,040	1,042
New York	1,030	1,029	1,029	1,031	1,033	1,032	1,033	1,032
North Carolina	1,026	1,029	1,030	1,025	1,027	1,028	1,029	1,036
North Dakota	1,072	1,076	1,087	1,078	1,080	1,074	1,098	1,080
Ohio	1,061	1,060	1,061	1,065	1,065	1,064	1,068	1,070
Oklahoma	1,029	1,031	1,033	1,032	1,035	1,039	1,041	1,042
Oregon	1,066	1,080	1,080	1,080	1,070	1,070	1,063	1,062
Pennsylvania	1,036	1,036	1,037	1,037	1,039	1,039	1,041	1,040
Rhode Island	1,028	1,028	1,028	1,029	1,029	1,029	1,029	1,029
South Carolina	1,024	1,027	1,028	1,029	1,029	1,029	1,029	1,031
South Dakota	1,065	1,063	1,055	1,058	1,057	1,061	1,063	1,055
Tennessee	1,019	1,022	1,023	1,028	1,028	1,027	1,025	1,031
Texas	1,026	1,027	1,026	1,024	1,025	1,024	1,026	1,029
Utah	1,035	1,040	1,042	1,043	1,034	1,042	1,044	1,042
Vermont	1,030	1,033	1,026	1,034	1,036	1,035	1,036	1,030
Virginia	1,046	1,051	1,048	1,050	1,056	1,049	1,053	1,053
Washington	1,092	1,088	1,088	1,090	1,090	1,086	1,085	1,080
West Virginia	1,101	1,100	1,106	1,091	1,085	1,086	1,091	1,083
Wisconsin	1,034	1,039	1,032	1,040	1,039	1,035	1,040	1,035
Wyoming	1,053	1,057	1,058	1,057	1,057	1,060	1,054	1,060
Total	1,035	1,035	1,034	1,035	1,037	1,037	1,038	1,036

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2017-2019
(Btu per cubic foot) – continued

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

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2017-2019
(Btu per cubic foot) – continued

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

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 2018 forward, volumes are available only for those states/areas that were collected

individually on the EIA-914 report (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 report (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 Enverus Drillinginfo 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 2014 through 2017 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 these five 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 Refinitiv and republished by EIA with permission.

Annual Data

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

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

Note 10. Heating Degree-Days

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

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

Note 11. Heat Content

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

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Appendix B

Data Sources

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 2019 for report year 2018 totaled approximately 2,084 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 Energy Production, Conversion, and Delivery. 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 325 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 160 natural gas marketers currently report to the survey. Final monthly survey response rates are 100 percent. Responses are filed with EIA in Washington, DC, on or before the 30th day after the end of the report month.

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

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Appendix C

Statistical Considerations

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:

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

where:

P_j = natural gas price in sector j,

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

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

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

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

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

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

and,

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

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

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

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

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

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

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

Table C1. Standard error for natural gas deliveries and price by consumers, by state, July 2019

State	Volume Relative Standard Error (Percent)				Price (Dollars per Thousand Cubic Feet)		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama	NA	NA	1.3	NA	0.53	0.10	0.06
Alaska	0.7	NA	0.0	NA	0.15	NA	0.00
Arizona	2.2	5.5	4.3	2.9	0.62	0.30	NA
Arkansas	1.7	0.2	3.5	2.5	0.04	0.02	0.07
California	1.7	1.1	0.9	0.7	0.43	0.23	0.32
Colorado	1.0	0.6	3.8	2.0	0.07	0.07	0.33
Connecticut	0.3	1.2	0.1	0.6	0.04	0.21	0.02
Delaware	0.0	0.0	0.0	0.0	0.00	0.00	NA
District of Columbia	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Florida	NA	NA	NA	NA	NA	NA	NA
Georgia	0.0	0.0	NA	0.0	0.04	0.14	0.13
Hawaii	0.0	0.0	0.0	0.0	0.00	0.00	NA
Idaho	0.4	0.7	0.0	0.2	0.01	0.00	0.00
Illinois	0.6	2.4	2.7	1.6	0.16	0.15	NA
Indiana	1.5	2.4	3.1	2.8	0.00	0.27	0.23
Iowa	NA	NA	1.1	NA	NA	NA	0.21
Kansas	3.3	0.4	3.2	2.5	0.11	0.04	0.12
Kentucky	1.0	1.6	2.6	2.1	0.25	0.17	0.17
Louisiana	4.3	3.0	1.3	1.2	0.37	0.32	0.08
Maine	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Maryland	0.4	2.9	NA	NA	0.04	0.05	NA
Massachusetts	1.1	1.8	3.1	1.2	0.09	0.29	0.12
Michigan	1.0	1.1	2.0	1.1	0.19	0.11	0.08
Minnesota	1.3	2.2	8.5	5.9	0.50	0.11	0.27
Mississippi	2.5	1.8	4.2	3.7	0.17	0.20	0.19
Missouri	1.7	1.6	1.7	1.0	0.14	0.19	0.39
Montana	0.9	0.3	0.1	0.2	0.14	0.15	0.63
Nebraska	0.6	1.0	1.6	1.2	0.22	0.15	0.15
Nevada	0.0	0.0	0.3	0.1	0.00	0.00	0.04
New Hampshire	0.0	0.0	0.0	0.0	0.00	0.00	0.00
New Jersey	0.0	0.0	0.9	0.2	0.00	0.00	0.00
New Mexico	2.8	2.3	2.9	1.6	0.14	0.20	0.00
New York	0.0	0.0	3.1	0.0	0.11	0.04	0.61
North Carolina	1.6	2.4	1.3	1.1	0.11	0.15	0.72
North Dakota	0.3	0.2	0.2	0.2	0.06	0.02	0.00
Ohio	0.0	0.0	0.6	0.0	0.10	0.05	0.36
Oklahoma	3.5	1.4	1.9	1.6	1.12	0.48	0.35
Oregon	0.0	0.0	0.8	0.6	0.00	0.00	0.00
Pennsylvania	0.5	0.7	1.8	1.2	0.17	0.23	0.43
Rhode Island	0.0	0.0	0.0	0.0	0.00	0.00	0.00
South Carolina	2.1	2.5	1.0	0.9	0.60	0.26	0.15
South Dakota	NA	NA	NA	NA	NA	NA	NA
Tennessee	1.7	3.0	1.7	1.4	0.35	0.17	0.08
Texas	2.4	0.8	1.4	1.3	0.88	0.43	0.01
Utah	0.4	0.3	0.0	0.1	0.00	0.00	0.00
Vermont	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Virginia	1.9	1.5	1.5	1.0	0.24	0.15	0.27
Washington	0.8	1.3	1.1	0.7	0.01	0.10	0.15
West Virginia	4.5	0.4	0.6	0.5	0.00	0.08	0.00
Wisconsin	2.1	1.6	1.5	1.1	0.56	0.15	0.02
Wyoming	0.6	2.9	NA	NA	0.14	0.03	0.56
Total	0.4	0.4	0.6	0.4	0.10	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."

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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.